



**MODELING AND MEASUREMENT  
OF VEHICLE EMISSIONS  
FROM ROADWAYS**

**VOLUME II  
APPENDIX K**

**RESEARCH REPORT 283-3F**

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**COOPERATIVE RESEARCH PROGRAM**

**TEXAS TRANSPORTATION INSTITUTE  
THE TEXAS A&M UNIVERSITY SYSTEM  
COLLEGE STATION, TEXAS**

**STATE DEPARTMENT OF HIGHWAYS  
AND PUBLIC TRANSPORTATION**

in cooperation with the  
U.S. Department of Transportation  
Federal Highway Administration

MODELING AND MEASUREMENT OF VEHICLE EMISSIONS FROM ROADWAYS

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**Appendix K**

This appendix contains the SETC program five and fifteen minute averages for the Houston data base. If less than 75% of the data are present for a specific time period indicated on the output, the SETC program prints asterisks for that channel.

Channel	Name	Units	System Configuration		Offset	Record Type	Maximum Value	Minimum Value
			Instrument Location	Calibration Constant				
1	Radar 1	mph	W. Bridge-Inner Lane	20.00	.00	10	1200	-100
2	Radar 2	mph	E. Bridge-Inner Lane	20.00	.00	10	1200	-100
3	Radar 3	mph	W. Bridge-2nd Lane	20.00	.00	10	1200	-100
4	Radar 4	mph	E. Bridge-2nd Lane	20.00	.00	10	1200	-100
5	Radar 5	mph	W. Bridge-3rd Lane	20.00	.00	10	1200	-100
6	Radar 6	mph	E. Bridge-3rd Lane	20.00	.00	10	1200	-100
7	Radar 7	mph	W. Bridge-4th Lane	20.00	.00	10	1200	-100
8	Radar 8	mph	E. Bridge-4th Lane	20.00	.00	10	1200	-100
9	Radar 9	mph	W. Bridge-Exit Ramp	20.00	.00	10	1200	-100
10	Radar 10	mph	E. Bridge-Exit Ramp	20.00	.00	10	1200	-100
11	N TOP PER	mph	N. Tower Top UVW	39.40	.00	19	410	-410
12	N Dasibi CD	ppm	N. Side MEL 2	10.00	.00	7	2048	-20
13	N TOP PAR	mph	N. Tower Top UVW	39.48	.00	19	410	-410
14	N Dasibi O3	ppm	N. Side MEL 2	.05	.00	3	2048	-20
15	N TOP VER	mph	N. Tower Top UVW	49.30	.00	19	410	-410
16	N NOX/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
17	N BOT PER	mph	N. Tower Bot UVW	39.24	.00	19	410	-410
18	N BOT PAR	mph	N. Tower Bot UVW	39.56	.00	19	410	-410
19	N ND2/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
20	N BOT VER	mph	N. Tower Bot UVW	49.10	.00	19	410	-410
21	N NC/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
22	N HA 102'	mph	N. Tower Top HA	100.00	.00	12	300	-20
23	N THC/Byron	ppm	N. Side MEL 2	.10	.00	5	410	-20
24	N WV 102'	DEGR AZ	N. Tower Top W Vane	360.00	.00	13	460	-20
25	N NMHC/Byro	ppm	N. Side MEL 2	.10	.00	5	410	-20
26	N Gnd Temp	DEGR F	N. Side Gnd Temp.	160.00	-40.00	14	380	-20
27	N CH4/Byron	ppm	N. Side MEL 2	.10	.00	5	410	-20
28	N WV 74'	DEGR AZ	N. Tower Bot W Vane	360.00	.00	13	450	-20
29	N CD/Byron	ppm	N. Side MEL 2	.10	.00	5	410	-20
30	N 74' Temp	DEGR F	N. Tower Top Temp.	160.00	-40.00	14	380	-20
31	N CD2/Byron	ppm	N. Side MEL 2	500.00	.00	5	410	-20
32	N HA 74'	mph	N. Tower Bot HA	100.00	.00	12	300	-20
33	N VA 102'	mph	N. Tower Top V. Anem	41.48	.00	18	410	-410
34	S BOT PER	mph	S. Tower Bot UVW	32.04	.00	19	410	-410
35	N VA 74'	mph	N. Tower Bot V. Anem	48.81	.00	18	410	-410
36	S BOT PAR	mph	S. Tower Bot UVW	35.04	.00	19	410	-410
37	N GND PER	mph	N. Gnd Stand UVW	39.40	.00	19	410	-410
38	S BOT VER	mph	S. Tower Bot UVW	41.02	.00	19	410	-410
39	N GND PAR	mph	N. Gnd Stand UVW	38.84	.00	19	410	-410
40	N GND VER	mph	N. Gnd Stand UVW	48.94	.00	19	410	-410
41	N GND VER	mph	N. Gnd Stand UVW	48.94	.00	19	410	-410
42	N Ecolyzer-1	ppm	N. Tower Top Eco1.	50.00	.00	17	250	-20
43	S TOP PER	mph	S. Tower Top UVW	31.82	.00	19	410	-410
44	N Ecolyzer-2	ppm	N. Tower Sec Eco1.	50.00	.00	17	250	-20
45	S TOP PAR	mph	S. Tower Top UVW	33.28	.00	19	410	-410
46	N Ecolyzer-3	ppm	N. Tower Third Eco1.	100.00	.00	17	250	-20
47	S TOP VER	mph	S. Tower Top UVW	42.51	.00	19	410	-410
48	N Ecolyzer-4	ppm	N. Tower 4th Eco1.	50.00	.00	17	250	-20
49	S GND PER	mph	S. Gnd Stand UVW	31.66	.00	19	410	-410
50	N Ecolyzer-5	ppm	N. Tower 5th Eco1.	50.00	.00	17	250	-20
51	S GND PAR	mph	S. Gnd Stand UVW	33.42	.00	19	410	-410
52	N Re1 Hum	%	N. Side MEL 2 Tower	100.00	.00	15	410	-20
53	S GND VER	mph	S. Gnd Stand UVW	35.30	.00	19	410	-410
54	N Solar Rad	W/m**2	N. Side MEL 2 Roof	278.90	.00	16	2048	-20
55	S VA 55'	mph	S. Tower Top V. Anem	39.15	.00	18	410	-410



Instrument Grouping					
Channel	Name	Units	Location	Group	
1	Radar 1	mph	W. Bridge-Inner Lane	401	
2	Radar 2	mph	E. Bridge-Inner Lane	201	
3	Radar 3	mph	W. Bridge-2nd Lane	402	
4	Radar 4	mph	E. Bridge-2nd Lane	202	
5	Radar 5	mph	W. Bridge-3rd Lane	403	
6	Radar 6	mph	E. Bridge-3rd Lane	203	
7	Radar 7	mph	W. Bridge-4th Lane	404	
8	Radar 8	mph	E. Bridge-4th Lane	204	
9	Radar 9	mph	W. Bridge-Exit Ramp	405	
10	Radar 10	mph	E. Bridge-Exit Ramp	205	
11	N TOP PER	mph	N. Tower Top UVW	147	
12	N Dasibi C0	ppm	N. Side MEL 2	115	
13	N TOP PAR	mph	N. Tower Top UVW	147	
14	N Dasibi D3	ppm	N. Side MEL 2	115	
15	N TOP VER	mph	N. Tower Top UVW	147	
16	N NOX/TECO	ppm	N. Side MEL 2	115	
17	N BOT PER	mph	N. Tower Bot UVW	133	
18	N BOT PAR	mph	N. Tower Bot UVW	133	
20	N NO2/TECO	ppm	N. Side MEL 2	115	
21	N BOT VER	mph	N. Tower Bot UVW	133	
22	N NO/TECO	ppm	N. Side MEL 2	115	
23	N HA 102'	mph	N. Tower Top HA	199	
24	N THC/Byron	ppm	N. Side MEL 2	115	
25	N WV 102'	DEGR AZ	N. Tower Top W Vane	199	
26	N NMHC/Byro	ppm	N. Side MEL 2	115	
27	N Gnd Temp	DEGR F	N. Side Gnd Temp.	105	
28	N CH4/Byron	ppm	N. Side MEL 2	115	
29	N WV 74'	DEGR AZ	N. Tower Bot W Vane	174	
30	N CO/Byron	ppm	N. Side MEL 2	115	
31	N 74' Temp	DEGR F	N. Tower Top Temp.	174	
32	N CO2/Byron	ppm	N. Side MEL 2	115	
35	N HA 74'	mph	N. Tower Top V. Anem	174	
37	N VA 102'	mph	N. Tower Bot HA	199	
38	S BOT PER	mph	S. Tower Bot UVW	319	
39	N VA 74'	mph	N. Tower Bot V. Anem	174	
40	S BOT PAR	mph	S. Tower Bot UVW	319	
41	N GND PER	mph	N. Gnd Stand UVW	105	
42	S BOT VER	mph	S. Tower Bot UVW	319	
43	N GND PAR	mph	N. Gnd Stand UVW	105	
45	N GND VER	mph	N. Gnd Stand UVW	105	
49	N Ecolyzer-1	ppm	N. Tower Top Ecol.	199	
50	S TDP PER	mph	S. Tower Top UVW	337	
51	N Ecolyzer-2	ppm	N. Tower Sec Ecol.	174	
52	S TOP PAR	mph	S. Tower Top UVW	337	
53	N Ecolyzer-3	ppm	N. Tower Third Ecol.	147	
54	S TDP VER	mph	S. Tower Top UVW	337	
55	N Ecolyzer-4	ppm	N. Tower 4th Ecol.	133	
56	S GND PER	mph	S. Gnd Stand UVW	305	
57	N Ecolyzer-5	ppm	N. Tower 5th Ecol.	106	
58	S GND PAR	mph	S. Gnd Stand UVW	305	
59	N Rel Hum	%	N. Side MEL 2 Tower	125	
60	S GND VER	mph	S. Gnd Stand UVW	305	
61	N Solar Rad	W/m <sup>2</sup> =2	N. Side MEL 2 Roof	112	
64	S VA 55'	mph	S. Tower Top V. Anem	355	

Grouping Code:

First digit--inst. bearing (1=North,2=East,3=South,4=West)  
 Second and third digits represent height in feet

EXAMPLE: 330 is an instrument on the south side of the road @ 30 feet.

SETC Averaging Program Output

Agency: Texas Transportation Institute      Site Location: IH610 between N. Main and Airline Dr.  
 Project 22830      Houston, Texas  
 Texas A & M University System  
 College Station, Texas 77843      Collection Period: Nov. 15 thru Dec. 19, 1984  
 Texas State Department of  
 Highways and Public Transportation  
 File D8-E  
 Austin, Texas 78701

Number of Collection days: 3  
 Pollutants monitored: Carbon Monoxide  
 Total Hydrocarbons  
 Non-Methane Hydrocarbons  
 Methane  
 Carbon Dioxide  
 Ozone  
 Nitrous Oxides (NOx)  
 Nitric Oxide (NO)  
 Nitrogen Dioxide

Meteorological Data  
 8 Wind Speed & Direction  
 4 Thermometers  
 2 Psychrometers  
 1 Barometer  
 2 Pyranometers

Calibration Channels:

NOTE: UVW anemometer vector sums are a 3-D vector sum of all components. The bearing is the azimuth angle and hence is in degrees azimuth. The elevation angle is positive for up drafts and negative for down drafts. It ranges from +90 degrees to -90 degrees with a horizontal wind having 0 degrees.

Data for Aug. 08, 1984

18:05:20 -- This is the first real data run of the year. All met insts are up. AEDAS ecolyz  
 18:05:20 -- ers are down. Neither Byron's are up but both Dasibi CO's and ozone's are up.  
 18:05:20 -- All North ecolyzers are up and will be recalibrated shortly. Cloud cover is about  
 18:05:20 -- 1/4 to 3/8. Operators are Michael Hlavinka and John Hogue.  
 18:18:04 -- Leaving site for dinner. Will return shortly.  
 18:43:26 -- We have been back from dinner for about five minutes.  
 18:59:52 -- 18:59. start calibration of ch 55, nco-4. j. hogue

Average for 15 minute period ending at 18:15:00  
Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
.0	0	.0	0	.0	0	.0	0	.0	0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 18:30:00

Traffic Data  
 Total Traffic : 1770 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	67.8	98	60.9	104	60.4	26	56.1	27	52.4
Cat2	128	70.2	94	62.8	114	61.2	124	59.7	40	51.0
Cat3	9	71.9	23	68.5	4	61.0	13	59.3	2	51.5
Cat4	4	69.7	5	65.3	4	60.3	2	57.7	1	48.2
Cat5	0	.0	3	69.4	1	56.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	55.6	67	52.9	99	54.8	48	50.7	11	44.8
Cat2	90	57.5	125	53.6	115	55.9	50	53.4	56	44.6
Cat3	13	57.7	46	55.4	13	56.7	5	53.9	1	46.1
Cat4	15	61.3	22	55.6	14	55.4	4	51.2	1	54.6
Cat5	9	84.4	22	60.3	7	59.9	2	70.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	589	33.3	58.5	936	52.9	59.6	129	7.3	58.2	72	4.1	52.1	44	2.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.224+/-	3.426	37	N VA 102'	-1.525+/-	19.941
12	N Dasibi CD	1.621+/-	.424	38	S BOT PER	3.337+/-	1.905
13	N TOP PAR	- .916+/-	2.679	39	N VA 74'	- .231+/-	1.818
14	N Dasibi 03	.004+/-	.008	40	S BOT PAR	-1.265+/-	1.715
15	N TOP VER	.193+/-	1.781	41	N GND PER	2.434+/-	2.196
16	N NDX/TECO	*****	*****	42	S BOT VER	- .213+/-	1.116
17	N BDT PER	5.506+/-	3.395	43	N GND PAR	-2.164+/-	2.653
18	N BDT PAR	-1.591+/-	2.540	45	N GND VER	.009+/-	.888
19	N ND2/TECD	*****	*****	49	N Ecolyzer-1	.713+/-	1.185
20	N BDT VER	.110+/-	1.705	50	S TOP PER	5.094+/-	2.598
21	N ND/TECD	*****	*****	51	N Ecolyzer-2	.473+/-	.204
22	N HA 102'	11.130+/-	3.236	52	S TOP PAR	-1.129+/-	2.135
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.127+/-	2.472
25	N WV 102'	174.759+/-	15.278	54	S TOP VER	- .568+/-	1.710
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	3.485+/-	2.250
27	N Gnd Temp	92.252+/-	1.850	56	S GND PER	1.008+/-	1.329
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	174.462+/-	17.854	58	S GND PAR	-1.101+/-	1.571
30	N CD/Byron	*****	*****	59	N Rel Hum	68.979+/-	.452
31	N 74' Temp	90.585+/-	2.269	60	S GND VER	- .140+/-	.668
32	N CD2/Byron	*****	*****	61	N Solar Rad	246.972+/-	32.785
35	N HA 74'	9.097+/-	3.207	64	S VA 55'	.054+/-	1.870

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	7.92+/- 3.51	173.2+/- 19.3	3.1+/- 14.1
02	17 19 21	6.53+/- 3.31	160.7+/- 30.3	4.1+/- 18.9
03	38 40 42	4.07+/- 1.99	160.8+/- 28.7	-2.2+/- 16.6
04	41 43 45	4.35+/- 2.11	139.7+/- 38.8	1.9+/- 17.6
05	50 52 54	5.79+/- 2.87	168.6+/- 18.9	-2.2+/- 18.9
06	56 58 60	2.07+/- 1.60	118.9+/- 45.5	-5.7+/- 23.8

Average for 15 minute period ending at 18:45:00  
Traffic Data  
 Total Traffic = 1683 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	70.0	96	61.3	96	61.0	21	58.8	28	53.1
Cat2	145	71.2	79	81.2	106	82.0	118	58.0	32	52.0
Cat3	7	66.3	30	68.5	5	59.3	12	58.5	2	48.8
Cat4	3	69.7	7	67.0	3	59.5	1	66.3	1	48.1
Cat5	0	.0	1	76.8	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	94	55.0	77	53.2	77	55.0	49	51.6	9	42.3
Cat2	67	57.7	137	54.2	93	56.3	54	52.7	40	42.5
Cat3	18	59.3	27	55.1	17	54.8	10	51.8	1	48.1
Cat4	12	60.2	27	57.7	13	59.1	2	57.9	1	43.0
Cat5	2	65.2	14	57.6	4	56.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	586	34.8	58.9	877	52.1	59.4	129	7.7	59.7	70	4.2	59.0	21	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.486+/-	3.234	37	N VA 102'	-4.639+/-	20.459
12	N Dasibi CD	1.523+/-	.407	38	S BOT PER	2.845+/-	1.666
13	N TOP PAR	-1.406+/-	2.530	39	N VA 74'	- .427+/-	1.852
14	N Dasibi 03	.002+/-	.005	40	S BOT PAR	- .605+/-	1.439
15	N TOP VER	.254+/-	1.735	41	N GND PER	2.420+/-	1.998
16	N NDX/TECO	*****	*****	42	N GND VER	- .261+/-	1.023
17	N BDT PER	5.410+/-	3.746	43	N GND PAR	-2.162+/-	2.317
18	N BDT PAR	-2.047+/-	2.512	45	N GND VER	- .027+/-	.955
19	N ND2/TECD	*****	*****	48	N Ecolyzer-1	.636+/-	1.150
20	N BDT VER	-.009+/-	1.524	50	S TOP PER	5.045+/-	2.254
21	N ND/TECD	*****	*****	51	N Ecolyzer-2	.389+/-	1.169
22	N HA 102'	12.199+/-	3.004	52	S TOP PAR	-1.193+/-	1.542
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.015+/-	1.391
25	N WV 102'	174.449+/-	14.338	54	S TOP VER	- .879+/-	1.883
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	3.403+/-	2.250
27	N Gnd Temp	91.549+/-	2.549	56	S GND PER	1.083+/-	1.558
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	173.821+/-	16.730	58	S GND PAR	- .627+/-	1.436
30	N CD/Byron	*****	*****	59	N Rel Hum	70.770+/-	1.009
31	N 74' Temp	89.152+/-	2.088	60	S GND VER	- .153+/-	.652
32	N CD2/Byron	*****	*****	61	N Solar Rad	150.009+/-	31.906
35	N HA 74'	9.127+/-	3.196	64	S VA 55'	- .091+/-	1.727

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	8.27+/- 3.13	169.7+/- 18.7	5.1+/- 16.5
02	17 19 21	6.70+/- 3.35	155.7+/- 33.7	2.6+/- 18.1
03	38 40 42	3.44+/- 1.66	169.0+/- 29.6	-2.5+/- 18.6
04	41 43 45	4.08+/- 2.03	137.7+/- 37.6	3.4+/- 17.1
05	50 52 54	5.74+/- 2.40	167.2+/- 17.1	-5.7+/- 20.6
06	56 58 60	2.02+/- 1.61	130.0+/- 50.7	-7.5+/- 22.5

Average for 15 minute period ending at 19:00:00  
Traffic Data  
 Total Traffic = 1625 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	71.1	91	61.1	108	60.3	25	57.3	27	51.6
Cat2	120	71.7	82	61.4	118	61.2	107	58.5	29	48.8
Cat3	9	70.5	25	66.9	4	62.6	8	61.3	1	39.7
Cat4	3	68.3	4	67.0	1	66.5	3	56.3	1	47.0
Cat5	0	.0	1	62.2	0	.0	3	62.0	0	.0

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	90	54.2	64	52.4	68	54.5	57	50.6	7	43.9
Cat2	76	56.1	128	54.6	94	55.8	48	53.1	41	43.4
Cat3	15	58.2	35	56.6	16	57.5	8	52.2	1	33.4
Cat4	12	59.7	14	57.6	10	57.8	8	55.4	0	0
Cat5	3	58.7	11	56.4	5	58.8	1	56.0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	570	35.1	58.6	853	52.5	59.9	122	7.5	58.9	56	3.4	58.3	24	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.114+/-	3.187	37	N VA 102'	-3.101+/-	18.119
12	N Dasibi CD	1.502+/-	4.483	38	S BDT PER	3.291+/-	2.177
13	N TOP PAR	-1.531+/-	2.495	39	N VA 74'	-0.535+/-	1.820
14	N Dasibi D3	.005+/-	.008	40	S BDT PAR	-1.226+/-	1.906
15	N TOP VER	.220+/-	1.835	41	N GND PER	3.108+/-	2.407
16	N NDX/TECO	*****+/-*****		42	S BDT VER	-0.451+/-	1.161
17	N BDT PER	6.147+/-	3.116	43	N GND PAR	-2.408+/-	2.788
19	N BDT PAR	-2.193+/-	2.495	45	N GND VER	-0.122+/-	.926
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.586+/-	.159
21	N BDT VER	.110+/-	1.550	50	S TOP PER	4.997+/-	2.503
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.350+/-	.177
23	N HA 102'	12.123+/-	3.397	52	S TOP PAR	-1.123+/-	1.997
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.847+/-	.381
25	N WV 102'	168.470+/-	12.198	54	S TOP VER	-0.596+/-	1.751
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	3.358+/-	2.262
27	N Gnd Temp	88.657+/-	2.835	56	S GND PER	1.483+/-	1.940
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	168.601+/-	15.920	58	S GND PAR	-0.678+/-	1.435
30	N CD/Byron	*****+/-*****		59	N Rel Hum	72.154+/-	.291
31	N 74' Temp	88.240+/-	2.344	60	S GND VER	-0.310+/-	.655
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	97.100+/-	23.672
35	N HA 74'	9.621+/-	3.598	64	S VA 55'	.087+/-	1.587

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.85+/- 3.04	167.8+/- 17.3	4.5+/- 14.2		
02	17 19 21	7.20+/- 2.96	158.1+/- 25.4	4.5+/- 12.8		
03	38 40 42	4.16+/- 2.28	161.1+/- 29.7	-5.3+/- 16.9		
04	41 43 45	4.96+/- 2.29	140.8+/- 35.1	-.9+/- 16.3		
05	50 52 54	5.70+/- 2.77	167.9+/- 19.4	-2.8+/- 19.2		
06	56 58 60	2.33+/- 1.88	136.4+/- 48.1	-11.8+/- 21.5		

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 8250 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	132	59.6	339	61.0	374	60.6	88	57.4	95	52.2
Cat2	484	70.8	334	61.6	407	61.4	434	58.9	119	50.5
Cat3	27	70.0	89	68.0	15	60.9	36	60.0	7	46.5
Cat4	11	69.5	25	65.4	12	61.4	9	58.8	5	45.8
Cat5	1	73.6	7	67.3	1	56.0	3	62.0	0	0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	325	55.0	249	52.8	300	54.7	182	50.9	33	43.7
Cat2	290	56.9	494	54.2	374	55.8	190	53.0	176	43.8
Cat3	61	58.3	142	55.9	59	56.4	29	52.8	5	43.9
Cat4	48	60.6	74	57.0	48	57.7	16	55.3	4	45.3
Cat5	20	62.9	56	58.5	17	59.3	3	65.7	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	2118	33.9	58.5	3302	52.8	58.4	470	7.5	58.9	252	4.0	60.4	108	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.584+/-	3.260	37	N VA 102'	-2.184+/-	20.021
12	N Dasibi CO	1.598+/-	4.454	38	S BDT PER	3.180+/-	1.958
13	N TOP PAR	-1.642+/-	2.597	39	N VA 74'	-0.414+/-	1.873
14	N Dasibi O3	.004+/-	.007	40	S BDT PAR	-1.182+/-	1.698
15	N TOP VER	.222+/-	1.789	41	N GND PER	2.604+/-	2.199
16	N NDX/TECO	*****+/-*****		42	S BDT VER	-0.300+/-	1.104
17	N BDT PER	5.717+/-	3.423	43	N GND PAR	-2.458+/-	2.525
18	N BDT PAR	-2.238+/-	2.491	45	N GND VER	-0.033+/-	.895
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.871+/-	.186
21	N BDT VER	.084+/-	1.579	50	S TOP PER	5.022+/-	2.458
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	-0.418+/-	.197
23	N HA 102'	41.487+/-	3.318	52	S TOP PAR	-1.239+/-	1.908
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.935+/-	.443
25	N WV 102'	170.888+/-	15.492	54	S TOP VER	-0.721+/-	1.728
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	3.434+/-	.261
27	N Gnd Temp	90.959+/-	2.789	56	S GND PER	1.237+/-	1.660
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	169.944+/-	17.471	58	S GND PAR	-0.880+/-	1.515
30	N CD/Byron	*****+/-*****		59	N Rel Hum	70.498+/-	1.377
31	N 74' Temp	89.867+/-	2.537	60	S GND VER	-0.187+/-	.633
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	197.762+/-	97.849
35	N HA 74'	9.190+/-	3.376	64	S VA 55'	-.051+/-	1.692

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.40+/- 3.20	167.5+/- 18.8	4.1+/- 14.7		
02	17 19 21	6.94+/- 3.16	155.6+/- 29.2	3.6+/- 16.6		
03	38 40 42	3.95+/- 2.01	161.1+/- 29.1	-2.6+/- 17.5		
04	41 43 45	4.52+/- 2.11	136.4+/- 36.3	1.4+/- 16.3		
05	50 52 54	5.71+/- 2.68	167.1+/- 18.5	-3.5+/- 18.6		
06	56 58 60	2.20+/- 1.72	127.0+/- 47.5	-8.3+/- 21.3		

19:09:10 -- MCO-4 is calibrated  
 19:09:31 -- Forgot to change rtype before calibration  
 19:13:02 -- Begin calibration of MCO-3  
 19:19:23 -- END CALIBRATION OF MCO-3  
 19:23:13 -- BEGIN CALIBRATION CH 51, MCO-2 JFH  
 19:34:36 -- BEGIN CALIBRATION CH 49 MCO-1 JFH  
 19:34:56 -- END CALIBRATION MCO-2  
 19:44:26 -- END CALIBRATION OF ALL CO DEVICES.

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1502 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	69.8	84	60.3	80	61.2	17	57.2	25	52.4
Cat2	95	71.2	66	63.9	85	61.3	113	57.8	35	47.3
Cat3	4	71.0	23	74.2	9	59.1	7	59.7	1	41.1
Cat4	2	72.7	4	62.9	2	62.6	4	56.0	0	.0
Cat5	0	.0	2	72.7	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	55.5	75	53.3	90	54.8	52	50.6	8	42.2
Cat2	65	57.6	132	54.9	90	56.1	60	52.0	41	43.7
Cat3	10	56.2	37	55.6	10	56.4	9	52.0	0	.0
Cat4	15	60.5	14	56.7	8	58.7	1	54.9	0	.0
Cat5	4	62.4	11	58.5	2	60.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.0	541	36.0	58.0	782	52.1	60.3	110	7.3	59.4	50	3.3	61.1	19	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.521+/- 2.711	mph	37	N VA 102'	-4.934+/- 21.652	mph
12	N Dasibi CO	1.374+/- .343	ppm	38	S BDT PER	-3.410+/- 2.246	mph
13	N TOP PAR	-1.901+/- 3.294	mph	39	N VA 74'	- .623+/- 1.723	mph
14	N Dasibi O3	.002+/- .004	ppm	40	S BDT PAR	-1.581+/- 1.810	mph
15	N TOP VER	.299+/- 1.758	mph	41	N GND PER	2.621+/- 1.768	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	- .195+/- 1.038	mph
17	N BDT PER	5.771+/- 2.942	mph	43	N GND PAR	-2.966+/- 3.147	mph
19	N BDT PAR	-2.533+/- 3.426	mph	45	N GND VER	.064+/- .812	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.820+/- 1.068	ppm
21	N BDT VER	.149+/- 1.473	mph	50	S TOP PER	4.956+/- 2.111	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.404+/- .151	ppm
23	N HA 102'	10.688+/- 2.809	mph	52	S TOP PAR	-1.231+/- 1.800	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	-.812+/- .427	ppm
25	N WV 102'	170.048+/- 15.522	DEGR AZ	54	S TOP VER	-.585+/- 1.618	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	88.843+/- 2.769	DEGR F	56	S GND PER	1.696+/- 1.716	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	168.199+/- 10.252	DEGR AZ	58	S GND PAR	-1.563+/- 2.043	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	73.832+/- .501	%
31	N 74' Temp	87.953+/- 2.723	DEGR F	60	S GND VER	-.175+/- .554	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	91.780+/- 11.663	W/m <sup>2</sup>
35	N HA 74'	8.473+/- 3.266	mph	64	S VA 55'	.140+/- 1.750	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.58+/- 2.83	166.1+/- 21.8	3.2+/- 14.3
02	17 19 21	7.27+/- 3.09	156.0+/- 27.4	2.9+/- 16.1
03	38 40 42	4.24+/- 2.34	155.3+/- 29.2	-1.5+/- 18.1
04	41 43 45	4.94+/- 2.21	136.7+/- 36.3	1.1+/- 12.5
05	50 52 54	5.54+/- 2.44	168.3+/- 13.4	-3.9+/- 19.0
06	56 58 60	2.86+/- 2.14	124.3+/- 44.8	-8.8+/- 19.3

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1477 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	67.5	90	60.6	81	60.6	19	58.4	32	51.7
Cat2	80	71.5	71	62.7	82	62.5	116	59.0	23	48.8
Cat3	5	69.2	7	89.3	5	61.4	10	63.8	1	49.9
Cat4	2	68.0	5	81.4	3	60.9	0	.0	1	44.7
Cat5	0	.0	0	.0	1	80.2	0	.0	1	70.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	55.8	67	53.7	70	55.2	32	51.6	4	42.2
Cat2	73	59.1	148	55.2	92	56.7	34	53.4	24	44.1
Cat3	18	58.1	23	57.0	19	55.9	6	54.7	0	.0
Cat4	8	62.9	20	57.9	8	61.0	2	51.5	0	.0
Cat5	3	60.0	8	58.7	4	49.0	2	54.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.0	513	36.2	59.0	741	52.3	58.3	94	6.6	59.7	49	3.5	58.1	20	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.669+/- 3.608	mph	37	N VA 102'	-.647+/- 17.755	mph
12	N Dasibi CO	1.533+/- .410	ppm	38	S BDT PER	2.880+/- 1.747	mph
13	N TOP PAR	-.755+/- 2.462	mph	39	N VA 74'	-.610+/- 1.670	mph
14	N Dasibi O3	.002+/- .006	ppm	40	S BDT PAR	-.650+/- 1.564	mph
15	N TOP VER	-.115+/- 1.772	mph	41	N GND PER	2.747+/- 2.268	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	-.195+/- 1.103	mph
17	N BDT PER	6.455+/- 3.510	mph	43	N GND PAR	-1.710+/- 2.127	mph
19	N BDT PAR	-1.376+/- 2.403	mph	45	N GND VER	-.057+/- .959	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.642+/- .223	ppm
21	N BDT VER	-.217+/- 1.617	mph	50	S TOP PER	4.650+/- 2.041	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	12.053+/- 3.700	mph	52	S TOP PAR	-.383+/- 1.702	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	176.940+/- 13.291	DEGR AZ	54	S TOP VER	-.614+/- 1.695	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.785+/- 1.235	ppm
27	N Gnd Temp	89.308+/- 1.981	DEGR F	56	S GND PER	-.833+/- 1.327	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	172.310+/- 15.923	DEGR AZ	58	S GND PAR	-.608+/- 1.509	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	75.102+/- .985	%

31	N 74' Temp	83.604+/-	2.097	DEGR F	60	S GND VER	-120+/-	.501	mph
32	N C02/Byron	*****+/-*****		ppm	50	N Solar Rad	58.587+/-	10.844	W/m**2
35	N HA 74'	9.244+/-	3.982	ppm	64	S VA 55'	.182+/-	1.599	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.33+/-	3.56	172.7+/-	19.2	.7+/-	14.8
02	17	19	21	7.29+/-	3.41	167.1+/-	22.8	1.0+/-	17.6
03	38	40	42	3.41+/-	1.83	187.9+/-	27.4	-2.7+/-	15.9
04	41	43	45	4.10+/-	2.09	148.5+/-	37.1	1.5+/-	19.7
05	50	52	54	5.20+/-	2.27	174.9+/-	16.3	-2.5+/-	20.0
06	56	58	60	1.68+/-	1.58	113.1+/-	50.3	-11.1+/-	18.7

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1234 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	63.9	65	60.9	94	61.3	19	56.5	28	50.7
Cat2	101	70.5	57	61.5	66	60.9	89	59.0	28	47.6
Cat3	2	68.7	20	66.1	2	48.1	7	61.0	1	48.6
Cat4	1	76.1	3	59.4	4	58.2	1	66.9	3	43.5
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	56.7	67	54.3	45	54.0	40	51.1	4	42.1
Cat2	51	57.4	113	56.2	68	55.5	34	54.6	26	44.0
Cat3	6	54.1	31	56.3	9	59.2	3	56.2	1	40.3
Cat4	9	62.6	13	58.6	6	59.9	2	55.0	0	.0
Cat5	3	65.0	5	63.4	1	76.0	1	80.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	457	37.0	59.0	643	52.1	59.1	82	6.6	59.0	42	3.4	66.8	10	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.511+/-	3.032	37	N VA 102'	-5.843+/-	15.852
12	N Dasibi C0	1.132+/-	.280	38	S BDT PER	3.101+/-	2.058
13	N TOP PAR	-2.654+/-	2.575	39	N VA 74'	-1.610+/-	1.794
14	N Dasibi 03	.003+/-	.004	40	S BDT PAR	-1.542+/-	1.626
15	N TOP VER	.174+/-	1.723	41	N GND PER	2.905+/-	2.766
16	N NOX/TECO	*****+/-*****		42	S BDT VER	-.165+/-	1.083
17	N BDT PER	5.639+/-	2.893	43	N GND PAR	-2.909+/-	2.526
18	N BDT PAR	-3.027+/-	2.406	45	N GND VER	.038+/-	.814
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.190+/-	1.543	50	S TOP PER	5.122+/-	2.282
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.435+/-	.184
23	N HA 102'	11.703+/-	2.673	52	S TOP PAR	-1.432+/-	1.968
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.814+/-	.440
25	N WV 102'	168.349+/-	13.294	54	S TOP VER	-.288+/-	1.714
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.863+/-	.236
27	N Gnd Temp	88.031+/-	2.381	56	S GND PER	1.253+/-	1.444
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	165.262+/-	15.689	58	N GND PAR	-1.160+/-	1.487
30	N CD/Byron	*****+/-*****		59	N Rsl Hum	75.607+/-	.440
31	N 74' Temp	87.614+/-	2.427	60	S GND VER	-.164+/-	.539
32	N C02/Byron	*****+/-*****		61	N Solar Rad	39.830+/-	6.802
35	N HA 74'	8.902+/-	2.967	64	S VA 55'	.369+/-	1.829

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.52+/-	3.06	161.0+/-	18.2	3.5+/-	13.8
02	17	19	21	7.06+/-	2.75	150.5+/-	23.8	4.8+/-	18.7
03	38	40	42	4.02+/-	2.06	153.1+/-	29.8	-1.6+/-	20.5
04	41	43	45	5.05+/-	2.42	135.5+/-	36.0	2.6+/-	14.5
05	50	52	54	5.90+/-	2.48	166.0+/-	18.6	.0+/-	19.3
06	56	58	60	2.20+/-	1.65	119.0+/-	44.0	-7.7+/-	20.2

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1127 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	68.6	72	61.3	96	61.3	20	58.2	26	54.1
Cat2	81	71.6	53	62.0	67	63.1	85	60.0	21	51.4
Cat3	3	70.5	20	67.3	3	62.2	4	64.1	3	42.2
Cat4	2	68.7	1	82.1	3	57.8	0	.0	1	47.1
Cat5	1	69.2	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	54.8	66	53.3	52	55.5	34	53.3	6	41.4
Cat2	41	56.4	102	55.6	62	56.6	28	53.6	15	41.5
Cat3	6	54.3	16	54.9	8	58.7	3	61.7	0	.0
Cat4	6	59.6	11	57.3	6	60.4	0	.0	0	.0
Cat5	1	54.8	3	54.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	473	42.0	59.6	556	49.3	60.5	65	5.8	59.0	28	2.6	57.2	5	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.154+/-	2.506	37	N VA 102'	.791+/-	16.245
12	N Dasibi C0	1.469+/-	.293	38	S BDT PER	2.465+/-	1.815
13	N TOP PAR	-2.302+/-	1.980	39	N VA 74'	-.215+/-	1.426
14	N Dasibi 03	.003+/-	.006	40	S BDT PAR	-1.153+/-	1.340
15	N TOP VER	.306+/-	1.288	41	N GND PER	2.224+/-	1.597
16	N NOX/TECO	*****+/-*****		42	S BDT VER	-.284+/-	.819
17	N BDT PER	4.308+/-	2.621	43	N GND PAR	-2.414+/-	1.725
19	N BDT PAR	-2.490+/-	1.920	45	N GND VER	.021+/-	.529
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	.256+/-	.130
21	N BDT VER	.237+/-	1.110	50	S TOP PER	3.833+/-	1.988
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.470+/-	.172

23	N HA 102'	8.318+/-	2.476	mph	52	S TOP PAR	-.840+/-	1.271	mph
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	-.810+/-	.382	ppm
25	N WV 102'	163.529+/-	14.484	DEGR AZ	54	S TDP VER	-.481+/-	1.250	ppm
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	2.605+/-	.474	ppm
27	N Gnd Temp	86.983+/-	2.671	DEGR F	56	S GND PER	-.944+/-	1.349	ppm
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	162.074+/-	16.242	DEGR AZ	58	S GND PAR	-.945+/-	1.252	ppm
30	N CD/Byron	*****+/-*****		ppm	59	N Rel Hum	75.997+/-	.603	%
31	N 74' Temp	87.198+/-	2.638	DEGR F	60	S GND VER	-.145+/-	.258	ppm
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	20.483+/-	4.943	W/m <sup>2</sup>
35	N HA 74'	6.842+/-	2.774	mph	64	S VA 55'	.066+/-	1.251	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation	Angle (Deg)	
01	11 13 15	6.95+/-	2.57	160.1+/-	15.9	5.8+/- 14.8
02	17 19 21	5.40+/-	2.68	149.3+/-	24.9	4.8+/- 16.1
03	38 40 42	3.07+/-	1.82	152.7+/-	30.7	-5.4+/- 15.1
04	41 43 45	3.75+/-	1.58	133.0+/-	26.8	-1.3+/- 10.1
05	50 52 54	4.28+/-	2.18	168.8+/-	14.2	-2.6+/- 19.4
06	56 58 60	1.62+/-	1.62	107.9+/-	45.0	-14.3+/- 20.1

Average for hourly period ending at 20:00:00  
Traffic Data  
 Total Traffic = 5280 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	116	69.1	311	60.8	351	61.1	75	57.6	111	52.2
Cat2	357	71.1	257	62.5	300	61.9	403	58.9	107	48.5
Cat3	14	69.9	70	69.4	19	59.1	28	62.1	6	44.4
Cat4	7	70.7	13	61.5	12	59.5	5	56.2	5	44.5
Cat5	1	69.2	2	72.7	1	60.2	0	.0	1	70.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	308	55.7	276	53.7	257	54.9	158	51.5	22	41.9
Cat2	230	57.8	493	55.4	312	56.5	157	53.1	106	43.6
Cat3	39	56.5	107	56.0	46	57.1	21	54.7	1	40.3
Cat4	36	61.5	58	57.7	28	60.0	5	53.6	0	.0
Cat5	11	61.8	28	59.0	7	56.2	3	63.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	1984	37.8	58.8	2722	51.6	58.8	351	6.6	59.3	169	3.2	60.7	54	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.213+/-	3.044	37	N VA 102'	-2.858+/-	18.201
12	N Dasibi CO	1.377+/-	.368	38	S BOT PER	2.984+/-	1.955
13	N TOP PAR	-1.903+/-	2.705	39	N VA 74'	-.514+/-	1.865
14	N Dasibi O3	.002+/-	.005	40	S BOT PAR	-1.232+/-	1.631
15	N TOP VER	.166+/-	1.653	41	N GND PER	2.824+/-	2.155
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.210+/-	1.016
17	N BOT PER	5.543+/-	3.096	43	N GND PAR	-2.500+/-	2.680
19	N BOT PAR	-2.357+/-	2.656	45	N GND VER	-.016+/-	.794
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	-.510+/-	.627
21	N BOT VER	.089+/-	1.457	50	S TOP PER	4.640+/-	2.157
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.431+/-	.167
23	N HA 102'	10.690+/-	3.283	52	S TOP PAR	-.972+/-	1.745
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	-.788+/-	.443
25	N WV 102'	169.722+/-	14.894	54	S TDP VER	-.482+/-	1.583
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.854+/-	.507
27	N Gnd Temp	88.311+/-	2.574	56	S GND PER	1.181+/-	1.499
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	166.957+/-	17.181	58	S GND PAR	-1.059+/-	1.630
30	N CD/Byron	*****+/-*****		59	N Rel Hum	75.134+/-	1.051
31	N 74' Temp	87.842+/-	2.474	60	S GND VER	-.151+/-	.478
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	52.650+/-	27.897
35	N HA 74'	6.385+/-	3.383	64	S VA 55'	-.189+/-	1.625

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation	Angle (Deg)	
01	11 13 15	8.10+/-	3.09	164.9+/-	19.4	3.2+/- 14.5
02	17 19 21	6.75+/-	3.09	155.8+/-	25.5	3.4+/- 17.2
03	38 40 42	3.89+/-	2.07	157.3+/-	29.7	-2.8+/- 17.5
04	41 43 45	4.46+/-	2.16	138.2+/-	34.6	1.0+/- 14.7
05	50 52 54	5.23+/-	2.41	169.5+/-	16.0	-2.3+/- 19.4
06	56 58 60	2.08+/-	1.83	116.3+/-	46.2	-10.5+/- 19.7

20:04:24 -- LEAVING SITE MOMENTARILY  
 20:28:40 -- OPERATOR BACK . SUNSET APPROX 2015 HRS. JFH  
 20:39:00 -- CALIBRATE CH 49 NCO-1 JFH  
 20:48:31 -- END CALBRATION CH 49 NCO-1 JFH

Average for 15 minute period ending at 20:15:00  
 Traffic Data  
 Total Traffic = 1164 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	70.0	74	60.0	80	61.2	19	57.5	21	52.2
Cat2	89	69.6	60	61.3	66	62.1	83	59.0	34	50.1
Cat3	0	.0	13	71.3	0	.0	7	61.6	1	49.7
Cat4	2	66.2	2	61.8	4	56.8	1	61.1	1	57.6
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	55.2	65	53.6	56	54.6	36	51.5	6	44.0
Cat2	58	57.4	94	55.4	65	57.1	34	52.1	32	43.8
Cat3	8	59.1	22	57.1	6	58.7	4	54.4	0	.0
Cat4	4	62.8	13	57.3	3	57.2	1	45.9	0	.0
Cat5	0	.0	1	61.7	1	66.3	1	52.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	454	39.0	58.5	815	52.8	60.8	61	5.2	58.6	31	2.7	60.1	3	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.370+/-	2.370	37	N VA 102'	-4.891+/-	18.414
12	N Dasibi CO	1.384+/-	.372	38	S BOT PER	2.975+/-	1.970
13	N TOP PAR	-3.355+/-	2.360	39	N VA 74'	-4.485+/-	1.334
14	N Dasibi O3	.002+/-	.005	40	S BOT PAR	-2.200+/-	1.662
15	N TOP VER	.480+/-	1.393	41	N GND PER	2.537+/-	1.637
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-2.47+/-	.913
17	N BOT PER	4.256+/-	2.579	43	N GND PAR	-3.542+/-	1.999
19	N BOT PAR	-3.514+/-	2.050	45	N GND VER	-.092+/-	.544
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	.128+/-	.323
21	N BOT VER	.217+/-	1.149	50	S TOP PER	4.130+/-	2.142
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	.503+/-	.167
23	N HA 102'	8.891+/-	2.157	52	S TOP PAR	-1.385+/-	1.938
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	.801+/-	.406
25	N WV 102'	159.182+/-	14.294	54	S TOP VER	-.539+/-	1.330
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	2.655+/-	.215
27	N Gnd Temp	86.181+/-	2.872	56	S GND PER	1.119+/-	1.412
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****	
29	N WV 74'	157.292+/-	15.129	58	S GND PAR	-1.574+/-	1.634
30	N CO/Byron	*****+/-*****		59	N Rel Hum	78.587+/-	1.701
31	N 74' Temp	85.738+/-	2.189	60	S GND VER	-.172+/-	.424
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	9.992+/-	2.165
35	N HA 74'	7.721+/-	2.707	64	S VA 55'	-.033+/-	1.146

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.65+/- 2.60	154.0+/- 17.4	3.7+/- 11.6
02	17 19 21	6.02+/- 2.55	139.2+/- 22.9	3.1+/- 15.5
03	38 40 42	4.06+/- 2.17	143.2+/- 27.6	-1.6+/- 19.5
04	41 43 45	4.76+/- 1.80	126.6+/- 24.7	-.9+/- 8.2
05	50 52 54	4.71+/- 2.60	166.2+/- 15.7	-4.3+/- 15.0
06	56 58 60	2.32+/- 1.81	110.7+/- 41.4	-10.1+/- 18.4

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic = 1104 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	21	69.3	72	59.8	79	59.4	19	55.6	16	53.3
Cat2	92	71.0	59	60.9	70	60.8	89	58.4	17	47.8
Cat3	3	74.4	16	69.6	3	58.7	5	60.0	0	.0
Cat4	0	.0	3	62.8	2	56.7	1	61.6	1	49.9
Cat5	0	.0	0	.0	0	.0	1	65.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	54.2	62	53.2	43	53.1	35	50.4	6	41.5
Cat2	46	58.9	100	54.2	54	55.1	27	52.1	23	45.3
Cat3	8	57.5	16	55.1	13	56.4	5	56.6	1	28.8
Cat4	1	61.8	4	54.8	6	57.0	2	52.5	0	.0
Cat5	1	59.5	4	60.5	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	431	39.0	58.7	577	52.3	59.9	70	6.3	57.1	20	1.8	61.1	6	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.295+/-	2.083	37	N VA 102'	-1.900+/-	13.624
12	N Dasibi CO	1.481+/-	.382	38	S BOT PER	2.233+/-	1.442
13	N TOP PAR	-3.163+/-	2.319	39	N VA 74'	-4.428+/-	1.283
14	N Dasibi O3	.002+/-	.005	40	S BOT PAR	-1.772+/-	1.480
15	N TOP VER	.330+/-	1.258	41	N GND PER	1.973+/-	1.992
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.220+/-	.590
17	N BOT PER	3.436+/-	2.302	43	N GND PAR	-3.569+/-	2.090
19	N BOT PAR	-3.427+/-	2.040	45	N GND VER	.071+/-	.556
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	.025+/-	.263
21	N BOT VER	.286+/-	1.042	50	S TOP PER	3.351+/-	1.645
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	.541+/-	.146
23	N HA 102'	8.327+/-	2.377	52	S TOP PAR	-.848+/-	1.350
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	.818+/-	.408
25	N WV 102'	158.256+/-	12.940	54	S TOP VER	-.312+/-	1.222
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	2.772+/-	.265
27	N Gnd Temp	84.722+/-	2.759	56	S GND PER	.540+/-	1.126
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****	
29	N WV 74'	155.866+/-	18.306	58	S GND PAR	-.963+/-	1.223
30	N CO/Byron	*****+/-*****		59	N Rel Hum	82.706+/-	.773
31	N 74' Temp	85.426+/-	2.203	60	S GND VER	-.091+/-	.318
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	6.313+/-	.909
35	N HA 74'	6.234+/-	2.858	64	S VA 55'	.199+/-	1.288



UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	6.84+/- 2.33	150.6+/- 19.5	4.1+/- 12.7		
02	17 19 21	5.36+/- 2.34	133.4+/- 24.4	4.8+/- 13.9		
03	38 40 42	3.16+/- 1.65	141.2+/- 23.1	-6.0+/- 11.4		
04	41 43 45	4.56+/- 2.06	118.2+/- 27.2	5+/- 7.4		
05	50 52 54	3.84+/- 1.89	167.9+/- 15.7	1+/- 21.3		
06	56 58 60	1.41+/- 1.45	92.4+/- 41.8	-12.3+/- 20.1		

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 1037 vehicles averaging 56.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	67.6	61	58.9	85	58.7	8	57.4	22	51.4
Cat2	73	68.5	55	59.6	71	60.9	73	58.5	22	48.8
Cat3	2	71.7	17	65.0	1	64.4	3	58.7	2	48.2
Cat4	1	72.5	5	61.8	1	57.1	3	62.3	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	52.9	48	52.6	66	52.5	33	49.0	2	40.3
Cat2	68	54.5	85	53.7	67	55.9	39	47.6	14	42.7
Cat3	8	54.2	24	55.0	5	50.9	2	57.9	1	39.0
Cat4	8	55.2	8	55.3	5	53.8	3	45.1	0	.0
Cat5	3	56.2	6	55.6	0	.0	1	55.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	426	38.8	57.2	565	51.5	57.7	64	5.8	56.4	32	2.9	55.8	10	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.937+/- 2.213	mph	37	N VA 102'	-1.722+/- 16.052	mph
12	N Dasibi CO	1.411+/- .418	ppm	38	S BDT PER	2.795+/- 1.576	mph
13	N TOP PAR	-4.086+/- 1.871	mph	39	N VA 74'	-4.885+/- 1.185	mph
14	N Dasibi O3	.001+/- .005	ppm	40	S BDT PAR	-2.327+/- 1.746	mph
15	N TOP VER	.472+/- 1.545	mph	41	N GND PER	2.337+/- 2.141	mph
16	N NOX/TECO	*****	ppm	42	S BDT VER	-2.235+/- .880	mph
17	N BDT PER	4.180+/- 2.159	mph	43	N GND PAR	-4.015+/- 1.887	mph
19	N BDT PAR	-4.057+/- 1.725	ppm	45	N GND VER	-0.035+/- .876	ppm
20	N NO2/TECO	*****	ppm	49	N EcoLyzr-1	*****	ppm
21	N BDT VER	.301+/- 1.238	mph	50	S TOP PER	3.911+/- 1.993	mph
22	N NO/TECO	*****	ppm	51	N EcoLyzr-2	.537+/- .157	ppm
23	N HA 102'	8.359+/- 2.448	mph	52	S TOP PAR	-1.888+/- 2.269	ppm
24	N THC/Byron	*****	ppm	53	N EcoLyzr-3	.827+/- .420	ppm
25	N WV 102'	154.812+/- 12.407	DEGR AZ	54	S TOP VER	-3.711+/- 1.143	ppm
26	N NMHC/Byro	*****	ppm	55	N EcoLyzr-4	2.807+/- .282	ppm
27	N Gnd Temp	84.540+/- 2.287	DEGR F	56	S GND PER	1.015+/- 1.462	mph
28	N CH4/Byron	*****	ppm	57	N EcoLyzr-5	*****	ppm
29	N WV 74'	152.113+/- 12.407	DEGR AZ	58	S GND PAR	-1.398+/- 1.399	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	88.384+/- .357	mph
31	N 74' Temp	83.993+/- 2.065	DEGR F	60	S GND VER	-.037+/- .368	mph
32	N CO2/Byron	*****	ppm	61	N Selar Rad	5.495+/- 1.193	W/m=2
35	N HA 74'	6.801+/- 2.805	mph	64	S VA 55'	.124+/- 1.231	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	7.56+/- 2.33	145.0+/- 14.6	3.1+/- 12.6		
02	17 19 21	6.24+/- 2.00	134.2+/- 19.0	3.1+/- 12.0		
03	38 40 42	3.90+/- 2.00	143.0+/- 22.3	-3.2+/- 9.7		
04	41 43 45	5.22+/- 1.66	120.2+/- 25.8	4+/- 7.7		
05	50 52 54	4.65+/- 2.68	163.1+/- 17.5	-4.1+/- 15.6		
06	56 58 60	2.16+/- 1.62	110.7+/- 41.8	-4.6+/- 23.2		

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 1043 vehicles averaging 56.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	85.9	68	58.4	74	59.9	10	55.4	18	51.5
Cat2	73	89.3	61	60.7	79	60.8	71	58.1	20	47.5
Cat3	4	70.5	19	67.4	0	.0	4	66.9	1	60.5
Cat4	1	70.5	2	59.7	4	54.6	1	66.5	0	.0
Cat5	1	67.4	0	.0	0	.0	1	58.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	53.9	59	52.6	57	51.9	29	48.8	3	43.7
Cat2	55	56.3	89	52.6	53	54.5	31	49.4	17	41.2
Cat3	5	58.7	17	52.9	6	54.6	3	54.9	1	30.4
Cat4	2	60.8	6	55.9	5	59.5	2	56.9	1	31.2
Cat5	1	63.3	2	52.1	0	.0	1	58.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	404	38.7	57.5	548	52.6	60.1	60	5.8	57.3	24	2.3	58.7	6	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.620+/- 2.104	mph	37	N VA 102'	-.539+/- 16.185	mph
12	N Dasibi CO	1.216+/- .408	ppm	38	S BDT PER	2.608+/- 1.672	mph
13	N TOP PAR	-3.806+/- 1.940	mph	39	N VA 74'	-.228+/- 1.317	mph
14	N Dasibi O3	.001+/- .004	ppm	40	S BDT PAR	-2.298+/- 1.508	mph
15	N TOP VER	.495+/- 1.372	mph	41	N GND PER	-2.314+/- 1.706	mph
16	N NOX/TECO	*****	ppm	42	S BDT VER	-1.137+/- 1.745	mph
17	N BDT PER	3.850+/- 2.372	mph	43	N GND PAR	-3.823+/- 1.976	mph
19	N BDT PAR	-3.962+/- 2.058	ppm	45	N GND VER	-.001+/- .511	ppm
20	N NO2/TECO	*****	ppm	49	N EcoLyzr-1	1.22+/- .000	ppm
21	N BDT VER	.330+/- 1.050	mph	50	S TOP PER	3.806+/- 1.880	mph
22	N NO/TECO	*****	ppm	51	N EcoLyzr-2	.585+/- 1.140	ppm
23	N HA 102'	8.598+/- 2.484	mph	52	S TOP PAR	-1.510+/- 1.955	ppm
24	N THC/Byron	*****	ppm	53	N EcoLyzr-3	.915+/- .448	ppm
25	N WV 102'	155.805+/- 12.405	DEGR AZ	54	S TOP VER	-.084+/- 1.295	mph
26	N NMHC/Byro	*****	ppm	55	N EcoLyzr-4	2.976+/- .279	ppm

27	N Gnd Temp	85.660+/- 1.664	DEGR F	56	S GND PER	.985+/- 1.501	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	152.838+/- 14.954	DEGR AZ	58	S GND PAR	-1.186+/- 1.295	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rø1 Hum	84.362+/- .496	%
31	N 74' Temp	85.113+/- 2.747	DEGR F	60	S GND VER	-.172+/- .446	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	4.860+/- 1.148	W/m**2
35	N HA 74'	7.059+/- 2.089	mph	64	S VA 55'	.296+/- 1.469	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	7.12+/-	2.41	146.2+/-	13.3	6.1+/-	12.4
02	17 19 21	5.98+/-	2.46	131.9+/-	22.2	3.7+/-	11.4
03	38 40 42	3.74+/-	1.91	138.5+/-	21.6	-1.7+/-	15.4
04	41 43 45	4.82+/-	1.93	122.9+/-	23.0	-.6+/-	7.5
05	50 52 54	4.34+/-	2.32	181.5+/-	18.6	1.2+/-	20.7
06	56 58 60	1.88+/-	1.74	106.4+/-	40.8	-13.7+/-	20.2

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 4408 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	68.4	275	59.3	318	59.8	56	56.5	77	52.0
Cat2	327	69.7	235	60.7	286	61.1	316	58.5	93	48.8
Cat3	9	72.1	65	68.1	4	60.2	19	61.8	4	51.5
Cat4	4	68.8	12	61.7	11	56.0	6	62.7	2	53.8
Cat5	1	67.4	0	.0	0	.0	2	62.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	290	54.0	234	53.0	222	53.0	133	50.0	17	42.6
Cat2	225	56.2	368	54.0	239	55.7	131	50.1	86	43.5
Cat3	27	57.5	79	55.1	31	55.5	14	55.4	3	32.7
Cat4	13	58.9	31	56.2	19	56.8	8	50.0	1	31.2
Cat5	5	58.3	13	57.0	1	66.3	3	55.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	1715	38.9	58.0	2306	52.3	59.6	255	5.8	57.3	107	2.4	58.3	25	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.806+/- 2.222	mph	37	N VA 102'	-2.263+/- 16.199	mph
12	N Dasibi CO	1.368+/- .405	ppm	38	S BOT PER	2.653+/- 1.692	mph
13	N TOP PAR	-3.605+/- 2.157	mph	39	N VA 74'	-.408+/- 1.283	mph
14	N Dasibi O3	.001+/- .005	ppm	40	S BOT PAR	-2.148+/- 1.612	mph
15	N TOP VER	.444+/- 1.395	mph	41	N GND PER	-2.290+/- 1.884	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.210+/- .737	mph
17	N BOT PER	3.931+/- 2.370	mph	43	N GND PAR	-3.737+/- 1.991	mph
19	N BOT PAR	-3.740+/- 1.984	mph	45	N GND VER	.004+/- .577	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	.050+/- .295	ppm
21	N BOT VER	.284+/- 1.121	mph	50	S TOP PER	3.752+/- 1.933	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.542+/- .155	ppm
23	N HA 102'	8.544+/- 2.374	mph	52	S TOP PAR	-1.357+/- 1.925	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	-.864+/- .423	ppm
25	N WV 102'	157.009+/- 13.122	DEGR AZ	54	S TOP VER	-3.321+/- 1.259	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.802+/- .280	ppm
27	N Gnd Temp	85.276+/- 2.475	DEGR F	56	S GND PER	.915+/- 1.395	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	154.514+/- 15.458	DEGR AZ	58	S GND PAR	-1.280+/- 1.409	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rø1 Hum	82.511+/- 2.570	%
31	N 74' Temp	85.068+/- 2.352	DEGR F	60	S GND VER	-.118+/- .386	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	6.685+/- 2.445	W/m**2
35	N HA 74'	6.954+/- 2.676	mph	64	S VA 55'	.147+/- 1.291	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	7.25+/-	2.44	148.9+/-	16.7	4.3+/-	12.3
02	17 19 21	5.90+/-	2.36	134.7+/-	22.3	3.7+/-	13.3
03	38 40 42	3.71+/-	1.96	141.5+/-	25.4	-3.1+/-	14.6
04	41 43 45	4.84+/-	1.88	122.0+/-	25.5	-.2+/-	7.7
05	50 52 54	4.39+/-	2.40	184.7+/-	17.0	+1.8+/-	18.5
06	56 58 60	1.94+/-	1.89	105.1+/-	41.6	-10.2+/-	20.8

21:23:10 -- BEGIN CALIBRATION OF NCO-3 MH  
 21:29:44 -- END CALIBRATION CH 53 NO-3 MH  
 21:38:20 -- END CALIBRATION OF NCO-2 MWH  
 21:38:33 -- BEGIN CALIBRATION OF NCO-1 MWH  
 21:48:16 -- END CALIBRATION OF NCO-1 MWH  
 21:48:30 -- BEGIN CALIBRATION OF NCO-4 MWH  
 21:58:19 -- END CALIBRATION OF NCO-4

Average for 15 minute period ending at 21:15:00  
 Traffic Data  
 Total Traffic = 1139 vehicles averaging 56.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	66.7	57	58.0	82	58.5	11	56.0	25	49.9
Cat2	67	68.1	84	59.1	76	58.2	78	56.7	21	49.2
Cat3	1	75.1	18	67.3	2	62.1	8	62.5	0	0
Cat4	2	86.5	2	64.6	0	0	0	0	0	0
Cat5	0	0	1	68.1	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	54.0	83	51.3	88	52.8	36	51.0	5	41.8
Cat2	65	55.2	108	52.9	50	54.9	42	51.1	17	40.7
Cat3	6	53.9	20	51.3	5	56.4	0	0	0	0
Cat4	9	58.3	11	53.7	1	68.6	1	44.7	0	0
Cat5	1	62.0	2	57.4	1	51.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	458	40.2	56.3	589	51.7	59.2	61	5.4	57.3	26	2.3	59.2	5	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.375+/-	2.466	37	N VA 102'	-5.704+/-	16.925
12	N Oasibi CD	1.335+/-	.387	38	S BOT PER	3.001+/-	1.504
13	N TOP PAR	-3.175+/-	1.967	39	N VA 74'	-.543+/-	1.138
14	N Oasibi D3	.002+/-	.004	40	S BOT PAR	-2.051+/-	1.476
15	N TOP VER	.424+/-	1.236	41	N GND PER	2.583+/-	1.878
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.352+/-	.798
17	N BOT PER	4.637+/-	2.545	43	N GND PAR	-3.151+/-	1.592
19	N BOT PAR	-3.275+/-	1.801	45	N GND VER	-.072+/-	.497
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.122+/-	.000
21	N BOT VER	.199+/-	1.079	50	S TOP PER	4.171+/-	1.694
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.593+/-	.134
23	N HA 102'	9.138+/-	2.748	52	S TOP PAR	-1.255+/-	1.512
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	-.695+/-	.393
25	N WV 102'	159.281+/-	10.583	54	S TOP VER	-.680+/-	1.242
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.832+/-	.271
27	N Gnd Temp	83.654+/-	2.215	56	S GND PER	.828+/-	1.157
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	157.856+/-	12.130	58	S GND PAR	-1.148+/-	1.271
30	N CD/Byron	*****+/-*****		59	N Rel Hum	84.872+/-	.521
31	N 74' Temp	84.566+/-	1.923	60	S GND VER	-.178+/-	.442
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	5.859+/-	1.604
35	N HA 74'	7.293+/-	3.116	64	S VA 55'	-.175+/-	1.182

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.44+/- 2.82	153.5+/- 14.0	4.0+/- 11.0
02	17 19 21	6.04+/- 2.59	141.7+/- 22.0	3.1+/- 13.7
03	38 40 42	3.88+/- 1.83	146.6+/- 19.0	-3.8+/- 13.6
04	41 43 45	4.44+/- 1.72	123.3+/- 25.0	1.4+/- 6.1
05	50 52 54	4.70+/- 1.89	185.3+/- 14.3	-5.8+/- 16.8
06	56 58 60	1.76+/- 1.47	109.6+/- 40.9	-10.8+/- 19.7

Average for 15 minute period ending at 21:30:00  
 Traffic Data  
 Total Traffic = 1128 vehicles averaging 56.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	65.1	62	58.3	84	58.2	13	56.4	25	50.0
Cat2	95	67.6	70	58.8	71	59.4	78	58.5	20	48.3
Cat3	5	68.6	18	66.2	3	57.4	3	59.7	0	0
Cat4	0	0	8	60.8	4	56.2	0	0	1	43.2
Cat5	0	0	0	0	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	52.7	64	50.3	65	52.5	29	48.5	2	35.8
Cat2	48	53.8	103	52.3	52	54.6	25	49.9	14	44.2
Cat3	12	55.3	18	53.8	9	55.6	1	46.9	1	27.4
Cat4	5	55.8	14	55.2	5	54.6	0	0	0	0
Cat5	3	57.5	2	53.7	1	53.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.3	440	39.0	57.2	577	51.2	58.3	68	6.0	58.2	37	3.3	55.6	6	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.642+/-	1.957	37	N VA 102'	-2.122+/-	18.168
12	N Oasibi CD	1.230+/-	.317	38	S BOT PER	2.842+/-	1.589
13	N TOP PAR	-3.080+/-	1.786	39	N VA 74'	-.476+/-	1.148
14	N Oasibi D3	.002+/-	.005	40	S BOT PAR	-2.019+/-	1.748
15	N TOP VER	.331+/-	1.287	41	N GND PER	2.593+/-	2.294
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.245+/-	.760
17	N BOT PER	3.686+/-	2.109	43	N GND PAR	-3.478+/-	1.972
19	N BOT PAR	-3.377+/-	1.776	45	N GND VER	-.017+/-	.504
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.122+/-	.000
21	N BOT VER	.137+/-	.963	50	S TOP PER	3.892+/-	1.666
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.641+/-	.104
23	N HA 102'	7.900+/-	1.958	52	S TOP PAR	-1.643+/-	1.894
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	158.171+/-	11.427	54	S TOP VER	-.429+/-	1.134
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.937+/-	.268
27	N Gnd Temp	82.325+/-	2.696	56	S GND PER	.726+/-	1.419
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	154.573+/-	14.862	58	S GND PAR	-1.029+/-	.972
30	N CD/Byron	*****+/-*****		59	N Rel Hum	85.800+/-	.312
31	N 74' Temp	83.446+/-	2.650	60	S GND VER	-.135+/-	.400

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	6.76+/- 2.08	151.3+/- 14.8	3.4+/- 11.0
02	17 19 21	5.42+/- 1.99	135.8+/- 23.2	2.4+/- 11.0
03	38 40 42	3.72+/- 1.85	143.3+/- 28.1	-3.5+/- 15.1
04	41 43 45	4.83+/- 2.17	125.4+/- 25.0	-2.2+/- 8.6
05	50 52 54	4.65+/- 2.05	159.9+/- 20.9	-2.7+/- 17.5
06	56 58 60	1.61+/- 1.42	96.2+/- 41.2	-9.6+/- 23.3

Average for 15 minute period ending at 21:45:00  
 Total Traffic = 1025 vehicles averaging 56.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	66.1	66	58.1	72	57.4	18	57.9	16	51.1
Cat2	72	67.0	63	58.7	73	59.0	70	56.7	35	46.5
Cat3	2	75.9	14	68.7	1	50.8	3	62.1	1	44.6
Cat4	3	71.4	4	58.3	3	59.0	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	54.2	63	52.0	45	53.5	23	49.0	5	41.7
Cat2	59	55.8	78	53.2	47	54.4	28	49.6	24	41.4
Cat3	6	54.6	17	54.3	2	57.5	4	49.1	0	.0
Cat4	5	56.5	8	54.7	9	61.6	1	43.7	0	.0
Cat5	1	62.6	2	59.1	0	.0	1	53.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	389	38.0	56.1	549	53.6	59.1	50	4.9	58.9	33	3.2	58.6	4	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.307+/- 2.364	mph	37	N VA 102'	-4.465+/- 15.994	mph
12	N Dasibi CO	1.109+/- .331	ppm	38	S BOT PER	2.670+/- 1.463	mph
13	N TOP PAR	-2.601+/- 2.003	mph	39	N VA 74'	-4.465+/- 1.191	mph
14	N Dasibi O3	.002+/- .005	ppm	40	S BOT PAR	-1.667+/- 1.350	mph
15	N TOP VER	.324+/- 1.235	mph	41	N GND PER	2.170+/- 1.767	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-2.238+/- .828	mph
17	N BOT PER	3.977+/- 2.182	mph	43	N GND PAR	-2.992+/- 1.631	mph
19	N BOT PAR	-2.616+/- 1.650	mph	45	N GND VER	.047+/- .595	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.131+/- 1.080	mph	50	S TOP PER	3.727+/- 1.763	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.758+/- 2.457	mph	52	S TOP PAR	-1.077+/- 1.526	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.733+/- .454	ppm
25	N WV 102'	161.612+/- 11.247	DEGR AZ	54	S TOP VER	-4.412+/- 1.196	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.881+/- .240	ppm
27	N Gnd Temp	84.227+/- 1.970	DEGR F	58	S GND PER	.631+/- 1.019	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	161.364+/- 13.192	DEGR AZ	58	S GND PAR	-9.53+/- 1.223	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	86.598+/- .302	%
31	N 74' Temp	82.794+/- 2.116	DEGR F	60	S GND VER	-1.173+/- .445	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.541+/- 1.563	W/m=2
35	N HA 74'	6.853+/- 2.742	mph	64	S VA 55'	.007+/- 1.284	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	7.21+/- 2.42	157.5+/- 15.6	4.2+/- 11.6
02	17 19 21	5.17+/- 2.11	145.5+/- 22.5	1.1+/- 15.5
03	38 40 42	3.51+/- 1.49	147.5+/- 23.6	-2.5+/- 13.3
04	41 43 45	4.12+/- 1.69	124.9+/- 26.5	2.0+/- 11.0
05	50 52 54	4.22+/- 2.08	165.1+/- 15.1	-1.8+/- 17.6
06	56 58 60	1.49+/- 1.32	106.6+/- 40.1	-12.1+/- 21.6

Average for 15 minute period ending at 22:00:00  
 Total Traffic = 980 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	15	71.8	76	58.3	74	58.8	20	55.6	18	52.1
Cat2	82	69.0	56	59.9	66	59.2	49	58.0	20	48.5
Cat3	5	68.7	12	71.7	1	53.5	4	64.7	0	.0
Cat4	2	61.2	3	80.7	2	54.4	1	56.5	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	54.4	54	52.9	63	52.3	30	49.3	4	35.1
Cat2	39	56.7	82	54.5	56	55.7	22	50.7	10	38.6
Cat3	3	56.5	16	55.5	1	73.2	2	49.0	0	.0
Cat4	2	60.3	6	56.3	2	55.5	1	42.3	1	45.3
Cat5	1	60.2	1	48.4	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	412	42.9	58.2	482	50.2	62.4	44	4.6	56.4	20	2.1	54.3	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.319+/- 1.702	mph	37	N VA 102'	1.019+/- 16.070	mph
12	N Dasibi CO	1.446+/- .320	ppm	38	S BOT PER	1.790+/- 1.243	mph
13	N TOP PAR	-1.628+/- 1.902	mph	39	N VA 74'	-0.10+/- 1.079	mph
14	N Dasibi O3	.001+/- .004	ppm	40	S BOT PAR	-9.938+/- 1.055	mph
15	N TOP VER	.395+/- 1.071	mph	41	N GND PER	1.526+/- 1.328	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-2.239+/- .630	mph
17	N BOT PER	2.631+/- 1.768	mph	43	N GND PAR	-2.257+/- 1.468	mph
19	N BOT PAR	-2.159+/- 1.670	mph	45	N GND VER	.021+/- .417	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	.155+/- .182	ppm
21	N BOT VER	.231+/- .929	mph	50	S TOP PER	2.662+/- 1.418	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.607+/- .138	ppm
23	N HA 102'	6.307+/- 1.902	mph	52	S TOP PAR	-4.490+/- .664	mph

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.883+/-	.502	ppm
25	N WV 102'	157.918+/- 14.310	DEGR AZ	54	S TOP VER	-.369+/-	.891	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	82.430+/- 3.039	DEGR F	56	S GND PER	.293+/-	.736	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	161.816+/- 16.487	DEGR AZ	58	S GND PAR	-.363+/-	.765	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	87.022+/-	.481	%
31	N 74' Temp	84.410+/- 2.040	DEGR F	60	S GND VER	-.9+/-	.256	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.405+/-	1.325	W/m^2
35	N HA 74'	5.043+/- 2.355	mph	64	S VA 55'	.067+/-	.855	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	5.09+/- 1.81	159.8+/- 19.9	6.0+/-	15.2
02	17	19	21	3.82+/- 1.79	139.0+/- 28.1	4.3+/-	14.9
03	38	40	42	2.36+/- 1.26	147.9+/- 32.4	-5.3+/-	17.3
04	41	43	45	3.18+/- 1.18	123.3+/- 31.2	.9+/-	10.0
05	50	52	54	2.92+/- 1.48	168.2+/- 13.4	-6.0+/-	17.9
06	56	58	60	.86+/- .83	85.2+/- 48.7	-20.1+/-	20.9

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 4252 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	67.0	261	58.2	322	58.3	62	56.5	84	50.6
Cat2	316	67.9	253	59.1	286	58.9	275	57.4	96	47.9
Cat3	13	70.2	61	68.2	7	57.2	18	62.5	1	44.6
Cat4	7	87.1	17	60.6	9	56.7	1	56.5	1	43.2
Cat5	0	.0	1	88.1	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	262	53.8	244	51.6	241	52.7	118	49.6	17	39.5
Cat2	212	55.3	372	53.2	205	54.9	117	50.4	85	41.4
Cat3	27	55.0	71	53.6	17	57.1	7	48.8	1	27.4
Cat4	21	57.5	38	54.9	17	59.2	3	43.6	1	45.3
Cat5	6	59.6	7	55.5	2	52.5	1	53.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
55.0	1699	40.0	56.9	2197	51.7	59.5	223	5.2	57.2	116	2.7	57.2	17	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.661+/- 2.290	mph	37	N VA 102'	-2.818+/- 16.972	mph
12	N Dasibi CO	1.280+/- .356	ppm	38	S BOT PER	2.526+/- 1.517	mph
13	N TOP PAR	-2.621+/- 2.007	mph	39	N VA 74'	-.373+/- 1.157	mph
14	N Dasibi D3	.002+/- .004	ppm	40	S BOT PAR	-1.668+/- 1.492	mph
15	N TOP VER	.369+/- 1.203	mph	41	N GND PER	2.213+/- 1.891	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	-.268+/- .758	mph
17	N BOT PER	3.733+/- 2.278	mph	43	N GND PAR	-2.969+/- 1.728	mph
18	N BOT PAR	-2.857+/- 1.789	mph	45	N GND VER	-.032+/- .507	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	.130+/- .089	ppm
21	N BOT VER	.175+/- 1.014	mph	50	S TOP PER	3.613+/- 1.731	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.598+/- .133	ppm
23	N HA 102'	8.026+/- 2.531	mph	52	S TOP PAR	-1.116+/- 1.522	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.710+/- .466	ppm
25	N WV 102'	159.249+/- 12.042	DEGR AZ	54	S TOP VER	-.472+/- 1.128	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.893+/- .261	ppm
27	N Gnd Temp	83.159+/- 2.582	DEGR F	56	S GND PER	-.619+/- 1.124	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	158.898+/- 16.519	DEGR AZ	58	S GND PAR	-.874+/- 1.115	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	86.073+/- .924	%
31	N 74' Temp	83.804+/- 2.265	DEGR F	60	S GND VER	-.148+/- .394	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.745+/- 1.618	W/m^2
35	N HA 74'	6.391+/- 2.794	mph	64	S VA 55'	.017+/- 1.148	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	6.62+/- 2.43	155.5+/- 16.5	4.4+/-	12.3
02	17	19	21	5.14+/- 2.27	140.5+/- 24.2	2.7+/-	13.9
03	38	40	42	3.37+/- 1.72	146.3+/- 26.3	-3.8+/-	14.9
04	41	43	45	4.14+/- 1.83	125.5+/- 27.0	1.0+/-	9.1
05	50	52	54	4.12+/- 2.04	164.6+/- 18.4	-4.1+/-	17.2
06	56	58	60	1.43+/- 1.33	100.4+/- 43.4	-13.2+/-	21.7

22:34:00 -- RADAR #3 GIVING LOW SPEEDS AND AVGS. MIKE HLAVINKA CHECKING. JFH.  
 22:43:25 -- NO APPARENT PROBLEM WITH RADAR. DID TOUCH UP RANGE. JH  
 22:48:53 -- STILL HAVE PROBLEMS WITH RADAR #3. MIKE GDNE TO ADJUST 'CALIBRATE'.  
 22:54:29 -- GIVING IT ANOTHER TRY. JFH  
 22:58:58 -- DISREGARD LAST 5 MIN OF CH3. RADAR WAS LEFT ON CALIBRATE. JFH  
 Average for 15 minute period ending at 22:15:00  
 Traffic Data  
 Total Traffic = 799 vehicles averaging 56.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	17	67.0	28	52.1	58	57.6	12	55.9	12	46.4
Cat2	72	68.5	26	54.1	59	59.2	56	60.0	19	46.5
Cat3	3	65.6	5	63.6	2	53.9	7	59.7	0	.0
Cat4	0	.0	1	53.3	3	55.0	0	.0	1	50.1
Cat5	2	96.2	0	.0	1	****	0	.0	2	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	54.5	52	50.3	47	52.6	25	51.1	3	41.8
Cat2	40	58.6	72	52.5	41	54.7	21	52.7	10	41.1
Cat3	3	56.1	14	53.1	5	50.9	3	52.6	0	.0
Cat4	6	62.0	6	53.4	1	65.1	1	39.2	1	29.0
Cat5	2	****	3	96.0	2	92.5	1	****	1	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.9	307	38.4	57.4	416	52.1	56.3	42	5.3	54.7	20	2.5	****	14	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.087+/- 1.980	mph	37	N VA 102'	-1.017+/- 15.626	mph
12	N Desibi CD	1.224+/- .310	ppm	38	S BDT PER	2.069+/- 1.207	mph
13	N TDP PAR	-1.803+/- 1.621	mph	39	N VA 74'	-.320+/- 1.083	mph
14	N Desibi 03	.002+/- .005	ppm	40	S BDT PAR	-1.095+/- .950	mph
15	N TDP VER	.246+/- 1.048	mph	41	N GND PER	1.820+/- 1.651	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	-.234+/- .631	mph
17	N BDT PER	3.267+/- 2.217	mph	43	N GND PAR	-2.587+/- 1.641	mph
19	N BDT PAR	-2.164+/- 1.728	mph	45	N GND VER	.005+/- .483	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	.120+/- .212	ppm
21	N BDT VER	.187+/- .890	mph	50	S TDP PER	3.137+/- 1.500	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	.510+/- .150	ppm
23	N HA 102'	7.124+/- 2.044	mph	52	S TDP PAR	-.791+/- 1.221	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.955+/- 1.285	ppm
25	N WV 102'	164.973+/- 12.259	DEGR A2	54	S TDP VER	-.507+/- 1.209	ppm
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.893+/- .206	ppm
27	N Gnd Temp	83.185+/- 2.555	DEGR F	56	S GND PER	.579+/- .881	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	163.417+/- 15.534	DEGR A2	58	S GND PAR	-.703+/- .947	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	87.233+/- .272	%
31	N 74' Temp	84.774+/- 2.276	DEGR F	60	S GND VER	-.138+/- .327	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.314+/- 1.415	W/m**2
35	N HA 74'	5.583+/- 2.427	mph	64	S VA 55'	-.121+/- 1.132	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.74+/- 1.90	161.0+/- 18.1	3.2+/- 12.0
02	17 19 21	4.39+/- 2.18	143.0+/- 26.3	1.2+/- 16.4
03	38 40 42	2.80+/- 1.27	151.2+/- 23.6	+4.0+/- 18.4
04	41 43 45	3.51+/- 1.77	124.9+/- 28.3	-.4+/- 9.9
05	50 52 54	3.58+/- 1.77	168.5+/- 13.5	-5.2+/- 20.7
06	56 58 60	1.21+/- 1.18	96.1+/- 44.5	-18.3+/- 22.8

Average for 15 minute period ending at 22:30:00  
 Traffic Data  
 Total Traffic = 821 vehicles averaging 55.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	67.6	8	35.0	63	59.2	12	53.8	17	52.3
Cat2	64	69.7	18	36.8	68	60.7	55	56.1	11	47.2
Cat3	3	65.2	4	34.7	1	62.0	3	63.9	2	54.8
Cat4	0	.0	0	.0	0	.0	1	48.8	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	54.3	56	52.1	63	53.3	26	52.5	4	42.8
Cat2	54	57.3	81	53.0	46	55.1	20	51.7	9	41.6
Cat3	6	58.2	13	55.6	4	59.4	1	48.8	0	.0
Cat4	4	62.2	5	55.1	4	58.2	1	53.5	0	.0
Cat5	3	64.1	1	59.3	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.7	339	41.3	58.8	426	51.9	55.6	37	4.5	57.3	15	1.8	62.9	4	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.232+/- 2.041	mph	37	N VA 102'	-.455+/- 17.729	mph
12	N Desibi CD	1.175+/- .263	ppm	38	S BDT PER	1.858+/- 1.347	mph
13	N TDP PAR	-1.198+/- 1.574	mph	39	N VA 74'	-.231+/- 1.090	mph
14	N Desibi 03	.001+/- .005	ppm	40	S BDT PAR	-.584+/- 1.046	mph
15	N TDP VER	.050+/- 1.028	mph	41	N GND PER	1.607+/- 1.718	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	-.315+/- .757	mph
17	N BDT PER	3.021+/- 2.001	mph	43	N GND PAR	-1.519+/- 1.467	mph
19	N BDT PAR	-1.522+/- 1.818	mph	45	N GND VER	-.043+/- .530	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	.143+/- .085	ppm
21	N BDT VER	.071+/- .875	mph	50	S TDP PER	2.922+/- 1.572	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	.626+/- .179	ppm
23	N HA 102'	6.172+/- 2.187	mph	52	S TDP PAR	-.372+/- .858	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	-.867+/- .452	ppm
25	N WV 102'	169.770+/- 13.780	DEGR A2	54	S TDP VER	-.554+/- .962	ppm
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.828+/- .248	ppm
27	N Gnd Temp	82.899+/- 1.850	DEGR F	56	S GND PER	.131+/- .887	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	168.739+/- 16.663	DEGR A2	58	S GND PAR	-.453+/- 1.018	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	87.528+/- .296	%
31	N 74' Temp	84.097+/- 2.471	DEGR F	60	S GND VER	-.129+/- .181	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.223+/- 1.279	W/m**2
35	N HA 74'	4.543+/- 2.443	mph	64	S VA 55'	-.175+/- .942	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	4.76+/- 2.07	166.2+/- 19.3	3.4+/- 16.5
02	17	19	21	3.92+/- 2.05	154.1+/- 29.8	1.1+/- 18.7
03	38	40	42	2.27+/- 1.52	163.4+/- 28.5	-8.5+/- 16.4
04	41	43	45	2.78+/- 1.58	138.9+/- 38.7	-1.1+/- 16.1
05	50	52	54	3.18+/- 1.77	172.9+/- 14.8	-7.3+/- 19.4
06	56	58	60	.80+/- 1.07	64.9+/- 43.8	-22.5+/- 20.9

Average for 15 minute period ending at 22:45:00  
 Traffic Data  
 Total Traffic = 699 vehicles averaging 56.4 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	17	66.0	****	****	55	59.3	12	55.5	19	50.7
Cat2	55	68.0	****	****	66	60.2	54	58.6	16	48.5
Cat3	4	70.5	****	****	1	66.0	5	58.2	0	.0
Cat4	0	.0	****	****	0	.0	0	.0	0	.0
Cat5	0	.0	****	****	0	.0	0	.0	0	.0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	55.0	53	50.8	38	53.0	22	49.8	5	41.7
Cat2	57	57.1	70	52.8	29	55.1	16	54.5	12	43.5
Cat3	3	61.9	15	53.9	2	55.0	0	.0	0	.0
Cat4	4	59.1	6	57.4	3	57.5	1	56.0	0	.0
Cat5	1	57.6	1	55.7	0	.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.5	278	39.8	57.6	375	53.6	58.1	30	4.3	57.8	14	2.0	56.7	2	.3

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	4.274+/- 1.842	mph	37	N VA 102'	-2.485+/- 14.484	mph						
12	N Dasibi CO	1.412+/- .473	ppm	38	S BOT PER	1.243+/- .956	mph						
13	N TOP PAR	- .709+/- 1.370	mph	39	N VA 74'	-1.111+/- 1.082	mph						
14	N Dasibi O3	.001+/- .003	ppm	40	S BOT PAR	- .474+/- .786	mph						
15	N TOP VER	.171+/- 1.048	mph	41	N GND PER	1.484+/- 1.503	mph						
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	- .207+/- .647	mph						
17	N BOT PER	3.074+/- 1.739	mph	43	N GND PAR	-1.438+/- 1.337	mph						
19	N BOT PAR	- .956+/- 1.333	mph	45	N GND VER	.031+/- .391	mph						
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	.138+/- .069	ppm						
21	N BOT VER	.049+/- .932	mph	50	S TOP PER	2.352+/- 1.318	mph						
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.699+/- .170	ppm						
23	N HA 102'	5.542+/- 1.926	mph	52	S TOP PAR	- .290+/- .564	mph						
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.998+/- .487	ppm						
25	N WV 102'	168.473+/- 15.248	DEGR AZ	54	S TOP VER	- .321+/- .863	mph						
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.893+/- .251	ppm						
27	N Gnd Temp	82.195+/- 3.157	DEGR F	56	S GND PER	.131+/- .600	mph						
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm						
29	N WV 74'	170.084+/- 16.012	DEGR AZ	58	S GND PAR	- .356+/- .677	mph						
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	87.706+/- .164	%						
31	N 74' Temp	82.951+/- 1.868	DEGR F	60	S GND VER	- .130+/- .123	mph						
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.495+/- .833	W/m**2						
35	N HA 74'	4.532+/- 2.130	mph	64	S VA 55'	.107+/- .849	mph						

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	4.62+/- 1.86	170.2+/- 16.7	2.7+/- 15.8
02	17	19	21	3.83+/- 1.61	161.8+/- 30.6	1.4+/- 19.4
03	38	40	42	1.62+/- 1.04	159.7+/- 34.8	-8.3+/- 19.8
04	41	43	45	2.58+/- 1.34	135.2+/- 35.6	3.1+/- 15.0
05	50	52	54	2.57+/- 1.44	171.4+/- 17.0	-4.3+/- 18.4
06	56	58	60	.68+/- .75	86.5+/- 43.1	-25.6+/- 19.4

Average for 15 minute period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 694 vehicles averaging 56.8 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	19	67.5	****	****	68	58.4	7	56.5	14	50.1
Cat2	53	69.3	****	****	61	59.6	62	57.7	12	48.7
Cat3	3	63.1	****	****	0	.0	4	58.0	1	49.1
Cat4	0	.0	****	****	0	.0	2	57.2	0	.0
Cat5	0	.0	****	****	0	.0	0	.0	0	.0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	65.4	59	52.3	42	52.7	22	51.4	4	43.8
Cat2	49	58.8	89	53.3	35	55.3	17	53.0	9	42.9
Cat3	2	58.5	17	57.0	2	60.9	0	.0	0	.0
Cat4	4	81.1	4	57.3	2	56.0	0	.0	0	.0
Cat5	1	81.6	2	57.3	0	.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	283	40.8	57.8	367	52.9	57.7	29	4.2	58.3	12	1.7	58.7	3	.4

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	2.807+/- 1.725	mph	37	N VA 102'	-4.084+/- 12.286	mph						
12	N Dasibi CO	1.148+/- .247	ppm	38	S BOT PER	- .568+/- .724	mph						
13	N TOP PAR	- .506+/- .843	mph	39	N VA 74'	-1.127+/- .725	mph						
14	N Dasibi O3	.002+/- .005	ppm	40	S BOT PAR	- .232+/- .430	mph						
15	N TOP VER	.118+/- .835	mph	41	N GND PER	1.137+/- 1.384	mph						
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	- .126+/- .322	mph						
17	N BOT PER	1.845+/- 1.560	mph	43	N GND PAR	- .959+/- 1.074	mph						
19	N BOT PAR	- .565+/- .985	mph	45	N GND VER	.018+/- .286	mph						
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	.144+/- .066	ppm						
21	N BOT VER	.001+/- .674	mph	50	S TOP PER	1.506+/- 1.048	mph						
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.819+/- .211	ppm						
23	N HA 102'	4.218+/- 1.646	mph	52	S TOP PAR	- .203+/- .203	mph						
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.979+/- .438	ppm						
25	N WV 102'	172.815+/- 14.171	DEGR AZ	54	S TOP VER	- .168+/- .546	mph						

26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.939+/-	.229	ppm
27	N Gnd Temp	82.247+/- 2.680	DEGR F	56	S GND PER	-.102+/-	.133	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	174.021+/- 17.172	DEGR AZ	58	S GND PAR	-.120+/-	.056	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	87.934+/-	.679	%
31	N 74' Temp	81.882+/- 1.802	DEGR F	60	S GND VER	-.123+/-	.060	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.359+/-	1.258	W/m**2
35	N HA 74'	3.319+/- 2.138	mph	64	S VA 55'	-.065+/-	.546	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.14+/- 1.69	170.9+/- 21.2	4.5+/- 20.3		
02	17 19 21	2.39+/- 1.49	164.5+/- 35.9	6.0+/- 21.9		
03	38 40 42	.84+/- .74	142.2+/- 44.8	-14.8+/- 25.7		
04	41 43 45	1.98+/- 1.19	139.7+/- 40.8	1.2+/- 12.6		
05	50 52 54	1.65+/- .99	166.1+/- 27.1	-4.2+/- 22.2		
06	56 58 60	.23+/- .10	47.1+/- 22.1	-34.4+/- 14.3		

Average for hourly period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 2923 vehicles averaging 56.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	57.1	****	****	242	58.6	43	55.3	82	50.2
Cat2	244	68.8	****	****	254	59.9	227	58.1	58	47.6
Cat3	13	66.4	****	****	4	59.0	19	59.6	3	52.9
Cat4	0	.0	****	****	3	55.0	3	54.4	1	50.1
Cat5	2	96.2	****	****	1	****	0	.0	2	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	226	54.7	220	51.4	191	52.9	95	51.2	16	42.5
Cat2	200	57.4	292	52.9	151	55.0	74	52.9	40	42.4
Cat3	14	58.3	59	55.0	13	55.7	4	51.7	0	.0
Cat4	18	61.2	21	55.7	10	58.2	3	49.6	1	29.0
Cat5	7	77.2	7	73.9	2	92.5	1	****	1	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.8	1171	40.1	57.7	1540	52.7	57.2	129	4.4	56.8	60	2.1	86.2	23	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.100+/- 2.064	mph	37	N VA 102'	-2.013+/- 15.190	mph
12	N Dasibi CD	1.240+/- .350	ppm	38	S BDT PER	1.439+/- 1.232	mph
13	N TDP PAR	-1.054+/- 1.484	mph	39	N VA 74'	-.197+/- 1.008	mph
14	N Dasibi O3	.001+/- .005	ppm	40	S BDT PAR	-.599+/- .891	mph
15	N TOP VER	.146+/- .994	mph	41	N GND PER	1.512+/- 1.582	mph
16	N ND1/TECD	*****+/-*****	ppm	42	S BDT VER	-.221+/- .629	mph
17	N BDT PER	2.827+/- 1.957	mph	43	N GND PAR	-1.621+/- 1.508	mph
19	N BDT PAR	-1.302+/- 1.614	mph	45	N GND VER	-.003+/- .433	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	-.136+/- .124	ppm
21	N BDT VER	.076+/- .876	mph	50	S TOP PER	2.480+/- 1.507	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	-.664+/- .211	ppm
23	N HA 102'	5.784+/- 2.220	mph	52	S TDP PAR	-.414+/- .832	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	-.950+/- .757	ppm
25	N WV 102'	169.001+/- 14.144	DEGR AZ	54	S TOP VER	-.367+/- .937	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.889+/- .237	ppm
27	N Gnd Temp	82.632+/- 2.622	DEGR F	56	S GND PER	.190+/- .714	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	169.055+/- 16.722	DEGR AZ	58	S GND PAR	-.408+/- .798	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	87.600+/- .472	%
31	N 74' Temp	83.426+/- 2.349	DEGR F	60	S GND VER	-.130+/- .199	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.348+/- 1.189	W/m**2
35	N HA 74'	4.494+/- 2.417	mph	64	S VA 55'	-.064+/- .897	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.57+/- 2.09	167.1+/- 19.2	3.4+/- 16.3		
02	17 19 21	3.58+/- 1.99	155.5+/- 31.6	2.4+/- 19.5		
03	38 40 42	1.84+/- 1.35	154.9+/- 34.9	-8.9+/- 20.6		
04	41 43 45	2.71+/- 1.58	134.2+/- 36.5	1.0+/- 13.6		
05	50 52 54	2.75+/- 1.69	169.8+/- 19.1	-5.3+/- 20.2		
06	56 58 60	.73+/- .94	66.2+/- 41.8	-25.2+/- 20.4		



23:03:28 -- GIVING #3 ANOTHER TRY. JFH  
 23:43:24 -- ABOUT TO END THIS FIRST DATA FILE ALL RADARS WILL BE THOROUGHLY ADJUSTED IN THE  
 23:44:07 -- MORNING BEFORE THE BEGINNING OF A NEW FILE.  
 23:44:29 -- THIS IS THE LAST BLOCK OF THE FILE.

Average for 15 minute period ending at 23:15:00  
 Traffic Data  
 Total Traffic = 604 vehicles averaging 56.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	10	58.3	6	62.1	48	56.9	7	54.2	15	49.3
Cat2	30	60.3	70	58.6	46	57.9	33	57.5	12	48.7
Cat3	0	.0	13	62.3	1	56.8	2	55.1	0	.0
Cat4	0	.0	2	61.0	1	51.7	1	42.4	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	56.6	36	52.7	34	53.7	20	51.0	1	47.6
Cat2	29	56.2	54	55.8	34	56.0	18	51.6	10	44.8
Cat3	1	57.0	10	57.5	4	61.1	0	.0	0	.0
Cat4	2	57.1	9	53.7	1	57.7	0	.0	0	.0
Cat5	1	63.6	1	57.5	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.7	219	36.3	56.5	336	55.6	59.8	31	5.1	54.5	16	2.6	60.5	2	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	-.607+/-	14.003
12	N Dasibi CD	1.107+/- .377	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	-.099+/-	.743
14	N Dasibi D3	.001+/- .004	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	.225+/- .613	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.182+/-	.608
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	-.082+/-	.366
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.145+/-	.067
21	N BOT VER	-.003+/- .692	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.793+/-	.137
23	N HA 102'	4.682+/- 1.612	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.941+/-	.404
25	N WV 102'	180.470+/- 14.344	DEGR AZ	54	S TOP VER	-.276+/-	.575
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.851+/-	.242
27	N Gnd Temp	82.195+/- 2.544	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	182.265+/- 17.850	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	88.952+/-	.263
31	N 74' Temp	83.263+/- 2.150	DEGR F	60	S GND VER	-.120+/-	.111
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.588+/-	1.240
35	N HA 74'	3.374+/- 2.057	mph	64	S VA 55'	-.028+/-	.665

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.28+/- 1.53	179.0+/- 20.8	8.0+/- 18.8
02	17 19 21	2.17+/- 1.30	176.3+/- 36.2	.9+/- 24.6
03	38 40 42	1.27+/- .85	167.9+/- 38.3	-7.4+/- 22.3
04	41 43 45	1.75+/- 1.06	155.7+/- 42.2	-3.1+/- 15.6
05	50 52 54	2.07+/- 1.08	171.2+/- 18.9	-5.4+/- 16.0
06	56 58 60	.45+/- .62	50.6+/- 41.0	-26.7+/- 17.0

Average for 15 minute period ending at 23:30:00  
 Traffic Data  
 Total Traffic = 635 vehicles averaging 56.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	14	58.8	15	58.9	42	58.2	3	54.2	13	50.8
Cat2	34	58.6	84	58.4	51	58.0	40	57.1	27	48.5
Cat3	1	51.5	10	65.1	0	.0	2	65.8	1	33.1
Cat4	0	.0	2	56.2	0	.0	1	53.3	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	56.8	40	52.5	33	54.1	18	50.8	4	41.7
Cat2	35	57.7	56	55.0	24	54.9	10	54.9	5	43.8
Cat3	2	61.1	9	55.1	6	54.8	3	52.3	0	.0
Cat4	3	61.6	6	55.8	1	50.2	0	.0	0	.0
Cat5	0	.0	2	50.6	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.0	220	34.6	58.4	388	57.8	58.0	34	5.4	56.6	13	2.0	50.6	2	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	-2.501+/-	14.155
12	N Dasibi CD	1.065+/- .326	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	-.168+/-	.676
14	N Dasibi D3	.001+/- .004	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	.038+/- .620	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.154+/-	.322
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	-.011+/-	.255
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.131+/-	.039
21	N BOT VER	-.124+/- .644	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.813+/-	.119
23	N HA 102'	4.828+/- 1.400	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.007+/-	.438
25	N WV 102'	184.952+/- 11.624	DEGR AZ	54	S TOP VER	-.265+/-	.407
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.812+/-	.246
27	N Gnd Temp	81.482+/- 2.062	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	188.036+/- 12.458	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	89.529+/-	.303
31	N 74' Temp	81.778+/- 2.297	DEGR F	60	S GND VER	-.123+/-	.055
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.268+/-	1.045
35	N HA 74'	3.762+/- 1.731	mph	64	S VA 55'	-.025+/-	.500

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11	13	15	3.14+/- 1.20	190.7+/- 17.9	2.3+/- 13.0
02	17	19	21	2.01+/- 1.03	187.2+/- 34.1	-4.3+/- 25.5
03	38	40	42	1.04+/- .80	164.1+/- 38.5	-10.4+/- 24.1
04	41	43	45	1.04+/- .83	150.8+/- 49.5	.7+/- 23.2
05	50	52	54	1.85+/- .95	171.1+/- 16.8	-7.0+/- 15.2
06	56	58	60	.29+/- .31	48.4+/- 24.5	-31.3+/- 15.8

Average for 15 minute period ending at 23:45:00  
 Traffic Data  
 Total Traffic = 545 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	7	63.9	11	59.8	34	58.1	6	56.4	10	50.6
Cat2	24	64.8	81	59.9	41	57.0	34	58.1	11	46.5
Cat3	0	.0	10	65.0	0	.0	1	64.6	0	.0
Cat4	0	.0	4	66.6	5	54.6	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	55.0	36	52.5	27	52.8	18	49.0	4	46.0
Cat2	26	56.0	54	52.9	26	57.1	10	52.4	8	43.6
Cat3	4	67.2	6	55.4	2	56.3	0	.0	1	35.0
Cat4	3	58.6	3	58.2	3	56.8	0	.0	0	.0
Cat5	1	68.5	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.4	187	34.3	56.8	315	57.8	61.0	24	4.4	58.9	18	3.3	68.5	1	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	-.052+/- 13.498	mph
12	N Dasibi CO	1.004+/- .249	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	-.248+/- .774	mph
14	N Dasibi O3	.002+/- .004	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	-.055+/- .859	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-.232+/- .475	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	44	N GND VER	-.088+/- .466	mph
19	N NO2/TECO	*****+/-*****	ppm	45	N GND VER	-.088+/- .466	mph
20	N BOT VER	-.134+/- .673	mph	49	N Ecolyzer-1	.153+/- .075	ppm
21	N ND/TECO	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	mph
22	N HA 102'	5.640+/- 1.463	ppm	51	N Ecolyzer-2	.927+/- .124	ppm
23	N TMC/Byron	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	mph
24	N WV 102'	182.172+/- 11.752	DEGR AZ	53	N Ecolyzer-3	-.974+/- .416	ppm
25	N NMHC/Byro	*****+/-*****	ppm	54	S TOP VER	-.396+/- .655	mph
26	N Gnd Temp	80.371+/- 1.461	DEGR F	55	N Ecolyzer-4	2.851+/- .239	ppm
27	N CH4/Byron	*****+/-*****	ppm	56	S GND PER	*****+/-*****	mph
28	N WV 74'	180.770+/- 14.792	DEGR AZ	57	N Ecolyzer-5	*****+/-*****	ppm
29	N CO/Byron	*****+/-*****	ppm	58	S GND PAR	*****+/-*****	mph
30	N 74' Temp	81.544+/- 1.922	DEGR F	59	N Rel HUM	89.806+/- .158	%
31	N CO2/Byron	*****+/-*****	ppm	60	S GND VER	-.119+/- .054	mph
32	N HA 74'	3.892+/- 1.690	mph	61	N Solar Rad	6.301+/- .969	W/m^2
35				64	S VA 55'	-.098+/- .690	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11	13	15	3.55+/- 1.34	184.7+/- 16.3	1.5+/- 18.0
02	17	19	21	2.63+/- 1.21	185.8+/- 30.5	-4.2+/- 22.5
03	38	40	42	1.19+/- .81	161.9+/- 40.2	-11.3+/- 23.2
04	41	43	45	1.62+/- .81	154.2+/- 43.8	-4.9+/- 21.3
05	50	52	54	2.05+/- 1.13	171.4+/- 22.3	-7.3+/- 21.1
06	56	58	60	.29+/- .23	49.1+/- 27.9	-30.9+/- 15.5

Average for 15 minute period ending at 24:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	44	N GND VER	*****+/-*****	mph
19	N NO2/TECO	*****+/-*****	ppm	45	N GND VER	*****+/-*****	mph
20	N BOT VER	*****+/-*****	mph	49	N Ecolyzer-1	*****+/-*****	ppm
21	N ND/TECO	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	mph
22	N HA 102'	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N TMC/Byron	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	mph
24	N WV 102'	*****+/-*****	DEGR AZ	54	N Ecolyzer-3	*****+/-*****	ppm
25	N NMHC/Byro	*****+/-*****	ppm	55	S TOP VER	*****+/-*****	mph
26					N Ecolyzer-4	*****+/-*****	ppm

27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	21.95+/-	65.82	-2.4+/-	1.1	183.6+/-
02	17 19 21	11.38+/-	19.87	-1.7+/-	2.1	34.7+/-
03	38 40 42	8.86+/-	22.51	.9+/-	3.6	-59.8+/-
04	41 43 45	4.92+/-	4.84	-2+/-	3.5	24.7+/-
05	50 52 54	15.82+/-	41.35	1.0+/-	.2	*****+/-
06	56 58 60	3.56+/-	2.27	1.0+/-	5.8	*****+/-

Average for hourly period ending at 24:00:00  
 Traffic Data  
 Total Traffic = 1523 vehicles averaging 55.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	59.8	****	****	128	57.7	16	55.0	40	50.1
Cat2	90	61.0	****	****	143	57.6	110	57.5	50	48.1
Cat3	1	51.6	****	****	1	56.9	5	61.3	1	33.1
Cat4	2	63.1	****	****	6	54.1	2	47.9	0	.0
Cat5	0	.0	****	****	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	115	56.1	120	52.4	96	53.6	57	50.2	9	48.3
Cat2	96	56.9	171	54.5	85	56.1	39	52.8	23	44.2
Cat3	7	64.0	27	56.0	12	57.2	3	52.3	1	35.0
Cat4	6	59.4	18	55.2	5	55.6	0	.0	0	.0
Cat5	2	66.0	3	52.9	0	.0	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
54.4	612	40.2	55.9	807	53.0	56.6	58	3.8	55.9	41	2.7	58.2	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	-1.249+/-	13.885
12	N Dasibi CD	1.059+/- .320	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	-.151+/-	.742
14	N Dasibi O3	.001+/- .004	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	.089+/- .805	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	-.191+/-	.413
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	-.058+/-	.371
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	.146+/-	.067
21	N BOT VER	-.074+/-	.686	50	S TOP PER	*****+/-*****	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.850+/-	.144
23	N HA 102'	5.029+/-	1.533	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.978+/-	.419
25	N WV 102'	182.628+/-	12.717	54	S TOP VER	-.317+/-	.580
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.838+/-	.243
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	183.978+/-	15.549	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	-.121+/-	.077
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	3.663+/-	1.823	64	S VA 55'	-.054+/-	.621

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.34+/-	1.37	185.2+/-	18.9	4.5+/-
02	17 19 21	2.25+/-	1.21	183.6+/-	33.8	-2.3+/-
03	38 40 42	1.17+/-	.78	164.6+/-	39.2	-9.6+/-
04	41 43 45	1.45+/-	.96	154.1+/-	45.9	-2.3+/-
05	50 52 54	1.99+/-	1.06	171.3+/-	19.1	-7.0+/-
06	56 58 60	.35+/-	.42	48.8+/-	33.4	-29.5+/-

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	19:00:00	655 vehicles
02	19:00:00	744 vehicles
03	19:00:00	794 vehicles
04	19:00:00	1015 vehicles
05	19:00:00	809 vehicles
06	19:00:00	788 vehicles
07	19:00:00	570 vehicles
08	19:00:00	420 vehicles
09	20:00:00	230 vehicles
10	19:00:00	218 vehicles
11	19:00:00	7.584 mph
12	19:00:00	1.558 ppm
13	00:00:00	.000 ppm
14	19:00:00	.004 ppm
15	21:00:00	.444 mph
16	00:00:00	.000 ppm
17	19:00:00	5.717 mph
18	00:00:00	.000 mph
20	00:00:00	.000 ppm
21	21:00:00	.284 mph
22	00:00:00	.000 ppm
23	19:00:00	11.497 mph
24	00:00:00	.000 ppm
25	24:00:00	182.828 DEGR AZ
26	00:00:00	.000 ppm
27	19:00:00	90.959 DEGR F
28	00:00:00	.000 ppm
29	24:00:00	183.978 DEGR AZ
30	00:00:00	.000 ppm
31	19:00:00	89.857 DEGR F
32	00:00:00	.000 ppm
35	19:00:00	9.190 mph
37	00:00:00	.000 mph
38	19:00:00	3.180 mph
39	00:00:00	.000 mph
40	00:00:00	.000 mph
41	20:00:00	2.824 mph
42	00:00:00	.000 mph
43	00:00:00	.000 mph
45	22:00:00	.032 mph
49	19:00:00	.871 ppm
50	19:00:00	5.022 mph
51	24:00:00	.850 ppm
52	00:00:00	.000 mph
53	24:00:00	.978 ppm
54	00:00:00	.000 mph
55	19:00:00	3.434 ppm
56	19:00:00	1.237 mph
57	00:00:00	.000 ppm
58	00:00:00	.000 mph
59	23:00:00	87.800 %
60	00:00:00	.000 ppm
61	19:00:00	197.762 W/m*2
64	20:00:00	.189 mph

NOTE: All times in the maximums are ending times for the interval

Data for Aug. 23, 1984  
 15:29:53 -- Data run of 08/23/84 afternoon. Will bring AEDAS online as run progresses. Opera  
 15:29:54 -- tors are Joe Kerpics and Michael Hlavinka. Day is sunny and hot with cloud cover  
 15:29:55 -- @ 1/5. Ozone monitor in MEL-2 down temporarily. Rush hour to begin very shortly  
 15:29:56 -- No sign off possible precipitation.  
 15:38:16 -- OZONE IN MEL 2 NOW BEING TURNED ON. JJK  
 15:47:51 -- Disregard all previous MEL-2 ozone readings. MWH  
 15:48:05 -- Now turning off CH 14.  
 15:57:41 -- MEL-2 ozone is now back on line.  
 15:58:02 -- Mel-2 ozone is now back online. MWH

Average for 15 minute period ending at 15:15:00  
 Average for 15 minute period ending at 15:30:00  
 Average for 15 minute period ending at 15:45:00

Traffic Data  
 Total Traffic = 2477 vehicles averaging 60.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	61.1	52	56.7	37	59.8	1	65.6	15	46.5
Cat2	151	63.8	219	58.4	192	60.4	122	70.0	85	48.2
Cat3	15	66.8	30	61.4	39	62.9	54	70.2	10	50.8
Cat4	15	68.2	15	62.5	25	60.1	11	71.5	15	49.6
Cat5	7	69.7	8	64.7	6	62.7	10	73.1	1	45.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	59.2	8	55.1	36	59.8	32	57.6	24	47.5
Cat2	151	61.3	152	58.0	233	60.3	164	58.8	55	49.3
Cat3	13	61.5	64	60.0	44	60.5	28	56.6	6	49.2
Cat4	19	65.6	41	61.3	23	62.1	10	61.2	3	49.9
Cat5	12	65.7	67	62.4	30	64.5	4	63.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	328	13.2	59.9	1524	61.5	62.0	303	12.2	61.8	177	7.1	64.3	145	5.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.240+/- 1.564	mph	37	N VA 102'	*****+/-*****	mph
12	N DesiB1 CD	1.881+/- 1.760	ppm	38	S BDT PER	1.191+/- 1.420	mph
13	N TDP PAR	1.900+/- 2.359	ppm	39	N VA 74'	-.058+/- 1.232	mph
14	N DesiB1 D3	*****+/-*****	ppm	40	S BDT PAR	1.150+/- 1.204	mph
15	N TDP VER	.339+/- 1.310	mph	41	N GND PER	-.724+/- 1.431	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	-.325+/- 1.788	mph
17	N BDT PER	1.867+/- 1.582	mph	43	N GND PAR	-.644+/- 1.948	mph
19	N BDT PAR	1.657+/- 2.186	mph	45	N GND VER	-.015+/- 1.739	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.309+/- .741	ppm
21	N BDT VER	.177+/- 1.107	mph	50	S TDP PER	1.896+/- 1.597	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.168+/- .716	ppm
23	N HA 102'	4.199+/- 2.217	mph	52	S TDP PAR	-.177+/- .909	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.635+/- .771	ppm
25	N WV 102'	213.757+/- 29.858	DEGR AZ	54	S TDP VER	-.491+/- .866	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.791+/- 1.126	ppm
27	N Gnd Temp	100.094+/- 2.802	DEGR F	56	S GND PER	-.025+/- .423	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	210.442+/- 31.235	DEGR AZ	58	S GND PAR	-.267+/- .977	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	54.535+/- .541	%
31	N 74' Temp	96.499+/- 2.233	DEGR F	60	S GND VER	-.174+/- .407	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	834.386+/- 161.059	W/m <sup>2</sup>
35	N HA 74'	3.015+/- 3.038	mph	64	S VA 55'	-.532+/- .885	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.93+/- 1.70	211.0+/- 38.3	4.9+/- 23.6
02	17 19 21	3.45+/- 1.65	210.4+/- 42.0	2.5+/- 26.4
03	38 40 42	2.29+/- 1.32	216.3+/- 43.2	-9.0+/- 25.1
04	41 43 45	2.35+/- 1.37	215.5+/- 54.6	-1.5+/- 24.8
05	50 52 54	2.48+/- 1.31	179.5+/- 33.6	-14.3+/- 25.3
06	56 58 60	.77+/- .87	22.6+/- 53.5	-20.3+/- 24.7

Average for 15 minute period ending at 16:00:00

Traffic Data  
 Total Traffic = 2389 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	62.2	48	55.9	33	58.7	1	54.4	19	46.8
Cat2	133	63.9	198	58.6	183	61.2	107	68.8	90	48.4
Cat3	29	63.8	29	61.9	32	62.5	52	70.5	15	51.0
Cat4	19	67.3	14	65.1	22	62.6	15	71.5	12	50.1
Cat5	8	68.9	4	66.6	8	64.3	17	71.1	4	44.8

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.6	6	54.5	25	60.4	28	54.6	42	48.6
Cat2	146	60.8	147	58.3	179	59.8	143	58.2	60	48.2
Cat3	28	61.2	60	58.9	46	61.4	25	57.7	2	44.3
Cat4	28	65.9	45	60.6	37	62.6	12	54.4	7	48.7
Cat5	16	63.5	67	62.6	38	63.6	8	55.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	304	12.7	59.4	1386	58.0	61.9	318	13.3	62.2	211	8.8	63.5	170	7.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.644+/- 1.602	mph	37	N VA 102'	*****+/-*****	mph
12	N DesiB1 CD	2.014+/- 1.140	ppm	38	S BDT PER	.963+/- 1.538	mph
13	N TDP PAR	3.173+/- 3.458	ppm	39	N VA 74'	-.161+/- .956	mph
14	N DesiB1 D3	*****+/-*****	ppm	40	S BDT PAR	.818+/- 1.563	mph
15	N TDP VER	.320+/- 1.067	mph	41	N GND PER	-.072+/- 1.955	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	-.263+/- .863	mph
17	N ND/TECO	1.083+/- 1.273	ppm	43	N GND PAR	1.403+/- 3.006	mph
19	N BDT PAR	2.759+/- 3.515	mph	45	N GND VER	-.008+/- .644	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.483+/- .740	ppm
21	N BDT VER	.258+/- 1.188	mph	50	S TDP PER	1.377+/- 1.788	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.286+/- .850	ppm
23	N HA 102'	4.650+/- 2.717	mph	52	S TDP PAR	-.333+/- 1.707	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.978+/- .821	ppm
25	N WV 102'	237.103+/- 27.179	DEGR AZ	54	S TDP VER	-.468+/- .688	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.789+/- .156	ppm

27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	-.178+/-	.822	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	239.594+/- 28.920	DEGR AZ	58	S GND PAR	.016+/-	1.096	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****		%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	-.135+/-	.248	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****		W/m**2
35	N HA 74'	3.763+/- 4.218	mph	64	S VA 55'	-.375+/-	.809	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	4.04+/- 3.18	247.0+/- 34.5	7.0+/- 18.5	
02	17	19	21	3.95+/- 2.94	232.0+/- 41.4	4.0+/- 28.9	
03	38	40	42	2.16+/- 1.50	196.7+/- 44.6	-10.8+/- 28.2	
04	41	43	45	3.17+/- 2.26	262.0+/- 55.4	1.7+/- 18.1	
05	50	52	54	2.40+/- 1.73	176.6+/- 42.8	-17.6+/- 27.7	
06	56	58	60	.66+/- 1.23	42.0+/- 41.5	-26.6+/- 23.0	

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N TMC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****	
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****	
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****	
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****	
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****	
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****	

16:13:16 -- MIKE IS TURNING ON THE EQUIPMENT IN THE AEDAS. MIKE TURNED ON THE AEDAS AT ABOUT  
 16:14:28 -- 16:10. INSTRUMENTS TURNED ON WERE ECOLYZERS, WIND INST., AND DASIBI CO.  
 16:28:18 -- Scratch AEDAS up. Not yet.

Average for 15 minute period ending at 16:15:00  
Traffic Data  
 Total Traffic = 2538 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	62.7	45	55.5	30	60.7	3	56.6	17	46.8
Cat2	132	63.3	236	58.7	186	60.8	117	68.6	107	47.9
Cat3	20	64.9	31	61.9	48	62.2	53	70.2	15	48.1
Cat4	13	68.0	19	61.8	15	64.0	10	67.7	9	48.5
Cat5	11	69.9	5	63.4	10	63.3	10	67.6	4	53.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	58.4	6	54.2	23	59.6	37	55.1	40	48.0
Cat2	148	60.1	129	57.9	207	59.3	187	55.9	66	49.1
Cat3	20	59.6	71	59.3	49	60.4	40	57.3	3	48.3
Cat4	22	63.4	49	60.8	44	61.3	14	58.3	2	52.1
Cat5	13	66.3	79	61.4	41	62.7	6	56.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.4	317	12.5	58.8	1495	58.9	61.3	350	13.8	61.5	197	7.8	62.7	179	7.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	- .165+/-	2.563	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CO	1.389+/-	1.058	38	S BOT PER	-.896+/-	1.857	mph
13	N TOP PAR	2.442+/-	1.608	39	N VA 74'	-.298+/-	1.204	mph
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	2.452+/-	1.527	mph
15	N TOP VER	-.007+/-	1.312	41	N GND PER	-.196+/-	2.084	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.227+/-	.841	mph
17	N BOT PER	.567+/-	1.954	43	N GND PAR	1.312+/-	1.998	mph
19	N BOT PAR	2.151+/-	1.605	45	N GND VER	-.052+/-	.634	mph
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	.977+/-	.467	ppm
21	N BOT VER	.023+/-	1.179	50	S TOP PER	-.811+/-	2.043	mph
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.746+/-	.578	ppm
23	N HA 102'	4.258+/-	1.466	52	S TOP PAR	.637+/-	1.873	mph
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.521+/-	.748	ppm
25	N WV 102'	275.278+/-	40.078	54	S TOP VER	.386+/-	.953	mph
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.755+/-	.205	ppm
27	N Gnd Temp	98.844+/-	2.421	56	S GND PER	-.313+/-	.783	mph
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	271.853+/-	35.811	58	S GND PAR	1.082+/-	1.425	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	54.991+/-	.478	%
31	N 74' Temp	95.317+/-	2.660	60	S GND VER	-.068+/-	.395	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	687.483+/-	182.952	W/m^2
35	N HA 74'	4.228+/-	2.982	64	S VA 55'	.343+/-	1.228	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.88+/- 1.36	277.0+/- 42.4	1.0+/- 27.2
02	17 19 21	3.32+/- 1.26	260.6+/- 41.8	1.5+/- 27.6
03	38 40 42	3.24+/- 1.66	282.4+/- 34.7	4.9+/- 19.8
04	41 43 45	2.82+/- 1.57	279.2+/- 51.5	-1.5+/- 14.9
05	50 52 54	2.56+/- 1.77	353.8+/- 55.5	9.0+/- 34.8
06	56 58 60	1.35+/- 1.49	314.8+/- 49.3	-9.9+/- 29.6

Average for 15 minute period ending at 16:30:00  
Traffic Data  
 Total Traffic = 2549 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	60.9	44	58.2	46	60.4	4	56.7	28	48.1
Cat2	165	62.3	250	57.9	204	61.0	126	69.1	75	48.2
Cat3	38	63.4	38	60.1	49	61.6	64	71.3	13	48.7
Cat4	22	65.0	23	62.8	19	61.2	12	69.5	7	51.5
Cat5	8	69.3	7	60.8	4	68.6	18	70.2	2	51.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	59.7	10	53.7	30	61.0	29	56.0	42	49.0
Cat2	110	60.2	159	58.4	188	60.9	153	56.5	49	50.0
Cat3	19	62.1	68	59.8	57	60.1	32	58.3	5	48.5
Cat4	28	64.0	40	61.7	25	62.8	17	57.6	4	47.1
Cat5	12	63.8	57	61.6	28	63.9	3	57.7	1	42.8

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.8	350	13.7	59.5	1479	58.0	61.8	383	15.0	62.1	197	7.7	63.6	140	5.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	3.990+/-	2.205	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CO	2.610+/-	.952	38	S BOT PER	1.665+/-	1.481	mph
13	N TOP PAR	-.743+/-	2.684	39	N VA 74'	-.279+/-	.979	mph
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	-.681+/-	1.785	mph
15	N TOP VER	.032+/-	1.075	41	N GND PER	2.032+/-	1.986	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.196+/-	.866	mph
17	N BOT PER	3.201+/-	2.466	43	N GND PAR	-2.301+/-	2.521	mph
19	N BOT PAR	-1.365+/-	2.582	45	N GND VER	.054+/-	.763	mph
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	1.102+/-	.570	ppm
21	N BOT VER	.031+/-	1.137	50	S TOP PER	2.743+/-	1.826	mph
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.882+/-	.556	ppm
23	N HA 102'	5.743+/-	2.332	52	S TOP PAR	-.296+/-	1.031	mph
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.440+/-	.916	ppm
25	N WV 102'	180.351+/-	29.768	54	S TOP VER	-.357+/-	.929	mph
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.736+/-	.239	ppm
27	N Gnd Temp	97.463+/-	2.565	56	S GND PER	.011+/-	.425	mph
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	174.401+/-	29.876	58	S GND PAR	-.240+/-	.916	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	56.782+/-	.778	%
31	N 74' Temp	95.535+/-	1.864	60	S GND VER	-.083+/-	.559	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	394.938+/-	224.807	W/m^2
35	N HA 74'	3.914+/-	3.923	64	S VA 55'	-.097+/-	.894	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.05+/-	1.97	168.7+/-	33.3	.4+/- 14.7
02	17 19 21	4.57+/-	2.02	156.0+/-	37.2	1.5+/- 16.4
03	38 40 42	2.79+/-	1.20	158.9+/-	43.8	1.1+/- 22.9
04	41 43 45	4.02+/-	1.99	133.8+/-	41.1	-4+/- 18.4
05	50 52 54	3.13+/-	1.77	170.8+/-	27.3	-1+/- 27.5
06	56 58 60	.85+/-	.85	62.5+/-	38.9	-11.6+/- 40.0

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2555 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	62.3	45	55.9	39	60.2	3	64.0	11	50.9
Cat2	165	62.5	258	58.2	198	61.7	139	68.8	103	50.1
Cat3	34	64.5	39	61.2	44	61.7	62	71.2	9	48.2
Cat4	17	65.6	14	64.0	21	62.5	14	72.3	10	52.4
Cat5	13	68.9	8	64.7	12	64.3	7	73.4	2	46.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	59.0	5	55.0	23	59.2	30	55.2	40	47.1
Cat2	119	60.6	148	58.0	202	59.9	173	57.0	72	47.1
Cat3	23	61.0	69	59.0	55	59.4	26	57.6	13	47.9
Cat4	22	64.1	52	60.9	37	61.6	16	57.5	8	47.6
Cat5	13	66.3	76	61.8	39	64.2	2	57.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	321	12.1	59.2	1577	59.4	61.5	374	14.1	61.7	211	7.9	63.8	172	6.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.034+/- 1.837	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	3.031+/- .715	ppm	38	S BOT PER	1.345+/- 1.006	mph
13	N TDP PAR	1.107+/- 1.240	mph	39	N VA 74'	-.127+/- .883	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	-.363+/- .761	mph
15	N TDP VER	.201+/- 1.034	mph	41	N GND PER	1.442+/- 1.493	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.104+/- .703	mph
17	N BOT PER	2.700+/- 1.793	mph	43	N GND PAR	-.546+/- 1.439	mph
19	N BOT PAR	.511+/- 1.198	mph	45	N GND VER	-.141+/- .724	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.251+/- .550	ppm
21	N BOT VER	.051+/- 1.038	mph	50	S TOP PER	1.982+/- 1.301	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.033+/- .515	ppm
23	N HA 102'	4.975+/- 1.350	mph	52	S TOP PAR	-.088+/- .200	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.873+/- .647	ppm
25	N WV 102'	193.321+/- 16.694	DEGR AZ	54	S TOP VER	-.160+/- .728	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.923+/- .248	ppm
27	N Gnd Temp	99.834+/- 2.757	DEGR F	56	S GND PER	-.109+/- .046	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	195.906+/- 24.006	DEGR AZ	58	S GND PAR	-.236+/- .651	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	55.903+/- .631	%
31	N 74' Temp	97.724+/- 2.435	DEGR F	60	S GND VER	-.051+/- .282	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	569.199+/- 87.193	W/m <sup>2</sup>
35	N HA 74'	3.504+/- 3.365	mph	64	S VA 55'	.127+/- .797	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.66+/-	1.75	200.6+/-	26.1	5.5+/- 24.0
02	17 19 21	3.26+/-	1.58	191.3+/-	32.7	5.7+/- 24.5
03	38 40 42	1.77+/-	.95	160.2+/-	39.1	2.0+/- 30.1
04	41 43 45	2.43+/-	1.20	162.7+/-	46.4	-3.5+/- 22.1
05	50 52 54	2.19+/-	1.22	173.4+/-	29.0	2.3+/- 29.8
06	56 58 60	.56+/-	.52	50.1+/-	37.7	-9.8+/- 37.5

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2529 vehicles averaging 60.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	61.9	45	56.8	54	60.3	4	63.0	18	49.4
Cat2	184	63.5	255	58.6	225	62.4	124	68.9	81	49.7
Cat3	24	65.3	24	60.2	48	61.9	64	71.7	8	53.9
Cat4	22	67.7	16	64.5	23	64.9	7	72.3	13	54.4
Cat5	5	67.6	5	67.2	4	64.4	13	72.0	2	50.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	60.6	9	49.2	27	60.3	38	56.2	36	48.3
Cat2	108	61.7	173	59.0	212	62.3	141	58.4	48	50.3
Cat3	19	61.1	63	61.1	48	61.7	14	56.9	3	47.8
Cat4	20	65.6	48	61.1	30	64.8	6	55.0	3	53.1
Cat5	9	67.1	59	63.9	29	66.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	349	13.8	60.8	1551	61.3	63.2	315	12.5	63.3	188	7.4	65.7	126	5.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.892+/- 3.182	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.834+/- .880	ppm	38	S BOT PER	1.250+/- 1.244	mph
13	N TDP PAR	2.203+/- 1.937	mph	39	N VA 74'	-.307+/- 1.102	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	.545+/- 1.384	mph
15	N TDP VER	.029+/- 1.225	mph	41	N GND PER	1.866+/- 2.210	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.320+/- .694	mph
17	N BOT PER	2.930+/- 2.655	mph	43	N GND PAR	-.043+/- 2.156	mph
19	N BOT PAR	1.844+/- 1.822	mph	45	N GND VER	-.147+/- .758	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.389+/- .686	ppm
21	N BOT VER	.087+/- 1.208	mph	50	S TOP PER	1.722+/- 1.664	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.215+/- .835	ppm
23	N HA 102'	5.993+/- 2.361	mph	52	S TOP PAR	-.140+/- .831	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.727+/- .546	ppm
25	N WV 102'	230.923+/- 30.341	DEGR AZ	54	S TOP VER	-.430+/- .945	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.329+/- .255	ppm
27	N Gnd Temp	99.573+/- 2.667	DEGR F	56	S GND PER	-.063+/- .255	mph



28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	227.542+/- 31.970	DEGR AZ	58	S GND PAR	-.082+/- 1.120	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	54.812+/- .658	%
31	N 74' Temp	95.822+/- 2.440	DEGR F	60	S GND VER	-.153+/- .517	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	568.109+/- 22.483	W/m**2
35	N HA 74'	4.763+/- 3.644	mph	64	S VA 55'	-.222+/- 1.023	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.91+/- 2.07	228.7+/- 39.4	2.7+/- 19.1		
02	17 19 21	4.50+/- 1.85	219.9+/- 35.6	3.7+/- 19.8		
03	38 40 42	2.18+/- 1.22	196.6+/- 42.9	-6.4+/- 28.9		
04	41 43 45	3.23+/- 1.80	187.0+/- 48.2	-3.9+/- 19.0		
05	50 52 54	2.33+/- 1.55	177.2+/- 40.7	-11.5+/- 29.6		
06	56 58 60	.83+/- .93	41.2+/- 47.0	-16.6+/- 36.7		

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10271 vehicles averaging 60.0 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	169	62.0	179	56.1	169	60.4	14	60.0	74	48.6
Cat2	646	62.9	999	58.3	813	61.5	506	68.8	366	49.0
Cat3	116	64.4	132	60.9	189	61.9	243	71.1	45	49.3
Cat4	74	66.5	72	63.1	78	63.2	43	70.4	39	52.0
Cat5	37	69.1	25	63.9	30	64.6	48	70.6	10	51.1

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	307	59.4	30	52.7	103	60.1	134	55.6	158	48.1
Cat2	485	60.6	609	58.4	809	60.6	634	56.9	235	48.9
Cat3	81	60.9	271	59.8	209	60.4	112	57.6	24	48.1
Cat4	92	64.2	189	61.1	136	62.4	53	57.5	17	49.0
Cat5	47	65.8	271	62.1	137	64.2	11	57.3	1	42.8

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	1337	13.0	59.5	6102	59.4	61.9	1422	13.8	62.1	793	7.7	63.8	617	6.0

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TDP PER	2.438+/- 2.937	mph	37	N VA 102'	*****+/-*****	mph				
12	N Dasibi CO	2.486+/- 1.111	ppm	38	S BDT PER	.841+/- 1.751	mph				
13	N TDP PAR	1.252+/- 2.307	mph	39	N VA 74'	-.253+/- 1.050	mph				
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	.488+/- 1.865	mph				
15	N TDP VER	.064+/- 1.167	mph	41	N GND PER	1.286+/- 2.144	mph				
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.098+/- .852	mph				
17	N BDT PER	2.349+/- 2.468	mph	43	N GND PAR	-.394+/- 2.431	mph				
19	N BDT PAR	.785+/- 2.323	mph	45	N GND VER	-.072+/- .725	mph				
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.180+/- .594	ppm				
21	N BDT VER	.048+/- 1.140	mph	50	S TDP PER	1.409+/- 2.181	mph				
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.969+/- .857	ppm				
23	N HA 102'	5.242+/- 2.044	mph	52	S TDP PAR	.099+/- 1.198	mph				
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.640+/- .748	ppm				
25	N WV 102'	215.294+/- 41.360	DEGR AZ	54	S TDP VER	-.140+/- .947	mph				
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.936+/- .337	ppm				
27	N Gnd Temp	98.929+/- 2.703	DEGR F	56	S GND PER	-.118+/- .478	mph				
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm				
29	N WV 74'	214.613+/- 41.618	DEGR AZ	58	S GND PAR	-.131+/- 1.197	mph				
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	55.622+/- 1.013	%				
31	N 74' Temp	96.349+/- 2.459	DEGR F	60	S GND VER	-.089+/- .452	mph				
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	554.927+/- 181.402	W/m**2				
35	N HA 74'	4.102+/- 3.511	mph	64	S VA 55'	.038+/- 1.020	mph				

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.38+/- 1.90	214.0+/- 45.2	2.4+/- 21.8		
02	17 19 21	3.94+/- 1.81	205.0+/- 45.3	3.1+/- 22.5		
03	38 40 42	2.49+/- 1.40	194.9+/- 51.0	-.1+/- 25.6		
04	41 43 45	3.12+/- 1.76	173.5+/- 52.9	-2.1+/- 18.8		
05	50 52 54	2.56+/- 1.63	173.5+/- 47.9	.0+/- 31.3		
06	56 58 60	.90+/- 1.06	37.5+/- 49.2	-11.9+/- 36.1		

17:13:10 -- AEDUS IS UP-MET INST.ECOLYZERS,DASIBI CO JJK  
 Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2640 vehicles averaging 60.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	61.2	49	56.3	35	60.2	2	59.7	15	49.3
Cat2	166	63.4	258	58.6	222	61.6	140	69.0	78	50.1
Cat3	21	65.4	24	61.8	32	60.9	46	71.3	10	52.8
Cat4	12	67.1	21	63.5	24	61.9	18	69.5	6	52.0
Cat5	9	69.6	3	65.4	6	65.6	17	69.1	3	47.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	98	59.3	7	54.2	24	60.0	48	57.1	40	47.9
Cat2	117	61.2	144	58.2	246	60.7	161	56.6	48	49.5
Cat3	31	63.7	74	59.7	41	60.3	28	57.8	6	49.9
Cat4	19	64.6	52	61.1	32	63.0	11	58.2	0	0
Cat5	8	64.3	82	62.2	44	63.5	9	57.5	2	40.8

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	369	14.0	60.0	1580	59.8	62.0	313	11.9	62.8	195	7.4	63.1	183	6.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.759+/- 1.717	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.092+/- .822	ppm	38	S BDT PER	.484+/- 1.391	mph
13	N TOP PAR	1.838+/- 1.729	mph	39	N VA 74'	-.258+/- 1.190	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	.823+/- .991	mph
15	N TOP VER	.202+/- 1.105	mph	41	N GND PER	.718+/- 1.765	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.264+/- 1.010	mph
17	N BDT PER	1.704+/- 1.689	mph	43	N GND PAR	.592+/- 1.870	mph
18	N BDT PAR	1.594+/- 1.866	mph	45	N GND VER	-.181+/- .741	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.356+/- .416	ppm
21	N BDT VER	.191+/- 1.056	mph	50	S TOP PER	1.185+/- 1.444	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.198+/- .478	ppm
23	N HA 102'	4.337+/- 2.091	mph	52	S TOP PAR	-.047+/- .481	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.948+/- 1.172	ppm
25	N WV 102'	224.079+/- 30.779	DEGR AZ	54	S TOP VER	-.467+/- 1.027	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.344+/- .225	ppm
27	N Gnd Temp	99.964+/- 1.896	DEGR F	56	S GND PER	-.098+/- .106	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	226.644+/- 34.700	DEGR AZ	58	S GND PAR	.140+/- .584	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	52.830+/- .576	%
31	N 74' Temp	98.219+/- 2.376	DEGR F	60	S GND VER	-.198+/- .315	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	491.858+/- 52.635	W/m^2
35	N HA 74'	3.170+/- 3.707	mph	64	S VA 55'	-.364+/- .832	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.33+/- 1.57	225.8+/- 41.4	6.7+/- 30.7
02	17 19 21	3.18+/- 1.65	224.5+/- 41.1	6.2+/- 32.2
03	38 40 42	1.99+/- 1.03	244.0+/- 51.5	-7.0+/- 34.4
04	41 43 45	2.32+/- 1.68	202.2+/- 54.3	-4.3+/- 24.3
05	50 52 54	1.84+/- 1.28	160.9+/- 46.6	-12.7+/- 38.0
06	56 58 60	.51+/- .52	22.0+/- 47.8	-32.7+/- 26.0

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2080 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	61.3	38	54.9	42	61.1	2	65.2	20	49.1
Cat2	130	63.6	185	57.6	186	61.4	94	69.1	62	49.2
Cat3	19	65.9	28	62.0	30	62.7	44	70.1	6	50.7
Cat4	16	68.3	11	60.3	26	63.0	11	72.0	2	45.6
Cat5	11	69.7	4	64.5	7	62.4	14	73.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	57.7	4	49.6	17	60.5	26	54.4	47	46.3
Cat2	94	58.4	124	57.3	159	59.0	115	55.2	50	47.9
Cat3	20	60.9	59	57.4	37	58.4	30	55.9	4	45.5
Cat4	14	61.2	34	60.5	31	61.9	8	57.2	1	45.0
Cat5	15	62.5	52	58.5	34	60.4	6	56.9	1	40.1

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	316	15.2	58.8	1189	57.2	60.9	277	13.3	62.2	154	7.4	62.2	144	6.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	99.652+/- 3.005	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	52.972+/- .391	%
31	N 74' Temp	96.317+/- 2.167	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	398.072+/- 79.976	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	4.19+/-	1.22	225.6+/-	16.3	2.9+/-	15.7
02	17	19	21	3.93+/-	1.27	216.7+/-	19.5	1.6+/-	21.8
03	38	40	42	2.12+/-	.93	255.9+/-	38.3	-3.7+/-	30.7
04	41	43	45	2.26+/-	1.09	202.2+/-	46.5	-2.3+/-	22.2
05	50	52	54	1.28+/-	.77	159.8+/-	46.4	-2.2+/-	37.6
06	56	58	60	.58+/-	.62	7.8+/-	50.5	-26.8+/-	19.5

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2487 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	61.6	49	56.4	52	60.2	1	55.9	30	47.9
Cat2	152	62.4	261	58.7	218	61.1	133	68.9	95	47.7
Cat3	19	65.3	24	59.8	31	61.3	46	69.9	10	46.8
Cat4	22	67.4	12	61.6	24	63.2	12	72.2	5	47.8
Cat5	6	69.1	5	82.7	4	63.6	12	73.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	60.6	7	52.6	40	61.3	40	56.6	38	47.6
Cat2	107	62.5	187	59.6	203	61.7	125	57.8	49	48.2
Cat3	21	63.1	68	60.1	45	62.0	20	58.2	5	50.5
Cat4	9	66.6	54	62.4	25	63.9	14	58.1	0	.0
Cat5	2	59.7	36	63.1	25	64.7	6	59.1	3	45.6

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	392	15.8	60.0	1530	61.5	61.9	289	11.6	63.4	177	7.1	64.3	99	4.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.872+/-	1.495	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi C0	3.227+/-	.803	38	S BOT PER	.842+/-	1.025	mph
13	N TOP PAR	2.713+/-	1.385	39	N VA 74'	-.147+/-	.725	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	.795+/-	.908	mph
15	N TOP VER	.062+/-	.930	41	N GND PER	1.563+/-	1.457	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.096+/-	.789	mph
17	N BOT PER	3.165+/-	1.330	43	N GND PAR	-.280+/-	1.667	mph
18	N BOT PAR	2.054+/-	1.341	45	N GND VER	-.161+/-	.800	mph
19	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.168+/-	.300	ppm
20	N BOT VER	.051+/-	1.072	50	S TOP PER	1.726+/-	1.320	mph
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.039+/-	.491	ppm
22	N HA 102'	5.425+/-	1.131	52	S TOP PAR	-.111+/-	.075	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.060+/-	1.222	ppm
24	N WV 102'	220.312+/-	19.944	54	S TOP VER	-.152+/-	.804	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.863+/-	.198	ppm
26	N Gnd Temp	100.381+/-	2.622	56	S GND PER	-.122+/-	.288	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
28	N WV 74'	221.549+/-	19.253	58	S GND PAR	.097+/-	.626	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Rot Hum	52.353+/-	.459	%
30	N 74' Temp	97.958+/-	1.773	60	S GND VER	-.116+/-	.128	mph
31	N C02/Byron	*****+/-*****	ppm	61	N Solar Rad	376.227+/-	24.209	W/m^2
32	N HA 74'	3.471+/-	3.747	64	S VA 55'	-.088+/-	.765	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11 13 15	4.37+/-	1.23	223.9+/-	22.9	2.2+/-	15.0
02	17 19 21	4.15+/-	1.29	213.4+/-	19.1	2.9+/-	17.9
03	38 40 42	1.77+/-	.87	222.3+/-	42.6	.8+/-	27.9
04	41 43 45	2.50+/-	1.36	186.0+/-	43.7	-.2+/-	26.1
05	50 52 54	1.97+/-	1.22	170.8+/-	30.3	-1.9+/-	32.6
06	56 58 60	.49+/-	.54	30.0+/-	46.1	-25.6+/-	22.8

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2045 vehicles averaging 61.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	62.3	43	57.1	51	61.4	2	65.2	22	48.5
Cat2	124	62.8	215	58.9	214	62.1	114	69.7	62	47.6
Cat3	11	64.8	24	61.5	19	64.9	45	71.3	4	53.7
Cat4	13	69.9	8	61.7	8	64.3	10	68.8	5	51.0
Cat5	4	69.4	1	74.1	5	66.6	7	70.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	59.4	7	56.0	44	61.2	23	57.1	23	48.2
Cat2	100	61.9	145	60.3	171	62.4	108	57.5	29	50.8
Cat3	24	63.7	59	61.5	40	62.4	12	57.5	1	47.2
Cat4	11	68.0	30	62.0	22	65.4	11	56.5	0	.0
Cat5	6	65.4	34	62.8	12	67.2	3	57.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	334	16.3	60.8	1282	62.7	63.8	239	11.7	64.0	118	5.8	65.1	72	3.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.907+/-	1.390	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi C0	3.280+/-	.921	38	S BOT PER	1.075+/-	.796	mph
13	N TOP PAR	.619+/-	1.070	39	N VA 74'	.052+/-	.584	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	-.344+/-	.984	mph
15	N TOP VER	.222+/-	.815	41	N GND PER	1.652+/-	1.435	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.137+/-	.505	mph
17	N BOT PER	2.829+/-	1.267	43	N GND PAR	-.924+/-	1.324	mph
18	N BOT PAR	.382+/-	.952	45	N GND VER	-.100+/-	.614	mph
19	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.289+/-	.440	ppm
20	N BOT VER	.148+/-	.924	50	S TOP PER	1.536+/-	1.031	mph
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.111+/-	.605	ppm
22	N HA 102'	4.083+/-	1.591	52	S TOP PAR	-.119+/-	.111	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.998+/-	1.442	ppm
24	N WV 102'	193.037+/-	17.598	54	S TOP VER	-.244+/-	.587	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.085+/-	.176	ppm
26	N Gnd Temp	100.173+/-	2.714	56	S GND PER	-.120+/-	.056	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
28	N WV 74'	195.380+/-	18.732	58	S GND PAR	-.282+/-	.497	mph

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	52.206+/-	.408	%
31	N 74' Temp	97.541+/- 1.713	DEGR F	60	S GND VER	- .110+/-	.066	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	250.470+/-	49.708	W/m**2
35	N HA 74'	2.797+/- 3.382	mph	64	S VA 55'	- .051+/-	.519	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.37+/- 1.23	194.8+/- 26.1	5.1+/- 15.5		
02	17 19 21	3.17+/- 1.22	185.9+/- 21.9	4.6+/- 21.1		
03	38 40 42	1.50+/- .95	163.2+/- 35.4	-8.4+/- 29.7		
04	41 43 45	2.46+/- 1.30	153.5+/- 42.8	-4.1+/- 20.7		
05	50 52 54	1.69+/- 1.00	169.6+/- 26.9	-10.0+/- 25.2		
06	56 58 60	.39+/- .45	50.2+/- 26.4	-26.3+/- 19.9		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 9252 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	195	61.5	180	56.2	180	60.8	7	62.3	87	48.6
Cat2	572	63.0	928	58.5	820	61.6	481	69.2	297	48.6
Cat3	70	65.4	100	61.3	112	62.2	181	70.6	30	50.5
Cat4	63	67.6	52	62.1	82	62.9	51	70.7	18	49.8
Cat5	30	69.5	13	64.7	22	64.5	50	71.7	3	47.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	327	59.2	25	53.5	125	60.9	137	56.4	148	47.4
Cat2	418	61.1	600	59.0	779	61.0	509	56.8	176	48.9
Cat3	96	63.0	260	59.7	163	60.9	90	57.2	16	48.9
Cat4	53	64.7	170	61.6	110	63.4	44	58.1	1	45.0
Cat5	31	63.4	204	61.7	115	63.2	24	57.7	6	43.1

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	1411	15.3	59.9	5581	60.3	62.1	1118	12.1	63.1	644	7.0	63.3	498	5.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.556+/- 1.575	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.926+/- .978	ppm	38	S BOT PER	.706+/- 1.116	mph
13	N TOP PAR	1.997+/- 1.562	mph	39	N VA 74'	-.115+/- .870	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.669+/- 1.168	mph
15	N TOP VER	.156+/- .989	mph	41	N GND PER	1.279+/- 1.574	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.173+/- .818	mph
17	N BOT PER	2.632+/- 1.528	mph	43	N GND PAR	.098+/- 1.707	mph
19	N BOT PAR	1.516+/- 1.548	mph	45	N GND VER	-.141+/- .741	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.240+/- .374	ppm
21	N BOT VER	.100+/- 1.026	mph	50	S TOP PER	1.348+/- 1.264	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.063+/- .505	ppm
23	N HA 102'	4.745+/- 1.659	mph	52	S TOP PAR	-.092+/- .276	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.959+/- 1.237	ppm
25	N WV 102'	215.650+/- 25.127	DEGR AZ	54	S TOP VER	-.274+/- .836	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	3.706+/- .347	ppm
27	N Gnd Temp	100.042+/- 2.539	DEGR F	56	S GND PER	-.117+/- .182	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	217.268+/- 26.675	DEGR AZ	58	S GND PAR	.053+/- .633	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	52.540+/- .536	%
31	N 74' Temp	97.509+/- 2.106	DEGR F	60	S GND VER	-.143+/- .201	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	379.158+/- 102.143	W/m**2
35	N HA 74'	3.278+/- 3.712	mph	64	S VA 55'	-.196+/- .759	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.80+/- 1.41	217.1+/- 31.5	4.3+/- 20.9		
02	17 19 21	3.59+/- 1.45	209.2+/- 30.7	3.9+/- 24.0		
03	38 40 42	1.83+/- .97	217.4+/- 48.7	-4.6+/- 30.9		
04	41 43 45	2.39+/- 1.39	182.3+/- 48.9	-2.7+/- 23.5		
05	50 52 54	1.72+/- 1.13	166.5+/- 39.0	-7.0+/- 33.8		
06	56 58 60	.48+/- .53	32.3+/- 45.0	-28.0+/- 22.6		

18:23:15 -- Problem with channel 37 will be investigated shortly. Will now turn it off.  
 18:23:53 -- Begin calibration of NCD-1. MWH  
 18:32:52 -- CHANNEL 48 FINISHED CALIBRATION  
 18:33:54 -- BEGIN CAL CHANNEL 51 JJK  
 18:42:55 -- TURNING BACK ON CH 51. MWH  
 18:43:16 -- BEGIN CALIBRATION OF CH 53  
 18:52:33 -- CHAN 53 ON JJK  
 18:52:55 -- CHAN 55 OFF JJK  
 18:53:20 -- CAL 55 NOT OFF! JJK

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2231 vehicles averaging 61.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	62.0	56	56.0	37	61.3	1	64.5	34	49.6
Cat2	127	63.8	232	59.1	226	62.0	121	70.0	46	50.3
Cat3	14	65.6	23	62.5	19	64.6	40	71.9	4	52.1
Cat4	13	67.6	6	67.5	15	65.4	7	74.3	1	45.9
Cat5	2	71.6	1	61.6	2	64.3	9	71.4	1	41.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	60.3	16	56.4	41	62.8	34	56.5	30	47.6
Cat2	115	62.0	178	60.3	207	62.3	125	57.5	42	49.9
Cat3	17	63.8	66	61.6	39	61.6	19	58.1	2	45.1
Cat4	13	63.8	33	61.5	21	65.0	7	57.3	1	42.8
Cat5	1	61.4	35	62.7	7	65.9	0	60.0	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	394	17.7	61.1	1419	63.6	63.4	243	10.9	64.1	117	5.2	64.4	58	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.131+/- 1.279	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.883+/- .473	ppm	38	S BOT PER	1.023+/- .959	mph
13	N TOP PAR	.530+/- 1.162	mph	39	N VA 74'	-.197+/- .583	mph
14	N Dasibi Q3	*****+/-*****	ppm	40	S BOT PAR	-.414+/- .678	mph
15	N TOP VER	.031+/- .840	mph	41	N GND PER	1.368+/- 1.475	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-.199+/- .605	mph
17	N BOT PER	2.771+/- 1.341	mph	43	N GND PAR	-1.472+/- 1.295	mph
19	N BOT PAR	.047+/- 1.241	mph	45	N GND VER	-.078+/- .512	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.222+/- .415	ppm
21	N BOT VER	-.045+/- .954	mph	50	S TOP PER	1.518+/- .992	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	-.933+/- .526	ppm
23	N HA 102'	4.155+/- 1.675	mph	52	S TOP PAR	-.112+/- .066	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.573+/- 1.118	ppm
25	N WV 102'	196.334+/- 18.029	DEGR AZ	54	S TOP VER	-.248+/- .579	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.160+/- .186	ppm
27	N Gnd Temp	98.505+/- 2.124	DEGR F	56	S GND PER	-.089+/- .251	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	193.889+/- 16.612	DEGR AZ	58	S GND PAR	-.367+/- .563	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Ref Num	53.070+/- .418	%
31	N 74' Temp	96.894+/- 1.827	DEGR F	60	S GND VER	-.118+/- .085	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	212.047+/- 19.715	W/m <sup>2</sup>
35	N HA 74'	2.953+/- 3.263	mph	64	S VA 55'	-.023+/- .578	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.50+/- 1.24	187.1+/- 21.9	1.6+/- 16.7
02	17 19 21	3.23+/- 1.27	176.4+/- 25.4	1.4+/- 21.6
03	38 40 42	1.48+/- .94	158.0+/- 37.7	-7.0+/- 30.3
04	41 43 45	2.54+/- 1.30	130.6+/- 37.1	-3.3+/- 13.3
05	50 52 54	1.65+/- .99	172.8+/- 10.9	-6.9+/- 25.3
06	56 58 60	.51+/- .53	59.6+/- 29.2	-27.2+/- 20.8

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1825 Vehicles averaging 61.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	62.0	47	58.1	50	62.1	0	60.0	23	50.1
Cat2	84	62.9	212	59.6	171	62.7	113	70.5	53	49.0
Cat3	18	65.6	16	63.7	23	63.3	28	71.3	4	49.0
Cat4	3	64.3	8	63.7	5	62.9	4	72.6	4	47.7
Cat5	4	71.2	3	66.9	5	67.4	6	75.5	1	59.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	92	59.6	11	57.6	43	62.8	40	56.2	21	49.0
Cat2	99	61.7	164	60.3	185	63.1	89	57.8	21	49.9
Cat3	17	64.5	55	61.3	26	65.6	17	58.6	2	45.3
Cat4	12	66.1	35	63.9	16	64.8	5	56.8	0	60.0
Cat5	9	65.2	28	63.1	10	68.0	1	63.5	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	369	19.2	61.3	1191	61.9	63.6	206	10.7	63.6	92	4.8	66.2	87	3.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.639+/- 1.838	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.289+/- .600	ppm	38	S BOT PER	1.459+/- .884	mph
13	N TOP PAR	.878+/- 1.458	mph	39	N VA 74'	-.150+/- .692	mph
14	N Dasibi Q3	*****+/-*****	ppm	40	S BOT PAR	-.371+/- .546	mph
15	N TOP VER	.135+/- .911	mph	41	N GND PER	1.582+/- 1.793	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-.098+/- .664	mph
17	N BOT PER	3.280+/- 1.623	mph	43	N GND PAR	-.513+/- 1.434	mph
19	N BOT PAR	.303+/- 1.227	mph	45	N GND VER	-.138+/- .588	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.003+/- 1.078	mph	50	S TOP PER	2.115+/- 1.143	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.840+/- .365	ppm
23	N HA 102'	5.721+/- 2.285	mph	52	S TOP PAR	-.128+/- .095	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.311+/- .822	ppm
25	N WV 102'	189.580+/- 14.389	DEGR AZ	54	S TOP VER	-.181+/- .768	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.059+/- .167	ppm
27	N Gnd Temp	98.192+/- 2.790	DEGR F	56	S GND PER	-.056+/- .433	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	191.672+/- 15.117	DEGR AZ	58	S GND PAR	-.336+/- .525	mph

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	54.421+/-	.841	%
31	N 74' Temp	97.723+/- 1.470	DEGR F	60	S GND VER	-.114+/-	.077	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	168.857+/-	19.125	W/m**2
35	N HA 74'	3.995+/- 3.584	mph	64	S VA 55'	.005+/-	.746	mph

UYW Vector Calculations						
UYW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.15+/-	1.76	193.7+/-	22.5	3.7+/- 17.7
02	17 19 21	3.74+/-	1.52	184.2+/-	24.1	2.6+/- 24.4
03	38 40 42	1.76+/-	.83	166.5+/-	25.8	-1.8+/- 25.1
04	41 43 45	2.47+/-	1.49	159.9+/-	43.0	-2.1+/- 18.1
05	50 52 54	2.28+/-	1.12	175.2+/-	5.9	-.9+/- 24.2
06	56 58 60	.48+/-	.60	56.9+/-	28.2	-25.4+/- 17.2

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 1957 VEHICLES averaging 61.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	60.1	52	57.9	37	61.7	0	0	25	49.7
Cat2	93	61.5	216	59.5	174	62.3	110	70.9	48	49.3
Cat3	14	65.4	22	60.5	25	63.3	27	71.6	3	53.5
Cat4	8	62.8	14	61.6	11	64.3	6	73.7	3	51.1
Cat5	1	65.9	1	72.5	2	67.9	8	72.3	2	40.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	60.1	7	58.2	39	61.5	39	57.3	24	48.4
Cat2	106	62.4	167	60.4	176	62.9	103	58.6	26	50.5
Cat3	17	61.9	50	60.6	37	65.4	14	58.3	0	.0
Cat4	10	69.5	33	61.9	15	63.5	5	60.6	0	.0
Cat5	6	65.4	28	64.2	10	67.9	2	57.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	364	18.6	61.3	1219	62.3	63.4	209	10.7	63.4	105	5.4	65.3	60	3.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.812+/- 1.398	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.382+/- .645	ppm	38	S BOT PER	1.116+/- .854	mph
13	N TOP PAR	1.101+/- 1.120	mph	39	N VA 74'	-.181+/- .738	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.030+/- .723	mph
15	N TOP VER	.134+/- .797	mph	41	N GND PER	1.384+/- 1.181	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.165+/- .654	mph
17	N BOT PER	2.611+/- 1.232	mph	43	N GND PAR	-.707+/- 1.158	mph
19	N BOT PAR	.556+/- 1.113	mph	45	N GND VER	-.088+/- .522	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.145+/- .216	ppm
21	N BOT VER	-.070+/- .790	mph	50	S TOP PER	2.001+/- 1.044	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.442+/- 2.024	mph	52	S TOP PAR	-.046+/- .394	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.790+/- .905	ppm
25	N WV 102'	199.105+/- 13.748	DEGR AZ	54	S TOP VER	-.235+/- .781	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.799+/- .191	ppm
27	N Gnd Temp	96.629+/- 2.510	DEGR F	56	S GND PER	-.106+/- .048	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	200.806+/- 16.685	DEGR AZ	58	S GND PAR	-.134+/- .457	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	55.838+/- .291	%
31	N 74' Temp	95.222+/- 2.141	DEGR F	60	S GND VER	-.126+/- .082	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	156.912+/- 10.362	W/m**2
35	N HA 74'	3.116+/- 3.358	mph	64	S VA 55'	.067+/- .819	mph

UYW Vector Calculations						
UYW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.37+/-	1.24	203.8+/-	23.5	3.9+/- 17.7
02	17 19 21	2.99+/-	1.25	192.8+/-	22.0	.4+/- 19.1
03	38 40 42	1.50+/-	.89	174.3+/-	38.6	-3.9+/- 31.2
04	41 43 45	2.02+/-	1.16	156.6+/-	40.5	-4.1+/- 21.3
05	50 52 54	2.17+/-	1.08	175.4+/-	16.6	-4.6+/- 21.8
06	56 58 60	.33+/-	.39	46.1+/-	33.2	-32.1+/- 16.7

Average for 15 minute period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 1735 VEHICLES averaging 61.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	58.8	44	57.0	32	60.2	4	64.9	19	49.2
Cat2	73	60.2	183	59.0	156	62.1	127	89.5	38	47.9
Cat3	7	57.3	17	62.0	17	63.1	27	71.5	2	54.6
Cat4	5	63.0	7	58.7	8	65.3	0	.0	0	.0
Cat5	4	66.2	1	65.8	1	60.4	2	68.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	60.9	15	58.5	38	62.8	33	57.1	21	48.4
Cat2	105	62.4	186	60.3	157	63.3	94	58.9	19	49.2
Cat3	9	60.7	40	61.9	17	62.5	12	60.4	1	40.6
Cat4	17	68.2	21	62.3	17	67.8	4	60.5	0	.0
Cat5	5	68.0	19	63.5	7	67.2	1	63.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	329	19.0	61.2	1138	65.6	63.2	149	8.6	64.3	79	4.6	65.2	40	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.369+/- 1.566	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.154+/- .425	ppm	38	S BOT PER	.739+/- .806	mph
13	N TOP PAR	1.105+/- 1.213	mph	39	N VA 74'	-.042+/- .904	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.105+/- .509	mph
15	N TOP VER	.029+/- .989	mph	41	N GND PER	1.287+/- 1.351	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.161+/- .598	mph
17	N BOT PER	2.837+/- 1.229	mph	43	N GND PAR	-.214+/- 1.185	mph
19	N BOT PAR	.554+/- 1.028	mph	45	N GND VER	-.028+/- .590	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.112+/- .273	ppm
21	N BOT VER	-.026+/- .972	mph	50	S TOP PER	1.472+/- 1.057	ppm

22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.226+/-	.331	ppm
23	N HA 102'	6.214+/- 1.437	mph	52	S TOP PAR	-.113+/-	.181	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	193.504+/- 10.913	DEGR AZ	54	S TOP VER	-.168+/-	.690	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	96.707+/- 3.017	DEGR F	56	S GND PER	-.115+/-	.045	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	195.101+/- 18.307	DEGR AZ	58	S GND PAR	-.148+/-	.191	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	57.189+/-	.461	%
31	N 74' Temp	94.597+/- 2.249	DEGR F	60	S GND VER	-.113+/-	.055	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	127.801+/-	7.254	W/m**2
35	N HA 74'	3.582+/- 3.648	mph	64	S VA 55'	-.067+/-	.709	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.95+/- 1.36	198.3+/- 23.2	2.8+/- 17.6		
02	17 19 21	3.25+/- 1.10	191.3+/- 24.6	2.5+/- 18.8		
03	38 40 42	1.11+/- .75	182.8+/- 43.9	-7.3+/- 29.3		
04	41 43 45	1.99+/- 1.13	174.9+/- 46.3	.4+/- 18.1		
05	50 52 54	1.63+/- 1.02	169.0+/- 27.0	-6.7+/- 29.4		
06	56 58 60	.25+/- .16	45.1+/- 25.2	-29.8+/- 16.0		

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 7848 vehicles averaging 61.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	197	60.8	199	57.2	156	61.4	5	64.8	101	49.7
Cat2	377	62.4	843	59.3	727	62.3	471	70.2	185	49.2
Cat3	53	84.5	78	62.1	84	63.6	122	71.8	13	51.9
Cat4	29	65.1	35	62.5	39	64.7	17	73.7	8	48.7
Cat5	11	69.0	6	66.8	10	66.2	25	72.5	4	45.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	346	50.2	49	57.8	161	62.5	146	56.8	96	48.3
Cat2	425	62.1	695	60.3	725	62.8	411	58.2	108	48.9
Cat3	60	63.0	211	61.3	119	63.8	62	58.7	5	44.3
Cat4	52	66.2	122	62.4	69	65.3	21	58.6	1	42.8
Cat5	21	65.8	110	63.3	34	67.4	4	60.7	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
58.3	1456	61.2	4967	63.3	807	63.8	383	65.3	225
	18.6				10.3		5.0		2.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	3.238+/- 1.558	mph	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CD	2.427+/- .611	ppm	38	S BOT PER	1.050+/-	.911	mph
13	N TOP PAR	.900+/- 1.262	ppm	39	N VA 74'	-.146+/-	.735	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	-.217+/-	.846	mph
15	N TOP VER	.083+/- .880	mph	41	N GND PER	1.408+/-	1.667	mph
16	N NDK/TECO	*****+/-*****	ppm	42	S BOT VER	-.155+/-	.631	mph
17	N BOT PER	2.875+/- 1.385	mph	43	N GND PAR	-.735+/-	1.351	mph
18	N BOT PAR	.362+/- 1.172	ppm	45	N GND VER	-.071+/-	.556	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.163+/-	.316	ppm
21	N BOT VER	-.036+/- .952	mph	50	S TOP PER	1.787+/-	1.093	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.981+/-	.433	ppm
23	N HA 102'	5.389+/- 2.030	mph	52	S TOP PAR	-.100+/-	.227	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.537+/-	.950	ppm
25	N WV 102'	194.637+/- 14.933	DEGR AZ	54	S TOP VER	-.209+/-	.709	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.964+/-	.246	ppm
27	N Gnd Temp	97.509+/- 2.703	DEGR F	56	S GND PER	-.086+/-	.257	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	195.365+/- 16.972	DEGR AZ	58	S GND PAR	-.249+/-	.474	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	55.129+/-	1.641	%
31	N 74' Temp	96.134+/- 2.287	DEGR F	60	S GND VER	-.118+/-	.076	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	166.654+/-	34.254	W/m**2
35	N HA 74'	3.409+/- 3.473	mph	64	S VA 55'	-.003+/-	.719	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.74+/- 1.45	195.7+/- 23.4	3.0+/- 17.4		
02	17 19 21	3.30+/- 1.32	186.1+/- 24.7	1.7+/- 21.1		
03	38 40 42	1.47+/- .88	185.6+/- 37.4	-4.9+/- 29.0		
04	41 43 45	2.28+/- 1.30	154.4+/- 43.1	-2.3+/- 18.0		
05	50 52 54	1.94+/- 1.09	173.3+/- 16.8	-4.7+/- 25.2		
06	56 58 60	.40+/- .47	52.2+/- 29.7	-28.6+/- 18.0		

19:02:49 -- CH 55 IS BACK ONLINE MWH  
 19:03:24 -- BEGIN OZONE ANALYZER SPAN CHECK. CH 14 MWH  
 19:07:51 -- OZONE SPAN HAS BEEN INCORRECTLY SET FOR ENTIRE DATA RUN.  
 19:08:47 -- OZONE CONC SHOULD BE A STEADY 0.100 PPM. MWH  
 19:14:11 -- OZONE MONITOR IS BACK ONLINE.  
 19:23:23 -- Attempting to use CH 37 again.  
 19:33:31 -- CH 37 STILL HAS PROBLEMS.  
 19:37:54 -- TURNING OFF RADAR 7 TO CHECK FOR HIGH SPEEDS. MWH  
 19:47:42 -- RADAR 7 IS NOW BACK ONLINE MWH  
 19:52:43 -- OZONE MONITOR IS FUNCTIONING PROPERLY.  
 19:53:07 -- CH 14 IS OK. A/D MUST BE SLIGHTLY OFF. MWH

Average for 15 minute period ending at 19:15:00  
Traffic Data  
 Total Traffic = 1794 vehicles averaging 61.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	60.6	39	57.2	44	60.7	2	67.8	24	49.3
Cat2	86	59.8	208	59.3	168	62.2	113	69.3	57	48.6
Cat3	10	63.7	6	59.7	12	63.4	33	72.4	2	44.0
Cat4	9	66.3	9	59.4	15	62.3	6	69.1	1	41.8
Cat5	2	61.5	4	65.4	3	61.4	3	72.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	60.4	13	57.3	52	62.7	25	57.2	11	46.5
Cat2	100	61.7	169	60.9	146	64.0	93	58.7	9	47.7
Cat3	14	62.8	43	61.7	18	64.4	9	59.7	1	43.7
Cat4	18	64.1	31	62.2	12	64.5	3	60.5	1	52.6
Cat5	2	66.3	20	65.9	4	61.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
59.0	353	19.7	61.1	1150	64.1	64.2	148	8.2	63.0	105	5.9	65.3	38	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.897+/- 1.215	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.444+/- .564	ppm	38	S BOT PER	.521+/- .721	mph
13	N TOP PAR	1.557+/- 1.068	mph	39	N VA 74'	-.066+/- .538	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.061+/- .423	mph
15	N TOP VER	.092+/- .661	mph	41	N GND PER	1.228+/- 1.257	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.039+/- .522	mph
17	N BOT PER	2.652+/- 1.154	mph	43	N GND PAR	-.221+/- 1.223	mph
19	N BOT PAR	1.029+/- 1.124	mph	45	N GND VER	-.056+/- .570	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.077+/- .228	ppm
21	N BOT VER	-.009+/- .750	mph	50	S TOP PER	1.372+/- .974	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.150+/- .231	ppm
23	N HA 102'	5.013+/- 1.472	mph	52	S TOP PAR	-.128+/- .084	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.771+/- .759	ppm
25	N WV 102'	203.777+/- 12.742	DEGR AZ	54	S TOP VER	-.126+/- .573	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	8.069+/- .178	ppm
27	N Gnd Temp	95.027+/- 2.105	DEGR F	56	S GND PER	-.102+/- .049	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	205.846+/- 13.753	DEGR AZ	58	S GND PAR	-.093+/- .178	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	58.557+/- .587	%
31	N 74' Temp	93.654+/- .889	DEGR F	60	S GND VER	-.108+/- .056	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	100.142+/- 11.900	W/m**2
35	N HA 74'	3.053+/- 3.546	mph	64	S VA 55'	.112+/- .852	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.49+/- 1.32	208.5+/- 16.7	1.9+/- 14.2
02	17 19 21	3.14+/- 1.19	198.0+/- 22.4	-.1+/- 19.2
03	38 40 42	.89+/- .67	161.5+/- 51.7	-2.4+/- 37.5
04	41 43 45	1.96+/- 1.08	173.7+/- 45.2	.1+/- 22.8
05	50 52 54	1.55+/- .89	164.7+/- 31.7	2.1+/- 31.8
06	56 58 60	.22+/- .13	43.9+/- 28.9	-30.7+/- 14.8

Average for 15 minute period ending at 19:30:00  
Traffic Data  
 Total Traffic = 1632 vehicles averaging 60.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	59.7	43	57.6	34	61.8	3	62.3	29	49.4
Cat2	71	61.1	176	58.8	173	61.7	32	68.0	47	47.8
Cat3	5	65.6	13	62.8	14	62.7	26	72.1	4	48.9
Cat4	4	67.2	7	61.5	7	68.2	4	68.1	1	57.9
Cat5	0	.0	0	.0	1	72.3	4	68.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	60.6	10	58.6	43	62.0	26	56.9	9	47.8
Cat2	88	62.6	144	60.6	140	63.4	96	57.0	17	50.1
Cat3	13	64.4	48	61.4	21	63.1	11	57.1	0	.0
Cat4	12	64.9	25	63.9	6	65.7	1	62.0	0	.0
Cat5	9	68.7	18	63.5	2	69.5	1	65.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.7	331	20.3	60.7	1044	64.0	63.4	155	9.5	64.8	67	4.1	66.0	35	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.913+/- 1.418	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.151+/- .611	ppm	38	S BOT PER	1.025+/- .921	mph
13	N TOP PAR	1.097+/- 1.108	mph	39	N VA 74'	-.104+/- .672	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.044+/- .377	mph
15	N TOP VER	.080+/- .896	mph	41	N GND PER	.995+/- 1.269	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.125+/- .454	mph
17	N BOT PER	2.320+/- 1.047	mph	43	N GND PAR	-.638+/- 1.001	mph
19	N BOT PAR	.618+/- .874	mph	45	N GND VER	-.021+/- .516	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	.981+/- .168	ppm
21	N BOT VER	-.007+/- .886	mph	50	S TOP PER	1.687+/- 1.112	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.225+/- .334	ppm
23	N HA 102'	5.856+/- 1.249	mph	52	S TOP PAR	-.112+/- .061	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.737+/- .921	ppm
25	N WV 102'	198.561+/- 10.838	DEGR AZ	54	S TOP VER	-.292+/- .646	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	4.130+/- .184	ppm
27	N Gnd Temp	93.398+/- 3.106	DEGR F	56	S GND PER	-.108+/- .041	mph



28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	196.055+/- 13.101	DEGR AZ	58	S GND PAR	-.173+/- .252	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	59.860+/- .464	%
31	N 74' Temp	92.910+/- 1.252	DEGR F	60	S GND VER	-.118+/- .107	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	76.935+/- 8.181	W/m <sup>2</sup>
35	N HA 74'	3.526+/- 2.888	mph	64	S VA 55'	-.113+/- .575	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	3.42+/- 1.37	202.2+/- 21.7	8+/- 16.4	
02	17	19	21	2.73+/- .86	194.4+/- 21.7	1.2+/- 21.9	
03	38	40	42	1.20+/- .83	169.0+/- 30.7	-6.3+/- 28.6	
04	41	43	45	1.80+/- 1.01	145.6+/- 45.5	2.3+/- 20.0	
05	50	52	54	1.80+/- 1.13	173.3+/- 17.9	-8.6+/- 21.6	
06	56	58	60	.26+/- .24	48.0+/- 18.4	-29.7+/- 17.2	

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1440 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	59.8	39	57.6	37	61.5	****	****	22	48.3
Cat2	58	60.9	160	58.0	148	62.2	****	****	42	48.3
Cat3	10	63.7	14	61.1	19	63.2	****	****	0	.0
Cat4	3	67.3	10	61.8	12	63.0	****	****	2	47.0
Cat5	0	.0	3	67.2	1	64.7	****	****	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	60.0	12	57.2	37	61.9	17	56.4	14	45.1
Cat2	91	62.6	164	60.3	139	63.4	100	56.3	11	47.8
Cat3	12	64.2	32	61.9	16	61.7	9	59.9	0	.0
Cat4	14	65.2	24	63.2	9	65.0	1	63.8	0	.0
Cat5	5	70.3	17	63.8	5	69.1	1	59.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
58.3	308	21.4	60.0	913	63.4	62.3	112	7.8	63.3	75	5.2	65.9	32	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.121+/- 1.388	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.183+/- .423	ppm	38	S BDT PER	.807+/- .726	mph
13	N TOP PAR	.900+/- 1.064	mph	39	N VA 74'	-.158+/- .444	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	-.106+/- .461	mph
15	N TOP VER	-.123+/- .735	mph	41	N GND PER	.805+/- 1.151	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.154+/- .418	mph
17	N BDT PER	2.578+/- 1.266	mph	43	N GND PAR	-.742+/- 1.090	mph
19	N BDT PAR	.270+/- 1.009	mph	45	N GND VER	-.023+/- .448	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	.993+/- .163	ppm
21	N BDT VER	-.179+/- .742	mph	50	S TOP PER	2.001+/- 1.066	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.122+/- .188	ppm
23	N HA 102'	5.952+/- 1.677	mph	52	S TOP PAR	-.122+/- .108	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.525+/- .755	ppm
25	N WV 102'	192.761+/- 9.032	DEGR AZ	54	S TOP VER	-.223+/- .565	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.122+/- .170	ppm
27	N Gnd Temp	93.112+/- 3.005	DEGR F	56	S GND PER	-.105+/- .045	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	193.906+/- 12.194	DEGR AZ	58	S GND PAR	-.124+/- .140	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	61.032+/- .238	%
31	N 74' Temp	93.815+/- 1.969	DEGR F	60	S GND VER	-.112+/- .062	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	50.730+/- 7.144	W/m <sup>2</sup>
35	N HA 74'	3.778+/- 3.387	mph	64	S VA 55'	.070+/- .516	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	3.50+/- 1.38	195.8+/- 19.1	-1.1+/- 14.5	
02	17	19	21	2.90+/- 1.25	183.6+/- 23.9	-3.9+/- 16.9	
03	38	40	42	1.06+/- .71	160.7+/- 40.9	-7.6+/- 28.9	
04	41	43	45	1.62+/- .91	146.2+/- 48.6	-3.6+/- 23.0	
05	50	52	54	2.11+/- 1.05	173.5+/- 18.8	-1.9+/- 20.3	
06	56	58	60	.23+/- .12	46.1+/- 21.5	-32.9+/- 18.0	

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1475 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	58.5	45	56.3	33	60.7	16	58.4	27	47.7
Cat2	43	59.2	168	59.2	145	62.1	87	58.8	33	47.2
Cat3	6	59.2	10	62.6	18	62.4	6	60.5	3	51.4
Cat4	3	61.1	7	62.6	9	62.1	1	58.0	0	.0
Cat5	1	64.5	2	63.9	3	63.6	1	54.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	60.4	9	55.9	54	61.7	26	56.3	9	45.6
Cat2	73	61.3	154	60.0	135	62.2	78	57.1	13	48.7
Cat3	12	59.4	43	61.1	13	64.0	4	55.4	0	.0
Cat4	5	65.0	20	62.8	7	63.7	3	58.6	0	.0
Cat5	3	64.7	8	65.3	4	67.6	1	41.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
58.0	352	23.9	59.5	929	63.0	61.0	115	7.8	62.8	56	3.8	63.8	23	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.849+/- 1.316	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.451+/- .492	ppm	38	S BDT PER	-.611+/- .680	mph
13	N TOP PAR	.486+/- .951	mph	39	N VA 74'	-.231+/- .577	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	-.119+/- .361	mph
15	N TOP VER	-.109+/- .793	mph	41	N GND PER	-.621+/- 1.240	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.103+/- .433	mph
17	N BDT PER	2.231+/- 1.123	mph	43	N GND PAR	-.770+/- .952	mph
19	N BDT PAR	-.023+/- 1.011	mph	45	N GND VER	-.098+/- .492	mph

20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.451+/-	.255	ppm
21	N BOT VER	.052+/- .757	mph	50	S TOP PER	1.720+/-	1.083	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.227+/-	.228	ppm
23	N HA 102'	5.922+/- 1.054	mph	52	S TOP PAR	1.122+/-	.114	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.641+/-	.608	ppm
25	N WV 102'	187.704+/- 9.184	DEGR AZ	54	S TOP VER	-2.280+/-	.547	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.988+/-	.275	ppm
27	N Gnd Temp	92.174+/- 2.589	DEGR F	56	S GND PER	-1.15+/-	.041	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	187.015+/- 13.911	DEGR AZ	58	S GND PAR	-1.156+/-	.249	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	60.987+/-	.272	%
31	N 74' Temp	92.895+/- 2.537	DEGR F	60	S GND VER	-1.131+/-	.288	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	27.388+/-	6.710	W/m <sup>2</sup>
35	N HA 74'	3.197+/- 3.517	mph	64	S VA 55'	-.083+/-	.563	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.13+/- 1.31	188.8+/- 19.4	-4.0+/- 18.4		
02	17 19 21	2.55+/- 1.11	176.2+/- 23.8	-2.2+/- 19.8		
03	38 40 42	.86+/- .65	153.5+/- 44.7	-11.0+/- 31.9		
04	41 43 45	1.80+/- 1.00	126.2+/- 50.3	-2.9+/- 23.2		
05	50 52 54	1.83+/- 1.10	171.9+/- 17.5	-7.1+/- 20.8		
06	56 58 60	.29+/- .34	46.4+/- 19.7	-29.4+/- 19.0		

Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 6407 vehicles averaging 60.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	203	59.6	166	57.2	148	61.1	21	59.8	102	48.7
Cat 2	258	60.3	712	59.1	635	62.0	342	66.6	179	48.0
Cat 3	31	63.1	43	61.8	63	62.9	77	71.1	8	47.8
Cat 4	19	65.8	33	61.3	43	63.8	14	69.2	4	48.4
Cat 5	3	62.5	9	65.7	8	64.0	8	67.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	337	60.4	44	57.3	186	62.1	94	58.7	43	46.5
Cat 2	352	62.1	631	60.5	560	63.3	367	57.2	50	48.8
Cat 3	51	62.7	166	61.5	68	63.3	33	58.4	1	43.7
Cat 4	50	64.7	100	63.0	34	64.7	8	60.4	1	52.6
Cat 5	19	68.2	63	64.6	15	66.7	3	55.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	1344	21.0	60.5	4086	63.8	63.0	542	8.5	63.5	306	4.8	65.8	129	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.945+/- 1.333	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.312+/- .542	ppm	38	S BOT PER	.731+/- .782	mph
13	N TDP PAR	1.008+/- 1.114	mph	39	N VA 74'	-1.148+/- .563	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.052+/- .413	mph
15	N TDP VER	-.017+/- .778	mph	41	N GND PER	.909+/- 1.244	mph
16	N NOx/TECO	*****+/-*****	ppm	42	S BOT VER	-.105+/- .460	mph
17	N BOT PER	2.449+/- 1.182	mph	43	N GND PAR	-.592+/- 1.091	mph
19	N BOT PAR	.468+/- 1.085	mph	45	N GND VER	-.050+/- .508	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.889+/- .324	ppm
21	N BOT VER	-.063+/- .785	mph	50	S TOP PER	1.690+/- 1.078	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.180+/- .254	ppm
23	N HA 102'	5.835+/- 1.434	mph	52	S TOP PAR	-.126+/- .095	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.667+/- .771	ppm
25	N WV 102'	195.134+/- 12.023	DEGR AZ	54	S TOP VER	-.229+/- .585	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.076+/- .216	ppm
27	N Gnd Temp	93.341+/- 2.850	DEGR F	56	S GND PER	-.108+/- .044	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	195.690+/- 14.788	DEGR AZ	58	S GND PAR	-.136+/- .211	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	60.104+/- 1.095	%
31	N 74' Temp	93.312+/- 1.870	DEGR F	60	S GND VER	-.117+/- .151	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	63.798+/- 28.853	W/m <sup>2</sup>
35	N HA 74'	3.384+/- 3.357	mph	64	S VA 55'	-.002+/- .585	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.38+/- 1.35	188.8+/- 20.4	-.7+/- 16.0		
02	17 19 21	2.83+/- 1.16	187.9+/- 24.3	-1.4+/- 19.5		
03	38 40 42	1.00+/- .75	161.5+/- 43.8	-6.9+/- 32.0		
04	41 43 45	1.79+/- 1.01	149.4+/- 48.4	-1.2+/- 22.4		
05	50 52 54	1.82+/- 1.06	171.0+/- 22.7	-3.8+/- 24.4		
06	56 58 60	.25+/- .23	46.1+/- 22.9	-30.7+/- 17.3		

20:19:39 -- CHAN 49 SET TO ZERO TO CAL JJK  
 20:32:57 -- CHAN 49 ON JJK  
 20:33:45 -- CHAN 51 SET TO ZERO FOR CAL  
 20:44:29 -- CHAN 51 ON JJK  
 20:47:38 -- CHAN 53 SET TO  
 20:48:19 -- CHAN 53 SET TO ZERO JJK  
 20:58:14 -- CHAN 53 ON JJK  
 20:59:10 -- CHAN 55 SET TO ZERO TO CAL

JJK  
 Average for 15 minute period ending at 20:15:00  
 Traffic Data  
 Total Traffic = 1347 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	58.2	40	58.6	34	60.4	9	57.7	30	45.2
Cat2	57	59.8	136	58.5	130	60.7	83	58.8	36	47.3
Cat3	2	64.8	7	63.7	17	61.3	6	60.5	2	50.4
Cat4	2	64.4	6	59.0	10	62.2	2	63.0	1	49.1
Cat5	0	.0	0	.0	0	.0	1	54.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	59.9	12	56.7	26	61.7	26	56.4	7	51.2
Cat2	80	61.9	160	59.7	118	61.9	83	57.0	10	47.6
Cat3	11	62.3	35	60.7	12	63.2	7	55.8	0	.0
Cat4	1	63.7	5	59.9	5	64.6	0	.0	0	.0
Cat5	2	68.1	5	64.7	6	67.5	1	61.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	308	22.9	58.2	893	66.3	61.0	99	7.3	61.4	32	2.4	65.3	15	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.567+/-	1.159	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.224+/-	.485	38	S BOT PER	.689+/-	.695
13	N TOP PAR	.434+/-	.844	39	N VA 74'	-.003+/-	.471
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.078+/-	.159
15	N TOP VER	1.117+/-	.785	41	N GND PER	-.728+/-	1.256
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.185+/-	.372
17	N BOT PER	2.068+/-	1.114	43	N GND PAR	-.570+/-	1.173
18	N BOT PAR	-.091+/-	.910	45	N GND VER	-.063+/-	.395
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.336+/-	.216
21	N BOT VER	-.073+/-	.795	50	S TOP PER	1.927+/-	.947
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.230+/-	.232
23	N HA 102'	5.478+/-	1.309	52	S TOP PAR	-.098+/-	.065
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.869+/-	.925
25	N WV 102'	191.118+/-	8.666	54	S TOP VER	-.327+/-	.378
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.011+/-	.210
27	N Gnd Temp	90.378+/-	2.104	56	S GND PER	-.114+/-	.050
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	192.964+/-	13.962	58	S GND PAR	-.160+/-	.190
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	61.146+/-	.388
31	N 74' Temp	92.018+/-	2.656	60	S GND VER	-.117+/-	.069
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.310+/-	2.696
35	N HA 74'	2.719+/-	3.066	64	S VA 55'	-.113+/-	.348

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.87+/- 1.09	190.2+/- 21.4	4.8+/- 19.6
02	17 19 21	2.40+/- 1.08	179.3+/- 26.2	3.1+/- 21.7
03	38 40 42	1.84+/- .66	165.6+/- 35.5	-16.1+/- 26.5
04	41 43 45	1.67+/- 1.14	145.7+/- 50.8	-4.9+/- 20.8
05	50 52 54	1.99+/- 1.01	174.9+/- 12.3	-10.0+/- 10.2
06	56 58 60	.26+/- .19	50.2+/- 17.5	-33.5+/- 14.4

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic = 1379 vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	57.8	34	56.0	40	60.6	15	56.8	29	45.3
Cat2	58	60.4	154	57.3	134	60.4	90	59.4	38	46.4
Cat3	3	61.7	13	60.6	11	60.6	10	59.6	5	43.5
Cat4	6	64.3	6	61.2	6	58.6	4	60.0	3	36.3
Cat5	1	67.0	3	65.0	1	68.9	1	65.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	58.1	7	55.2	39	61.4	20	54.2	10	48.5
Cat2	74	59.9	154	58.4	122	61.1	62	55.1	9	48.2
Cat3	10	61.7	29	58.2	10	58.0	3	53.5	0	.0
Cat4	10	67.2	20	59.2	7	61.9	1	47.1	0	.0
Cat5	8	61.3	7	59.9	2	67.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	303	22.0	58.4	896	65.0	58.5	94	6.8	60.1	63	4.6	62.7	23	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.368+/-	.897	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.465+/-	.638	38	S BOT PER	.157+/-	.406
13	N TOP PAR	1.339+/-	.826	39	N VA 74'	-.061+/-	.364
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.098+/-	.105
15	N TOP VER	.089+/-	.635	41	N GND PER	1.146+/-	1.257
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.137+/-	.277
17	N BOT PER	1.835+/-	.933	43	N GND PAR	-.562+/-	.986
18	N BOT PAR	-.698+/-	.721	45	N GND VER	-.015+/-	.340
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.014+/-	.698	50	S TOP PER	1.134+/-	.827
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.295+/-	.227
23	N HA 102'	5.021+/-	.944	52	S TOP PAR	-.124+/-	.064
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.988+/-	.909
25	N WV 102'	203.823+/-	7.442	54	S TOP VER	-.208+/-	.262
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.080+/-	.264
27	N Gnd Temp	90.559+/-	1.836	58	S GND PER	-.102+/-	.046
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	205.169+/-	10.477	58	S GND PAR	-.107+/-	.048
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	62.189+/-	.504

31	N 74' Temp	92.539+/-	1.903	DEGR F	60	S GND VER	- .109+/-	.059	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	8.584+/-	3.162	W/m**2
35	N HA 74'	4.086+/-	2.872	mph	64	S VA 55'	-.007+/-	.270	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	2.90+/- .93	209.2+/- 15.7	3.2+/- 15.2			
02	17	19	21	2.19+/- .84	200.6+/- 21.6	.3+/- 22.6			
03	38	40	42	.45+/- .35	94.0+/- 51.8	-26.8+/- 29.8			
04	41	43	45	1.76+/- 1.09	157.6+/- 42.8	-2.7+/- 19.1			
05	50	52	54	1.22+/- .79	168.0+/- 25.8	-13.0+/- 16.5			
06	56	58	60	.19+/- .05	46.5+/- 18.9	-32.6+/- 17.2			

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 1367 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	57.3	57	55.2	30	59.5	12	57.8	23	45.6
Cat2	39	56.8	159	57.7	156	59.1	78	57.8	39	45.4
Cat3	5	56.9	11	57.4	8	59.9	5	57.0	0	.0
Cat4	1	60.8	3	57.9	2	58.2	1	69.3	0	.0
Cat5	2	69.0	0	.0	2	63.0	3	59.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	59.2	12	56.6	37	61.0	27	55.7	4	43.0
Cat2	92	60.4	151	58.4	114	61.0	56	56.0	4	51.1
Cat3	8	62.7	37	58.2	19	60.6	7	58.9	1	45.5
Cat4	12	63.7	21	59.6	7	61.6	1	54.2	0	.0
Cat5	2	61.7	3	61.5	1	57.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.8	317	23.2	58.1	888	65.0	58.8	101	7.4	60.9	48	3.5	62.0	13	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.395+/- .912	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.291+/- .326	ppm	38	S BOT PER	.263+/- .413	mph
13	N TOP PAR	1.212+/- .881	mph	39	N VA 74'	-.013+/- .356	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	-.128+/- .160	mph
15	N TOP VER	.031+/- .624	mph	41	N GND PER	.891+/- 1.227	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.095+/- .270	mph
17	N BOT PER	1.992+/- .868	mph	43	N GND PAR	-.416+/- .727	mph
19	N BOT PAR	.663+/- .767	mph	45	N GND VER	-.108+/- .445	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.326+/- .147	ppm
21	N BOT VER	-.111+/- .586	mph	50	S TOP PER	1.015+/- .853	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.355+/- 1.017	mph	52	S TOP PAR	-.121+/- .080	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.977+/- .813	ppm
25	N WV 102'	203.552+/- 7.041	DEGR AZ	54	S TOP VER	-.188+/- .256	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.290+/- .178	ppm
27	N Gnd Temp	59.825+/- 2.854	DEGR F	56	S GND PER	-.117+/- .037	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	204.287+/- 10.009	DEGR AZ	58	S GND PAR	-.114+/- .049	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	63.231+/- .291	%
31	N 74' Temp	90.819+/- 2.252	DEGR F	60	S GND VER	-.105+/- .056	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.901+/- 3.783	W/m**2
35	N HA 74'	2.880+/- 2.960	mph	64	S VA 55'	-.001+/- .233	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	2.88+/- .94	206.4+/- 19.1	.7+/- 14.2			
02	17	19	21	2.32+/- .88	197.5+/- 19.6	-2.2+/- 19.0			
03	38	40	42	.48+/- .37	125.6+/- 48.0	-20.7+/- 26.8			
04	41	43	45	1.50+/- 1.00	154.9+/- 47.8	-3.2+/- 24.4			
05	50	52	54	1.08+/- .62	166.7+/- 27.3	-10.5+/- 20.1			
06	56	58	60	.21+/- .05	43.5+/- 18.0	-32.3+/- 16.7			

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 1267 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	56.4	41	54.4	26	59.3	12	56.9	25	46.1
Cat2	42	58.0	148	56.2	127	59.1	71	57.2	35	44.0
Cat3	2	63.3	11	58.5	8	60.2	8	59.3	0	.0
Cat4	4	63.0	3	58.0	5	60.5	4	54.9	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	58.5	13	55.0	33	61.2	24	57.4	3	47.4
Cat2	67	59.8	132	57.8	109	61.4	78	54.9	6	47.1
Cat3	11	61.7	26	58.8	13	60.3	2	49.2	0	.0
Cat4	7	64.4	13	61.3	10	64.8	3	54.8	0	.0
Cat5	2	64.5	13	61.9	1	65.0	1	62.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.5	299	23.7	57.4	815	64.6	59.4	81	6.4	61.4	49	3.9	62.4	17	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.891+/- 1.481	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.314+/- .537	ppm	38	S BOT PER	.530+/- .619	mph
13	N TOP PAR	.858+/- .980	mph	39	N VA 74'	-.133+/- .507	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	-.075+/- .376	mph
15	N TOP VER	.021+/- .703	mph	41	N GND PER	.741+/- 1.361	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.074+/- .354	mph
17	N BOT PER	2.035+/- 1.173	mph	43	N GND PAR	-.641+/- .826	mph
19	N BDT PAR	.290+/- .941	mph	45	N GND VER	-.022+/- .259	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.402+/- .171	ppm
21	N BOT VER	-.093+/- .675	mph	50	S TOP PER	1.381+/- 1.155	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.834+/- .702	ppm

23	N HA 102'	5.482+/-	1.350	mph	52	S TOP PAR	- .100+/-	.150	mph
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	198.021+/-	10.991	DEGR AZ	54	S TOP VER	- .186+/-	.415	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	4.273+/-	.257	ppm
27	N Gnd Temp	90.118+/-	2.619	DEGR F	56	S GND PER	- .114+/-	.044	ppm
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	198.155+/-	13.222	DEGR AZ	58	S GND PAR	- .100+/-	.145	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	64.159+/-	.787	%
31	N 74' Temp	91.314+/-	2.036	DEGR F	60	S GND VER	- .097+/-	.122	ppm
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	9.083+/-	2.988	W/m^2
35	N HA 74'	3.781+/-	2.558	mph	64	S VA 55'	.101+/-	.470	mph

UVW Vector Calculations					
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	3.10+/- 1.45	197.4+/- 22.9	.7+/- 18.7	
02	17 19 21	2.40+/- 1.10	186.1+/- 28.8	-.8+/- 21.7	
03	38 40 42	.77+/- .57	144.0+/- 47.7	-10.6+/- 30.3	
04	41 43 45	1.53+/- 1.10	136.7+/- 44.6	-5.0+/- 19.6	
05	50 52 54	1.47+/- 1.15	168.0+/- 28.5	-11.0+/- 21.3	
06	56 58 60	.23+/- .12	44.1+/- 21.8	-30.1+/- 20.5	

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 5354 vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	184	57.4	172	55.5	130	60.0	48	57.2	107	46.4
Cat2	197	59.0	597	57.4	547	59.8	322	58.3	148	45.8
Cat3	12	60.5	42	59.8	44	60.7	29	59.2	7	45.5
Cat4	13	63.7	18	59.4	23	60.6	11	59.6	4	38.5
Cat5	3	68.3	3	65.0	3	65.0	5	59.3	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	286	58.9	44	55.9	135	61.3	97	56.0	24	48.2
Cat2	313	60.5	597	58.6	463	61.4	279	55.8	29	48.2
Cat3	40	62.1	127	59.0	54	60.6	19	55.9	1	45.5
Cat4	30	65.0	59	59.9	29	63.3	5	53.1	0	0
Cat5	14	62.8	28	61.9	10	66.2	2	61.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	1227	22.9	58.3	3492	65.2	59.5	375	7.0	60.9	192	3.6	63.1	68	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.504+/- 1.140	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.326+/- .516	ppm	38	S BOT PER	.405+/- .582	mph
13	N TOP PAR	.969+/- .943	mph	39	N VA 74'	-.052+/- .431	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.095+/- .226	mph
15	N TOP VER	.063+/- .681	mph	41	N GND PER	.879+/- 1.292	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.123+/- .323	mph
17	N BOT PER	1.981+/- 1.028	mph	43	N GND PAR	-.547+/- .938	mph
19	N BOT PAR	.441+/- .873	mph	45	N GND VER	-.058+/- .367	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.358+/- .980	ppm
21	N BOT VER	-.032+/- .692	mph	50	S TOP PER	1.345+/- .980	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.467+/- .520	ppm
23	N HA 102'	5.332+/- 1.176	mph	52	S TOP PAR	-.111+/- .084	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.946+/- .865	ppm
25	N WV 102'	199.348+/- 9.998	DEGR AZ	54	S TOP VER	-.219+/- .338	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	4.166+/- .259	ppm
27	N Gnd Tempo	90.220+/- 2.343	DEGR F	56	S GND PER	- .111+/- .045	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	200.361+/- 12.871	DEGR AZ	58	S GND PAR	-.119+/- .123	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	62.681+/- 1.247	%
31	N 74' Temp	91.672+/- 2.271	DEGR F	60	S GND VER	-.107+/- .081	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.219+/- 3.137	W/m^2
35	N HA 74'	3.372+/- 2.912	mph	64	S VA 55'	-.001+/- .350	mph

UVW Vector Calculations					
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	2.94+/- 1.12	201.1+/- 21.1	2.3+/- 17.0	
02	17 19 21	2.33+/- 1.00	191.3+/- 25.4	0+/- 21.3	
03	38 40 42	.63+/- .53	137.6+/- 48.8	-18.5+/- 26.9	
04	41 43 45	1.61+/- 1.08	148.9+/- 48.8	-3.9+/- 21.0	
05	50 52 54	1.42+/- .97	189.4+/- 24.8	-11.2+/- 17.7	
06	56 58 60	.22+/- .12	45.9+/- 18.4	-32.1+/- 17.4	

Average for 15 minute period ending at 21:15:00  
Traffic Data  
Total Traffic = 1235 vehicles averaging 57.7 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Sub-columns: No., Spd. Rows: Cat1, Cat2, Cat3, Cat4, Cat5.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Sub-columns: No., Spd. Rows: Cat1, Cat2, Cat3, Cat4, Cat5.

Vehicle Classification Summary

Summary table with columns: Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Main table for Regular Channels with columns: Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N DAsibi CO, etc.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg).

Average for 15 minute period ending at 21:30:00  
Traffic Data  
Total Traffic = 1325 vehicles averaging 57.6 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Sub-columns: No., Spd. Rows: Cat1, Cat2, Cat3, Cat4, Cat5.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Sub-columns: No., Spd. Rows: Cat1, Cat2, Cat3, Cat4, Cat5.

Vehicle Classification Summary

Summary table with columns: Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Main table for Regular Channels with columns: Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N DAsibi CO, etc.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg).

01	11	13	15	5.53+/-	2.25	177.0+/-	18.9	1.6+/-	14.5
02	17	19	21	4.80+/-	2.18	166.5+/-	20.5	.9+/-	14.4
03	38	40	42	2.31+/-	1.43	166.7+/-	30.6	-6.4+/-	19.4
04	41	43	45	2.88+/-	1.39	147.7+/-	37.5	-2.0+/-	18.2
05	50	52	54	2.89+/-	1.39	175.0+/-	6.6	-3.2+/-	22.3
06	56	58	60	.68+/-	.84	54.1+/-	36.5	-25.8+/-	26.9

Average for 15 minute period ending at 21:45:00  
 Traffic Data  
 Total Traffic = 1194 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	57.8	30	55.0	30	58.4	9	57.1	20	46.7
Cat2	52	58.8	145	56.7	148	58.3	58	58.7	30	44.7
Cat3	10	58.7	14	58.8	5	62.4	9	58.6	1	47.7
Cat4	2	64.6	3	60.2	7	63.8	2	55.8	2	49.5
Cat5	1	63.9	2	65.0	1	62.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	57.1	4	54.3	45	60.4	17	54.4	5	44.9
Cat2	62	60.0	130	58.1	97	59.6	75	55.9	6	41.0
Cat3	5	60.5	28	58.4	5	61.9	5	55.6	0	.0
Cat4	7	63.6	9	60.4	3	61.6	1	67.4	0	.0
Cat5	1	61.9	4	63.0	2	66.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	262	21.9	57.6	803	67.3	59.1	82	6.9	61.3	36	3.0	64.0	11	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	4.917+/-	2.022	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CD	1.340+/-	.424	38	S BOT PER	1.750+/-	1.580	mph
13	N TOP PAR	.326+/-	1.624	39	N VA 74'	-.176+/-	1.008	mph
14	N Dasibi 03	*****+/-*****		40	S BOT PAR	-.012+/-	.944	mph
15	N TOP VER	.003+/-	1.173	41	N GND PER	1.490+/-	1.687	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.198+/-	.832	mph
17	N BOT PER	3.978+/-	2.026	43	N GND PAR	-.785+/-	1.338	mph
18	N BOT PAR	-.219+/-	1.510	45	N GND VER	-.123+/-	.613	mph
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.141+/-	.079	ppm
21	N BOT VER	-.069+/-	1.126	50	S TOP PER	2.960+/-	1.847	mph
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.801+/-	.159	ppm
23	N HA 102'	8.701+/-	2.123	52	S TOP PAR	.024+/-	.617	mph
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.007+/-	.631	ppm
25	N WV 102'	188.563+/-	12.907	54	S TOP VER	-.310+/-	1.171	mph
26	N MMHC/Byro	*****+/-*****		55	N Ecolyzer-4	3.287+/-	.218	ppm
27	N Gnd Temp	88.057+/-	2.238	56	S GND PER	-.062+/-	.558	mph
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	185.788+/-	15.998	58	S GND PAR	-.526+/-	1.117	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	82.283+/-	.530	%
31	N 74' Temp	86.937+/-	2.547	60	S GND VER	-.117+/-	.302	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	8.357+/-	3.312	W/m^2
35	N HA 74'	5.607+/-	3.138	64	S VA 55'	.158+/-	1.148	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.39+/- 1.91	185.2+/- 20.7	3.3+/- 18.4
02	17 19 21	4.44+/- 1.96	179.7+/- 23.7	2.3+/- 19.3
03	38 40 42	2.16+/- 1.56	173.7+/- 34.2	-2.7+/- 24.9
04	41 43 45	2.37+/- 1.48	153.6+/- 44.1	-1.5+/- 21.4
05	50 52 54	3.20+/- 1.95	177.9+/- 8.9	-.8+/- 22.5
06	56 58 60	.76+/- 1.17	59.4+/- 31.3	-22.6+/- 22.8

Average for 15 minute period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 1106 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	58.0	44	54.0	38	59.7	14	57.0	25	44.8
Cat2	61	59.0	139	57.0	120	60.0	71	58.8	26	46.0
Cat3	2	63.2	5	60.4	15	60.3	5	61.7	2	54.2
Cat4	0	.0	5	60.1	3	63.4	3	60.5	1	42.4
Cat5	1	60.1	0	.0	0	.0	1	62.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	59.1	4	55.6	37	60.7	15	54.6	3	46.0
Cat2	75	60.2	120	58.1	75	61.5	48	54.5	6	45.5
Cat3	7	62.6	17	55.7	8	60.0	3	56.2	0	.0
Cat4	2	58.8	11	60.9	3	59.1	2	60.1	0	.0
Cat5	1	61.8	2	62.9	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	265	24.0	57.9	741	67.0	59.1	64	5.8	60.0	31	2.8	62.1	5	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	3.523+/-	2.239	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CD	1.175+/-	.282	38	S BOT PER	1.249+/-	1.167	mph
13	N TOP PAR	.615+/-	1.523	39	N VA 74'	-.205+/-	1.012	mph
14	N Dasibi 03	*****+/-*****		40	S BOT PAR	-.134+/-	.949	mph
15	N TOP VER	.052+/-	1.221	41	N GND PER	1.067+/-	1.697	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.277+/-	.576	mph
17	N BOT PER	2.833+/-	1.958	43	N GND PAR	-.310+/-	1.725	mph
18	N BOT PAR	.330+/-	1.459	45	N GND VER	-.077+/-	.494	mph
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.137+/-	.045	ppm
21	N BOT VER	-.063+/-	1.240	50	S TOP PER	2.061+/-	1.385	mph
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.833+/-	.169	ppm
23	N HA 102'	6.329+/-	2.019	52	S TOP PAR	-.083+/-	.270	mph
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.105+/-	.424	ppm
25	N WV 102'	191.184+/-	14.724	54	S TOP VER	-.406+/-	.821	mph
26	N MMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.643+/-	.233	ppm
27	N Gnd Temp	86.155+/-	2.037	56	S GND PER	-.105+/-	.047	mph
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	189.170+/-	17.437	58	S GND PAR	-.094+/-	.453	mph

30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	83.227+/-	.287	%
31	N 74' Temp	87.588+/- 2.052	DEGR F	60	S GND VER	-.160+/-	.314	mph
32	N CD2/Byron	*****+/-*****	ppm	81	N Solar Rad	10.582+/-	8.833	W/m**2
35	N HA 74'	4.488+/- 2.873	mph	84	S VA 55'	-.042+/-	.798	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	4.15+/- 2.04	192.1+/- 27.5	5.2+/- 22.2		
02	17	19	21	3.43+/- 1.92	186.9+/- 30.8	3.0+/- 24.3		
03	38	40	42	1.68+/- 1.17	176.5+/- 40.8	-7.7+/- 24.9		
04	41	43	45	2.26+/- 1.49	153.0+/- 52.2	-.3+/- 20.7		
05	50	52	54	2.28+/- 1.34	171.3+/- 30.4	-3.8+/- 27.1		
06	56	58	60	.37+/- .40	42.4+/- 37.1	-32.9+/- 19.3		

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 4860 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	138	57.4	161	54.5	130	58.7	35	56.5	85	46.3
Cat2	219	58.6	556	56.7	555	58.6	274	57.7	110	45.2
Cat3	20	59.1	35	60.0	43	60.7	32	59.8	5	49.4
Cat4	6	59.2	23	60.4	18	61.3	9	58.3	3	47.2
Cat5	2	62.0	2	65.0	2	61.1	2	61.2	1	89.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	265	58.2	21	54.7	150	60.4	75	54.6	25	45.1
Cat2	290	60.0	536	57.9	420	59.9	266	56.0	25	46.8
Cat3	29	61.2	114	57.5	34	60.4	19	55.6	0	.0
Cat4	25	63.7	44	60.4	14	62.3	5	60.5	1	45.0
Cat5	8	63.9	22	61.6	5	67.1	3	57.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	1085	22.3	57.8	3251	66.9	58.9	331	6.8	60.7	148	3.0	63.0	45	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.387+/- 2.166	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	1.521+/- .484	ppm	38	S BDT PER	1.455+/- 1.394	mph
13	N TOP PAR	.093+/- 1.549	mph	39	N VA 74'	-.233+/- 1.035	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	-.122+/- 1.851	mph
15	N TOP VER	.029+/- 1.184	mph	41	N GND PER	1.452+/- 1.670	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	-.222+/- .687	mph
17	N BDT PER	3.524+/- 2.039	mph	43	N GND PAR	-.793+/- 1.535	mph
19	N BDT PAR	-.349+/- 1.500	ppm	45	N GND VER	-.108+/- .562	ppm
20	N ND2/TECD	*****+/-*****	ppm	48	N Ecolyzer-1	-.215+/- .179	ppm
21	N BDT VER	-.053+/- 1.145	ppm	50	S TOP PER	2.381+/- 1.527	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	-.921+/- .282	ppm
23	N HA 102'	7.365+/- 2.302	mph	52	S TOP PAR	-.107+/- .425	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.171+/- .633	ppm
25	N WV 102'	184.645+/- 13.808	DEGR AZ	54	S TOP VER	-.343+/- .944	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.165+/- .422	ppm
27	N Gnd Temp	87.738+/- 2.400	DEGR F	56	S GND PER	-.054+/- .447	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-6	*****+/-*****	ppm
29	N WV 74'	183.908+/- 17.146	DEGR AZ	58	S GND PAR	-.300+/- .759	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	79.648+/- 4.416	%
31	N 74' Temp	88.468+/- 2.605	DEGR F	60	S GND VER	-.136+/- .275	ppm
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.356+/- 5.342	W/m**2
35	N HA 74'	4.901+/- 3.294	mph	64	S VA 55'	.034+/- .904	mph

UVW Vector Calculations

UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	4.85+/- 2.06	182.0+/- 22.4	3.5+/- 18.3		
02	17	19	21	4.03+/- 1.99	175.2+/- 25.6	-2.3+/- 20.1		
03	38	40	42	1.85+/- 1.36	167.4+/- 39.6	-5.8+/- 24.7		
04	41	43	45	2.47+/- 1.45	147.1+/- 45.3	-1.1+/- 18.7		
05	50	52	54	2.59+/- 1.56	173.8+/- 20.3	-2.8+/- 24.6		
06	56	58	60	.54+/- .81	50.8+/- 33.9	-27.7+/- 22.3		



22:04:06 -- Trying channel 37 again.  
 22:07:51 -- Turning off CH 37 again. MWH  
 22:17:57 -- CHECKING THE PROBLEM WITH CH 35. MWH  
 22:22:47 -- CHAN 35 TURNED OFF JJK  
 22:28:15 -- WILL MOMENTARILY LOSE ALL TEXAS ELECTRONICS MET GEAR JJK  
 22:29:42 -- THE MET GEAR IS BACK NOW JJK

Average for 15 minute period ending at 22:15:00  
 Traffic Data  
 Total Traffic = 1119 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	56.8	26	55.7	39	58.2	10	56.6	27	46.7
Cat2	46	57.8	138	56.5	119	59.6	69	57.2	30	45.1
Cat3	5	60.3	5	59.4	8	63.3	3	59.5	1	46.6
Cat4	1	58.1	8	61.2	4	59.8	2	59.3	0	0
Cat5	1	66.8	0	0	1	65.6	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	59.5	4	57.7	36	60.1	20	56.6	9	47.0
Cat2	67	61.5	129	58.2	98	60.2	51	55.1	5	49.4
Cat3	3	61.6	21	59.8	8	62.4	5	55.0	0	0
Cat4	6	63.3	10	60.8	5	63.4	3	56.7	1	44.0
Cat5	2	67.8	6	63.8	0	0	1	55.9	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.6	257	23.0	57.7	752	67.2	60.1	59	5.3	60.6	40	3.6	64.3	11	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.087+/- 2.184	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.961+/- .337	ppm	38	S BOT PER	.039+/- 1.166	mph
13	N TOP PAR	1.348+/- 1.381	mph	39	N VA 74'	-.235+/- 1.203	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	1.313+/- 1.173	mph
15	N TOP VER	-.048+/- 1.271	mph	41	N GND PER	.770+/- 2.046	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.315+/- .784	mph
17	N BOT PER	1.724+/- 2.017	mph	43	N GND PAR	-.017+/- 2.077	mph
19	N BOT PAR	.924+/- 1.499	mph	45	N GND VER	-.019+/- .449	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.196+/- .183	ppm
21	N BOT VER	-.077+/- 1.192	mph	50	S TOP PER	.896+/- 1.078	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.899+/- .254	ppm
23	N HA 102'	4.095+/- 1.736	ppm	52	S TOP PAR	1.049+/- .597	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.036+/- .646	ppm
25	N WV 102'	218.375+/- 24.804	DEGR AZ	54	S TOP VER	-.422+/- .784	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.449+/- .278	ppm
27	N Gnd Temp	87.198+/- 2.003	DEGR F	56	S GND PER	-.238+/- .458	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	221.323+/- 32.045	DEGR AZ	58	S GND PAR	.547+/- .867	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.667+/- .335	%
31	N 74' Temp	86.051+/- 2.240	DEGR F	60	S GND VER	-.155+/- .260	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	15.578+/- 8.807	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	-.522+/- .821	mph

UVW		Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15		3.44+/- 1.69	221.1+/- 38.8	1.8+/- 26.9
02	17 19 21		3.03+/- 1.57	212.5+/- 43.7	1.1+/- 29.2
03	38 40 42		2.03+/- 1.03	268.5+/- 48.0	-8.5+/- 24.3
04	41 43 45		2.53+/- 1.68	198.5+/- 55.9	-.9+/- 14.2
05	50 52 54		1.47+/- .98	169.5+/- 48.1	-15.7+/- 35.3
06	56 58 60		.92+/- .90	333.7+/- 50.0	-21.2+/- 21.3

Average for 15 minute period ending at 22:30:00  
 Traffic Data  
 Total Traffic = 1070 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	57.0	29	54.8	26	57.2	15	56.9	13	46.2
Cat2	34	56.7	118	56.7	110	60.4	59	58.1	24	45.5
Cat3	5	57.6	8	59.9	9	64.7	2	50.6	0	0
Cat4	2	65.3	3	55.5	6	61.9	1	65.9	1	45.2
Cat5	0	0	0	0	1	63.5	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	59.1	3	57.5	33	59.6	17	55.6	7	43.3
Cat2	62	61.2	125	58.0	95	59.9	57	55.8	10	40.7
Cat3	8	60.8	35	58.8	10	58.6	1	65.1	1	35.9
Cat4	14	61.5	12	61.6	8	57.6	2	58.2	0	0
Cat5	0	0	6	61.2	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.6	240	22.4	57.8	694	64.8	59.3	79	7.4	60.3	50	4.7	61.5	7	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.310+/- 1.130	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	1.235+/- .436	ppm	38	S BOT PER	.179+/- .477	mph
13	N TOP PAR	2.537+/- 1.377	mph	39	N VA 74'	-.091+/- .827	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.090+/- .501	mph
15	N TOP VER	.280+/- .982	mph	41	N GND PER	.235+/- 2.009	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.187+/- .254	mph
17	N BOT PER	.619+/- 1.146	mph	43	N GND PAR	1.376+/- 1.270	mph
19	N BOT PAR	2.379+/- 1.312	mph	45	N GND VER	-.021+/- .357	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.242+/- .257	ppm
21	N BOT VER	.241+/- .721	mph	50	S TOP PER	.223+/- .436	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.921+/- .409	ppm
23	N HA 102'	3.127+/- 1.087	ppm	52	S TOP PAR	-.115+/- .059	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.091+/- .815	ppm
25	N WV 102'	244.494+/- 24.310	DEGR AZ	54	S TOP VER	-.281+/- .426	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.341+/- .263	ppm
27	N Gnd Temp	85.478+/- 2.328	DEGR F	56	S GND PER	-.108+/- .040	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	249.729+/- 25.355	DEGR AZ	58	S GND PAR	-.099+/- .144	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.097+/- .338	%
31	N 74' Temp	85.963+/- 2.067	DEGR F	60	S GND VER	-.107+/- .055	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	23.571+/- 18.695	W/m**2

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.04+/- 1.18	259.7+/- 30.9	4.9+/- 20.8		
02	17 19 21	2.90+/- 1.10	252.9+/- 30.0	5.9+/- 16.0		
03	38 40 42	.84+/- .44	128.7+/- 55.7	-22.2+/- 19.9		
04	41 43 45	2.41+/- 1.37	251.6+/- 45.7	-1.9+/- 14.3		
05	50 52 54	.58+/- .41	100.7+/- 49.9	-30.2+/- 35.1		
06	56 58 60	.22+/- .11	45.5+/- 20.7	-31.3+/- 14.6		

Average for 15 minute period ending at 22:45:00  
 Traffic Data  
 Total Traffic = 365 vehicles averaging 57.9 mph

Westbound Traffic											
Radar 1		Radar 3		Radar 5		Radar 7		Radar 9			
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	26 57.0	34 54.8	33 57.7	14 55.9	25 46.4						
Cat2	25 57.9	114 57.0	93 59.5	61 57.7	23 45.0						
Cat3	5 57.9	2 56.0	6 60.8	7 59.8	0 .0						
Cat4	1 63.8	4 62.7	6 65.2	0 .0	1 67.0						
Cat5	1 77.7	0 .0	1 60.4	0 .0	0 .0						

Eastbound Traffic											
Radar 2		Radar 4		Radar 6		Radar 8		Radar 10			
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	62 59.3	6 57.4	28 59.1	20 55.8	6 46.7						
Cat2	68 60.7	125 58.7	82 62.0	39 55.2	1 54.3						
Cat3	4 60.0	17 59.4	4 60.6	2 57.4	0 .0						
Cat4	2 67.0	9 60.1	2 57.1	0 .0	0 .0						
Cat5	1 65.8	4 60.2	0 .0	1 55.1	0 .0						

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	254	26.3	58.3	631	65.4	59.4	47	4.9	62.5	25	2.6	62.4	8	.8

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	3.052+/- 1.465	mph	37	N VA 102'	*****+/-*****	mph				
12	N Dasibi CO	1.086+/- .295	ppm	38	S BOT PER	1.410+/- 1.259	mph				
13	N TOP PAR	2.534+/- 1.313	mph	39	N VA 74'	-.133+/- 1.073	mph				
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.295+/- .883	mph				
15	N TOP VER	.018+/- .988	mph	41	N GND PER	1.374+/- 1.348	mph				
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.255+/- .658	mph				
17	N BOT PER	3.241+/- 1.271	mph	43	N GND PAR	.599+/- 1.403	mph				
19	N BOT PAR	2.064+/- 1.145	mph	45	N GND VER	-.078+/- .673	ppm				
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	.122+/- .038	ppm				
21	N BOT VER	-.027+/- .793	mph	50	S TOP PER	2.266+/- 1.403	ppm				
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	-.718+/- .125	ppm				
23	N HA 102'	5.658+/- 1.700	mph	52	S TOP PAR	-.082+/- .305	mph				
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	-.725+/- .391	ppm				
25	N WV 102'	213.700+/- 15.740	DEGR AZ	54	S TOP VER	-.445+/- .805	mph				
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.300+/- .191	ppm				
27	N Gnd Temp	87.927+/- 3.208	DEGR F	56	S GND PER	-.059+/- .454	mph				
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm				
29	N WV 74'	215.704+/- 16.707	DEGR AZ	58	S GND PAR	-.203+/- .725	mph				
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	82.088+/- .397	mph				
31	N 74' Temp	87.458+/- 2.783	DEGR F	60	S GND VER	-.182+/- .293	mph				
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	35.970+/- 23.700	W/m**2				
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	-.140+/- .936	mph				

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.29+/- 1.45	220.8+/- 18.5	.6+/- 14.3		
02	17 19 21	4.08+/- 1.26	212.3+/- 16.9	.5+/- 12.9		
03	38 40 42	1.89+/- 1.22	188.5+/- 41.3	-2.3+/- 30.3		
04	41 43 45	2.23+/- 1.18	201.8+/- 43.0	-4.5+/- 23.9		
05	50 52 54	2.47+/- 1.40	175.5+/- 19.4	-7.6+/- 25.5		
06	56 58 60	.54+/- .79	44.7+/- 38.8	-29.4+/- 24.4		

Average for 15 minute period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 356 vehicles averaging 57.7 mph

Westbound Traffic											
Radar 1		Radar 3		Radar 5		Radar 7		Radar 9			
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	21 57.9	40 55.7	30 59.1	14 57.4	15 46.1						
Cat2	36 57.9	97 56.9	113 59.0	46 58.0	18 45.4						
Cat3	0 .0	2 56.4	5 59.8	4 61.3	1 49.5						
Cat4	0 .0	2 57.8	1 62.7	1 65.4	0 .0						
Cat5	0 .0	0 .0	0 .0	0 .0	1 40.5						

Eastbound Traffic											
Radar 2		Radar 4		Radar 6		Radar 8		Radar 10			
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	52 58.5	4 55.1	23 58.8	16 55.8	4 46.1						
Cat2	42 60.2	105 58.2	71 60.4	41 56.5	3 43.5						
Cat3	4 58.8	21 61.2	5 66.6	2 55.6	1 40.4						
Cat4	4 60.7	7 56.9	2 62.1	1 61.1	0 .0						
Cat5	0 .0	1 60.2	0 .0	0 .0	0 .0						

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	219	25.6	57.9	672	66.8	60.3	45	5.3	59.4	18	2.1	50.3	2	.2

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	3.724+/- 1.653	mph	37	N VA 102'	*****+/-*****	mph				
12	N Dasibi CO	.848+/- .241	ppm	38	S BOT PER	1.501+/- 1.036	mph				
13	N TOP PAR	1.423+/- 1.247	mph	39	N VA 74'	-.076+/- .810	mph				
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.207+/- .834	mph				
15	N TOP VER	.001+/- 1.140	mph	41	N GND PER	1.553+/- 1.916	mph				
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.189+/- .810	mph				
17	N BOT PER	3.353+/- 1.823	mph	43	N GND PAR	-.084+/- 1.107	mph				
19	N BOT PAR	.941+/- 1.102	mph	45	N GND VER	-.118+/- .522	ppm				
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	-.121+/- .035	ppm				
21	N BOT VER	-.081+/- 1.059	mph	50	S TOP PER	2.761+/- 1.301	ppm				
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	-.674+/- .100	ppm				
23	N HA 102'	6.508+/- 1.980	mph	52	S TOP PAR	-.050+/- .500	mph				
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.684+/- .367	ppm				

25	N WV 102'	189.153+/-	12.046	DEGR AZ	54	S TOP VER	-.371+/-	.636	mph
26	N NMHC/Byron	*****+/-*****		ppm	55	N EcoLyzer-4	2.204+/-	.205	ppm
27	N Gnd Temp	84.462+/-	3.377	DEGR F	56	S GND PER	-.089+/-	.185	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	196.723+/-	15.542	DEGR AZ	58	S GND PAR	-.160+/-	.361	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	82.853+/-	.364	%
31	N 74' Temp	85.738+/-	3.204	DEGR F	60	S GND VER	-.153+/-	.174	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	48.504+/-	23.250	W/m**2
35	N HA 74'	*****+/-*****		mph	64	S VA 55'	-.024+/-	.774	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg	Angle (Deg)	Elevation Angle (Deg)	
01	11 13 15	4.39+/-	1.52	202.4+/-	19.8	2.9+/-	19.0
02	17 19 21	3.84+/-	1.53	194.8+/-	21.2	2.4+/-	20.6
03	38 40 42	1.91+/-	1.09	185.7+/-	28.9	-6.4+/-	25.8
04	41 43 45	2.24+/-	1.59	180.8+/-	44.9	-4.7+/-	19.4
05	50 52 54	2.94+/-	1.33	177.3+/-	8.6	-4.3+/-	19.7
06	56 58 60	.34+/-	.36	48.6+/-	28.9	-31.2+/-	18.4

Average for hourly period ending at 23:00:00  
 Traffic Data  
 Total Traffic : 4010 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	111	57.1	129	55.2	128	58.1	53	56.7	80	48.4
Cat 2	141	57.6	467	56.8	435	59.6	235	57.7	95	45.2
Cat 3	15	58.6	17	58.9	28	62.6	16	58.9	2	48.0
Cat 4	4	63.1	17	60.2	17	62.6	4	62.5	2	56.1
Cat 5	2	72.2	0	.0	3	63.1	0	.0	1	40.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	233	59.1	17	56.9	120	59.5	73	55.9	26	45.8
Cat 2	239	61.0	484	58.3	348	60.6	188	55.6	19	44.2
Cat 3	19	60.3	94	59.7	27	61.5	10	56.6	2	38.1
Cat 4	26	62.2	38	60.2	18	59.7	6	57.9	1	44.0
Cat 5	3	67.2	17	61.8	0	.0	2	55.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	970	24.2	57.9	2649	66.1	59.7	230	5.7	60.7	133	3.3	62.1	28	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.293+/-	2.089	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CO	1.033+/-	.364	38	S BOT PER	.782+/-	1.229	mph
13	N TOP PAR	1.960+/-	1.445	39	N VA 74'	-.088+/-	.988	mph
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	.476+/-	1.005	mph
15	N TOP VER	.063+/-	1.102	41	N GND PER	.983+/-	1.916	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.236+/-	.666	mph
17	N BOT PER	2.234+/-	1.917	43	N GND PAR	.511+/-	1.602	mph
19	N BOT PAR	1.577+/-	1.428	45	N GND VER	-.058+/-	.514	mph
20	N ND2/TECO	*****+/-*****		49	N EcoLyzer-1	.170+/-	.168	ppm
21	N BOT VER	.014+/-	.968	50	S TOP PER	1.534+/-	1.511	mph
22	N ND/TECO	*****+/-*****		51	N EcoLyzer-2	.802+/-	.276	ppm
23	N HA 102'	4.847+/-	2.114	52	S TOP PAR	-.049+/-	.422	mph
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	.884+/-	.812	ppm
25	N WV 102'	215.350+/-	25.056	54	S TOP VER	-.375+/-	.734	mph
26	N NMHC/Byron	*****+/-*****		55	N EcoLyzer-4	2.323+/-	.253	ppm
27	N Gnd Temp	86.266+/-	3.049	56	S GND PER	-.126+/-	.341	ppm
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	220.197+/-	29.044	58	S GND PAR	.021+/-	.703	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	82.926+/-	.666	%
31	N 74' Temp	86.553+/-	2.839	60	S GND VER	-.149+/-	.217	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	30.908+/-	22.838	W/m**2
35	N HA 74'	*****+/-*****		64	S VA 55'	-.232+/-	.796	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg	Angle (Deg)	Elevation Angle (Deg)	
01	11 13 15	3.79+/-	1.57	225.0+/-	33.6	2.5+/-	20.7
02	17 19 21	3.46+/-	1.46	217.3+/-	35.2	2.5+/-	20.6
03	38 40 42	1.62+/-	1.14	197.5+/-	51.0	-9.8+/-	26.3
04	41 43 45	2.35+/-	1.47	208.2+/-	50.6	-3.0+/-	18.4
05	50 52 54	1.87+/-	1.43	184.5+/-	42.8	-14.5+/-	31.4
06	56 58 60	.51+/-	.68	36.3+/-	42.0	-28.3+/-	20.3

23:33:02 -- This is the last data block of this run. CH 35 must be repaired in the morning.  
 Average for 15 minute period ending at 23:15:00

Traffic Data  
 Total Traffic = 806 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	15	54.0	27	53.5	18	59.1	8	54.7	16	45.3
Cat2	20	55.5	89	57.2	89	59.4	46	56.7	18	44.9
Cat3	2	59.8	4	64.8	7	60.3	0	0	1	48.6
Cat4	0	0	2	60.7	0	0	1	65.4	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.6	9	56.8	41	50.2	11	56.0	0	0
Cat2	49	62.0	107	58.1	67	60.5	30	56.2	4	46.4
Cat3	3	62.0	22	59.9	4	61.1	7	56.7	0	0
Cat4	4	67.5	8	60.5	4	63.1	2	57.9	0	0
Cat5	0	0	2	65.1	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	213	26.4	57.9	520	64.5	59.9	50	6.2	62.3	21	2.6	65.1	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.191+/- 1.224	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	1.006+/- .260	ppm	38	S BOT PER	-.961+/- .844	mph
13	N TOP PAR	1.781+/- 1.301	ppm	39	N VA 74'	-.219+/- .652	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.277+/- .675	mph
15	N TOP VER	.080+/- .881	mph	41	N GND PER	1.118+/- 1.262	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.166+/- .493	mph
17	N BOT PER	2.758+/- 1.370	ppm	43	N GND PAR	.861+/- 1.168	mph
19	N BOT PAR	1.435+/- 1.110	ppm	45	N GND VER	-.051+/- .510	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.121+/- .035	ppm
21	N BOT VER	.019+/- .808	mph	50	S TOP PER	2.093+/- 1.074	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.746+/- .142	ppm
23	N HA 102'	5.805+/- 1.354	ppm	52	S TOP PAR	-.117+/- .076	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.866+/- .463	ppm
25	N WV 102'	202.352+/- 12.662	DEGR A2	54	S TOP VER	-.183+/- .543	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.045+/- .200	ppm
27	N Gnd Temp	83.368+/- 4.731	DEGR F	56	S GND PER	-.115+/- .066	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	203.756+/- 15.161	DEGR A2	58	S GND PAR	-.073+/- .305	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.179+/- .209	%
31	N 74' Temp	85.530+/- 3.552	DEGR F	60	N GND VER	-.114+/- .160	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	92.104+/- 61.737	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	.032+/- .808	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	3.97+/- 1.23	209.7+/- 19.7	2.2+/- 13.9
02	17 19 21	3.40+/- 1.33	205.7+/- 24.2	2.4+/- 19.6
03	38 40 42	1.31+/- .83	190.0+/- 43.7	-3.8+/- 20.9
04	41 43 45	2.00+/- 1.08	218.2+/- 42.5	1.5+/- 18.9
05	50 52 54	2.16+/- 1.08	174.7+/- 13.6	-3.1+/- 14.2
06	56 58 60	.30+/- .30	34.7+/- 33.5	-32.1+/- 20.3

Average for 15 minute period ending at 23:30:00  
Traffic Data  
 Total Traffic = 707 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	13	54.4	26	55.7	19	59.1	8	53.9	24	47.4
Cat2	11	55.8	76	57.2	85	59.7	33	57.0	18	44.3
Cat3	2	53.0	3	59.5	6	62.7	1	53.7	1	41.2
Cat4	0	0	2	58.9	1	55.5	1	57.8	0	0
Cat5	0	0	1	59.8	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	60.6	1	61.1	32	60.6	9	57.4	4	47.9
Cat2	39	62.0	98	59.1	60	61.1	36	56.5	2	49.4
Cat3	4	64.0	16	61.3	3	61.5	1	65.0	1	45.5
Cat4	1	58.2	6	64.6	5	62.8	1	49.9	1	22.9
Cat5	0	0	1	64.8	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	191	27.0	58.3	458	64.8	60.2	38	5.4	59.1	18	2.5	62.3	2	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.426+/- 1.202	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	-.975+/- .211	ppm	38	S BOT PER	.283+/- .578	mph
13	N TOP PAR	2.165+/- .807	ppm	39	N VA 74'	-.174+/- .704	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	-.022+/- .374	mph
15	N TOP VER	-.004+/- .914	mph	41	N GND PER	.956+/- 1.502	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.192+/- .297	mph
17	N BOT PER	2.407+/- 1.053	ppm	43	N GND PAR	.475+/- .771	mph
19	N BOT PAR	1.579+/- .703	ppm	45	N GND VER	-.046+/- .445	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.122+/- .006	ppm
21	N BOT VER	-.004+/- .897	mph	50	S TOP PER	1.219+/- .781	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.754+/- .134	ppm
23	N HA 102'	4.622+/- .927	ppm	52	S TOP PAR	-.134+/- .084	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.854+/- .446	ppm
25	N WV 102'	215.716+/- 7.853	DEGR A2	54	S TOP VER	-.220+/- .430	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.055+/- .196	ppm
27	N Gnd Temp	84.618+/- 4.329	DEGR F	56	S GND PER	-.115+/- .051	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	218.548+/- 11.451	DEGR A2	58	S GND PAR	-.097+/- .140	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	84.058+/- .531	%
31	N 74' Temp	84.279+/- 2.699	DEGR F	60	S GND VER	-.115+/- .062	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	53.001+/- 25.358	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	-.007+/- .445	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
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01	11	13	15	3.53+/- 1.02	223.8+/- 17.6	1.2+/- 17.8
02	17	19	21	3.06+/- 1.06	218.4+/- 13.3	7+/- 15.8
03	38	40	42	1.84+/- 1.10	145.9+/- 51.7	-22.1+/- 27.1
04	41	43	45	1.72+/- 1.10	207.0+/- 46.9	-5.0+/- 19.0
05	50	52	54	1.32+/- .79	170.7+/- 22.9	-10.4+/- 18.5
06	56	58	60	.23+/- .10	41.7+/- 25.2	-32.7+/- 16.2

Average for 15 minute period ending at 23:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi C0	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	N R01 Hum	*****+/-*****	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N R01 Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	69.38+/-*****	-11.8+/- 8.4	74.5+/-*****
02	17 19 21	59.71+/-*****	-10.0+/- 6.2	-78.1+/-*****
03	38 40 42	10.16+/-10.61	7.3+/- 7.2	*****+/-*****
04	41 43 45	29.50+/-55.56	-10.5+/- 7.7	*****+/-*****
05	50 52 54	20.01+/-27.79	3.4+/- 1.3	*****+/-*****
06	56 58 60	4.06+/- 1.01	11.4+/- 9.0	*****+/-*****

Average for 15 minute period ending at 24:00:00  
 Average for hourly period ending at 24:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi C0	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm

29	N WY 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 76' Temp	*****+/-*****	DEGR F	80	S GND VER	*****+/-*****	mph
32	N CD2/Byron	*****+/-*****	ppm	81	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	84	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		

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Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	17:00:00	1042 vehicles
02	17:00:00	1012 vehicles
03	17:00:00	1407 vehicles
04	17:00:00	1370 vehicles
05	17:00:00	1279 vehicles
06	17:00:00	1394 vehicles
07	17:00:00	854 vehicles
08	17:00:00	944 vehicles
09	17:00:00	534 vehicles
10	17:00:00	435 vehicles
11	22:00:00	4.387 mph
12	18:00:00	2.926 ppm
13	18:00:00	1.997 mph
14	00:00:00	.000 ppm
15	18:00:00	.158 mph
16	00:00:00	.000 ppm
17	22:00:00	3.524 mph
18	23:00:00	1.577 ppm
19	00:00:00	.000 ppm
20	18:00:00	.100 ppm
21	00:00:00	.000 ppm
22	00:00:00	.000 ppm
23	22:00:00	7.365 mph
24	00:00:00	.000 ppm
25	23:00:00	218.350 DEGR AZ
26	00:00:00	.000 ppm
27	18:00:00	100.042 DEGR F
28	00:00:00	.000 ppm
29	23:00:00	220.197 DEGR AZ
30	00:00:00	.000 ppm
31	18:00:00	97.509 DEGR F
32	00:00:00	.000 ppm
35	22:00:00	4.901 mph
37	00:00:00	.000 mph
38	22:00:00	1.455 mph
39	00:00:00	.000 mph
40	18:00:00	.660 mph
41	22:00:00	1.452 mph
42	00:00:00	.000 mph
43	23:00:00	.511 mph
45	00:00:00	.000 mph
49	18:00:00	1.240 ppm
50	22:00:00	2.381 mph
51	21:00:00	1.467 ppm
52	17:00:00	.099 mph
53	18:00:00	1.959 ppm
54	00:00:00	.000 mph
55	21:00:00	4.185 ppm
56	00:00:00	.000 mph
57	00:00:00	.000 ppm
58	17:00:00	.131 mph
59	23:00:00	82.828 %
60	00:00:00	.000 mph
61	17:00:00	554.927 W/m**2
64	17:00:00	.038 mph

NOTE: All times in the maximums are ending times for the interval

Data for Aug. 24, 1984  
 06:39:12 -- Data run for morning of 8/24/84. Operators are Joe Korpics and Michael Hlavinka.  
 06:39:13 -- Set up is identical to that of the run of 08/23/84. Rush hour just beginning.  
 06:42:41 -- Investigating CD-4 (CH 55). MWH  
 06:46:56 -- ENABLING CH 55. OK NDW.

Average for 15 minute period ending at 06:15:00  
 Average for 15 minute period ending at 06:30:00  
 Average for 15 minute period ending at 06:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TDP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 07:00:00  
 Traffic Data  
 Total Traffic = 2423 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	61.0	57	54.9	48	57.9	45	53.8	18	51.1
Cat2	153	63.0	247	57.1	211	59.8	148	54.7	88	51.2
Cat3	21	63.7	36	58.9	53	59.5	32	55.9	13	52.1
Cat4	19	68.6	14	60.3	26	58.6	17	55.0	3	52.4
Cat5	16	67.5	7	63.1	7	60.0	6	56.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	60.7	11	57.4	61	60.6	55	57.1	24	46.9
Cat2	83	62.9	150	60.1	171	62.0	159	56.8	14	44.9
Cat3	17	63.2	59	61.3	30	62.5	18	56.7	2	50.8
Cat4	12	67.1	39	63.5	14	65.8	5	59.7	0	.0
Cat5	8	68.5	28	63.5	18	66.7	10	54.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	459	18.9	58.6	1434	59.2	59.7	281	11.6	62.2	149	6.1	63.5	100	4.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.491+/-	1.288	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	1.541+/-	1.263	38	S BOT PER	.674+/-	.479
13	N TOP PAR	2.143+/-	1.610	39	N VA 74'	.201+/-	.658
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	.768+/-	.655
15	N TOP VER	.195+/-	.848	41	N GND PER	.253+/-	1.572
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.340+/-	.280
17	N BOT PER	.108+/-	1.089	43	N GND PAR	.512+/-	1.862
19	N BOT PAR	1.752+/-	1.378	45	N GND VER	-.015+/-	.496
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.278+/-	1.349
21	N BOT VER	.125+/-	.737	50	S TOP PER	.801+/-	.463
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.685+/-	1.289
23	N HA 102'	2.858+/-	1.619	52	S TOP PAR	.368+/-	.078
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.910+/-	2.020
25	N WV 102'	268.788+/-	26.292	54	S TOP VER	.209+/-	.322
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.724+/-	.272
27	N Gnd Temp	81.518+/-	2.590	56	S GND PER	.327+/-	.040
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	274.031+/-	26.581	58	S GND PAR	.344+/-	.109
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	91.895+/-	.274
31	N 74' Temp	79.694+/-	2.785	60	S GND VER	.262+/-	.241



UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.79+/- 1.44	277.4+/- 38.6	8.5+/- 25.1
02	17 19 21	2.34+/- 1.10	270.4+/- 38.6	6.8+/- 26.2
03	38 40 42	1.22+/- .53	224.8+/- 19.6	22.5+/- 17.6
04	41 43 45	2.05+/- 1.23	265.4+/- 54.5	6+/- 13.7
05	50 52 54	.98+/- .41	210.0+/- 12.6	16.1+/- 22.0
06	56 58 60	.59+/- .14	225.6+/- 6.3	29.0+/- 19.4

Average for hourly period ending at 07:00:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi OS	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N WMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

MWM
Average for 15 minute period ending at 07:15:00
Traffic Data
Total Traffic = 2476 vehicles averaging 59.0 mph

Westbound Traffic

Table with 8 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 6 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, etc.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector data for channels 01-06.

Average for 15 minute period ending at 07:30:00
Traffic Data
Total Traffic = 2697 vehicles averaging 58.3 mph

Westbound Traffic

Table with 8 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 6 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, etc.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector data for channels 01-06.

01	11	13	15	2.58+/-	.78	284.9+/-	17.4	1.0+/-	15.0
02	17	19	21	2.02+/-	.75	285.0+/-	18.1	3.3+/-	16.8
03	38	40	42	1.54+/-	.89	246.2+/-	33.0	19.4+/-	12.1
04	41	43	45	1.26+/-	.65	290.0+/-	40.5	2.0+/-	15.4
05	50	52	54	.92+/-	.41	249.0+/-	48.4	26.3+/-	15.5
06	56	58	60	.60+/-	.15	226.3+/-	6.5	32.8+/-	7.0

Average for 15 minute period ending at 07:45:00  
 Traffic Data  
 Total Traffic = 2850 vehicles averaging 44.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	61.1	42	55.7	52	58.4	81	53.0	25	49.5
Cat2	153	62.9	274	58.4	226	59.4	150	54.8	101	49.8
Cat3	27	64.4	28	58.7	69	59.5	30	54.3	10	52.3
Cat4	25	68.6	17	59.5	22	60.6	17	55.2	8	51.5
Cat5	16	71.3	10	64.6	5	60.5	6	55.5	2	49.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	100	58.6	12	55.1	52	59.3	55	54.8	27	47.2
Cat2	140	60.8	193	57.5	210	59.5	153	55.2	36	47.9
Cat3	24	60.7	61	58.3	43	60.7	33	56.0	6	47.6
Cat4	14	65.3	43	59.3	31	63.2	17	58.0	1	45.2
Cat5	9	68.0	69	61.9	33	62.7	5	57.9	1	44.3

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	532	18.7	****	1636	57.4	58.6	331	11.6	60.8	195	6.8	62.8	156	5.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.589+/- 1.027	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	1.110+/- .377	ppm	38	S BOT PER	-1.732+/- .964	mph
13	N TOP PAR	2.556+/- 1.076	mph	39	N VA 74'	-2.245+/- .481	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.189+/- 1.077	mph
15	N TOP VER	.009+/- .689	mph	41	N GND PER	-4.42+/- .742	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.686+/- .505	mph
17	N BOT PER	-.885+/- .748	mph	43	N GND PAR	1.411+/- .741	mph
18	N BOT PAR	2.215+/- .926	mph	44	N GND VER	-.026+/- .268	mph
19	N ND2/TECD	*****+/-*****	ppm	45	N Ecolyzer-1	-.187+/- .108	ppm
20	N BOT VER	-.037+/- .644	mph	46	S TOP PER	-1.772+/- .600	mph
21	N ND/TECD	*****+/-*****	ppm	47	N Ecolyzer-2	.809+/- .129	ppm
22	N HA 102'	3.414+/- 1.094	mph	48	S TOP PAR	-.585+/- .667	mph
23	N THC/Byron	*****+/-*****	ppm	49	N Ecolyzer-3	.782+/- .478	ppm
24	N WV 102'	294.895+/- 11.345	DEGR AZ	50	S TOP VER	-.873+/- .673	mph
25	N MMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	1.816+/- .183	ppm
26	N Gnd Temp	79.355+/- 2.875	DEGR F	52	S GND PER	-.352+/- .054	ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	297.907+/- 15.182	DEGR AZ	54	S GND PAR	1.831+/- .981	mph
29	N CO/Byron	*****+/-*****	ppm	55	N Rel Hum	91.679+/- .220	%
30	N 74' Temp	79.172+/- 3.018	DEGR F	56	S GND VER	-.462+/- .263	mph
31	N CO2/Byron	*****+/-*****	ppm	57	N Solar Rad	27.976+/- 4.667	W/m^2
32	N HA 74'	3.449+/- 2.418	mph	58	S VA 55'	.680+/- .609	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.18+/- 1.20	300.6+/- 17.6	-.2+/- 12.3
02	17 19 21	2.55+/- .93	291.0+/- 18.7	-.7+/- 13.9
03	38 40 42	3.78+/- 1.07	297.2+/- 19.7	6.5+/- 5.3
04	41 43 45	1.86+/- .75	288.8+/- 28.0	-1.0+/- 12.9
05	50 52 54	2.12+/- .75	341.2+/- 24.5	12.5+/- 16.3
06	56 58 60	1.93+/- .91	253.1+/- 14.1	14.0+/- 12.2

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2752 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	62.2	51	53.7	54	57.1	56	52.9	28	49.5
Cat2	151	62.9	247	56.9	243	58.1	188	53.9	107	49.7
Cat3	32	64.4	38	59.0	48	58.8	31	53.6	12	51.9
Cat4	22	67.2	15	61.3	28	58.7	24	55.6	10	50.8
Cat5	19	67.5	10	60.6	9	60.3	10	58.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	60.0	9	51.2	50	61.0	54	54.9	41	45.2
Cat2	112	61.2	185	59.2	191	60.0	131	54.8	43	45.4
Cat3	22	62.8	59	60.3	46	58.9	30	56.1	3	48.0
Cat4	15	68.9	33	61.1	33	61.9	19	55.3	0	.0
Cat5	10	66.2	60	62.5	29	62.0	7	57.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	500	18.2	57.3	1578	57.3	58.8	321	11.7	60.4	199	7.2	62.5	154	5.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.257+/- .762	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	1.283+/- .361	ppm	38	S BOT PER	-1.703+/- .799	mph
13	N TOP PAR	2.583+/- 1.135	mph	39	N VA 74'	-.141+/- .350	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.266+/- .834	mph
15	N TOP VER	-.143+/- .553	mph	41	N GND PER	-.068+/- 1.446	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	-.558+/- .507	mph
17	N BOT PER	-.598+/- .628	mph	43	N GND PAR	1.041+/- .864	mph
18	N BOT PAR	2.301+/- 1.141	mph	44	N GND VER	-.017+/- .321	mph
19	N ND2/TECD	*****+/-*****	ppm	45	N Ecolyzer-1	-.444+/- .253	ppm
20	N BOT VER	.079+/- .569	mph	46	S TOP PER	-1.621+/- .698	mph
21	N ND/TECD	*****+/-*****	ppm	47	N Ecolyzer-2	1.108+/- .201	ppm
22	N HA 102'	2.768+/- .840	mph	48	S TOP PAR	-.489+/- .391	mph
23	N THC/Byron	*****+/-*****	ppm	49	N Ecolyzer-3	1.089+/- .505	ppm
24	N WV 102'	295.547+/- 11.778	DEGR AZ	50	S TOP VER	-.692+/- .523	mph
25	N MMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	2.392+/- .558	ppm
26	N Gnd Temp	81.257+/- 3.718	DEGR F	52	S GND PER	-.367+/- .061	ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	292.602+/- 15.035	DEGR AZ	54	S GND PAR	1.853+/- .840	mph

30	N CO/Byron	*****+/-*****	ppm	58	N Rel Hum	91.653+/-	.252	%
31	N 74' Temp	81.492+/- 3.627	DEGR F	60	S GND VER	.427+/-	.274	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	39.921+/-	10.192	W/m**2
35	N HA 74'	2.614+/- 2.528	mph	64	S VA 55'	.452+/-	.626	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	3.02+/- 1.09	296.8+/- 17.6	1.5+/- 10.9		
02	17	19	21	2.54+/- 1.08	285.9+/- 19.2	1.1+/- 19.1		
03	38	40	42	3.86+/- .87	297.1+/- 12.9	10.7+/- 6.3		
04	41	43	45	1.79+/- .97	282.5+/- 44.9	.6+/- 10.7		
05	50	52	54	2.09+/- .81	341.3+/- 13.3	30.8+/- 13.8		
06	56	58	60	1.96+/- .78	254.7+/- 12.1	11.4+/- 14.4		

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 10775 vehicles averaging \*\*\*\* mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	281	61.9	222	55.1	214	57.8	252	53.2	114	50.3
Cat 2	607	63.1	1000	****	882	59.1	630	54.7	361	49.7
Cat 3	101	64.6	127	60.1	205	59.4	121	54.9	30	51.5
Cat 4	80	68.1	66	60.7	94	60.3	64	55.8	35	50.9
Cat 5	54	68.9	29	62.8	28	60.5	26	57.7	5	51.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	369	59.6	44	53.9	225	60.2	222	55.2	105	46.7
Cat 2	469	61.1	732	59.0	786	60.2	661	55.6	123	47.4
Cat 3	79	62.4	245	58.8	167	60.4	123	55.9	13	44.6
Cat 4	65	66.7	158	60.9	119	62.7	64	57.2	2	46.5
Cat 5	29	66.2	232	62.6	97	62.9	17	57.0	1	44.3

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	2048	19.0	****	6251	58.0	59.2	1211	11.2	61.1	747	6.9	62.8	518	4.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.188+/- .890	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	1.070+/- .368	ppm	38	S BOT PER	-.642+/- 1.338	mph
13	N TOP PAR	2.562+/- 1.055	mph	39	N VA 74'	-.122+/- .408	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BOT PAR	2.046+/- 1.477	mph
15	N TOP VER	.078+/- .600	mph	41	N GND PER	-.315+/- 1.058	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	.530+/- .438	mph
17	N BOT PER	-.610+/- .677	mph	43	N GND PAR	1.205+/- .830	mph
19	N BOT PAR	2.208+/- 1.006	mph	45	N GND VER	-.012+/- .269	ppm
20	N NO2/TECD	*****+/-*****	ppm	48	N EcoLyzer-1	.283+/- .305	ppm
21	N BOT VER	.038+/- .572	mph	50	S TOP PER	-.648+/- 1.309	mph
22	N NO/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	.903+/- .246	ppm
23	N HA 102'	2.908+/- 1.018	mph	52	S TOP PAR	.443+/- .403	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.833+/- .482	ppm
25	N WV 102'	289.028+/- 14.078	DEGR AZ	54	S TOP VER	.647+/- .602	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.914+/- .430	ppm
27	N Gnd Temp	79.987+/- 3.528	DEGR F	56	S GND PER	.345+/- .054	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	289.248+/- 15.961	DEGR AZ	58	S GND PAR	1.098+/- .988	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	91.773+/- .250	%
31	N 74' Temp	80.547+/- 3.091	DEGR F	60	S GND VER	.387+/- .229	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	26.285+/- 11.230	W/m**2
35	N HA 74'	3.008+/- 2.412	mph	64	S VA 55'	.561+/- .683	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	3.00+/- 1.09	294.1+/- 17.7	1.4+/- 13.6		
02	17	19	21	2.46+/- .89	285.3+/- 18.2	1.6+/- 16.5		
03	38	40	42	2.55+/- 1.54	285.6+/- 37.2	14.5+/- 12.5		
04	41	43	45	1.65+/- .83	287.5+/- 38.1	.8+/- 12.5		
05	50	52	54	1.53+/- .85	294.7+/- 51.5	21.4+/- 18.9		
06	56	58	60	1.27+/- .90	239.8+/- 17.0	23.5+/- 16.3		

08:37:43 -- CHAN 49 SET TO A ZERO TO CAL  
 08:42:24 -- End calibration of CH 49. MWH  
 08:42:56 -- Begin calibration of CH 51. MWH  
 08:52:07 -- IT HAS BEEN EXTREMELY OVERCAST ALL MORNING. JJK  
 08:56:56 -- CHAN 51 ON JJK  
 08:57:15 -- CHAN 53 SET TO ZERO TO CAL JJK

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2537 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	62.0	72	54.7	61	58.1	51	53.2	30	51.1
Cat2	145	62.5	236	55.8	210	59.2	133	64.3	83	49.3
Cat3	15	64.3	18	59.2	45	58.8	40	53.8	6	52.6
Cat4	20	66.7	25	60.4	30	60.3	19	55.4	6	48.8
Cat5	12	68.3	8	62.6	7	60.0	7	57.0	1	59.8

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	59.4	7	57.3	41	62.0	55	55.7	31	47.2
Cat2	102	61.1	150	59.3	171	61.9	142	56.2	27	48.4
Cat3	24	61.9	59	60.0	37	61.2	29	57.4	2	51.5
Cat4	29	65.5	54	82.0	34	62.6	17	58.4	1	44.4
Cat5	17	66.0	43	63.5	24	64.9	9	55.9	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	500	19.7	58.1	1399	55.1	58.9	275	10.8	61.3	235	9.3	63.4	128	5.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-1.276+/-	1.231	mph	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CO	1.291+/-	.314	ppm	38	S BDT PER	-1.285+/-	1.556	mph
13	N TOP PAR	2.508+/-	1.129	ppm	39	N VA 74'	-1.158+/-	.456	mph
14	N Dasibi O3	*****+/-*****		ppm	40	S BDT PAR	2.737+/-	1.196	mph
15	N TOP VER	-0.014+/-	.693	ppm	41	N GND PER	-0.053+/-	1.171	mph
16	N ND/TECO	*****+/-*****		ppm	42	S BDT VER	.605+/-	.481	mph
17	N BDT PER	-0.430+/-	.916	mph	43	N GND PAR	.575+/-	1.126	mph
19	N BDT PAR	1.907+/-	1.217	mph	45	N GND VER	-.096+/-	.607	mph
20	N ND/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	.684+/-	.308	ppm
21	N BDT VER	.049+/-	.776	mph	50	S TOP PER	-1.321+/-	1.331	mph
22	N ND/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	1.307+/-	.257	ppm
23	N HA 102'	3.520+/-	.976	ppm	52	S TOP PAR	.465+/-	.385	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	1.352+/-	.587	ppm
25	N WV 102'	288.648+/-	19.416	DEGR AZ	54	S TOP VER	.656+/-	.596	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	3.022+/-	.206	ppm
27	N Gnd Temp	79.616+/-	2.773	DEGR F	56	S GND PER	.318+/-	.283	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	286.567+/-	21.147	DEGR AZ	58	S GND PAR	1.490+/-	.878	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	91.500+/-	.158	%
31	N 74' Temp	82.091+/-	3.523	DEGR F	60	S GND VER	.414+/-	.274	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	51.593+/-	2.767	W/m <sup>2</sup>
35	N HA 74'	3.260+/-	2.067	ppm	64	S VA 55'	.497+/-	.668	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.18+/- 1.14	296.8+/- 24.9	-1.3+/- 14.6
02	17 19 21	2.40+/- 1.02	284.5+/- 34.7	-2.1+/- 25.5
03	28 40 42	3.53+/- 1.23	288.9+/- 30.6	12.4+/- 10.1
04	41 43 45	1.55+/- .91	289.9+/- 52.2	-5.4+/- 17.9
05	50 52 54	1.93+/- .95	327.6+/- 40.5	23.8+/- 24.5
06	56 58 60	1.69+/- .88	248.9+/- 16.6	23.6+/- 18.2

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2378 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	61.7	40	54.8	40	60.3	60	54.6	22	50.1
Cat2	128	63.6	217	57.5	213	60.1	127	65.6	66	50.5
Cat3	23	64.2	33	58.1	47	59.7	32	55.7	8	50.9
Cat4	13	67.6	19	62.1	19	60.2	28	54.1	7	49.9
Cat5	7	70.1	9	64.5	13	61.5	3	53.2	2	55.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	59.9	8	55.1	56	61.2	54	56.5	16	46.8
Cat2	90	60.9	189	59.6	149	63.1	163	57.1	26	47.5
Cat3	18	64.6	45	61.1	59	62.9	21	56.5	2	56.0
Cat4	24	64.2	29	61.4	31	64.9	12	57.7	2	43.9
Cat5	10	68.5	43	63.3	14	65.0	10	58.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	449	18.9	58.8	1348	56.7	60.1	288	12.1	60.8	182	7.7	63.4	111	4.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-.822+/-	.794	mph	37	N VA 102'	*****+/-*****	mph	
12	N Dasibi CO	1.805+/-	.662	ppm	38	S BDT PER	-.489+/-	1.273	mph
13	N TOP PAR	2.453+/-	1.044	ppm	39	N VA 74'	-.047+/-	.503	mph
14	N Dasibi O3	*****+/-*****		ppm	40	S BDT PAR	2.284+/-	1.270	mph
15	N TOP VER	.241+/-	.840	ppm	41	N GND PER	-.215+/-	1.250	mph
16	N ND/TECO	*****+/-*****		ppm	42	S BDT VER	.721+/-	.563	mph
17	N BDT PER	-.248+/-	.572	mph	43	N GND PAR	1.235+/-	1.053	mph
19	N BDT PAR	1.970+/-	.933	mph	45	N GND VER	.050+/-	.390	mph
20	N ND/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	.944+/-	.345	ppm
21	N BDT VER	.018+/-	.652	mph	50	S TOP PER	-.604+/-	.922	mph
22	N ND/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	1.536+/-	.399	ppm
23	N HA 102'	2.511+/-	.948	ppm	52	S TOP PAR	.492+/-	.440	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	1.622+/-	.949	ppm
25	N WV 102'	283.154+/-	9.875	DEGR AZ	54	S TOP VER	1.099+/-	.740	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	3.048+/-	.182	ppm
27	N Gnd Temp	80.738+/-	3.605	DEGR F	56	S GND PER	.347+/-	.059	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	280.670+/-	13.395	DEGR AZ	58	S GND PAR	.759+/-	.727	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	91.223+/-	.207	%
31	N 74' Temp	79.642+/-	2.367	DEGR F	60	S GND VER	.375+/-	.249	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	84.247+/-	11.296	W/m <sup>2</sup>

UVW	Channels	UVW Vector Calculations			Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ		
01	11 13 15	2.80+/- .97	287.6+/- 21.4	-1.1+/- 17.5	
02	17 19 21	2.22+/- .82	276.6+/- 24.1	1.6+/- 23.6	
03	38 40 42	2.77+/- 1.23	272.9+/- 30.9	15.5+/- 17.9	
04	41 43 45	1.97+/- 1.00	278.6+/- 38.9	-3.8+/- 20.7	
05	50 52 54	1.41+/- .68	302.0+/- 44.3	31.4+/- 29.2	
06	56 58 60	1.00+/- .65	235.0+/- 14.4	27.7+/- 20.3	

Average for 15 minute period ending at 08:45:00  
 Traffic Data  
 Total Traffic = 2205 vehicles averaging 59.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	61.3	43	54.9	52	59.2	46	55.5	18	52.3
Cat2	128	63.2	209	57.5	186	60.8	131	56.4	72	51.2
Cat3	16	63.4	21	60.3	35	60.8	21	55.2	5	50.2
Cat4	7	65.5	13	59.8	20	63.1	14	57.2	11	50.7
Cat5	8	70.5	4	65.5	6	62.8	5	57.6	2	52.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	60.3	9	56.7	47	62.8	59	57.1	17	47.7
Cat2	100	62.9	158	60.6	165	62.9	136	58.0	19	48.8
Cat3	15	62.1	51	60.7	41	62.2	36	59.0	0	.0
Cat4	20	62.6	45	62.2	20	65.5	11	58.8	0	.0
Cat5	11	66.1	29	63.5	15	67.5	5	63.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	413	18.7	59.5	1305	59.2	60.3	241	10.9	61.3	161	7.3	64.6	65	3.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	- .143+/- .884	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	2.288+/- .691	ppm	38	S BDT PER	- .592+/- 1.063	mph
13	N TOP PAR	2.082+/- 1.393	ppm	39	N VA 74'	- .078+/- .612	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	2.851+/- 1.350	mph
15	N TOP VER	.149+/- .793	mph	41	N GND PER	- .635+/- 1.376	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	- .523+/- .606	mph
17	N BDT PER	.177+/- .728	mph	43	N GND PAR	- .078+/- 1.651	mph
19	N BDT PAR	1.568+/- 1.427	mph	45	N GND VER	- .101+/- .713	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.025+/- .836	mph	50	S TDP PER	- .550+/- .921	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.210+/- .602	ppm
23	N HA 102'	3.086+/- .950	mph	52	S TOP PAR	1.104+/- 1.220	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.735+/- 1.196	ppm
25	N WV 102'	271.392+/- 15.521	DEGR AZ	54	S TDP VER	.734+/- .757	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.245+/- .325	ppm
27	N Gnd Temp	81.101+/- 3.019	DEGR F	56	S GND PER	- .291+/- .346	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	269.474+/- 16.031	DEGR AZ	58	S GND PAR	1.250+/- .999	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	90.751+/- .399	%
31	N 74' Temp	81.257+/- 3.531	DEGR F	60	S GND VER	- .353+/- .362	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	87.199+/- 5.911	W/m^2
35	N HA 74'	2.882+/- 2.354	mph	64	S VA 55'	.481+/- .903	mph

UVW	Channels	UVW Vector Calculations			Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ		
01	11 13 15	2.54+/- 1.36	268.7+/- 35.8	14.5+/- 25.9	
02	17 19 21	2.05+/- 1.16	261.2+/- 43.8	8.8+/- 29.3	
03	38 40 42	3.27+/- 1.28	277.6+/- 23.9	16.8+/- 18.4	
04	41 43 45	1.99+/- 1.14	185.1+/- 54.7	3.7+/- 20.5	
05	50 52 54	2.12+/- 1.12	294.1+/- 39.5	40.6+/- 25.4	
06	56 58 60	1.46+/- .83	244.4+/- 19.2	22.8+/- 17.5	

Average for 15 minute period ending at 06:00:00  
 Traffic Data  
 Total Traffic = 2057 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	61.0	45	56.7	42	58.7	52	54.8	11	49.8
Cat2	103	62.7	183	57.8	166	60.5	120	55.1	78	50.7
Cat3	19	63.0	38	59.0	37	61.3	22	55.0	16	48.3
Cat4	11	64.8	18	60.5	20	60.1	9	58.0	4	51.9
Cat5	8	66.5	3	60.8	5	58.0	4	56.5	5	49.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	61.3	11	60.0	47	63.7	44	56.4	16	49.8
Cat2	95	63.2	165	61.0	138	63.9	126	58.8	20	48.8
Cat3	14	62.3	57	63.0	35	63.9	24	59.4	2	46.6
Cat4	17	66.2	37	63.2	22	65.2	6	55.5	0	.0
Cat5	7	70.0	16	66.1	12	68.4	2	56.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	392	19.1	59.4	1194	58.0	60.3	284	12.8	62.3	144	7.0	63.9	63	3.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	- .468+/- .888	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	1.490+/- .633	ppm	38	S BDT PER	- 1.274+/- 1.097	mph
13	N TOP PAR	2.859+/- 1.341	ppm	39	N VA 74'	- .039+/- .568	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	3.487+/- 1.209	mph
15	N TOP VER	.151+/- .731	mph	41	N GND PER	- .171+/- 1.305	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	- .629+/- .544	mph
17	N BDT PER	- .103+/- .683	mph	43	N GND PAR	1.142+/- 1.349	mph
19	N BDT PAR	2.585+/- 1.234	mph	45	N GND VER	- .045+/- .523	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.651+/- .508	ppm
21	N BDT VER	.137+/- .691	mph	50	S TOP PER	- 1.067+/- .996	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	3.083+/- .995	mph	52	S TOP PAR	1.224+/- 1.485	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.581+/- 1.035	ppm

25	N WV 102'	277.065+/-	11.527	DEGR AZ	54	S TOP VER	.824+/-	.728	mph
26	N NMHC/Byron	*****+/-	*****	ppm	55	N Ecolyzer-4	3.655+/-	.222	ppm
27	N Gnd Temp	84.071+/-	3.448	DEGR F	56	S GND PER	.256+/-	.377	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	275.272+/-	12.573	DEGR AZ	58	S GND PAR	1.701+/-	1.149	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rel Hum	90.376+/-	.206	%
31	N 74' Temp	80.814+/-	3.215	DEGR F	60	S GND VER	.398+/-	.358	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	144.650+/-	36.664	W/m <sup>2</sup>
35	N HA 74'	2.779+/-	2.424	mph	64	S VA 55'	.588+/-	.823	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.13+/- 1.15	276.8+/- 26.6	-1.1+/- 11.1		
02	17 19 21	2.81+/- 1.04	271.2+/- 24.3	-4.4+/- 12.2		
03	38 40 42	3.97+/- 1.19	287.4+/- 19.0	12.6+/- 14.4		
04	41 43 45	1.98+/- .98	260.3+/- 47.2	-1.2+/- 10.2		
05	50 52 54	2.35+/- 1.39	313.0+/- 36.1	34.8+/- 22.8		
06	56 58 60	1.85+/- 1.09	251.6+/- 18.1	17.3+/- 15.4		

Average for hourly period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 9177 vehicles averaging 59.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	261	61.6	200	55.2	195	59.2	209	54.5	81	50.9
Cat2	504	63.0	845	57.4	775	60.1	511	55.3	299	50.4
Cat3	73	63.8	110	59.0	164	60.0	115	54.8	35	49.9
Cat4	51	66.4	75	60.8	89	60.9	68	55.6	28	50.3
Cat5	35	68.8	24	63.6	32	61.0	19	56.5	10	52.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	290	60.2	35	57.5	191	62.4	212	56.4	80	47.7
Cat2	387	62.0	643	60.2	623	62.9	567	57.5	92	48.3
Cat3	71	62.7	212	61.2	172	62.6	110	58.2	6	51.4
Cat4	90	64.7	165	62.2	107	64.4	46	58.0	3	44.1
Cat5	45	67.2	131	63.8	65	66.2	26	58.3	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5		
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	
57.8	1754	58.9	5246	57.2	59.9	1068	61.4	722	63.7	387

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.677+/-	1.040	37	N VA 102'	*****+/-	*****
12	N Desibi CO	1.868+/-	.702	38	S BOT PER	-.910+/-	1.341
13	N TOP PAR	2.475+/-	1.260	39	N VA 74'	-.080+/-	.539
14	N Desibi O3	*****+/-	*****	40	S BOT PAR	2.840+/-	1.325
15	N TOP VER	.132+/-	.770	41	N GND PER	.132+/-	1.312
16	N NDX/TECO	*****+/-	*****	42	S BOT VER	.620+/-	.556
17	N BOT PER	-.151+/-	.765	43	N GND PAR	.733+/-	1.417
19	N BOT PAR	2.008+/-	1.275	45	N GND VER	.002+/-	.575
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	1.250+/-	.676
21	N BOT VER	.057+/-	.742	50	S TOP PER	-.886+/-	1.100
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.646+/-	.559
23	N HA 102'	3.075+/-	1.016	52	S TOP PAR	.821+/-	1.058
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.834+/-	1.108
25	N WV 102'	280.021+/-	15.826	54	S TOP VER	.829+/-	.726
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	3.243+/-	.348
27	N Gnd Temp	81.381+/-	3.557	56	S GND PER	.303+/-	.295
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	277.925+/-	17.223	58	S GND PAR	1.300+/-	1.033
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	90.962+/-	.504
31	N 74' Temp	80.951+/-	3.238	60	S GND VER	.385+/-	.315
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	91.922+/-	38.734
35	N HA 74'	2.900+/-	2.267	64	S VA 55'	.880+/-	.875

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.91+/- 1.19	283.0+/- 28.2	3.0+/- 19.2		
02	17 19 21	2.37+/- 1.07	274.0+/- 33.8	1.0+/- 23.9		
03	38 40 42	3.39+/- 1.30	281.8+/- 27.2	14.3+/- 15.0		
04	41 43 45	1.87+/- 1.02	264.9+/- 51.8	-1.7+/- 18.1		
05	50 52 54	1.86+/- 1.12	309.3+/- 41.1	32.6+/- 26.2		
06	56 58 60	1.50+/- .95	244.9+/- 18.2	22.8+/- 18.2		

09:12:24 -- CHAN 53 DM JJK  
 09:12:43 -- CHAN 55 SET TO ZERO TO CAL JJK  
 09:32:03 -- CLOUD COVER IS DIMINISHING SOMEWHAT. JJK  
 09:43:44 -- CHAN 55 DM NCO-4 FLOATS ALDT MORE THAN THE OTHER ECOLYZERS. JJK  
 Average for 15 minute period ending at 09:15:00  
 Traffic Data  
 Total Traffic = 1942 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	61.3	39	56.1	36	60.7	43	55.0	6	54.6
Cat2	92	63.3	187	57.6	167	60.6	97	56.3	68	51.7
Cat3	12	64.1	33	59.6	43	60.8	30	55.7	6	50.7
Cat4	16	68.2	15	61.6	26	62.1	6	54.8	5	55.6
Cat5	11	66.9	10	62.0	8	61.1	8	60.0	3	59.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	91	60.9	10	58.2	38	62.0	42	56.4	10	45.1
Cat2	89	61.8	123	61.7	128	63.7	119	58.1	16	45.5
Cat3	18	64.9	60	61.5	34	64.3	26	58.7	1	35.4
Cat4	15	65.1	32	62.1	23	65.9	6	58.4	1	43.1
Cat5	6	67.5	24	64.6	15	70.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	363	18.7	59.5	1086	55.9	60.6	263	13.5	62.8	145	7.5	64.9	85	4.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.000+/- 1.199	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	1.275+/- .515	ppm	38	S BOT PER	-1.168+/- 1.425	mph
13	N TOP PAR	3.442+/- 1.526	mph	39	N VA 74'	-.171+/- .745	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.422+/- 1.417	mph
15	N TOP VER	.093+/- 1.059	mph	41	N GND PER	-1.283+/- 1.430	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.682+/- .622	mph
17	N BOT PER	-.366+/- 1.133	mph	43	N GND PAR	1.666+/- 1.238	mph
19	N BOT PAR	3.093+/- 1.447	ppm	45	N GND VER	-.085+/- .467	ppm
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	-1.378+/- .158	ppm
21	N BOT VER	.145+/- .991	mph	50	S TOP PER	-1.080+/- 1.234	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	-1.303+/- .247	ppm
23	N HA 102'	3.862+/- 1.439	mph	52	S TOP PAR	1.467+/- 1.652	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	280.259+/- 12.802	DEGR AZ	54	S TOP VER	.740+/- .828	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.307+/- .242	ppm
27	N Gnd Temp	83.315+/- 4.638	DEGR F	56	S GND PER	.249+/- .483	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	278.584+/- 14.918	DEGR AZ	58	S GND PAR	1.809+/- 1.261	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	89.481+/- .253	%
31	N 74' Temp	82.820+/- 2.023	DEGR F	60	S GND VER	.393+/- .337	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	223.447+/- 4.407	W/m**2
35	N HA 74'	4.144+/- 1.976	mph	64	S VA 55'	.457+/- .912	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	3.92+/- 1.52	284.7+/- 23.5	3.7+/- 17.9
02	17 19 21	3.48+/- 1.33	275.5+/- 23.0	3.7+/- 19.4
03	38 40 42	3.97+/- 1.41	283.0+/- 24.9	12.4+/- 12.5
04	41 43 45	2.30+/- 1.14	277.4+/- 42.3	-2.9+/- 18.0
05	50 52 54	2.81+/- 1.46	303.1+/- 41.0	23.8+/- 29.6
06	56 58 60	2.03+/- 1.15	251.4+/- 19.1	21.6+/- 20.3

Average for 15 minute period ending at 09:30:00  
 Traffic Data  
 Total Traffic = 2080 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	61.0	48	55.8	42	58.8	37	54.1	8	50.7
Cat2	114	62.8	183	57.1	172	60.0	116	54.6	77	50.4
Cat3	19	64.1	37	57.9	44	61.1	34	55.4	12	50.5
Cat4	16	66.7	21	63.6	26	62.5	14	55.9	6	51.6
Cat5	8	69.5	2	72.1	14	59.9	4	54.1	2	55.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	59.2	13	55.8	36	61.7	47	56.7	14	43.8
Cat2	98	61.4	140	60.5	130	63.4	124	57.6	22	46.7
Cat3	27	62.0	43	60.9	41	62.9	20	57.0	2	41.8
Cat4	17	64.6	30	61.4	25	63.7	10	62.1	0	.0
Cat5	12	69.4	31	63.9	10	85.9	4	57.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	372	17.9	58.7	1177	56.6	59.6	279	13.4	62.3	185	7.9	64.0	87	4.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.305+/- 1.232	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	2.258+/- .942	ppm	38	S BOT PER	-.767+/- 1.780	mph
13	N TOP PAR	4.385+/- 1.718	mph	39	N VA 74'	-.013+/- .828	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.679+/- 1.833	mph
15	N TOP VER	.246+/- .823	mph	41	N GND PER	-.314+/- 1.965	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.552+/- .761	mph
17	N BOT PER	-.503+/- 1.152	mph	43	N GND PAR	1.874+/- 1.730	mph
19	N BOT PAR	3.844+/- 1.729	ppm	45	N GND VER	.027+/- .749	ppm
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.840+/- .658	ppm
21	N BOT VER	.184+/- .867	mph	50	S TOP PER	-.896+/- 1.595	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.738+/- .704	ppm
23	N HA 102'	4.622+/- 1.291	mph	52	S TOP PAR	2.484+/- 2.252	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.274+/- 1.269	ppm
25	N WV 102'	267.196+/- 11.742	DEGR AZ	54	S TOP VER	.644+/- .953	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	85.139+/- 3.555	DEGR F	56	S GND PER	-.060+/- .918	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	267.380+/- 14.307	DEGR AZ	58	S GND PAR	1.724+/- 1.338	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	88.194+/- .680	%
31	N 74' Temp	82.560+/- 3.045	DEGR F	60	S GND VER	.358+/- .512	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	298.020+/- 24.240	W/m**2
35	N HA 74'	4.676+/- 2.351	mph	64	S VA 55'	.329+/- 1.083	mph



UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.68+/- 1.68	270.9+/- 16.9	-1.3+/- 16.4		
02	17 19 21	4.07+/- 1.59	258.6+/- 20.0	1.0+/- 18.2		
03	38 40 42	4.27+/- 1.85	275.6+/- 27.6	12.0+/- 16.3		
04	41 43 45	2.89+/- 1.53	253.1+/- 47.2	-1.5+/- 14.7		
05	50 52 54	3.26+/- 2.17	270.1+/- 40.7	19.0+/- 23.0		
06	56 58 60	1.98+/- 1.38	253.8+/- 24.6	17.1+/- 21.6		

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 2126 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	60.8	60	55.5	41	59.2	38	54.1	4	50.3
Cat2	86	62.0	196	57.3	176	60.1	117	56.0	69	50.8
Cat3	18	63.3	39	58.8	54	60.8	35	55.6	7	49.2
Cat4	16	66.2	20	58.7	26	60.6	12	54.5	10	56.5
Cat5	6	67.1	3	65.4	8	62.8	3	58.1	2	54.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	59.8	8	60.1	38	62.5	41	57.1	16	43.0
Cat2	119	62.2	150	60.6	161	63.3	114	56.8	25	46.0
Cat3	25	61.1	44	61.1	32	62.5	29	57.0	4	44.8
Cat4	11	64.5	31	62.4	17	64.1	6	55.1	1	33.6
Cat5	9	70.9	22	62.7	13	64.9	6	59.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	404	19.0	58.9	1213	57.1	59.4	287	13.5	60.8	150	7.1	63.9	72	3.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.943+/- 1.785	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	1.484+/- .753	ppm	38	S BOT PER	-1.225+/- 1.705	mph
13	N TOP PAR	4.037+/- 1.752	mph	39	N VA 74'	-.362+/- .897	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	3.375+/- 1.603	mph
15	N TOP VER	-.047+/- .938	mph	41	N GND PER	.051+/- 1.922	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.446+/- .568	mph
17	N BOT PER	.419+/- 1.352	mph	43	N GND PAR	1.976+/- 1.730	mph
19	N BOT PAR	3.784+/- 1.574	mph	45	N GND VER	-.005+/- .486	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.389+/- .627	ppm
21	N BOT VER	-.138+/- .901	mph	50	S TOP PER	-1.201+/- 1.633	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.245+/- .594	ppm
23	N HA 102'	4.369+/- 1.227	mph	52	S TOP PAR	1.580+/- 1.849	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.565+/- 1.170	ppm
25	N WV 102'	276.841+/- 15.860	DEGR AZ	54	S TOP VER	.513+/- .807	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	85.999+/- 2.484	DEGR F	56	S GND PER	-.100+/- .907	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	275.694+/- 17.795	DEGR AZ	58	S GND PAR	1.784+/- 1.368	mph
30	N CO/Byron	*****+/-*****	ppm	59	N R01 Hum	86.729+/- .892	%
31	N 74' Temp	83.289+/- 2.791	DEGR F	60	S GND VER	.382+/- .454	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	296.158+/- 9.093	W/m**2
35	N HA 74'	4.063+/- 2.735	mph	64	S VA 55'	.174+/- .942	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.64+/- 1.75	279.9+/- 27.3	6.0+/- 14.3		
02	17 19 21	4.15+/- 1.54	262.6+/- 21.3	5.6+/- 17.0		
03	38 40 42	4.07+/- 1.61	283.2+/- 29.2	7.3+/- 14.2		
04	41 43 45	3.06+/- 1.36	260.7+/- 43.9	-1.4+/- 20.4		
05	50 52 54	2.87+/- 1.72	298.5+/- 45.4	7.2+/- 27.3		
06	56 58 60	2.09+/- 1.37	258.2+/- 26.9	13.4+/- 22.4		

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 2048 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	61.1	51	55.9	32	58.4	37	53.8	1	54.1
Cat2	97	63.0	180	57.6	166	60.3	100	55.8	65	51.0
Cat3	19	63.7	35	60.4	51	61.3	29	55.3	17	48.1
Cat4	17	65.1	22	60.0	33	61.6	7	52.9	13	51.4
Cat5	9	67.2	7	63.5	16	61.6	5	56.6	3	49.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	60.7	7	52.5	40	62.2	45	57.4	13	48.3
Cat2	115	63.0	142	60.9	139	62.9	122	57.8	16	47.7
Cat3	18	63.7	47	61.3	38	63.2	18	58.4	3	38.5
Cat4	13	67.0	32	63.0	23	65.8	11	61.2	0	0
Cat5	12	70.9	32	64.9	16	68.0	2	63.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	358	17.5	59.4	1142	55.8	59.8	275	13.4	61.8	171	8.3	64.8	102	5.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.763+/- 1.673	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.835+/- .238	ppm	38	S BOT PER	-2.008+/- 1.511	mph
13	N TOP PAR	3.383+/- 1.784	mph	39	N VA 74'	-.263+/- .776	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	3.795+/- 1.304	mph
15	N TOP VER	-.074+/- .821	mph	41	N GND PER	.280+/- 1.503	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.523+/- .512	mph
17	N BOT PER	-.419+/- 1.017	mph	43	N GND PAR	1.508+/- 1.606	mph
19	N BOT PAR	3.150+/- 1.744	mph	45	N GND VER	-.005+/- .458	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.864+/- .151	ppm
21	N BOT VER	.051+/- .896	mph	50	S TOP PER	-2.072+/- 1.519	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.796+/- .146	ppm
23	N HA 102'	4.302+/- 1.631	mph	52	S TOP PAR	1.592+/- 1.793	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.817+/- .462	ppm
25	N WV 102'	297.407+/- 25.826	DEGR AZ	54	S TOP VER	.623+/- .588	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.155+/- .229	ppm

27	N Gnd Temp	86.260+/-	3.810	DEGR F	56	S GND PER	- .162+/-	.998	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	291.995+/-	22.904	DEGR AZ	58	S GND PAR	2.269+/-	1.205	mph
30	N CO2/Byron	*****+/-*****		ppm	59	N Rel Hum	84.302+/-	1.776	%
31	N 74' Temp	84.592+/-	2.477	DEGR F	60	S GND VER	.405+/-	.365	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	415.375+/-	109.663	W/m**2
35	N HA 74'	4.361+/-	2.813	mph	64	S VA 55'	.217+/-	.706	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.20+/- 1.85	295.1+/- 24.2	- .1+/- 13.4		
02	17 19 21	3.46+/- 1.71	274.9+/- 19.5	2.0+/- 19.9		
03	38 40 42	4.62+/- 1.41	295.7+/- 18.7	8.7+/- 9.7		
04	41 43 45	2.47+/- 1.29	277.3+/- 47.8	2.6+/- 17.4		
05	50 52 54	3.26+/- 1.79	322.8+/- 28.8	19.9+/- 27.8		
06	56 58 60	2.56+/- 1.22	265.6+/- 23.7	12.0+/- 19.5		

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 8196 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	220	61.0	198	55.8	151	59.3	156	54.3	19	52.0
Cat2	389	62.8	746	57.4	681	60.3	430	55.7	279	50.9
Cat3	68	63.8	144	59.1	192	61.0	128	55.5	42	48.3
Cat4	65	66.5	78	60.9	111	61.7	39	54.8	34	53.5
Cat5	34	67.6	22	63.9	46	61.2	20	57.7	10	54.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	335	60.2	38	56.7	152	62.1	175	56.9	53	44.9
Cat2	422	62.1	555	60.9	558	63.2	479	57.6	79	46.4
Cat3	88	62.7	194	61.2	145	63.2	93	57.7	10	40.2
Cat4	56	65.3	125	62.2	88	64.9	33	59.9	2	38.3
Cat5	39	68.9	109	64.1	54	67.5	12	59.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	1497	18.3	59.1	4618	56.3	59.8	1104	13.5	61.9	631	7.7	64.4	346	4.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-1.003+/- 1.576	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CD	1.483+/- .842	ppm	38	S BOT PER	-1.292+/- 1.667	mph
13	N TDP PAR	3.804+/- 1.740	mph	39	N VA 74'	-.202+/- .822	mph
14	N Desibi D3	*****+/-*****	ppm	40	S BOT PAR	3.588+/- 1.557	mph
15	N TDP VER	.055+/- .949	mph	41	N GND PER	-.049+/- 1.733	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.551+/- .627	mph
17	N BOT PER	.034+/- 1.243	mph	43	N GND PAR	1.756+/- 1.592	mph
19	N BOT PAR	3.419+/- 1.649	mph	45	N GND VER	-.017+/- .581	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.368+/- .588	ppm
21	N BOT VER	.060+/- .922	mph	50	S TDP PER	-1.265+/- 1.579	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.270+/- .588	ppm
23	N HA 102'	4.294+/- 1.427	mph	52	S TDP PAR	1.783+/- 1.935	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.582+/- 1.163	ppm
25	N WV 102'	280.024+/- 20.264	DEGR AZ	54	S TDP VER	.630+/- .807	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	85.178+/- 3.790	DEGR F	56	S GND PER	-.018+/- .862	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	278.226+/- 19.648	DEGR AZ	58	S GND PAR	1.899+/- 1.307	mph
30	N CO2/Byron	*****+/-*****	ppm	59	N Rel Hum	87.176+/- 2.167	%
31	N 74' Temp	83.315+/- 2.864	DEGR F	60	S GND VER	.387+/- .427	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	308.250+/- 88.470	W/m**2
35	N HA 74'	4.311+/- 2.492	mph	64	S VA 55'	.294+/- .925	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.38+/- 1.73	282.5+/- 24.6	2.1+/- 15.8		
02	17 19 21	3.79+/- 1.57	287.9+/- 22.0	3.1+/- 18.6		
03	38 40 42	4.23+/- 1.59	284.6+/- 26.2	10.1+/- 13.6		
04	41 43 45	2.68+/- 1.36	287.3+/- 45.7	-.8+/- 17.8		
05	50 52 54	3.00+/- 1.82	300.1+/- 41.9	17.5+/- 27.7		
06	56 58 60	2.17+/- 1.30	257.2+/- 24.2	16.0+/- 21.2		

10:23:53 -- Recalibrating CO-4 CH 55. MWH  
 10:32:23 -- Disregard previous CO-4 message. Begin recalibration now. MWH  
 10:47:12 -- Restart  
 10:47:13 -- This is a continuation of morning's data run. Tape drive failure caused the inter  
 10:47:14 -- rupt. All parameters are the same.  
 10:47:44 -- Dasibi CO under calibration.  
 10:54:57 -- CO/D is now online.

MWH  
 Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 2067 vehicles averaging 59.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	59.5	48	55.6	21	55.8	39	55.3	0	0
Cat2	96	62.4	184	58.2	157	61.3	96	55.6	53	51.9
Cat3	25	61.7	35	60.3	41	60.6	18	56.7	21	50.3
Cat4	11	65.4	15	63.7	26	61.0	13	57.6	8	50.9
Cat5	6	69.3	4	62.6	11	63.1	4	53.2	3	54.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	55.3	12	57.0	27	62.5	51	56.1	15	47.3
Cat2	97	62.1	170	61.1	144	63.6	124	57.7	24	48.3
Cat3	24	63.0	62	61.9	38	61.4	20	57.3	3	51.8
Cat4	24	66.4	31	62.5	33	65.8	10	58.5	3	42.8
Cat5	21	65.8	34	63.2	13	67.8	7	60.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	348	16.8	59.6	1155	55.9	59.9	287	13.9	62.3	174	8.4	63.8	103	5.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.872+/-	1.813	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.707+/-	.281	38	S BOT PER	-2.247+/-	1.361
13	N TOP PAR	4.278+/-	1.825	39	N VA 74'	-.435+/-	.959
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	4.316+/-	1.471
15	N TOP VER	-.247+/-	1.098	41	N GND PER	-.627+/-	1.641
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.600+/-	.656
17	N BOT PER	-.837+/-	1.177	43	N GND PAR	2.115+/-	1.964
19	N BOT PAR	3.631+/-	1.724	45	N GND VER	-.058+/-	.520
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.684+/-	1.113
21	N BOT VER	-.261+/-	1.014	50	S TOP PER	-2.541+/-	1.161
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.592+/-	1.129
23	N HA 102'	5.645+/-	1.535	52	S TOP PAR	2.062+/-	2.283
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.589+/-	.399
25	N WV 102'	299.707+/-	18.004	54	S TOP VER	.628+/-	.784
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.713+/-	1.198
27	N Gnd Temp	85.270+/-	3.080	56	S GND PER	-.105+/-	1.062
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	298.835+/-	18.898	58	S GND PAR	2.400+/-	1.048
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	82.918+/-	.462
31	N 74' Temp	85.322+/-	1.837	60	S GND VER	.464+/-	.346
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	410.243+/-	27.391
35	N HA 74'	5.762+/-	3.170	66	S VA 55'	.357+/-	1.040

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.58+/- 1.80	303.7+/- 19.8	-4.7+/- 13.2
02	17 19 21	4.10+/- 1.61	283.5+/- 19.9	-5.7+/- 18.8
03	38 40 42	5.09+/- 1.51	297.3+/- 15.3	5.9+/- 7.7
04	41 43 45	3.06+/- 1.49	284.0+/- 42.9	1+/- 13.5
05	50 52 54	3.84+/- 1.82	329.4+/- 27.4	10.2+/- 13.3
06	56 58 60	2.66+/- 1.11	267.0+/- 20.9	12.8+/- 10.7

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 2079 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	59.7	48	56.2	18	57.7	43	54.1	0	0
Cat2	89	60.8	201	57.7	157	60.8	104	55.3	50	50.7
Cat3	20	61.2	40	60.6	50	61.7	22	56.8	16	49.9
Cat4	13	66.4	21	62.6	36	62.3	15	58.5	11	53.8
Cat5	6	70.7	6	64.8	18	64.0	4	59.4	7	53.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	60.2	13	54.6	32	63.1	40	57.8	14	46.9
Cat2	118	62.5	148	62.1	139	63.9	122	58.2	26	48.6
Cat3	15	63.3	46	61.2	34	65.3	25	58.1	1	46.3
Cat4	19	66.8	33	63.0	29	65.0	11	57.5	1	47.8
Cat5	13	68.5	34	64.8	15	67.2	6	63.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	360	17.3	59.5	1152	55.4	60.5	269	12.9	62.4	189	9.1	64.8	109	5.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.586+/-	1.082	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.627+/-	.276	38	S BOT PER	-2.147+/-	1.343
13	N TOP PAR	4.173+/-	1.728	39	N VA 74'	-.438+/-	.812
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	4.478+/-	1.463
15	N TOP VER	-.120+/-	.817	41	N GND PER	-.880+/-	1.591
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.514+/-	.657
17	N BOT PER	-.804+/-	.723	43	N GND PAR	2.813+/-	1.460
19	N BOT PAR	4.004+/-	1.621	45	N GND VER	-.058+/-	.496
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.588+/-	1.118
21	N BOT VER	-.132+/-	.947	50	S TOP PER	-2.454+/-	1.144
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.530+/-	1.110
23	N HA 102'	5.185+/-	1.439	52	S TOP PAR	2.602+/-	2.241
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.632+/-	.422
25	N WV 102'	302.740+/-	18.049	54	S TOP VER	.665+/-	.698
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.398+/-	1.178
27	N Gnd Temp	87.893+/-	2.745	56	S GND PER	.008+/-	.848
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	297.951+/-	15.102	58	S GND PAR	2.445+/-	1.274
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.550+/-	.710
31	N 74' Temp	85.165+/-	2.797	60	S GND VER	.354+/-	.438

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.18+/- 1.63	303.8+/- 15.8	4+/- 14.0		
02	17 19 21	4.26+/- 1.56	279.5+/- 14.0	-9+/- 17.0		
03	38 40 42	5.25+/- 1.42	295.7+/- 16.0	8.5+/- 9.5		
04	41 43 45	3.23+/- 1.32	286.1+/- 31.4	-1.6+/- 11.0		
05	50 52 54	4.14+/- 1.75	321.8+/- 24.9	12.8+/- 17.2		
06	56 58 60	2.65+/- 1.29	262.1+/- 19.2	13.6+/- 14.9		

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 0 Vehicles averaging 0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TDP PAR	*****+/-*****	ppm	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	ppm	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	ppm	45	N GND VER	*****+/-*****	ppm
20	N ND2/TECD	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	ppm	50	S TDP PER	*****+/-*****	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TDP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TDP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	ppm
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	ppm	64	S VA 55'	*****+/-*****	ppm

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	-25.2+/- 19.9	35.1+/-*****		
02	17 19 21	*****+/-*****	-31.5+/- 28.6	-84.9+/-*****		
03	38 40 42	*****+/-*****	-31.0+/- 26.4	288.3+/-*****		
04	41 43 45	*****+/-*****	-28.9+/- 25.6	-51.7+/-*****		
05	50 52 54	*****+/-*****	-9.8+/- 3.8	707.5+/-*****		
06	56 58 60	94.96+/-*****	-35.9+/- 34.3	384.9+/-*****		

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 1764 Vehicles averaging 59.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	60.6	43	56.0	12	56.2	37	54.6	0	0
Cat2	80	61.7	173	58.4	110	59.9	106	55.4	34	51.8
Cat3	21	64.4	23	59.4	43	60.9	19	56.0	29	51.0
Cat4	9	64.4	15	61.4	28	62.3	14	57.0	10	50.1
Cat5	4	70.2	7	64.8	24	64.1	3	54.9	13	53.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	59.0	4	54.6	26	63.8	36	55.4	14	46.9
Cat2	88	60.7	104	61.5	125	64.0	103	57.3	24	48.7
Cat3	16	61.5	48	60.1	35	62.4	18	57.3	1	48.4
Cat4	22	66.7	34	62.7	27	68.9	7	59.3	2	50.3
Cat5	12	67.5	25	63.6	11	65.0	5	61.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	292	16.6	59.2	947	53.7	59.3	253	14.3	62.3	188	9.5	63.0	104	5.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-3.043+/- 1.587	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	-2.706+/- 1.241	ppm
13	N TDP PAR	.920+/- 1.579	ppm	39	N VA 74'	-.051+/- 1.931	ppm
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	2.469+/- 1.622	ppm
15	N TOP VER	-.074+/- 1.006	ppm	41	N GND PER	-1.227+/- 1.231	ppm
16	N NOX/TECD	*****+/-*****	ppm	42	N GND VER	.838+/- 1.818	ppm
17	N BDT PER	-2.188+/- 1.399	ppm	43	N GND PAR	1.043+/- 1.610	ppm
19	N BDT PAR	1.263+/- 1.415	ppm	45	N GND VER	-.115+/- 1.521	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	-.419+/- 1.127	ppm
21	N BDT VER	-.140+/- 1.935	ppm	50	S TDP PER	-3.113+/- 1.564	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.439+/- 1.087	ppm
23	N HA 102'	4.027+/- 1.344	ppm	52	S TDP PAR	.481+/- 1.446	ppm

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.498+/-	.378	ppm
25	N WV 102'	10.448+/- 33.916	DEGR AZ	54	S TOP VER	.970+/-	.785	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.828+/-	.165	ppm
27	N Gnd Temp	88.546+/- 3.856	DEGR F	56	S GND PER	-.026+/-	.806	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	338.559+/- 27.410	DEGR AZ	58	S GND PAR	1.661+/-	1.180	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	75.029+/-	1.091	%
31	N 74' Temp	88.090+/- 3.325	DEGR F	60	S GND VER	.465+/-	.383	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	492.651+/-	89.569	W/m**2
35	N HA 74'	3.262+/- 2.400	mph	64	S VA 55'	.870+/-	.912	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.75+/- 1.37	340.3+/- 28.4	-4.6+/- 15.9		
02	17 19 21	3.14+/- 1.19	328.6+/- 35.1	-6.3+/- 23.6		
03	38 40 42	4.09+/- 1.28	319.5+/- 24.4	8.7+/- 11.6		
04	41 43 45	2.26+/- 1.36	333.3+/- 44.9	-3.4+/- 20.3		
05	50 52 54	3.36+/- 1.53	349.2+/- 8.3	16.2+/- 14.0		
06	56 58 60	1.94+/- 1.16	259.9+/- 28.8	16.1+/- 19.1		

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 6881 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	181	59.9	160	56.1	61	57.0	137	54.8	0	0
Cat2	305	61.7	651	58.1	504	60.9	357	55.6	177	51.6
Cat3	77	62.5	111	60.0	164	61.2	68	56.7	81	50.8
Cat4	42	65.2	57	62.7	98	62.1	46	57.8	34	51.7
Cat5	19	69.9	20	65.1	60	63.7	11	55.9	26	53.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	280	59.6	31	56.0	98	63.4	139	56.4	47	47.2
Cat2	344	61.8	488	61.4	476	63.8	418	57.6	86	48.5
Cat3	63	62.5	179	61.2	135	62.8	74	57.6	5	50.0
Cat4	78	66.2	117	62.5	100	65.5	35	56.6	7	47.1
Cat5	55	66.8	114	64.0	42	66.8	22	62.2	1	35.6

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	1134	16.5	59.4	3806	55.3	59.9	957	13.9	62.2	614	8.9	63.9	370	5.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.778+/- 1.531	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	-2.315+/- 1.292	mph
13	N TOP PAR	3.128+/- 2.207	mph	39	N VA 74'	-.288+/- .917	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BOT PAR	3.778+/- 1.688	mph
15	N TOP VER	-.162+/- .989	mph	41	N GND PER	-.836+/- 1.482	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.634+/- .696	mph
17	N BOT PER	-1.156+/- 1.275	mph	43	N GND PAR	1.997+/- 1.749	mph
18	N BOT PAR	2.990+/- 1.925	mph	45	N GND VER	-.078+/- .489	mph
20	N BOT/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.975+/- .156	ppm
21	N BOT VER	-.157+/- .946	mph	50	S YDP PER	-2.825+/- 1.268	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.530+/- .125	ppm
23	N HA 102'	4.854+/- 1.602	mph	52	S TOP PAR	1.840+/- 2.018	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.553+/- .392	ppm
25	N WV 102'	321.283+/- 36.243	DEGR AZ	54	S TOP VER	.735+/- .752	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.336+/- .392	ppm
27	N Gnd Temp	86.939+/- 3.381	DEGR F	56	S GND PER	-.021+/- .901	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	311.289+/- 26.614	DEGR AZ	58	S GND PAR	2.203+/- 1.187	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	80.229+/- 3.279	%
31	N 74' Temp	86.098+/- 2.811	DEGR F	60	S GND VER	.421+/- .385	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	462.533+/- 86.788	W/m**2
35	N HA 74'	4.546+/- 2.917	mph	64	S VA 55'	.530+/- .983	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.76+/- 1.78	313.7+/- 25.8	-2.4+/- 14.9		
02	17 19 21	3.79+/- 1.53	293.5+/- 29.5	-3.9+/- 20.2		
03	38 40 42	4.77+/- 1.46	302.8+/- 20.5	7.7+/- 9.6		
04	41 43 45	2.87+/- 1.41	296.8+/- 41.5	-1.5+/- 15.0		
05	50 52 54	3.66+/- 1.70	334.7+/- 23.9	13.7+/- 15.6		
06	56 58 60	2.45+/- 1.20	263.2+/- 22.5	13.0+/- 15.5		

11:20:06 -- Restart  
 11:20:07 -- Second restart of morning. All parameters are the same.  
 11:22:05 -- Previous restart 32 minutes ago.  
 11:43:28 -- Restart  
 11:43:29 -- This is the third restart of the day due to suspect hardware. Will try again.  
 11:43:30 -- MWH

Average for 15 minute period ending at 11:15:00  
Traffic Data  
 Total Traffic = 2070 vehicles averaging 59.4 mph

Westbound Traffic

	<u>Radar 1</u>		<u>Radar 3</u>		<u>Radar 5</u>		<u>Radar 7</u>		<u>Radar 9</u>	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	60.0	51	56.1	24	58.3	45	55.1	0	0
Cat2	87	62.1	198	58.1	147	60.2	100	55.7	48	53.1
Cat3	16	62.8	23	60.5	55	60.8	26	54.8	28	51.7
Cat4	11	66.3	21	61.3	30	61.2	18	55.7	9	51.0
Cat5	6	65.5	4	61.8	15	64.3	1	54.7	9	52.6

Eastbound Traffic

	<u>Radar 2</u>		<u>Radar 4</u>		<u>Radar 6</u>		<u>Radar 8</u>		<u>Radar 10</u>	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	58.7	14	52.8	25	62.4	38	57.3	14	48.1
Cat2	119	60.6	133	59.5	157	63.0	110	57.6	23	50.1
Cat3	19	62.6	45	59.9	49	63.0	24	57.2	3	44.3
Cat4	25	64.9	41	62.0	25	64.6	12	58.2	1	51.4
Cat5	22	66.9	47	63.7	19	67.6	4	56.5	0	0

Vehicle Classification Summary

<u>Spd.</u>	<u>CAT 1</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 2</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 3</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 4</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 5</u>	<u>%</u>
	<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>	
57.4	342	16.5	59.2	1119	54.1	59.3	289	14.0	61.4	193	9.3	63.9	127	6.1

Regular Channels

<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>	<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>
11	N TOP PER	-2.901+/- 1.687	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	580+/- .379	ppm	38	S BOT PER	-3.088+/- 1.290	mph
13	N TOP PAR	1.829+/- 2.024	mph	39	N VA 74'	-.040+/- 1.050	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	2.951+/- 1.875	mph
15	N TOP VER	-.043+/- 1.319	mph	41	N GND PER	-1.258+/- 1.423	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	636+/- .673	mph
17	N BOT PER	-1.840+/- 1.561	mph	43	N GND PAR	1.363+/- 1.719	mph
19	N BOT PAR	1.746+/- 1.849	mph	45	N GND VER	-.107+/- .498	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	-.452+/- .126	ppm
21	N BOT VER	.094+/- 1.338	mph	50	S TDP PER	-3.875+/- 1.540	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	.423+/- .086	ppm
23	N HA 102'	4.833+/- 1.352	mph	52	S TDP PAR	1.243+/- 1.829	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	-.452+/- .290	ppm
25	N WV 102'	349.793+/- 36.108	DEGR A2	54	S TOP VER	.796+/- .785	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.736+/- .171	ppm
27	N Gnd Temp	87.829+/- 3.034	DEGR F	56	S GND PER	-.508+/- 1.380	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	326.090+/- 28.273	DEGR A2	58	S GND PAR	1.986+/- 1.311	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	77.858+/- 1.545	%
31	N 74' Temp	87.211+/- 1.844	DEGR F	60	S GND VER	.465+/- .431	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	465.798+/- 15.452	W/m**2
35	N HA 74'	4.046+/- 2.939	mph	64	S VA 55'	.441+/- .800	mph

UVW Vector Calculations

<u>UVW</u>	<u>Channels</u>	<u>vector</u>	<u>Sum (mph)</u>	<u>Bearing</u>	<u>Angle (Deg)</u>
01	11 13 15	4.20+/- 1.66	332.9+/- 32.5	.8+/- 26.2	
02	17 19 21	3.41+/- 1.57	320.1+/- 35.7	4.4+/- 28.6	
03	38 40 42	4.71+/- 1.45	319.2+/- 22.3	7.2+/- 10.9	
04	41 43 45	2.62+/- 1.27	314.7+/- 44.8	-1.3+/- 16.4	
05	50 52 54	4.62+/- 1.45	344.2+/- 20.3	12.5+/- 13.9	
06	56 58 60	2.45+/- 1.47	268.6+/- 33.6	16.0+/- 16.9	

Average for 15 minute period ending at 11:30:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	<u>Radar 1</u>		<u>Radar 3</u>		<u>Radar 5</u>		<u>Radar 7</u>		<u>Radar 9</u>	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	<u>Radar 2</u>		<u>Radar 4</u>		<u>Radar 6</u>		<u>Radar 8</u>		<u>Radar 10</u>	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

<u>Spd.</u>	<u>CAT 1</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 2</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 3</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 4</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 5</u>	<u>%</u>
	<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>	<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TDP PER	*****+/-*****	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TDP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 11:45:00

Traffic Data  
Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDK/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	4.07+/- 1.62	309.6+/- 24.8	-2.2+/- 22.7		
02	17	19	21	3.69+/- 1.39	291.6+/- 26.9	1.2+/- 29.4		
03	38	40	42	5.04+/- 1.47	307.7+/- 15.6	7.4+/- 11.5		
04	41	43	45	3.19+/- 1.51	290.2+/- 32.5	.2+/- 11.4		
05	50	52	54	4.11+/- 1.59	339.2+/- 20.5	8.0+/- 17.0		
06	56	58	60	3.17+/- 1.42	294.4+/- 26.4	12.2+/- 13.0		

Average for 15 minute period ending at 12:00:00

Traffic Data  
Total Traffic = 2215 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	50	60.1	55	58.0	8	55.2	53	54.1	1	52.9
Cat 2	97	61.1	204	58.4	113	60.6	131	55.5	59	51.8
Cat 3	19	63.4	43	61.4	63	60.9	25	55.7	20	50.4
Cat 4	16	63.6	12	61.5	37	62.8	11	58.0	14	52.5
Cat 5	5	65.7	5	66.3	37	64.1	8	55.4	8	50.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	96	60.4	9	55.3	37	64.5	45	57.2	24	47.8
Cat 2	119	61.0	161	61.0	176	63.8	119	58.0	23	48.4
Cat 3	14	62.9	63	62.7	39	65.8	17	59.0	3	49.1
Cat 4	38	64.3	27	63.4	24	66.1	7	58.8	0	.0
Cat 5	16	66.0	44	65.1	19	66.6	5	59.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	378	17.1	59.3	1202	54.3	60.9	306	13.8	62.4	184	8.3	64.0	145	6.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.979+/- 1.564	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	1.100+/- .429	ppm	38	S BOT PER	.795+/- 1.747	mph
13	N TOP PAR	2.325+/- 2.207	mph	39	N VA 74'	.026+/- 1.168	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	2.517+/- 2.197	mph
15	N TOP VER	.401+/- 1.354	mph	41	N GND PER	.148+/- 1.776	mph
16	N NDK/TECO	*****+/-*****	ppm	42	S BOT VER	.542+/- .719	mph
17	N BOT PER	.224+/- 1.185	mph	43	N GND PAR	1.696+/- 1.904	mph
19	N BOT PAR	2.233+/- 2.071	mph	45	N GND VER	-.064+/- .669	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	.629+/- .322	ppm
21	N BOT VER	.114+/- 1.196	mph	50	S TOP PER	-.979+/- 1.730	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.600+/- .328	ppm
23	N HA 102'	3.216+/- 1.556	mph	52	S TOP PAR	1.444+/- 1.852	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.931+/- .700	ppm

25	N WV 102'	308.670+/-	42.832	DEGR AZ	54	S TOP VER	.665+/-	.947	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	1.708+/-	1.170	ppm
27	N Gnd Temp	91.913+/-	3.922	DEGR F	56	S GND PER	-.260+/-	1.026	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	292.507+/-	38.851	DEGR AZ	58	S GND PAR	1.362+/-	1.347	mph
30	N CD/Byron	*****+/-*****		ppm	59	N Re1 Hum	73.148+/-	1.999	%
31	N 74' Temp	89.204+/-	2.524	DEGR F	60	S GND VER	.423+/-	.450	mph
32	N CD2/Byron	*****+/-*****		ppm	61	N Solar Rad	842.422+/-	113.648	W/m**2
35	N HA 74'	3.159+/-	2.578	mph	64	S VA 55'	.460+/-	1.119	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	3.60+/-	1.67	289.7+/-	44.6	8.1+/- 30.9
02	17 19 21	3.05+/-	1.88	271.9+/-	43.7	1.2+/- 31.6
03	38 40 42	3.53+/-	1.76	278.7+/-	41.5	11.6+/- 18.9
04	41 43 45	2.70+/-	1.70	262.9+/-	49.1	-1.4+/- 15.5
05	50 52 54	2.79+/-	1.76	290.7+/-	47.5	19.0+/- 28.6
06	56 58 60	1.90+/-	1.25	263.0+/-	38.6	21.6+/- 27.6

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 7211 vehicles averaging 59.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	182	59.4	150	56.1	67	58.0	163	54.2	1	52.8
Cat 2	347	61.1	672	57.7	444	60.2	402	54.8	147	51.9
Cat 3	65	62.0	106	60.4	171	60.4	78	54.9	87	50.8
Cat 4	50	64.3	63	61.4	115	61.6	45	55.3	37	52.1
Cat 5	20	66.1	15	64.2	86	63.9	15	56.6	41	51.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	291	59.4	36	54.5	105	63.6	141	57.5	64	48.4
Cat 2	403	60.4	487	60.3	530	63.4	399	57.3	82	48.5
Cat 3	70	62.3	198	61.0	145	63.8	77	57.8	7	46.5
Cat 4	106	64.3	118	62.1	85	65.1	32	58.1	3	50.2
Cat 5	56	65.0	139	63.8	71	67.6	16	59.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	1200	16.6	58.9	3893	54.0	59.7	1005	13.9	61.6	654	9.1	63.3	459	6.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.130+/-	1.739	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.759+/-	.399	38	S BDT PER	-2.224+/-	1.781
13	N TOP PAR	1.877+/-	2.037	39	N VA 74'	-.128+/-	1.178
14	N Dasibi D3	*****+/-*****		40	S BDT PAR	2.662+/-	1.971
15	N TOP VER	.080+/-	1.339	41	N GND PER	-.592+/-	1.669
16	N ND2/TECD	*****+/-*****		42	S BDT VER	.545+/-	.719
17	N BDT PER	-1.167+/-	1.503	43	N GND PAR	1.460+/-	1.934
18	N BDT PAR	1.853+/-	1.906	44	N GND VER	-.056+/-	.560
19	N ND2/TECD	*****+/-*****		45	N Ecolyzer-1	-.502+/-	.221
20	N BDT VER	-.047+/-	1.255	48	S TOP PER	-2.658+/-	1.981
21	N ND/TECD	*****+/-*****		51	N Ecolyzer-2	.467+/-	.220
22	N HA 102'	4.082+/-	1.565	52	S TOP PAR	1.198+/-	1.715
23	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.645+/-	.505
24	N WV 102'	334.802+/-	40.225	54	S TOP VER	.629+/-	.886
25	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.666+/-	1.182
26	N Gnd Temp	*****+/-*****		56	S GND PER	-.580+/-	1.276
27	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
28	N WV 74'	316.453+/-	34.117	58	S GND PAR	1.678+/-	1.374
29	N CD/Byron	*****+/-*****		59	N Re1 Hum	*****+/-*****	
30	N 74' Temp	*****+/-*****		60	S GND VER	.440+/-	.420
31	N CD2/Byron	*****+/-*****		61	N Solar Rad	*****+/-*****	
32	N HA 74'	3.769+/-	2.741	64	S VA 55'	.311+/-	1.000

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	3.82+/-	1.59	320.0+/-	39.9	3.1+/- 27.8
02	17 19 21	3.14+/-	1.55	305.8+/-	42.7	2.7+/- 30.2
03	38 40 42	4.13+/-	1.70	308.4+/-	34.2	8.9+/- 15.7
04	41 43 45	2.65+/-	1.61	297.1+/-	48.7	-.9+/- 15.9
05	50 52 54	3.70+/-	1.78	333.4+/-	37.3	12.5+/- 21.5
06	56 58 60	2.22+/-	1.44	270.8+/-	37.1	17.1+/- 21.4



12:26:49 -- Restart  
 12:26:50 -- This is a program restart. Assume same system configuration.  
 12:27:29 -- DASIBI OZONE IS OFF DUE TO AMPLIFIER PROBLEM.  
 12:28:35 -- Calibrating CO-1 on CH 49.  
 12:29:32 -- Calibrating CO-2 CH 51. MWH  
 12:40:05 -- Enabling CO-1 CH 49. MWH  
 12:54:30 -- CHAN 51 ON JJK  
 12:54:51 -- CHAN 53 SET TO ZERO TO CAL JJK  
 Average for 15 minute period ending at 12:15:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****/-*****	mph	37	N VA 102'	*****/-*****	mph
12	N Dasibi CO	*****/-*****	ppm	38	S BOT PER	*****/-*****	mph
13	N TOP PAR	*****/-*****	mph	39	N VA 74'	*****/-*****	mph
14	N Dasibi O3	*****/-*****	ppm	40	S BOT PAR	*****/-*****	mph
15	N TOP VER	*****/-*****	mph	41	N GND PER	*****/-*****	mph
16	N NOX/TECO	*****/-*****	ppm	42	S BOT VER	*****/-*****	mph
17	N BOT PER	*****/-*****	mph	43	N GND PAR	*****/-*****	mph
19	N BOT PAR	*****/-*****	mph	45	N GND VER	*****/-*****	mph
20	N NO2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BOT VER	*****/-*****	mph	50	S TOP PER	*****/-*****	mph
22	N NO/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	*****/-*****	mph	52	S TOP PAR	*****/-*****	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	*****/-*****	DEGR AZ	54	S TOP VER	*****/-*****	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	*****/-*****	DEGR F	56	S GND PER	*****/-*****	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	*****/-*****	DEGR AZ	58	S GND PAR	*****/-*****	mph
30	N CO/Byron	*****/-*****	ppm	59	N Rel Hum	*****/-*****	%
31	N 74' Temp	*****/-*****	DEGR F	60	S GND VER	*****/-*****	mph
32	N CO2/Byron	*****/-*****	ppm	61	N Solar Rad	*****/-*****	W/m <sup>2</sup>
35	N HA 74'	*****/-*****	mph	64	S VA 55'	*****/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****/-*****	-35.3+/- 32.1	79.7+/-*****
02	17 19 21	*****/-*****	-37.3+/- 35.3	48.0+/-*****
03	38 40 42	*****/-*****	-37.6+/- 35.4	228.3+/-*****
04	41 43 45	*****/-*****	-26.5+/- 26.9	162.7+/-*****
05	50 52 54	90.55+/-*****	-27.3+/- 20.7	465.8+/-*****
06	56 58 60	97.29+/-*****	-35.1+/- 31.7	472.1+/-*****

Average for 15 minute period ending at 12:30:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****/-*****	mph	37	N VA 102'	*****/-*****	mph
12	N Dasibi CO	*****/-*****	ppm	38	S BOT PER	*****/-*****	mph
13	N TOP PAR	*****/-*****	mph	39	N VA 74'	*****/-*****	mph
14	N Dasibi O3	*****/-*****	ppm	40	S BOT PAR	*****/-*****	mph
15	N TOP VER	*****/-*****	mph	41	N GND PER	*****/-*****	mph
16	N NOX/TECO	*****/-*****	ppm	42	S BOT VER	*****/-*****	mph
17	N BOT PER	*****/-*****	mph	43	N GND PAR	*****/-*****	mph
19	N BOT PAR	*****/-*****	mph	45	N GND VER	*****/-*****	mph
20	N NO2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BOT VER	*****/-*****	mph	50	S TOP PER	*****/-*****	mph
22	N NO/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	*****/-*****	mph	52	S TOP PAR	*****/-*****	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	*****/-*****	DEGR AZ	54	S TOP VER	*****/-*****	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	*****/-*****	DEGR F	56	S GND PER	*****/-*****	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	*****/-*****	DEGR AZ	58	S GND PAR	*****/-*****	mph
30	N CO/Byron	*****/-*****	ppm	59	N Rel Hum	*****/-*****	%

31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****	
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****	
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****	
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****	
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****	
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****	

Average for 15 minute period ending at 12:45:00  
Traffic Data  
 Total Traffic = 2214 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	59.3	41	55.2	20	59.3	43	54.0	2	46.5
Cat2	110	62.1	208	58.0	145	60.6	135	56.0	37	52.2
Cat3	28	62.5	38	61.3	51	60.5	31	56.0	36	51.3
Cat4	17	64.1	17	59.6	31	62.0	9	57.0	7	53.9
Cat5	10	65.4	5	64.0	24	62.2	4	60.3	10	51.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	59.8	10	55.7	21	63.2	36	56.4	18	49.1
Cat2	119	62.3	151	61.3	160	63.7	137	57.6	28	48.1
Cat3	24	64.0	53	61.9	47	66.0	20	57.5	6	47.1
Cat4	26	67.2	38	63.6	37	67.2	7	60.3	1	43.7
Cat5	20	68.2	38	64.0	16	70.1	3	51.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	330	14.9	59.6	1230	55.6	60.2	334	15.1	63.3	190	8.6	63.8	130	5.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.317+/-	1.786	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	.774+/-	.392	38	S BOT PER	-1.506+/-	1.403
13	N TOP PAR	-.831+/-	1.370	39	N VA 74'	-.045+/-	1.288
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	-.472+/-	1.169
15	N TOP VER	-.279+/-	1.170	41	N GND PER	-.493+/-	1.439
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.481+/-	.707
17	N BOT PER	-1.398+/-	1.473	43	N GND PAR	-1.047+/-	1.511
19	N BOT PAR	-.821+/-	1.492	45	N GND VER	-.148+/-	.532
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.101+/-	1.006	50	S TOP PER	-1.871+/-	1.333
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	3.664+/-	1.683	52	S TOP PAR	.279+/-	.631
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.928+/-	.889
25	N WV 102'	32.640+/-	38.855	54	S TOP VER	.506+/-	.823
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.927+/-	.181
27	N Gnd Temp	91.184+/-	2.587	56	S GND PER	-.043+/-	.783
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	-.950+/-	41.727	58	S GND PAR	.481+/-	.606
30	N CD/Byron	*****+/-*****		59	N Rel Hum	69.255+/-	.894
31	N 74' Temp	90.116+/-	2.343	60	S GND VER	-.354+/-	.366
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	560.879+/-	129.109
35	N HA 74'	2.481+/-	3.210	64	S VA 55'	.317+/-	.987

UVW Vector Calculations							
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	3.30+/-	1.49	18.3+/-	39.4
02	17	19	21	2.55+/-	1.37	32.6+/-	46.3
03	38	40	42	2.19+/-	1.15	338.4+/-	43.6
04	41	43	45	2.25+/-	1.03	63.1+/-	49.0
05	50	52	54	2.15+/-	1.25	340.6+/-	26.1
06	56	58	60	1.02+/-	.69	247.1+/-	43.9

Average for 15 minute period ending at 13:00:00  
Traffic Data  
 Total Traffic = 2237 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	59.9	48	55.2	30	58.9	41	53.9	2	55.1
Cat2	82	61.1	216	58.2	155	60.2	127	54.5	44	50.1
Cat3	27	61.5	27	60.8	41	60.4	25	53.2	26	50.6
Cat4	13	65.3	14	59.7	30	62.0	16	58.4	11	55.7
Cat5	10	64.9	10	62.8	23	61.3	7	52.9	11	52.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	59.5	8	57.5	34	63.2	53	56.7	26	46.9
Cat2	107	61.1	170	59.4	163	63.5	143	56.8	32	50.0
Cat3	26	60.6	66	60.2	50	63.9	26	58.6	0	.0
Cat4	25	64.2	45	62.7	26	65.5	7	54.5	0	.0
Cat5	16	63.6	35	63.5	16	67.2	2	60.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	367	16.4	58.7	1239	55.4	59.4	314	14.0	62.0	187	8.4	62.1	130	5.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.320+/-	2.078	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.640+/-	.252	38	S BOT PER	-1.558+/-	1.973
13	N TOP PAR	-.937+/-	2.215	39	N VA 74'	-.143+/-	.916
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	-.585+/-	1.733
15	N TOP VER	-.126+/-	.937	41	N GND PER	-.474+/-	1.345
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.551+/-	.727
17	N BOT PER	-1.809+/-	1.529	43	N GND PAR	-.841+/-	2.487
19	N BOT PAR	-.737+/-	2.187	45	N GND VER	.007+/-	.479
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.363+/-	.099
21	N BOT VER	-.020+/-	1.081	50	S TOP PER	-1.908+/-	1.955
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	ppm

23	N HA 102'	3.889+/-	1.210	mph	52	S TOP PAR	.422+/-	.391	mph
24	N THC/Byron	*****+/-	*****	ppm	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	44.859+/-	34.617	DEGR AZ	54	S TOP VER	.538+/-	.989	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	1.666+/-	.191	ppm
27	N Gnd Temp	94.753+/-	2.811	DEGR F	56	S GND PER	-.150+/-	1.219	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	14.791+/-	41.586	DEGR AZ	58	S GND PAR	.605+/-	1.073	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rel Hum	68.751+/-	.562	%
31	N 74' Temp	91.809+/-	2.466	DEGR F	60	S GND VER	.312+/-	.496	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	716.438+/-	173.328	W/m <sup>2</sup>
35	N HA 74'	3.550+/-	2.695	mph	64	S VA 55'	.394+/-	1.174	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	3.92+/- 1.18	20.2+/- 42.4	-10.8+/- 16.6			
02	17	19	21	3.28+/- 1.05	13.1+/- 44.8	-8.7+/- 21.0			
03	38	40	42	2.90+/- 1.40	348.3+/- 49.1	10.8+/- 22.1			
04	41	43	45	2.54+/- 1.64	46.1+/- 54.1	-7.1+/- 16.6			
05	50	52	54	2.62+/- 1.35	338.8+/- 39.3	15.3+/- 23.9			
06	56	58	60	1.46+/- 1.07	247.7+/- 47.6	18.0+/- 25.4			

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-	*****	37	N VA 102'	*****+/-	*****
12	N Dasibi CO	*****+/-	*****	38	S BOT PER	*****+/-	*****
13	N TOP PAR	*****+/-	*****	39	N VA 74'	*****+/-	*****
14	N Dasibi O3	*****+/-	*****	40	S BOT PAR	*****+/-	*****
15	N TOP VER	*****+/-	*****	41	N GND PER	*****+/-	*****
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	*****+/-	*****
17	N BOT PER	*****+/-	*****	43	N GND PAR	*****+/-	*****
19	N BOT PAR	*****+/-	*****	45	N GND VER	*****+/-	*****
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	*****+/-	*****	50	S TOP PER	*****+/-	*****
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	*****+/-	*****	52	S TOP PAR	*****+/-	*****
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	*****+/-	*****	54	S TOP VER	*****+/-	*****
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	*****+/-	*****	56	S GND PER	*****+/-	*****
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	*****+/-	*****	58	S GND PAR	*****+/-	*****
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	*****+/-	*****
31	N 74' Temp	*****+/-	*****	60	S GND VER	*****+/-	*****
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	*****+/-	*****
35	N HA 74'	*****+/-	*****	64	S VA 55'	*****+/-	*****

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	3.75+/- 1.40	11.6+/- 50.2	3.8+/- 25.0			
02	17	19	21	3.16+/- 1.35	13.3+/- 52.4	4.4+/- 25.7			
03	38	40	42	2.78+/- 1.41	332.6+/- 49.2	7.5+/- 20.5			
04	41	43	45	2.59+/- 1.68	53.2+/- 54.9	-2.6+/- 19.8			
05	50	52	54	2.35+/- 1.43	338.5+/- 39.1	7.0+/- 28.8			
06	56	58	60	1.42+/- 1.14	247.5+/- 45.0	19.4+/- 26.0			

13:04:43 -- CHAN 53 ON JJK  
 13:05:02 -- CHAN 55 SET TO ZERO TO CAL JJK'  
 13:19:21 -- CHAN 55 ON JJK

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic : 2153 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	60.6	63	55.4	10	53.5	45	53.6	2	53.1
Cat2	94	60.5	183	58.3	131	61.6	110	54.4	78	51.2
Cat3	20	64.7	23	60.6	56	61.5	15	54.7	15	49.2
Cat4	18	66.9	15	61.6	30	63.1	12	58.1	6	49.9
Cat5	7	68.3	3	69.2	27	63.9	6	54.2	9	51.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	58.4	14	56.7	31	62.0	59	56.0	21	48.2
Cat2	112	60.8	148	60.1	168	63.4	140	58.0	27	49.4
Cat3	17	61.5	52	60.9	46	62.8	26	56.1	4	48.5
Cat4	29	65.2	29	61.2	27	65.7	5	60.4	2	50.1
Cat5	19	66.6	39	61.9	21	66.1	6	63.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	368	17.1	59.0	1191	55.3	60.0	284	13.2	62.8	173	8.0	63.4	137	6.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.430+/- 1.857	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	.905+/- .534	ppm	38	S BOT PER	-1.481+/- 1.871	mph
13	N TOP PAR	1.551+/- 1.663	mph	39	N VA 74'	.214+/- 1.372	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	2.379+/- 1.772	ppm
15	N TDP VER	.296+/- 1.431	ppm	41	N GND PER	-.166+/- 1.849	ppm
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.534+/- .791	ppm
17	N BOT PER	-.568+/- 1.243	ppm	43	N GND PAR	1.204+/- 2.042	ppm
18	N BOT PAR	1.432+/- 1.682	ppm	45	N GND VER	-.040+/- .550	ppm
19	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	-.449+/- .366	ppm
20	N BOT VER	-.316+/- 1.395	ppm	50	S TOP PER	-1.729+/- 1.950	ppm
21	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	.636+/- 1.431	ppm
22	N HA 102'	3.463+/- 1.750	ppm	52	S TOP PAR	-.814+/- 1.332	ppm
23	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzr-3	*****+/-*****	ppm
24	N WV 102'	320.203+/- 41.019	DEGR AZ	54	S TDP VER	-.545+/- .826	ppm
25	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzr-4	*****+/-*****	ppm
26	N Gnd Temp	96.291+/- 2.930	DEGR F	56	S GND PER	-.459+/- 1.245	ppm
27	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
28	N WV 74'	298.190+/- 37.549	DEGR AZ	58	S GND PAR	1.541+/- 1.445	ppm
29	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	65.706+/- 1.040	%
30	N 74' Temp	92.695+/- 2.436	DEGR F	60	S GND VER	-.317+/- .457	ppm
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	957.870+/- 166.915	W/m**2
32	N HA 74'	3.257+/- 3.295	ppm	64	S VA 55'	.410+/- 1.188	ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.14+/- 1.75	303.9+/- 45.1	4.5+/- 31.2
02	17 19 21	2.56+/- 1.55	290.5+/- 47.7	6.0+/- 37.7
03	38 40 42	3.60+/- 1.55	299.7+/- 37.9	8.9+/- 14.9
04	41 43 45	2.63+/- 1.55	285.9+/- 52.1	1.2+/- 18.3
05	50 52 54	2.55+/- 1.91	321.6+/- 42.6	12.8+/- 23.8
06	56 58 60	2.15+/- 1.37	269.0+/- 40.7	14.5+/- 22.1

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic : 2323 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	58.2	47	54.8	22	55.8	61	54.8	35	51.6
Cat2	109	61.6	191	57.3	165	60.6	122	55.5	74	51.0
Cat3	21	60.6	42	60.0	51	61.8	23	55.3	7	53.8
Cat4	17	64.3	15	58.4	33	62.3	15	59.8	2	52.8
Cat5	7	64.1	8	62.4	18	62.1	5	57.6	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	59.7	12	55.6	33	63.2	52	58.9	17	47.9
Cat2	138	60.9	178	60.1	147	64.2	129	56.3	36	46.4
Cat3	23	62.2	85	60.2	44	63.4	20	56.7	3	46.1
Cat4	26	66.4	44	61.7	34	66.4	14	59.5	0	0
Cat5	17	67.6	29	63.4	20	66.5	5	56.5	1	55.8

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	426	18.3	58.7	1289	55.5	60.2	299	12.9	62.9	200	8.6	64.0	108	4.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.100+/- 2.374	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	.685+/- 1.196	ppm	38	S BOT PER	-2.262+/- 2.315	ppm
13	N TOP PAR	.243+/- 1.948	ppm	39	N VA 74'	-.473+/- 1.211	ppm
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	1.600+/- 1.625	ppm
15	N TOP VER	-.415+/- 1.155	ppm	41	N GND PER	-1.094+/- 1.466	ppm
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.597+/- .940	ppm
17	N BOT PER	-1.899+/- 1.775	ppm	43	N GND PAR	.200+/- 1.590	ppm
18	N BOT PAR	.474+/- 1.544	ppm	45	N GND VER	-.114+/- .561	ppm
19	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	-.293+/- .272	ppm
20	N BOT VER	-.216+/- .982	ppm	50	S TOP PER	-2.796+/- 2.497	ppm
21	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	.561+/- .206	ppm
22	N HA 102'	4.649+/- 1.846	ppm	52	S TOP PAR	.449+/- .501	ppm
23	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzr-3	.604+/- .458	ppm
24	N WV 102'	5.019+/- 44.916	DEGR AZ	54	S TDP VER	.628+/- 1.251	ppm
25	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzr-4	*****+/-*****	ppm
26	N Gnd Temp	95.952+/- 1.992	DEGR F	56	S GND PER	-.622+/- 1.724	ppm
27	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
28	N WV 74'	337.534+/- 37.745	DEGR AZ	58	S GND PAR	1.147+/- 1.209	ppm
29	N CD/Byron	*****+/-*****	ppm	59	N Re1 Hum	64.892+/- 1.668	%
30	N 74' Temp	92.856+/- 2.918	DEGR F	60	S GND VER	.411+/- .501	ppm
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	873.169+/- 165.619	W/m**2
32	N HA 74'	4.226+/- 3.740	ppm	64	S VA 55'	.257+/- 1.370	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.11+/- 1.91	349.7+/- 41.8	-5.9+/- 28.1		
02	17 19 21	2.96+/- 1.44	348.0+/- 42.7	-8.8+/- 31.0		
03	38 40 42	3.79+/- 1.60	314.8+/- 41.9	13.1+/- 20.5		
04	41 43 45	2.18+/- 1.19	357.5+/- 51.9	-1.0+/- 19.2		
05	50 52 54	3.59+/- 1.97	337.6+/- 39.5	15.9+/- 31.4		
06	56 58 60	2.13+/- 1.38	277.6+/- 47.2	17.6+/- 21.1		

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2309 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	58.4	44	55.0	21	58.8	50	53.5	8	50.7
Cat2	116	59.5	240	57.2	159	60.0	131	54.8	87	50.6
Cat3	28	61.2	37	59.2	52	61.5	15	54.3	6	50.6
Cat4	17	63.8	16	60.5	37	60.1	12	56.0	6	55.8
Cat5	5	69.6	6	63.6	26	63.0	10	58.3	2	60.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	97	59.9	10	57.7	22	64.6	48	55.8	23	49.0
Cat2	130	62.4	136	60.2	155	63.9	137	57.0	29	50.0
Cat3	20	63.7	59	61.0	52	63.8	28	56.7	6	47.1
Cat4	20	65.5	34	62.1	27	64.9	7	56.6	1	44.8
Cat5	20	67.9	40	64.7	20	67.2	2	56.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	378	16.4	58.5	1320	57.2	60.3	303	13.1	61.6	177	7.7	64.7	131	5.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.684+/- 2.178	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.588+/- .134	ppm	38	S BOT PER	-3.239+/- 1.845	mph
13	N TOP PAR	2.625+/- 1.928	mph	39	N VA 74'	- .086+/- 1.406	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.484+/- 1.653	mph
15	N TOP VER	.193+/- 1.529	mph	41	N GND PER	- .930+/- 1.651	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	-.598+/- .800	mph
17	N BOT PER	-2.235+/- 1.835	mph	43	N GND PAR	1.592+/- 2.235	mph
19	N BOT PAR	2.610+/- 1.751	mph	45	N GND VER	-.087+/- .740	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	-.163+/- .107	ppm
21	N BOT VER	.322+/- 1.520	mph	50	S TOP PER	-3.867+/- 2.013	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	-.439+/- .123	ppm
23	N HA 102'	5.898+/- 1.613	mph	52	S TOP PAR	1.211+/- 1.401	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	-.486+/- .285	ppm
25	N WV 102'	340.593+/- 34.016	DEGR AZ	54	S TOP VER	-.776+/- .908	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.531+/- .136	ppm
27	N Gnd Temp	94.382+/- 2.768	DEGR F	56	S GND PER	-1.547+/- 1.414	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	323.444+/- 26.572	DEGR AZ	58	S GND PAR	2.505+/- 1.306	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	88.035+/- 4.109	%
31	N 74' Temp	91.731+/- 1.775	DEGR F	60	S GND VER	-.409+/- .439	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	771.528+/- 162.669	W/m <sup>2</sup>
35	N HA 74'	5.121+/- 3.543	mph	64	S VA 55'	.530+/- 1.029	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.23+/- 1.66	321.4+/- 27.6	7.0+/- 23.2		
02	17 19 21	4.34+/- 1.41	308.2+/- 30.0	7.4+/- 26.5		
04	38 40 42	5.19+/- 1.61	311.8+/- 21.7	6.2+/- 11.0		
04	41 43 45	3.11+/- 1.39	304.3+/- 48.5	-1.4+/- 15.8		
05	50 52 54	4.30+/- 1.88	329.1+/- 21.9	12.2+/- 16.2		
06	56 58 60	3.30+/- 1.32	297.2+/- 28.1	8.4+/- 11.7		

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2297 vehicles averaging 59.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	59.7	48	55.8	12	58.1	50	53.7	1	61.8
Cat2	126	61.4	199	57.3	138	60.3	135	55.8	75	51.3
Cat3	19	61.8	40	61.1	65	60.9	21	57.1	20	49.3
Cat4	15	65.4	16	63.2	32	62.8	15	58.8	16	52.5
Cat5	4	66.2	3	63.0	27	64.0	2	53.8	6	51.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	91	60.2	10	56.8	18	62.9	47	57.2	19	48.3
Cat2	117	61.5	156	60.8	186	64.4	124	57.7	25	47.5
Cat3	18	61.9	74	61.4	44	64.9	17	58.0	4	49.5
Cat4	29	64.6	32	64.8	28	66.6	11	58.4	2	51.9
Cat5	19	67.0	46	64.0	25	67.6	8	59.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	387	15.5	59.2	1282	55.8	60.4	322	14.0	62.6	196	8.5	64.1	140	6.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.610+/- 2.226	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.683+/- .353	ppm	38	S BOT PER	-3.498+/- 2.135	mph
13	N TOP PAR	1.300+/- 2.204	mph	39	N VA 74'	- .389+/- 1.080	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	3.116+/- 1.530	mph
15	N TOP VER	-.112+/- 1.206	mph	41	N GND PER	-1.107+/- 1.649	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	-.591+/- .903	mph
17	N ND/TECD	*****+/-*****	ppm	43	N GND PAR	1.390+/- 2.051	mph
19	N BOT PER	-2.273+/- 1.881	mph	45	N GND VER	-.027+/- .684	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	-.112+/- .116	ppm
21	N BOT VER	.042+/- 1.180	mph	50	S TOP PER	-3.916+/- 2.213	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	-.348+/- .136	ppm
23	N HA 102'	5.062+/- 1.717	mph	52	S TOP PAR	.821+/- 1.130	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	-.470+/- .366	ppm
25	N WV 102'	359.227+/- 32.260	DEGR AZ	54	S TOP VER	-.873+/- .988	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.500+/- .151	ppm
27	N Gnd Temp	95.405+/- 2.902	DEGR F	56	S GND PER	-1.617+/- 1.717	mph

28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WY 74'	333.757+/- 23.632	DEGR AZ	58	S GND PAR	2.239+/- 1.374	mph
30	N CD/Byron	*****/-*****	ppm	59	N Re1 Hum	86.260+/- .811	%
31	N 74' Temp	92.434+/- 2.932	DEGR F	60	S GND VER	.488+/- .485	mph
32	N CD2/Byron	*****/-*****	ppm	61	N Solar Rad	774.298+/- 152.638	W/m**2
35	N HA 74'	4.712+/- 3.937	mph	64	S VA 55'	.412+/- 1.123	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.65+/- 2.08	333.4+/- 33.6	1.1+/- 18.0		
02	17 19 21	3.69+/- 1.79	319.1+/- 38.7	1.3+/- 23.4		
03	38 40 42	5.19+/- 1.86	314.6+/- 25.9	6.6+/- 12.9		
04	41 43 45	2.80+/- 1.65	316.4+/- 47.4	-1.1+/- 19.4		
05	50 52 54	4.35+/- 2.14	344.1+/- 22.7	12.0+/- 19.8		
06	56 58 60	3.22+/- 1.61	295.1+/- 32.5	14.0+/- 19.1		

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 9082 vehicles averaging 59.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	209	59.4	202	55.3	65	56.9	206	53.9	47	51.7
Cat2	445	60.8	813	57.5	594	60.6	488	55.2	314	51.0
Cat3	88	62.0	142	60.2	224	61.4	74	55.5	48	50.1
Cat4	67	65.1	62	61.2	132	61.9	54	58.3	30	52.7
Cat5	23	67.0	20	63.8	96	63.4	23	56.7	17	52.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	364	59.6	46	56.6	104	63.1	206	56.5	80	48.4
Cat2	497	61.4	618	60.3	656	64.0	530	57.3	117	48.2
Cat3	78	62.4	260	60.9	186	63.7	91	56.8	17	47.8
Cat4	104	65.4	139	62.4	116	66.0	37	58.7	5	49.8
Cat5	75	67.3	154	63.5	86	67.8	22	59.3	1	55.6

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
57.0	1529	16.8	58.8	5082	56.0	60.3	1208	13.3	62.5	746	8.2	64.1	517	5.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.956+/- 2.342	mph	37	N VA 102'	*****/-*****	mph
12	N Dasibi CO	.708+/- .360	ppm	38	S BOT PER	-2.620+/- 2.195	mph
13	N TOP PAR	1.430+/- 2.115	mph	39	N VA 74'	-.184+/- 1.301	mph
14	N Dasibi O3	*****/-*****	ppm	40	S BOT PAR	2.645+/- 1.814	mph
15	N TOP VER	-.010+/- 1.365	mph	41	N GND PER	-.824+/- 1.697	mph
16	N NOX/TECO	*****/-*****	ppm	42	S BOT VER	.580+/- .860	mph
17	N BOT PER	-1.769+/- 1.835	mph	43	N GND PAR	1.096+/- 2.057	mph
19	N BOT PAR	1.536+/- 1.915	mph	45	N GND VER	-.067+/- .638	mph
20	N ND2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	-.254+/- .274	ppm
21	N BOT VER	.116+/- 1.302	mph	50	S TDP PER	-3.027+/- 2.335	mph
22	N ND/TECO	*****/-*****	ppm	51	N Ecolyzer-2	.546+/- .315	ppm
23	N HA 102'	4.768+/- 1.937	mph	52	S TDP PAR	.824+/- 1.174	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	.577+/- .486	ppm
25	N WV 102'	346.238+/- 40.533	DEGR AZ	54	S TDP VER	.655+/- 1.029	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	1.565+/- .175	ppm
27	N Gnd Temp	95.502+/- 2.708	DEGR F	56	S GND PER	-1.061+/- 1.620	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	323.874+/- 34.388	DEGR AZ	58	S GND PAR	1.858+/- 1.437	mph
30	N CD/Byron	*****/-*****	ppm	59	N Re1 Hum	66.223+/- 2.536	%
31	N 74' Temp	92.454+/- 2.535	DEGR F	60	S GND VER	4.06+/- 4.74	mph
32	N CO2/Byron	*****/-*****	ppm	61	N Solar Rad	844.216+/- 176.098	W/m**2
35	N HA 74'	4.329+/- 3.688	mph	64	S VA 55'	.402+/- 1.185	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.31+/- 2.02	327.5+/- 39.6	1.7+/- 25.2		
02	17 19 21	3.39+/- 1.69	316.8+/- 42.8	3.5+/- 30.2		
03	38 40 42	4.44+/- 1.61	310.4+/- 33.6	8.7+/- 15.4		
04	41 43 45	2.68+/- 1.49	314.8+/- 50.9	-3.3+/- 18.2		
05	50 52 54	3.70+/- 2.10	336.6+/- 34.1	13.2+/- 23.5		
06	56 58 60	2.70+/- 1.53	286.2+/- 39.3	13.6+/- 19.2		

14:06:13 -- Continuing 08/24/84 data run. Out of paper.  
 14:15:13 -- Cloud cover has decreased since morning to about 3/8. Rather hazy.  
 14:29:42 -- Chan 49 set to zero to cal jjk  
 14:38:54 -- CHAN 49 IS ON JJK  
 14:49:56 -- EAST-BOUND TRAFFIC IS GETTING HEAVY AND SLOWER AND POSSIBLY BUNCHED UP AT TIMES  
 14:50:00 -- JJK  
 14:50:53 -- NOW IT HAS SPEEDED BACK UP (IE, THE EAST-BOUND TRAFFIC)

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2260 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	59.4	49	55.9	8	53.2	55	54.1	5	52.0
Cat2	103	60.5	190	58.3	105	60.5	132	55.4	73	50.8
Cat3	18	60.8	40	60.2	61	62.0	25	53.7	15	49.6
Cat4	18	66.3	17	61.6	36	61.9	16	56.5	9	51.8
Cat5	8	68.3	13	63.4	43	64.2	8	49.7	3	52.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	59.5	8	55.8	29	64.5	41	54.7	17	48.8
Cat2	123	61.2	187	60.7	171	63.9	135	57.1	26	48.3
Cat3	15	62.8	59	60.8	52	64.6	19	56.7	1	49.1
Cat4	20	64.6	42	61.3	33	66.7	7	58.4	1	44.4
Cat5	13	68.7	37	64.0	26	67.2	2	64.5	1	40.6

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	357	15.8	59.0	1245	55.1	60.3	305	13.5	62.1	199	8.8	64.0	154	6.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.415+/- 2.400	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	.745+/- .277	ppm	38	S BOT PER	-2.616+/- 1.991	mph
13	N TOP PAR	.074+/- 2.122	mph	39	N VA 74'	-.306+/- 1.177	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	1.452+/- 2.114	mph
15	N TOP VER	-.357+/- 1.253	mph	41	N GND PER	-.619+/- 1.519	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.648+/- .903	mph
17	N BOT PER	-2.230+/- 2.046	mph	43	N GND PAR	-.087+/- 1.849	mph
19	N BOT PAR	-.344+/- 1.845	mph	45	N GND VER	-.039+/- .544	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.026+/- .245	ppm
21	N BOT VER	-.206+/- 1.167	mph	50	S TOP PER	-3.477+/- 1.968	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.263+/- .187	ppm
23	N HA 102'	4.942+/- 1.918	mph	52	S TOP PAR	-.369+/- .953	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.451+/- .472	ppm
25	N WV 102'	21.877+/- 36.069	DEGR AZ	54	S TOP VER	.807+/- .975	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.380+/- .142	ppm
27	N Gnd Temp	97.046+/- 3.985	DEGR F	56	S GND PER	-1.206+/- 1.576	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	343.156+/- 35.851	DEGR AZ	58	S GND PAR	1.322+/- 1.674	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	64.257+/- 1.755	%
31	N 74' Temp	93.555+/- 1.614	DEGR F	60	S GND VER	-.387+/- .553	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	822.212+/- 143.245	W/m**2
35	N HA 74'	4.093+/- 3.282	mph	64	S VA 55'	.231+/- 1.014	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.39+/- 2.03	355.3+/- 40.1	-2.0+/- 23.2
02	17 19 21	3.37+/- 1.63	348.8+/- 43.1	-2.6+/- 26.4
03	38 40 42	4.12+/- 1.59	335.0+/- 38.5	10.6+/- 15.7
04	41 43 45	2.18+/- 1.30	358.1+/- 52.8	-2.5+/- 25.1
05	50 52 54	3.99+/- 1.57	351.7+/- 27.1	9.7+/- 20.6
06	56 58 60	2.52+/- 1.62	299.9+/- 46.2	17.7+/- 26.1

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2262 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	58.7	80	56.2	3	53.3	45	54.2	40	51.1
Cat2	102	60.3	206	58.1	93	61.0	114	55.5	58	50.0
Cat3	10	62.1	35	62.4	78	62.2	22	58.1	3	50.7
Cat4	12	64.8	13	62.5	31	62.8	12	55.5	4	53.7
Cat5	4	60.7	3	61.4	41	64.2	3	62.3	1	47.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	60.0	13	55.6	21	64.2	40	55.6	19	49.8
Cat2	145	61.2	159	60.0	186	63.6	159	57.0	30	49.8
Cat3	26	61.4	60	61.3	50	63.9	24	58.5	2	42.6
Cat4	22	64.4	45	60.8	38	66.8	9	58.5	6	42.0
Cat5	9	68.3	45	63.6	17	69.1	1	61.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	386	17.1	59.0	1252	55.3	61.4	310	13.7	62.1	190	8.4	64.6	124	5.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.855+/- 2.306	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	-.777+/- .324	ppm	38	S BOT PER	-2.957+/- 2.386	mph
13	N TOP PAR	-.685+/- 2.115	mph	39	N VA 74'	-.153+/- 1.330	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	1.105+/- 1.602	mph
15	N TOP VER	.000+/- 1.362	mph	41	N GND PER	-.897+/- 1.605	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.577+/- .972	mph
17	N BOT PER	-2.253+/- 1.926	mph	43	N GND PAR	-.446+/- 2.049	mph
19	N BOT PAR	-.492+/- 1.928	mph	45	N GND VER	-.070+/- .526	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.056+/- .270	ppm
21	N BOT VER	-.039+/- 1.125	mph	50	S TOP PER	-3.641+/- 2.840	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	-.228+/- .269	ppm
23	N HA 102'	5.218+/- 2.155	mph	52	S TOP PAR	-.473+/- .533	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.424+/- .457	ppm
25	N WV 102'	41.392+/- 31.705	DEGR AZ	54	S TOP VER	.677+/- 1.158	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.276+/- .144	ppm
27	N Gnd Temp	98.317+/- 3.906	DEGR F	56	S GND PER	-.867+/- 1.607	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	7.661+/- 39.351	DEGR AZ	58	S GND PAR	1.151+/- 1.497	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	62.400+/- .669	%
31	N 74' Temp	93.372+/- 2.138	DEGR F	60	S GND VER	.444+/- .473	mph

UVW vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.05+/- 1.89	12.9+/- 42.2	1.6+/- 22.6
02	17 19 21	3.39+/- 1.57	14.7+/- 43.9	4.8+/- 24.2
03	38 40 42	3.99+/- 1.86	337.3+/- 35.0	10.3+/- 21.0
04	41 43 45	2.55+/- 1.23	28.7+/- 52.6	-4.3+/- 14.3
05	50 52 54	4.22+/- 2.41	348.9+/- 28.9	10.1+/- 21.3
06	56 58 60	2.23+/- 1.55	280.7+/- 47.0	19.2+/- 25.1

Average for 15 minute period ending at 14:45:00  
Traffic Data  
 Total Traffic = 2311 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	51	59.4	57	56.1	13	59.9	51	53.0	41	48.8
Cat 2	93	61.9	193	58.3	141	60.1	127	55.2	80	49.5
Cat 3	24	63.2	40	60.2	41	61.8	30	55.4	8	48.4
Cat 4	16	64.3	22	62.3	39	62.1	13	56.0	2	52.5
Cat 5	9	65.2	4	63.8	33	63.1	6	60.0	1	49.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	79	58.3	13	56.3	21	60.4	47	54.5	23	48.7
Cat 2	124	58.7	127	58.4	169	62.2	134	56.9	43	49.7
Cat 3	22	59.3	54	58.2	53	61.9	23	58.6	5	49.0
Cat 4	30	61.1	45	59.7	34	65.3	15	56.2	0	.0
Cat 5	24	61.8	55	61.6	33	65.3	3	54.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	396	17.1	58.0	1231	53.3	59.4	300	13.0	61.3	216	9.3	62.6	168	7.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.423+/- 2.221	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi C0	.733+/- .592	ppm	38	S BOT PER	-2.608+/- 1.875	mph
13	N TOP PAR	-1.345+/- 1.790	mph	39	N VA 74'	-1.188+/- 1.332	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	1.253+/- 1.416	mph
15	N TOP VER	-.211+/- 1.234	mph	41	N GND PER	-.701+/- 1.632	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.487+/- .857	mph
17	N BOT PER	-2.514+/- 1.788	mph	43	N GND PAR	-1.137+/- 1.782	mph
19	N BOT PAR	-.694+/- 1.681	mph	45	N GND VER	-.062+/- .609	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.105+/- 1.231	mph	50	S TOP PER	-3.491+/- 2.468	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.107+/- .088	ppm
23	N HA 102'	5.509+/- 2.198	mph	52	S TOP PAR	-.539+/- .833	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	-.347+/- .293	ppm
25	N WV 102'	43.295+/- 26.167	DEGR AZ	55	S TOP VER	530+/- 1.054	ppm
26	N NMHC/Byron	*****+/-*****	ppm	56	N Ecolyzer-4	1.021+/- .144	ppm
27	N Gnd Temp	97.906+/- 4.053	DEGR F	56	S GND PER	-.885+/- 1.544	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	12.463+/- 35.649	DEGR AZ	58	S GND PAR	1.246+/- 1.212	mph
30	N C0/Byron	*****+/-*****	ppm	59	N Rel Hum	61.277+/- .651	%
31	N 74' Temp	95.535+/- 2.684	DEGR F	60	S GND VER	-.373+/- .427	mph
32	N C02/Byron	*****+/-*****	ppm	61	N Solar Rad	935.662+/- 30.750	W/m==2
35	N HA 74'	4.833+/- 3.450	mph	64	S VA 55'	-.336+/- 1.335	mph

UVW vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.40+/- 1.99	25.9+/- 35.3	-1.4+/- 20.9
02	17 19 21	3.54+/- 1.40	17.2+/- 36.5	-2.0+/- 27.2
03	38 40 42	3.50+/- 1.63	330.5+/- 32.2	12.3+/- 20.9
04	41 43 45	2.53+/- 1.26	54.5+/- 48.8	-1.2+/- 17.9
05	50 52 54	3.96+/- 2.20	345.0+/- 28.2	12.6+/- 24.2
06	56 58 60	2.02+/- 1.56	277.2+/- 42.8	17.2+/- 25.3

Average for 15 minute period ending at 15:00:00  
Traffic Data  
 Total Traffic = 2473 vehicles averaging 52.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	57	59.6	50	55.8	31	58.5	56	53.0	63	49.7
Cat 2	119	60.1	226	57.0	173	60.4	129	54.8	98	49.6
Cat 3	25	62.7	32	59.9	57	61.5	28	53.4	19	51.0
Cat 4	21	65.1	15	61.5	36	62.9	10	53.7	7	52.7
Cat 5	8	71.4	8	67.9	21	64.5	8	57.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	34	43.3	4	44.4	12	53.2	25	50.5	45	44.7
Cat 2	129	37.0	127	43.5	189	49.4	172	47.9	62	48.5
Cat 3	21	37.8	60	46.2	88	48.1	30	46.6	6	44.4
Cat 4	23	47.2	30	46.6	28	49.8	19	48.4	3	40.5
Cat 5	11	48.1	47	48.9	41	52.2	10	57.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
52.1	377	15.2	51.4	1404	56.8	51.9	346	14.0	54.0	192	7.8	54.8	154	6.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.761+/- 1.828	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi C0	.619+/- .215	ppm	38	S BOT PER	-2.311+/- 2.239	mph
13	N TOP PAR	1.959+/- 2.868	mph	39	N VA 74'	1.155+/- 1.288	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	2.492+/- 2.161	mph
15	N TOP VER	.178+/- 1.356	mph	41	N GND PER	-.884+/- 1.380	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.794+/- .875	mph
17	N BOT PER	-1.732+/- 1.521	mph	43	N GND PAR	1.324+/- 2.634	mph
19	N BOT PAR	1.613+/- 3.006	mph	45	N GND VER	-.029+/- .586	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.383+/- .138	ppm
21	N BOT VER	.105+/- 1.291	mph	50	S TOP PER	-2.585+/- 2.097	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	-.055+/- .119	ppm
23	N HA 102'	5.583+/- 2.096	mph	52	S TOP PAR	1.263+/- 1.845	mph



24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	.373+/-	.292	ppm
25	N WV 102'	342.952+/- 43.203	DEGR AZ	54	S TOP VER	.912+/-	.880	ppm
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	1.033+/-	.137	ppm
27	N Gnd Temp	98.036+/- 3.050	DEGR F	56	S GND PER	-1.027+/-	1.551	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	*****-/*****		ppm
29	N WV 74'	326.876+/- 36.756	DEGR AZ	58	S GND PAR	1.768+/-	1.455	mph
30	N CO/Byron	*****-/*****	ppm	59	N Rel Hum	61.505+/-	.435	%
31	N 74' Temp	95.769+/- 2.019	DEGR F	60	S GND VER	.402+/-	.479	mph
32	N CO2/Byron	*****-/*****	ppm	61	N Solar Rad	806.816+/-	131.303	W/m**2
35	N HA 74'	5.040+/- 3.532	mph	64	S VA 55'	.634+/-	1.070	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.61+/-	1.88	325.6+/-	38.8	4.6+/-	19.2
02	17 19 21	3.91+/-	1.65	314.5+/-	44.1	4.4+/-	18.3
03	38 40 42	4.38+/-	1.88	308.6+/-	41.0	15.6+/-	20.3
04	41 43 45	3.05+/-	1.54	305.0+/-	49.3	.2+/-	15.7
05	50 52 54	3.61+/-	2.18	327.6+/-	38.6	21.1+/-	24.1
06	56 58 60	2.55+/-	1.65	282.6+/-	39.8	12.5+/-	20.6

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 9308 vehicles averaging 57.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	218	59.3	218	58.0	53	58.0	208	53.6	149	49.9
Cat2	417	60.7	815	57.9	512	60.5	502	55.2	309	49.9
Cat3	77	62.3	147	60.7	237	61.9	105	55.0	45	50.0
Cat4	67	65.2	67	62.0	142	62.4	51	55.6	22	52.5
Cat5	29	67.1	28	64.5	138	64.0	25	56.1	5	50.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	294	57.5	38	55.0	83	61.7	153	54.2	104	47.4
Cat2	521	54.6	600	56.4	895	59.9	600	54.4	161	48.2
Cat3	84	55.2	233	56.6	223	58.8	96	54.5	14	46.1
Cat4	95	59.2	162	58.0	133	62.8	50	54.0	8	41.8
Cat5	57	61.4	184	59.3	117	61.7	16	58.0	1	40.6

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	1516	16.3	56.7	5132	55.1	58.1	1261	13.6	58.9	797	8.6	61.4	600	6.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.114+/- 2.212	mph	37	N VA 102'	*****-/*****	ppm
12	N Dasibi CD	.719+/- .364	ppm	38	S BOT PER	-2.673+/- 2.137	mph
13	N TOP PAR	.001+/- 2.568	mph	39	N VA 74'	-.123+/- 1.293	ppm
14	N Dasibi D3	*****-/*****	ppm	40	S BOT PAR	1.576+/- 1.922	mph
15	N TOP VER	-.097+/- 1.316	mph	41	N GND PER	-.775+/- 1.535	mph
16	N NOX/TECO	*****-/*****	ppm	42	S BOT VER	.627+/- .908	mph
17	N BOT PER	-2.182+/- 1.845	mph	43	N GND PAR	-.085+/- 2.281	mph
19	N BOT PAR	.193+/- 2.352	mph	45	N GND VER	-.050+/- .566	ppm
20	N NO2/TECO	*****-/*****	ppm	49	N Ecolyzer-1	.148+/- .296	ppm
21	N BOT VER	-.042+/- 1.209	mph	50	S TOP PER	-3.299+/- 2.394	ppm
22	N ND/TECO	*****-/*****	ppm	51	N Ecolyzer-2	.163+/- .199	ppm
23	N HA 102'	5.313+/- 2.101	mph	52	S TOP PAR	.661+/- 1.199	ppm
24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	.399+/- .390	ppm
25	N WV 102'	25.634+/- 39.266	DEGR AZ	54	S TOP VER	.681+/- 1.052	ppm
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	1.173+/- .206	ppm
27	N Gnd Temp	97.326+/- 3.735	DEGR F	56	S GND PER	-.996+/- 1.569	ppm
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	*****-/*****	ppm
29	N WV 74'	352.480+/- 39.399	DEGR AZ	58	S GND PAR	1.372+/- 1.482	ppm
30	N CO/Byron	*****-/*****	ppm	59	N Rel Hum	62.360+/- 1.526	%
31	N 74' Temp	94.958+/- 2.366	DEGR F	60	S GND VER	.401+/- .485	ppm
32	N CO2/Byron	*****-/*****	ppm	61	N Solar Rad	878.301+/- 115.864	W/m**2
35	N HA 74'	4.429+/- 3.458	mph	64	S VA 55'	.394+/- 1.162	ppm

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.36+/-	1.95	.7+/-	42.2	.7+/-	21.6
02	17 19 21	3.55+/-	1.58	355.5+/-	45.1	1.1+/-	24.4
03	38 40 42	4.00+/-	1.77	328.0+/-	37.9	12.2+/-	19.6
04	41 43 45	2.58+/-	1.36	6.8+/-	53.8	-2.0+/-	18.7
05	50 52 54	3.85+/-	2.12	343.5+/-	31.5	13.4+/-	23.0
06	56 58 60	2.33+/-	1.61	284.8+/-	44.3	16.6+/-	24.4

15:09:46 -- SHUTTING DOWN DATA RUN. LAST BLOCK OF DATA.  
 Average for 15 minute period ending at 15:15:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzr-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzr-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	50.4+/- 44.3	*****+/-*****
02	17 19 21	*****+/-*****	48.9+/- 43.2	99.1+/-*****
03	38 40 42	*****+/-*****	25.5+/- 29.8	678.4+/-*****
04	41 43 45	*****+/-*****	49.1+/- 45.3	214.1+/-*****
05	50 52 54	*****+/-*****	-3.6+/- 18.0	*****+/-*****
06	56 58 60	64.42+/-98.47	-12.0+/- 30.4	*****+/-*****

Average for 15 minute period ending at 15:30:00  
 Average for 15 minute period ending at 15:45:00  
 Average for 15 minute period ending at 16:00:00  
 Average for hourly period ending at 16:00:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzr-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzr-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg A2	
01	11 13 15	*****~*****	*****~*****	*****~*****
02	17 19 21	*****~*****	*****~*****	*****~*****
03	28 40 42	*****~*****	*****~*****	*****~*****
04	41 43 45	*****~*****	*****~*****	*****~*****
05	50 52 54	*****~*****	*****~*****	*****~*****
06	56 58 60	*****~*****	*****~*****	*****~*****

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Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	08:00:00	1123 vehicles
02	14:00:00	1118 vehicles
03	08:00:00	1444 vehicles
04	08:00:00	1411 vehicles
05	08:00:00	1423 vehicles
06	08:00:00	1394 vehicles
07	08:00:00	1083 vehicles
08	08:00:00	1087 vehicles
09	08:00:00	545 vehicles
10	15:00:00	288 vehicles
11	00:00:00	.000 mph
12	09:00:00	1.668 ppm
13	10:00:00	3.804 mph
14	00:00:00	.000 ppm
15	09:00:00	.132 mph
16	00:00:00	.000 ppm
17	10:00:00	.034 mph
19	10:00:00	3.419 mph
20	00:00:00	.000 ppm
21	14:00:00	.116 mph
22	00:00:00	.000 ppm
23	15:00:00	5.313 mph
24	00:00:00	.000 ppm
25	14:00:00	346.238 DEGR A2
26	00:00:00	.000 ppm
27	15:00:00	97.326 DEGR F
28	00:00:00	.000 ppm
29	15:00:00	352.480 DEGR A2
30	00:00:00	.000 ppm
31	15:00:00	94.558 DEGR F
32	00:00:00	.000 ppm
35	11:00:00	4.546 mph
37	00:00:00	.000 mph
38	00:00:00	.000 mph
39	00:00:00	.000 mph
40	11:00:00	3.776 mph
41	09:00:00	.132 mph
42	11:00:00	.834 mph
43	11:00:00	1.997 mph
45	09:00:00	.002 mph
49	10:00:00	1.368 ppm
50	00:00:00	.000 mph
51	09:00:00	1.646 ppm
52	10:00:00	1.783 mph
53	09:00:00	1.834 ppm
54	09:00:00	.829 mph
55	09:00:00	3.243 ppm
56	08:00:00	.345 mph
57	00:00:00	.000 ppm
58	11:00:00	2.203 mph
59	08:00:00	91.773 %
60	12:00:00	.440 mph
61	15:00:00	878.301 W/m=2
64	09:00:00	.690 mph

NOTE: All times in the maximums are ending times for the interval

Channel	Name	Units	System Configuration		Offset	Record Type	Maximum Value	Minimum Value
			Instrument Location	Calibration Constant				
1	Radar 1	mph	W. Bridge-Inner Lane	20.00	.00	10	1200	-100
2	Radar 2	mph	E. Bridge-Inner Lane	20.00	.00	10	1200	-100
3	Radar 3	mph	W. Bridge-2nd Lane	20.00	.00	10	1200	-100
4	Radar 4	mph	E. Bridge-2nd Lane	20.00	.00	10	1200	-100
5	Radar 5	mph	W. Bridge-3rd Lane	20.00	.00	10	1200	-100
6	Radar 6	mph	E. Bridge-3rd Lane	20.00	.00	10	1200	-100
7	Radar 7	mph	W. Bridge-4th Lane	20.00	.00	10	1200	-100
8	Radar 8	mph	E. Bridge-4th Lane	20.00	.00	10	1200	-100
9	Radar 9	mph	W. Bridge-Exit Ramp	20.00	.00	10	1200	-100
10	Radar 10	mph	E. Bridge-Exit Ramp	20.00	.00	10	1200	-100
11	N TOP PER	mph	N. Tower Top UVW	38.93	.00	19	410	-410
12	N Dasibi CO	ppm	N. Side MEL 2	10.00	.00	7	2048	-20
13	N TOP PAR	ppm	N. Tower Top UVW	39.64	.00	19	410	-410
14	N Dasibi O3	ppm	N. Side MEL 2	.05	.00	3	2048	-20
15	N TOP VER	ppm	N. Tower Top UVW	51.25	.00	19	410	-410
16	N NOX/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
17	N BOT PER	mph	N. Tower Bot UVW	38.93	.00	19	410	-410
19	N BOT PAR	ppm	N. Tower Bot UVW	39.24	.00	19	410	-410
20	N NO2/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
21	N BOT VER	ppm	N. Tower Bot UVW	48.62	.00	19	410	-410
22	N ND/TECO	ppm	N. Side MEL 2	.10	.00	4	2048	-20
23	N HA 102'	mph	N. Tower Top HA	100.00	.00	12	300	-20
24	N THC/Byron	ppm	N. Side MEL 2	10.00	.00	5	410	-20
25	N WV 102'	DEGR AZ	N. Tower Top W Vane	360.00	.00	13	460	-20
26	N NMHC/Byro	ppm	N. Side MEL 2	10.00	.00	5	410	-20
27	N Gnd Temp	DEGR F	N. Side Gnd Temp.	180.00	-40.00	14	380	-20
28	N CH4/Byron	ppm	N. Side MEL 2	10.00	.00	5	410	-20
29	N WV 74'	DEGR AZ	N. Tower Bot W Vane	360.00	.00	13	460	-20
30	N CO/8yron	ppm	N. Side MEL 2	10.00	.00	5	410	-20
31	N 74' Temp	DEGR F	N. Tower Top Temp.	160.00	-40.00	14	380	-20
32	N CO2/Byron	ppm	N. Side MEL 2	500.00	.00	5	410	-20
35	N HA 74'	mph	N. Tower Bot HA	100.00	.00	12	300	-20
37	N VA 102'	mph	N. Tower Top V. Anem	48.91	.00	18	410	-410
38	S BOT PER	mph	S. Tower Bot UVW	35.16	.00	19	410	-410
39	N VA 74'	mph	N. Tower Top V. Anem	48.91	.00	18	410	-410
40	S BOT PAR	ppm	S. Tower Bot UVW	40.59	.00	19	410	-410
41	N GND PER	ppm	N. Gnd Stand UVW	40.92	.00	19	410	-410
42	S BOT VER	ppm	S. Tower Bot UVW	50.98	.00	19	410	-410
43	N GND PAR	ppm	N. Gnd Stand UVW	40.20	.00	19	410	-410
45	N GND VER	ppm	N. Gnd Stand UVW	50.79	.00	19	410	-410
49	N Ecolyzer-1	ppm	N. Tower Top Eco1.	50.00	.00	17	250	-20
50	S TOP PER	ppm	S. Tower Top UVW	32.94	.00	19	410	-410
51	N Ecolyzer-2	ppm	N. Tower Sec Eco1.	50.00	.00	17	250	-20
52	S TOP PAR	ppm	S. Tower Top UVW	34.26	.00	19	410	-410
53	N Ecolyzer-3	ppm	N. Tower Third Eco1.	100.00	.00	17	250	-20
54	S TOP VER	ppm	S. Tower Top UVW	48.33	.00	19	410	-410
55	N Ecolyzer-4	ppm	N. Tower 4th Eco1.	50.00	.00	17	250	-20
56	S GND PER	ppm	S. Gnd Stand UVW	40.76	.00	19	410	-410
57	N Ecolyzer-5	ppm	N. Tower 5th Eco1.	50.00	.00	17	250	-20
58	S GND PAR	ppm	S. Gnd Stand UVW	36.87	.00	19	410	-410
59	N Rel Hum	%	N. Side MEL 2 Tower	100.00	.00	15	410	-20
60	S GND VER	ppm	S. Gnd Stand UVW	42.34	.00	19	410	-410
61	N Solar Rad	W/m**2	N. Side MEL 2 Roof	278.90	.00	16	2048	-20
64	S VA 55'	mph	S. Tower Top V. Anem	38.15	.00	18	410	-410

Channel	Name	Units	Location	Group
1	Radar 1	mph	W. Bridge-Inner Lane	401
2	Radar 2	mph	E. Bridge-Inner Lane	201
3	Radar 3	mph	W. Bridge-2nd Lane	402
4	Radar 4	mph	E. Bridge-2nd Lane	202
5	Radar 5	mph	W. Bridge-3rd Lane	403
6	Radar 6	mph	E. Bridge-3rd Lane	203
7	Radar 7	mph	W. Bridge-4th Lane	404
8	Radar 8	mph	E. Bridge-4th Lane	204
9	Radar 9	mph	W. Bridge-Exit Ramp	405
10	Radar 10	mph	E. Bridge-Exit Ramp	205
11	N TDP PER	mph	N. Tower Top UVW	147
12	N Dasibi CO	ppm	N. Side MEL 2	115
13	N TDP PAR	mph	N. Tower Top UVW	147
14	N Dasibi O3	ppm	N. Side MEL 2	115
15	N TDP VER	mph	N. Tower Top UVW	147
16	N NOX/TECO	ppm	N. Side MEL 2	115
17	N BDT PER	mph	N. Tower Bot UVW	133
18	N BDT PAR	mph	N. Tower Bot UVW	133
20	N NO2/TECO	ppm	N. Side MEL 2	115
21	N BDT VER	mph	N. Tower Bot UVW	133
22	N NO/TECO	ppm	N. Side MEL 2	115
23	N HA 102'	mph	N. Tower Top HA	199
24	N THC/Byron	ppm	N. Side MEL 2	115
25	N WV 102'	DEGR AZ	N. Tower Top W Vane	199
26	N NMHC/Byro	ppm	N. Side MEL 2	115
27	N Gnd Temp	DEGR F	N. Side Gnd Temp.	105
28	N CH4/Byron	ppm	N. Side MEL 2	115
29	N WV 74'	DEGR AZ	N. Tower Bot W Vane	174
30	N CO/Byron	ppm	N. Side MEL 2	115
31	N 74' Temp	DEGR F	N. Tower Top Temp.	174
32	N CO2/Byron	ppm	N. Side MEL 2	115
35	N HA 74'	mph	N. Tower Bot HA	174
37	N VA 102'	mph	N. Tower Top V. Anem	199
38	S BDT PER	mph	S. Tower Bot UVW	319
39	N VA 74'	mph	N. Tower Bot V. Anem	174
40	S BDT PAR	mph	S. Tower Bot UVW	319
41	N GND PER	mph	N. Gnd Stand UVW	105
42	S BDT VER	mph	S. Tower Bot UVW	319
43	N GND PAR	mph	N. Gnd Stand UVW	105
45	N GND VER	mph	N. Gnd Stand UVW	105
49	N Ecolyzer-1	ppm	N. Tower Top Eco1.	199
50	S TOP PER	mph	S. Tower Top UVW	337
51	N Ecolyzer-2	ppm	N. Tower Sec Eco1.	174
52	S TOP PAR	mph	S. Tower Top UVW	337
53	N Ecolyzer-3	ppm	N. Tower Third Eco1.	147
54	S TOP VER	mph	S. Tower Top UVW	337
55	N Ecolyzer-4	ppm	N. Tower 4th Eco1.	133
56	S GND PER	mph	S. Gnd Stand UVW	305
57	N Ecolyzer-5	ppm	N. Tower 5th Eco1.	105
58	S GND PAR	mph	S. Gnd Stand UVW	305
59	N Rel Hum	%	N. Side MEL 2 Tower	125
60	S GND VER	mph	S. Gnd Stand UVW	305
61	N Solar Rad	W/m**2	N. Side MEL 2 Roof	112
64	S VA 55'	mph	S. Tower Top V. Anem	355

Grouping Code:

First digit--inst. bearing (1=North,2=East,3=South,4=West)

Second and third digits represent height in feet

EXAMPLE: 330 is an instrument on the south side of the road @ 30 feet.

SETC Averaging Program Output

Agency: Texas Transportation Institute      Site Location: IH610 between N. Main and Airline Dr.  
 Project 22830      Houston, Texas  
 Texas A & M University System  
 College Station, Texas 77843      Collection Period: Nov. 15 thru Dec. 19, 1984  
 Texas State Department of  
 Highways and Public Transportation  
 File D8-E  
 Austin, Texas 78701

Number of Collection days: 15  
 Pollutants monitored: Carbon Monoxide  
 Total Hydrocarbons  
 Non-Methane Hydrocarbons  
 Methane  
 Carbon Dioxide  
 Ozone  
 Nitrous Oxides (NOx)  
 Nitric Oxide (NO)  
 Nitrogen Dioxide

Traffic Monitoring  
 10 Stephenson MARK V Radars  
 5 Westbound Radars and  
 5 Eastbound Radar Units

Meteorological Data  
 8 Wind Speed & Direction  
 4 Thermometers  
 2 Psychrometers  
 1 Barometer  
 2 Pyranometers

Calibration Channels:

- 12
- 16
- 20
- 22
- 24
- 28
- 30
- 32
- 48
- 51
- 53
- 55
- 57

NOTE: UVW anemometer vector sums are a 3-D vector sum of all components. The bearing is the azimuth angle and hence is in degrees azimuth. The elevation angle is positive for up drafts and negative for down drafts. It ranges from +90 degrees to -90 degrees with a horizontal wind having 0 degrees.

Data for Nov. 15, 1984

10:26:58 -- Data run for day of 11/15/84. Operators are Michael Hlavinka and Guy Donaldson.  
 10:28:59 -- Cloud cover 1/2 to 5/8. Only CO data on upwind side but hope to have all inst  
 10:27:00 -- ruments in AEDAS-1 up. This is the first file of tape ZX1320.  
 10:28:17 -- CALIB. CHANNEL 57 ECCL. NCD-5 GRD  
 10:28:45 -- BEGIN CALIBRATION OF DASIBI CD      MMH  
 10:48:31 -- CALIB. NCO-4 GRD

Average for 15 minute period ending at 10:15:00  
 Average for 15 minute period ending at 10:30:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****/-*****	mph	37	N VA 102'	*****/-*****	mph
12	N Dasibi CD	*****/-*****	ppm	38	S BOT PER	*****/-*****	mph
13	N TOP PAR	*****/-*****	mph	39	N VA 74'	*****/-*****	mph
14	N Dasibi O3	*****/-*****	ppm	40	S BOT PAR	*****/-*****	mph
15	N TOP VER	*****/-*****	mph	41	N GND PER	*****/-*****	mph
16	N NOX/TECO	*****/-*****	ppm	42	S BOT VER	*****/-*****	mph
17	N BOT PER	*****/-*****	mph	43	N GND PAR	*****/-*****	mph
19	N BOT PAR	*****/-*****	mph	45	N GND VER	*****/-*****	mph
20	N ND2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BOT VER	*****/-*****	mph	50	S TOP PER	*****/-*****	ppm
22	N ND/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	*****/-*****	mph	52	S TOP PAR	*****/-*****	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	*****/-*****	DEGR A2	54	S TOP VER	*****/-*****	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	*****/-*****	DEGR F	56	S GND PER	*****/-*****	ppm
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	*****/-*****	DEGR A2	58	S GND PAR	*****/-*****	mph
30	N CO/Byron	*****/-*****	ppm	59	N Rel Hum	*****/-*****	%
31	N 74' Temp	*****/-*****	DEGR F	60	S GND VER	*****/-*****	mph
32	N CO2/Byron	*****/-*****	ppm	61	N Solar Rad	*****/-*****	W/m <sup>2</sup>
35	N HA 74'	*****/-*****	mph	64	S VA 55'	*****/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****/-*****	*****/-*****	*****/-*****
02	17 19 21	*****/-*****	*****/-*****	*****/-*****
03	38 40 42	*****/-*****	*****/-*****	*****/-*****
04	41 43 45	*****/-*****	*****/-*****	*****/-*****
05	50 52 54	*****/-*****	*****/-*****	*****/-*****
06	56 58 60	*****/-*****	*****/-*****	*****/-*****

Average for 15 minute period ending at 10:45:00

Traffic Data  
 Total Traffic = 1895 vehicles averaging 59.2 mph

Westbound Traffic

Radar	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.

Cat1	52	58.5	25	55.9	86	56.6	41	59.6	24	47.5
Cat2	61	61.9	175	57.4	134	58.6	127	59.6	36	48.6
Cat3	7	61.0	27	58.4	27	56.8	7	59.5	4	47.8
Cat4	8	64.8	18	61.1	5	63.5	15	60.0	2	46.8
Cat5	1	56.4	4	61.9	1	58.6	3	62.5	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	63.1	68	57.8	38	62.2	56	60.1	12	44.8
Cat2	196	62.6	113	60.5	147	61.5	136	60.4	41	48.4
Cat3	16	63.5	28	61.2	35	61.0	12	55.7	2	52.0
Cat4	16	63.1	15	61.9	18	60.9	2	52.7	0	0
Cat5	3	70.0	1	65.6	13	63.9	1	62.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	438	23.1	59.5	1166	61.5	59.3	165	8.7	61.3	99	5.2	63.7	27	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.509+/- 2.968	mph	37	N VA 102'	.440+/- 1.612	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	3.024+/- 1.959	mph
13	N TOP PAR	1.096+/- 2.002	mph	39	N VA 74'	.319+/- 1.586	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	.295+/- 1.784	mph
15	N TOP VER	.300+/- 1.408	mph	41	N GND PER	2.367+/- 1.927	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	1.07+/- 1.376	mph
17	N BOT PER	4.899+/- 2.662	mph	43	N GND PAR	-.734+/- 2.422	mph
19	N BOT PAR	.365+/- 2.062	mph	45	N GND VER	.236+/- .876	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.282+/- 1.290	mph	50	S TOP PER	4.338+/- 2.593	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.188+/- 2.367	ppm	52	S TOP PAR	.143+/- 1.092	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	184.768+/- 18.061	DEGR AZ	54	S TOP VER	.172+/- 1.578	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	84.905+/- 2.297	DEGR F	56	S GND PER	1.185+/- 1.283	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	178.373+/- 20.303	DEGR AZ	58	S GND PAR	-.412+/- 1.563	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	79.515+/- 2.093	%
31	N 74' Temp	79.459+/- 3.302	DEGR F	60	S GND VER	-.095+/- .948	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	824.582+/- 103.357	W/m**2
35	N HA 74'	7.200+/- 3.041	mph	64	S VA 55'	.485+/- 1.424	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.24+/- 2.74	192.2+/- 24.4	8.6+/- 21.0
02	17 19 21	5.51+/- 2.58	185.5+/- 24.8	8.7+/- 21.4
03	38 40 42	3.78+/- 1.94	186.7+/- 31.9	7.4+/- 21.7
04	41 43 45	3.47+/- 2.04	161.5+/- 42.1	7.8+/- 17.9
05	50 52 54	4.75+/- 2.55	184.2+/- 12.6	10.3+/- 26.7
06	56 58 60	2.14+/- 1.45	179.9+/- 44.4	12.5+/- 33.1

Average for 15 minute period ending at 11:00:00

Traffic Data  
Total Traffic : 1973 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	60.0	27	54.4	92	57.1	40	57.2	29	46.1
Cat2	69	61.2	181	57.4	147	58.1	126	59.3	33	47.7
Cat3	14	63.1	21	58.9	25	56.9	18	57.2	7	45.2
Cat4	13	65.5	21	61.2	8	58.5	10	60.0	1	43.0
Cat5	3	63.6	6	66.3	3	57.1	6	58.4	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	25	61.9	70	59.2	40	61.4	58	58.2	23	48.6
Cat2	181	63.5	109	61.1	158	61.6	139	59.5	40	45.8
Cat3	24	63.5	28	60.9	37	62.9	14	58.7	2	37.6
Cat4	16	65.3	14	59.6	16	64.5	6	61.8	1	52.4
Cat5	6	67.2	8	63.2	11	65.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	451	22.9	59.3	1183	60.0	59.7	190	9.6	62.1	106	5.4	63.6	43	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.443+/- 2.710	mph	37	N VA 102'	.406+/- 1.704	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	2.752+/- 2.317	mph
13	N TOP PAR	3.635+/- 2.508	mph	39	N VA 74'	.022+/- 1.593	mph
14	N Dasibi O3	.022+/- .004	ppm	40	S BOT PAR	.618+/- 1.793	mph
15	N TOP VER	.176+/- 1.699	mph	41	N GND PER	2.577+/- 1.939	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.090+/- 1.424	mph
17	N BOT PER	5.194+/- 2.723	mph	43	N GND PAR	1.478+/- 2.936	mph
19	N BOT PAR	2.893+/- 2.969	mph	45	N GND VER	-.001+/- 1.233	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.206+/- 1.436	mph	50	S TOP PER	3.540+/- 2.671	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.118+/- 2.919	ppm	52	S TOP PAR	.655+/- 1.881	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	204.059+/- 20.793	DEGR AZ	54	S TOP VER	.053+/- 1.439	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	83.680+/- 3.001	DEGR F	56	S GND PER	.941+/- 1.362	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	194.330+/- 22.464	DEGR AZ	58	S GND PAR	-.129+/- 1.488	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	76.291+/- .502	%
31	N 74' Temp	79.876+/- 1.917	DEGR F	60	S GND VER	.191+/- .715	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	653.900+/- 11.204	W/m**2
35	N HA 74'	8.223+/- 2.703	mph	64	S VA 55'	.430+/- 1.363	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.32+/- 2.46	214.9+/- 23.7	2.5+/- 16.3
02	17 19 21	6.87+/- 2.51	208.9+/- 28.6	4.0+/- 15.0
03	38 40 42	3.78+/- 2.09	192.1+/- 39.1	6.9+/- 29.0
04	41 43 45	4.28+/- 2.03	199.3+/- 42.5	1.3+/- 19.1
05	50 52 54	4.19+/- 2.71	195.1+/- 25.3	10.3+/- 35.6
06	56 58 60	1.98+/- 1.34	184.7+/- 48.6	11.3+/- 25.0



Average for hourly period ending at 11:00:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	<u>Radar 1</u>		<u>Radar 3</u>		<u>Radar 5</u>		<u>Radar 7</u>		<u>Radar 9</u>	
	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	<u>Radar 2</u>		<u>Radar 4</u>		<u>Radar 6</u>		<u>Radar 8</u>		<u>Radar 10</u>	
	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

<u>Spd.</u>	<u>CAT 1</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 2</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 3</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 4</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 5</u>	<u>%</u>
	<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>			<u>Total</u>	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>	<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibl CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibl O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

<u>UVW</u>	<u>Channels</u>	<u>Vector Sum (mph)</u>	<u>Bearing Deg AZ</u>	<u>Elevation Angle (Deg)</u>
O1	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
O2	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
O3	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
O4	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
O5	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
O6	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

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11:05:50 -- END CALIBRATION OF DASIBI CO.  
 11:06:24 -- Begin calib of NCO-2 MWH.  
 11:17:53 -- END calib of NCO-2 MWH.  
 11:18:10 -- Begin calib of NCO-1 MWH.  
 11:29:03 -- Recalibrates NCO-5 MWH.  
 11:32:57 -- END CALIB OF NCO-1 MWH.  
 11:37:59 -- Ignore all previous data for NCO-5 MWH.  
 11:48:28 -- end of calib. nco-5

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1980 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	59.1	39	55.1	79	57.9	39	58.8	31	48.0
Cat2	63	62.6	188	57.7	160	58.2	122	59.8	38	48.9
Cat3	11	61.7	26	60.4	24	57.8	29	56.0	4	48.7
Cat4	11	62.4	16	60.8	13	57.5	6	54.8	2	51.1
Cat5	3	67.6	2	68.6	2	62.7	2	66.2	1	57.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	62.0	67	57.2	40	60.9	65	58.1	25	47.8
Cat2	179	62.8	101	60.6	189	61.5	119	60.0	42	48.0
Cat3	20	62.9	32	61.2	36	61.6	7	60.5	3	41.2
Cat4	13	65.4	19	61.7	20	62.5	2	54.8	0	0
Cat5	11	63.4	4	59.9	10	63.5	2	57.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	468	23.6	59.4	1181	59.6	59.6	192	9.7	61.0	102	5.2	63.3	37	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.752+/-	2.615	37	N VA 102'	.078+/-	1.495
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	2.044+/-	1.940
13	N TOP PAR	3.479+/-	2.281	39	N VA 74'	-.180+/-	1.612
14	N Dasibi O3	.021+/-	.003	40	S BOT PAR	1.290+/-	1.681
15	N TOP VER	.088+/-	1.468	41	N GND PER	2.826+/-	1.987
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.031+/-	1.330
17	N BOT PER	5.289+/-	2.408	43	N GND PAR	.947+/-	2.212
19	N BOT PAR	2.622+/-	2.380	45	N GND VER	.058+/-	.971
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.032+/-	1.378	50	S TOP PER	3.012+/-	2.545
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.026+/-	2.882	52	S TOP PAR	.577+/-	1.328
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	209.733+/-	14.275	54	S TOP VER	-.136+/-	1.262
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.077+/-	1.417
27	N Gnd Temp	83.706+/-	3.073	56	S GND PER	-.557+/-	1.155
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	196.493+/-	18.067	58	S GND PAR	-.530+/-	1.218
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	77.724+/-	1.503
31	N 74' Temp	79.485+/-	3.685	60	S GND VER	.058+/-	.489
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	531.185+/-	205.656
35	N HA 74'	7.807+/-	2.872	64	S VA 55'	.261+/-	1.346

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.25+/- 2.51	212.3+/- 19.6	3.6+/- 14.7
02	17 19 21	6.49+/- 2.45	206.5+/- 21.5	3.0+/- 15.3
03	38 40 42	3.07+/- 2.20	211.4+/- 33.1	6.6+/- 23.4
04	41 43 45	3.91+/- 1.81	200.1+/- 37.0	3.1+/- 20.3
05	50 52 54	3.52+/- 2.64	194.6+/- 16.2	10.1+/- 36.5
06	56 58 60	1.41+/- 1.25	221.0+/- 42.1	13.8+/- 19.2

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 2013 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	59.2	32	54.6	72	56.7	31	59.3	36	49.0
Cat2	59	61.6	196	57.4	147	58.1	107	59.8	48	50.0
Cat3	14	61.2	28	57.1	34	56.9	24	58.7	5	45.0
Cat4	16	63.6	17	59.2	13	57.3	12	60.8	3	47.4
Cat5	1	62.8	7	63.0	2	58.7	4	57.4	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	63.4	74	57.3	51	60.5	55	57.3	21	45.6
Cat2	190	63.2	114	60.6	180	60.9	108	58.1	51	45.3
Cat3	22	64.5	30	58.1	37	60.7	15	57.9	2	50.4
Cat4	21	65.9	13	61.5	18	61.2	3	60.4	0	0
Cat5	12	67.0	7	62.4	6	63.7	1	57.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	446	22.2	58.9	1200	59.6	58.9	211	10.5	61.3	118	5.8	63.3	40	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.868+/-	2.058	37	N VA 102'	.256+/-	1.067
12	N Dasibi CO	1.610+/-	.396	38	S BOT PER	1.737+/-	1.579
13	N TOP PAR	3.574+/-	2.234	39	N VA 74'	.052+/-	1.197
14	N Dasibi O3	.019+/-	.004	40	S BOT PAR	1.010+/-	1.218
15	N TOP VER	.274+/-	1.182	41	N GND PER	1.919+/-	1.738
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.067+/-	1.043
17	N BOT PER	3.342+/-	1.784	43	N GND PAR	1.065+/-	2.480
19	N BOT PAR	2.780+/-	2.226	45	N GND VER	.068+/-	.393
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.224+/-	1.141	50	S TOP PER	2.630+/-	1.905
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.021+/-	.222
23	N HA 102'	7.795+/-	2.730	52	S TOP PAR	.314+/-	.667
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	210.132+/-	16.534	54	S TOP VER	.052+/-	1.162
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.245+/-	.564
27	N Gnd Temp	83.472+/-	2.582	56	S GND PER	-.627+/-	.977
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	204.387+/-	18.783	58	S GND PAR	.420+/-	1.153
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	80.215+/-	1.115

31	N 74' Temp	78.990+/-	2.311	DEGR F	60	S GND VER	.044+/-	.403	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	289.936+/-	182.053	W/m**2
35	N HA 74'	5.933+/-	2.446	mph	64	S VA 55'	.248+/-	1.284	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.75+/- 2.32	223.5+/- 21.1	6.5+/- 16.5
02	17 19 21	4.88+/- 2.10	216.8+/- 24.5	6.4+/- 17.2
03	38 40 42	2.68+/- 1.32	208.9+/- 35.3	6.3+/- 22.8
04	41 43 45	3.40+/- 1.76	206.1+/- 42.8	3.0+/- 15.3
05	50 52 54	3.00+/- 1.81	190.8+/- 20.3	6.8+/- 33.3
06	56 58 60	1.30+/- 1.17	213.0+/- 44.2	9.9+/- 22.2

Average for 15 minute period ending at 11:45:00  
Traffic Data  
 Total Traffic = 2057 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	52	59.7	24	54.3	77	57.6	58	59.0	45	47.2
Cat 2	74	60.9	224	57.4	144	58.4	132	58.4	43	49.3
Cat 3	13	61.8	25	59.4	25	55.7	17	58.8	5	50.9
Cat 4	9	61.9	20	58.6	18	58.2	12	59.2	2	41.0
Cat 5	0	.0	5	63.4	1	63.8	3	53.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	30	62.7	66	57.0	40	60.4	60	57.3	35	46.3
Cat 2	182	63.5	107	60.6	152	59.9	134	58.7	45	46.5
Cat 3	25	63.6	27	59.9	33	60.8	11	60.2	0	.0
Cat 4	13	64.7	16	61.7	26	62.7	8	58.2	3	51.6
Cat 5	2	67.4	2	61.6	11	65.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	487	23.7	58.8	1237	60.1	59.7	182	8.8	60.2	127	6.2	63.1	24	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.550+/- 1.802	mph	37	N VA 102'	.277+/- .835	mph
12	N Desibi CO	1.963+/- .423	ppm	38	S BOT PER	1.518+/- 1.215	mph
13	N TOP PAR	1.781+/- 1.472	mph	39	N VA 74'	-.052+/- 1.003	mph
14	N Desibi O3	-.017+/- .003	ppm	40	S BOT PAR	-.377+/- .698	mph
15	N TOP VER	-.029+/- .999	ppm	41	N GND PER	1.812+/- 1.528	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.079+/- .710	mph
17	N BOT PER	2.938+/- 1.564	mph	43	N GND PAR	-1.005+/- 1.820	mph
19	N BOT PAR	1.025+/- 1.577	mph	45	N GND VER	.128+/- .873	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	.931+/- .201	ppm
21	N BOT VER	.146+/- .916	mph	50	S TOP PER	2.184+/- 1.761	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.950+/- .189	ppm
23	N HA 102'	6.446+/- 1.767	mph	52	S TOP PAR	.138+/- .078	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.218+/- .542	ppm
25	N WV 102'	202.720+/- 17.205	DEGR AZ	54	S TOP VER	-.005+/- .892	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.074+/- .480	ppm
27	N Gnd Temp	81.544+/- 2.707	DEGR F	56	S GND PER	.307+/- .547	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	191.862+/- 18.550	DEGR AZ	58	S GND PAR	.223+/- .645	mph
30	N CO/Byron	*****+/-*****	ppm	60	N Rot Hum	81.583+/- .822	%
31	N 74' Temp	75.443+/- 3.163	DEGR F	60	S GND VER	.126+/- .220	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	195.970+/- 8.991	W/m**2
35	N HA 74'	5.235+/- 2.372	mph	64	S VA 55'	.160+/- .804	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.35+/- 1.77	208.0+/- 20.6	4.4+/- 18.2
02	17 19 21	3.63+/- 1.53	197.9+/- 26.2	6.5+/- 20.8
03	38 40 42	1.87+/- 1.17	197.2+/- 34.5	9.7+/- 21.6
04	41 43 45	2.82+/- 1.46	157.7+/- 43.7	3.8+/- 18.6
05	50 52 54	2.40+/- 1.68	189.8+/- 12.5	8.5+/- 33.3
06	56 58 60	.86+/- .71	215.7+/- 37.5	23.1+/- 18.0

Average for 15 minute period ending at 12:00:00  
Traffic Data  
 Total Traffic = 2018 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	48	58.5	27	58.2	86	57.6	54	59.9	39	46.4
Cat 2	77	61.0	183	58.9	199	59.0	132	60.0	44	49.2
Cat 3	10	59.8	37	58.8	32	55.3	14	58.0	4	44.6
Cat 4	10	64.7	21	60.1	14	58.0	8	59.5	0	.0
Cat 5	9	67.0	2	64.2	1	64.1	2	58.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	18	58.9	71	57.7	35	61.6	42	58.7	27	45.2
Cat 2	194	62.4	116	60.0	169	61.2	124	58.4	44	47.5
Cat 3	25	63.8	26	60.4	39	62.3	9	55.8	1	51.4
Cat 4	11	65.7	13	61.9	18	64.8	3	54.3	0	.0
Cat 5	5	67.5	6	60.8	8	64.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	448	22.2	59.1	1242	61.5	59.2	197	9.8	61.7	98	4.9	64.5	33	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.902+/- 1.684	mph	37	N VA 102'	.232+/- .852	mph
12	N Desibi CO	1.949+/- .581	ppm	38	S BOT PER	2.086+/- 1.287	mph
13	N TOP PAR	.214+/- 1.598	mph	39	N VA 74'	-.040+/- .862	mph
14	N Desibi O3	.018+/- .003	ppm	40	S BOT PAR	-.027+/- 1.030	mph
15	N TOP VER	.140+/- .851	mph	41	N GND PER	1.199+/- 1.179	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.078+/- .670	mph
17	N BOT PER	2.385+/- 1.483	mph	43	N GND PAR	-2.027+/- 1.794	mph
19	N BOT PAR	-.287+/- 1.401	mph	45	N GND VER	.174+/- .725	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	.958+/- .303	ppm
21	N BOT VER	.100+/- .824	mph	50	S TOP PER	2.818+/- 1.622	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.014+/- .228	ppm

23	N HA 102'	4.804+/-	1.340	mph	52	S TDP PAR	.119+/-	.173	mph
24	N THC/Byron	*****+/-	*****	ppm	53	N Ecolyzer-3	1.276+/-	.572	ppm
25	N WV 102'	185.364+/-	22.426	DEGR AZ	54	S TDP VER	-.151+/-	.835	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	2.079+/-	.483	ppm
27	N Gnd Temp	84.957+/-	2.657	DEGR F	56	S GND PER	.511+/-	.658	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	2.505+/-	1.247	ppm
29	N WV 74'	177.924+/-	23.731	DEGR AZ	58	S GND PAR	-.253+/-	1.018	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	78.925+/-	2.487	%
31	N 74' Temp	80.153+/-	3.504	DEGR F	60	S GND VER	1.6+/-	.178	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	565.430+/-	224.422	W/m**2
35	N HA 74'	4.150+/-	1.983	MDH	64	S VA 55'	-.019+/-	.745	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.44+/-	1.59	188.5+/-	29.9	5.1+/- 18.0
02	17 19 21	2.92+/-	1.43	177.7+/-	32.4	3.5+/- 19.4
03	38 40 42	2.45+/-	1.16	182.0+/-	33.6	7.0+/- 18.3
04	41 43 45	2.86+/-	1.57	126.2+/-	35.4	1.6+/- 22.5
05	50 52 54	2.79+/-	1.57	186.2+/-	12.4	3.1+/- 26.3
06	55 58 60	1.05+/-	.86	178.4+/-	47.8	15.6+/- 14.1

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8068 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	210	59.1	122	55.0	314	57.5	182	59.3	151	47.6
Cat 2	273	61.5	791	57.4	810	58.4	493	59.5	173	49.4
Cat 3	48	61.2	116	58.9	115	56.4	84	57.4	19	47.5
Cat 4	46	63.2	74	59.6	58	57.8	38	59.1	7	46.6
Cat 5	13	66.8	16	64.0	6	61.8	11	58.2	1	57.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	95	61.9	278	57.3	166	60.8	222	57.8	108	48.3
Cat 2	745	63.0	438	60.5	670	60.9	485	59.1	182	46.8
Cat 3	92	63.7	115	60.2	145	61.4	42	58.5	6	46.0
Cat 4	58	65.5	61	61.7	82	62.8	16	57.4	3	51.6
Cat 5	30	65.8	19	61.3	35	64.2	3	57.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	1849	22.9	59.1	4860	60.2	59.3	782	9.7	61.0	443	5.5	63.6	134	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	4.017+/-	2.316	37	N VA 102'	.210+/-	1.116	mph
12	N Dasibi CD	1.769+/-	.498	38	S BDT VER	1.841+/-	1.543	ppm
13	N TDP PAR	2.262+/-	2.368	39	N VA 74'	-.058+/-	1.203	mph
14	N Dasibi D3	.019+/-	.004	40	S BDT PAR	.862+/-	1.305	ppm
15	N TDP VER	.118+/-	1.151	41	N GND PER	1.939+/-	1.729	ppm
16	N ND/TECD	*****+/-	*****	42	S BDT VER	-.048+/-	.975	ppm
17	N BDT PER	3.489+/-	2.135	43	N GND PAR	-.255+/-	2.467	ppm
18	N BDT PAR	1.535+/-	2.306	45	N GND VER	.107+/-	.870	ppm
20	N ND2/TECD	*****+/-	*****	48	N Ecolyzer-1	*****+/-	*****	ppm
21	N BDT VER	.110+/-	1.088	50	S TDP PER	2.611+/-	2.003	ppm
22	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	7.267+/-	2.965	52	S TDP PAR	-.287+/-	.768	ppm
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	202.219+/-	20.164	54	S TDP VER	-.060+/-	1.054	ppm
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	2.120+/-	.495	ppm
27	N Gnd Temp	83.420+/-	2.959	56	S GND PER	.501+/-	.875	ppm
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	192.771+/-	21.788	58	S GND PAR	.230+/-	1.071	ppm
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	79.112+/-	2.455	%
31	N 74' Temp	79.270+/-	3.192	60	S GND VER	-.093+/-	.347	ppm
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	395.631+/-	234.196	W/m**2
35	N HA 74'	5.731+/-	2.735	64	S VA 55'	.160+/-	1.083	ppm

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.20+/-	2.53	208.8+/-	25.6	4.9+/- 16.9
02	17 19 21	4.49+/-	2.35	200.4+/-	29.2	4.9+/- 18.3
03	38 40 42	2.52+/-	1.58	199.9+/-	35.2	7.4+/- 21.6
04	41 43 45	3.27+/-	1.70	172.2+/-	45.7	2.8+/- 19.3
05	50 52 54	2.93+/-	2.00	190.3+/-	15.9	7.8+/- 32.5
06	55 58 60	1.11+/-	1.06	208.8+/-	44.3	15.6+/- 19.2

12:48:28 -- light rain shower started

Average for 15 minute period ending at 12:15:00

Traffic Data

Total Traffic = 1952 vehicles averaging 58.6 mph

Westbound Traffic

Table with 5 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1 through CAT 5, including Spd., Total, and %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their measurements.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for UVW.

Average for 15 minute period ending at 12:30:00

Traffic Data

Total Traffic = 2003 vehicles averaging 58.5 mph

Westbound Traffic

Table with 5 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1 through CAT 5, including Spd., Total, and %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their measurements.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for UVW.

01	11	13	15	5.85+/- 2.23	210.8+/- 17.9	4.7+/- 16.1
02	17	19	21	5.17+/- 2.30	205.7+/- 23.8	4.9+/- 19.1
03	38	40	42	3.05+/- 1.60	202.6+/- 31.4	4.3+/- 22.4
04	41	43	45	3.35+/- 2.10	179.7+/- 38.6	1.1+/- 24.3
05	50	52	54	3.98+/- 2.46	190.2+/- 14.8	8.0+/- 30.5
06	56	58	60	1.57+/- 1.30	203.7+/- 45.4	8.2+/- 22.2

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 1885 vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	56.6	43	54.8	91	57.6	56	59.3	29	47.1
Cat2	61	59.1	200	57.3	120	58.8	123	59.5	36	48.4
Cat3	9	60.3	19	58.6	28	59.7	14	61.1	4	49.8
Cat4	12	61.8	21	60.0	14	57.3	11	60.1	4	42.8
Cat5	0	.0	6	81.2	0	.0	4	63.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	17	62.1	58	58.2	35	59.9	66	57.3	21	46.2
Cat2	145	62.5	116	60.5	161	61.1	130	58.6	45	45.3
Cat3	13	64.4	20	60.3	31	62.8	10	58.0	2	45.4
Cat4	8	64.2	13	64.2	19	64.8	7	58.2	3	45.7
Cat5	3	78.2	2	60.5	7	67.5	1	66.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	463	24.6	58.9	1137	60.3	60.3	150	8.0	60.4	112	5.9	66.8	23	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.321+/- 2.479	mph	37	N VA 102'	.375+/- .975	mph
12	N Dasibi CO	1.476+/- .357	ppm	38	S BOT PER	1.888+/- 1.425	mph
13	N TOP PAR	3.065+/- 1.881	mph	39	N VA 74'	-.188+/- 1.072	mph
14	N Dasibi O3	.020+/- .004	ppm	40	S BOT PAR	1.076+/- 1.481	mph
15	N TOP VER	-.038+/- 1.075	mph	41	N GND PER	2.232+/- 1.854	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.158+/- 1.246	mph
17	N BOT PER	4.238+/- 2.285	mph	43	N GND PAR	.767+/- 2.163	mph
19	N BOT PAR	2.351+/- 1.985	mph	45	N GND VER	-.062+/- .930	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.804+/- .390	ppm
21	N BOT VER	.055+/- 1.013	mph	50	S TOP PER	2.822+/- 1.700	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.874+/- .164	ppm
23	N HA 102'	8.443+/- 2.763	mph	52	S TOP PAR	.451+/- .982	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.898+/- .500	ppm
25	N WV 102'	209.394+/- 17.174	DEGR AZ	54	S TOP VER	.057+/- 1.308	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.459+/- .433	ppm
27	N Gnd Temp	83.576+/- 2.308	DEGR F	56	S GND PER	.328+/- 1.297	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.878+/- 1.081	ppm
29	N WV 74'	196.232+/- 17.866	DEGR AZ	58	S GND PAR	.580+/- 1.321	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	77.919+/- .562	%
31	N 74' Temp	79.720+/- 3.228	DEGR F	60	S GND VER	.084+/- .531	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	258.054+/- 58.262	W/m**2
35	N HA 74'	6.679+/- 2.818	mph	64	S VA 55'	.166+/- 1.313	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	5.72+/- 2.48	215.7+/- 22.6	.7+/- 12.8
02	17 19 21	5.30+/- 2.36	207.3+/- 22.5	4.5+/- 15.5
03	38 40 42	2.89+/- 1.37	208.5+/- 34.3	6.3+/- 23.5
04	41 43 45	3.36+/- 1.80	195.4+/- 44.8	2.7+/- 22.2
05	50 52 54	3.33+/- 1.62	190.5+/- 22.9	8.5+/- 31.2
06	56 58 60	1.47+/- 1.32	217.3+/- 48.8	11.9+/- 14.4

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 1837 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	55.7	28	57.0	68	56.2	56	58.7	39	47.2
Cat2	53	58.5	192	57.1	132	57.3	118	58.0	43	47.6
Cat3	9	61.3	23	57.3	31	57.4	17	57.6	1	54.0
Cat4	4	61.9	14	59.6	12	58.2	8	54.3	2	47.8
Cat5	4	62.8	2	61.4	2	55.9	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	60.8	77	55.9	33	59.2	67	56.5	36	45.2
Cat2	154	60.7	110	58.7	185	59.1	110	58.7	46	45.0
Cat3	18	62.7	18	56.9	29	59.9	15	55.0	3	42.1
Cat4	16	63.3	16	58.0	16	55.5	5	55.9	1	46.8
Cat5	3	54.4	1	60.7	4	59.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	470	24.9	57.5	1143	60.6	58.1	184	8.7	58.0	94	5.0	59.3	16	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.85+/- 1.714	mph	37	N VA 102'	.415+/- 1.163	mph
12	N Dasibi CO	1.331+/- .556	ppm	38	S BOT PER	1.493+/- 1.902	mph
13	N TOP PAR	6.718+/- 3.579	mph	39	N VA 74'	-.080+/- 1.265	mph
14	N Dasibi O3	.020+/- .007	ppm	40	S BOT PAR	2.864+/- 1.673	mph
15	N TOP VER	.483+/- 1.151	mph	41	N GND PER	.712+/- 2.006	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.182+/- 1.148	mph
17	N BOT PER	9.66+/- 1.551	mph	43	N GND PAR	3.713+/- 2.843	mph
19	N BOT PAR	6.082+/- 3.461	mph	45	N GND VER	-.280+/- .805	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.001+/- .329	ppm
21	N BOT VER	.512+/- 1.034	mph	50	S TOP PER	.833+/- 2.049	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.128+/- .378	ppm
23	N HA 102'	9.556+/- 2.976	mph	52	S TOP PAR	1.679+/- 2.388	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.089+/- .707	ppm
25	N WV 102'	247.272+/- 20.687	DEGR AZ	54	S TOP VER	-.056+/- 1.289	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.562+/- .721	ppm
27	N Gnd Temp	82.273+/- 2.906	DEGR F	56	S GND PER	-.070+/- 1.210	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.345+/- 1.159	ppm
29	N WV 74'	237.700+/- 19.608	DEGR AZ	58	S GND PAR	1.297+/- 1.324	mph

30	M CO/Byron	*****+/-*****	ppm	59	N Rel Hum	78.719+/-	2.623	%
31	N 74' Temp	80.528+/- 3.236	DEGR F	60	S GND VER	.140+/-	.467	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	268.545+/-	85.856	W/m**2
35	N HA 74'	9.138+/- 4.529	mph	64	S VA 55'	-.171+/-	1.163	mph

UWV Vector Calculations								
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	7.16+/- 3.39	261.6+/- 17.6	7.4+/- 17.6		
02	17	19	21	6.61+/- 3.16	256.7+/- 25.4	6.9+/- 16.2		
03	38	40	42	3.47+/- 1.79	256.7+/- 32.2	6.1+/- 22.8		
04	41	43	45	4.69+/- 1.96	253.1+/- 38.3	4.4+/- 14.5		
05	50	52	54	3.00+/- 2.46	227.6+/- 35.9	10.7+/- 44.6		
06	56	58	60	1.77+/- 1.43	257.8+/- 37.9	10.4+/- 17.1		

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 7727 Vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	191	57.4	128	55.0	324	57.5	221	59.2	149	47.8
Cat2	243	59.7	781	57.5	544	58.5	499	59.2	173	48.2
Cat3	38	60.6	66	59.2	122	58.0	67	60.2	15	49.2
Cat4	30	62.2	75	59.7	44	58.7	35	58.7	7	44.0
Cat5	9	64.7	15	63.4	4	57.4	8	63.0	1	43.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	61.7	266	57.0	138	59.8	236	57.1	112	46.1
Cat2	634	61.9	458	59.2	654	60.5	489	59.2	204	46.1
Cat3	81	62.9	89	59.7	145	61.6	50	56.9	8	43.1
Cat4	60	64.1	55	61.4	80	62.1	21	58.3	4	45.9
Cat5	24	66.8	10	60.9	31	64.5	1	65.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	1835	23.7	58.4	4679	60.6	59.6	699	9.0	60.5	411	5.3	64.2	103	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.509+/- 2.785	mph	37	N VA 102'	.324+/- 1.228	mph
12	N Dasibi CO	1.538+/- 4.472	ppm	38	S BDT PER	1.775+/- 1.871	mph
13	N TOP PAR	3.784+/- 2.816	ppm	39	N VA 74'	-.030+/- 1.333	mph
14	N Dasibi D3	.020+/- .005	ppm	40	S BDT PAR	1.397+/- 1.845	mph
15	N TOP VER	.165+/- 1.291	mph	41	N GND PER	1.787+/- 1.863	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.085+/- 1.119	mph
17	N BDT PER	3.306+/- 2.512	mph	43	N GND PAR	1.224+/- 2.718	mph
18	N BDT PAR	3.041+/- 2.975	ppm	45	N GND VER	.085+/- .917	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	.875+/- .282	ppm
21	N BDT VER	.176+/- 1.172	mph	50	S TOP PER	2.609+/- 2.386	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.964+/- .261	ppm
23	N HA 102'	8.791+/- 2.751	ppm	52	S TDP PAR	.751+/- 1.568	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.001+/- .591	ppm
25	N WV 102'	214.564+/- 24.812	DEGR A2	54	S TOP VER	.008+/- 1.237	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.588+/- .559	ppm
27	N Gnd Temp	63.530+/- 2.797	DEGR F	56	S GND PER	.471+/- 1.318	mph
28	N CN4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	1.751+/- 1.137	ppm
29	N WV 74'	203.792+/- 26.040	DEGR AZ	58	S GND PAR	.562+/- 1.369	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	76.828+/- 2.128	%
31	N 74' Temp	80.046+/- 3.327	DEGR F	60	S GND VER	.085+/- .528	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	319.422+/- 174.241	W/m**2
35	N HA 74'	7.297+/- 3.433	mph	64	S VA 55'	.133+/- 1.214	mph

UWV Vector Calculations

UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	6.13+/- 2.82	224.9+/- 27.6	3.8+/- 16.1		
02	17	19	21	5.50+/- 2.54	218.5+/- 31.0	4.6+/- 17.7		
03	38	40	42	3.09+/- 1.73	217.6+/- 35.9	6.2+/- 22.3		
04	41	43	45	3.62+/- 1.93	205.4+/- 45.7	2.9+/- 20.2		
05	50	52	54	3.45+/- 2.25	188.2+/- 27.7	9.8+/- 34.5		
06	56	58	60	1.59+/- 1.37	225.4+/- 45.9	10.8+/- 18.7		

13:08:51 -- rain already stopped  
 13:09:22 -- begin calib. nco-4  
 13:25:25 -- STARTED TO SPRINKLE @ 1249 HRS. FOR ABOUT 5 MIN  
 13:32:57 -- BEGIN CALIB OF NCO-2 CH 51 MWH  
 13:33:43 -- END CALIB. NCO-4  
 13:34:33 -- BEGIN CALIB. NCO-3 GRD  
 13:42:59 -- END CALIB OF CD-2 CH 51 MWH  
 13:43:18 -- BEGIN CALIB OF NCO-1 CH 49 MWH  
 13:50:03 -- Begin calib of NCO-5. CH 57 MWH

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1986 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	56.5	40	55.2	55	57.2	54	59.8	28	45.6
Cat2	54	59.0	183	57.4	138	57.8	114	59.5	49	47.7
Cat3	8	60.9	22	60.1	40	57.5	14	58.2	2	38.2
Cat4	6	63.1	11	61.1	14	57.2	7	61.3	1	56.0
Cat5	1	57.5	5	63.9	4	63.5	2	55.4	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	55.5	77	58.4	33	59.7	51	56.3	35	48.0
Cat2	177	61.9	110	59.5	157	58.6	146	58.5	45	46.6
Cat3	28	62.6	21	58.0	33	58.0	21	57.1	4	40.6
Cat4	21	64.8	26	60.1	25	61.1	6	56.0	0	0
Cat5	7	64.4	1	63.4	12	60.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	471	23.7	58.2	1173	59.1	58.4	193	9.7	60.9	117	5.9	62.0	32	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.281+/-	1.480	37	N VA 102'	.168+/-	.765
12	N Dasibi CD	1.670+/-	.728	38	S BOT PER	.450+/-	1.272
13	N TOP PAR	5.722+/-	1.661	39	N VA 74'	-.016+/-	1.134
14	N Dasibi D3	.018+/-	.005	40	S BOT PAR	1.569+/-	1.217
15	N TOP VER	.426+/-	.957	41	N GND PER	1.099+/-	1.913
16	N NOX/TECO	*****	*****	42	S BOT VER	.196+/-	.892
17	N BOT PER	.758+/-	1.449	43	N GND PAR	3.204+/-	1.641
18	N BOT PAR	5.249+/-	1.858	44	N GND VER	.245+/-	.736
20	N ND2/TECO	*****	*****	48	N Ecolyzer-1	1.842+/-	.565
21	N BOT VER	.441+/-	.928	50	S TOP PER	.280+/-	.892
22	N NO/TECO	*****	*****	51	N Ecolyzer-2	1.727+/-	.542
23	N HA 102'	7.404+/-	1.678	52	S TOP PAR	.540+/-	1.364
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.812+/-	.867
25	N WV 102'	256.201+/-	10.759	54	S TOP VER	.178+/-	1.019
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	80.059+/-	3.230	56	S GND PER	.159+/-	.585
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	2.140+/-	1.511
29	N WV 74'	245.161+/-	14.120	58	S GND PAR	.758+/-	.787
30	N CO/Byron	*****	*****	59	N Rel Hum	78.222+/-	.823
31	N 74' Temp	78.574+/-	3.394	60	S GND VER	.105+/-	.177
32	N CO2/Byron	*****	*****	61	N Solar Rad	298.747+/-	101.504
35	N HA 74'	7.738+/-	2.934	64	S VA 55'	-.055+/-	.960

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.03+/- 1.59	265.4+/- 14.6	5.8+/- 10.4
02	17 19 21	5.62+/- 1.78	260.0+/- 16.0	5.3+/- 10.7
03	38 40 42	2.30+/- 1.27	246.0+/- 37.5	9.0+/- 26.4
04	41 43 45	3.98+/- 1.80	250.0+/- 28.9	4.6+/- 13.4
05	50 52 54	1.37+/- 1.40	226.7+/- 36.6	13.4+/- 54.4
06	56 58 60	.94+/- .85	243.6+/- 28.3	17.8+/- 17.5

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 1885 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	56.4	33	55.4	101	57.8	70	58.1	37	47.9
Cat2	49	58.6	210	57.9	143	58.0	121	60.1	43	48.2
Cat3	12	59.9	18	61.9	23	58.8	8	60.3	5	51.3
Cat4	4	64.5	8	58.6	6	57.3	7	59.1	1	49.9
Cat5	2	87.8	2	87.8	0	0	2	61.5	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	25	63.0	82	56.4	56	60.8	62	58.2	18	48.8
Cat2	172	63.3	114	60.2	159	61.8	134	59.1	44	48.8
Cat3	22	64.3	27	62.4	48	61.4	13	62.2	2	48.5
Cat4	19	66.5	17	62.1	20	62.5	5	60.7	1	53.1
Cat5	2	84.9	2	69.1	8	74.1	1	****	1	42.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	510	25.7	59.2	1189	59.9	61.1	178	9.0	62.1	88	4.4	72.1	20	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.593+/-	2.357	37	N VA 102'	.367+/-	1.233
12	N Dasibi CO	1.894+/-	.618	38	S BOT PER	1.487+/-	1.736
13	N TOP PAR	3.386+/-	1.904	39	N VA 74'	.133+/-	1.219
14	N Dasibi D3	.018+/-	.004	40	S BOT PAR	1.066+/-	1.529
15	N TOP VER	.250+/-	1.131	41	N GND PER	1.551+/-	1.581
16	N NOX/TECO	*****	*****	42	S BOT VER	.227+/-	1.122
17	N BOT PER	2.607+/-	1.677	43	N GND PAR	1.310+/-	2.318
18	N BOT PAR	2.841+/-	1.870	44	N GND VER	.112+/-	.784
20	N ND2/TECO	*****	*****	48	N Ecolyzer-1	1.195+/-	.427
21	N BOT VER	.195+/-	1.012	50	S TOP PER	2.300+/-	2.290
22	N NO/TECO	*****	*****	51	N Ecolyzer-2	1.287+/-	.385
23	N HA 102'	6.701+/-	1.875	52	S TOP PAR	.377+/-	1.079
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.398+/-	.724
25	N WV 102'	222.439+/-	26.878	54	S TOP VER	.061+/-	1.228
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	85.738+/-	2.411	56	S GND PER	.604+/-	1.172
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	2.152+/-	1.252
29	N WV 74'	211.426+/-	25.889	58	S GND PAR	.307+/-	1.340



30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	73.115+/-	2.286	%
31	N 74' Temp	80.866+/- 3.370	DEGR F	60	S GND VER	.047+/-	.770	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	591.953+/-	16.248	W/m <sup>2</sup>
35	N HA 74'	5.290+/- 2.125	mph	64	S VA 55'	.163+/-	1.301	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.06+/- 1.72	234.5+/- 27.9	3.1+/- 13.6		
02	17 19 21	4.31+/- 1.54	224.4+/- 27.2	3.4+/- 14.7		
03	38 40 42	2.67+/- 1.70	215.3+/- 42.9	12.5+/- 25.7		
04	41 43 45	3.28+/- 1.38	215.6+/- 44.7	4.6+/- 16.5		
05	50 52 54	2.74+/- 2.43	197.6+/- 21.7	15.2+/- 36.0		
06	56 58 60	1.53+/- 1.32	206.4+/- 46.2	10.6+/- 23.8		

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2058 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	56.0	34	56.0	80	57.3	47	58.3	30	47.5
Cat2	59	58.5	187	57.4	144	58.2	120	59.2	59	47.9
Cat3	9	60.7	28	59.8	31	58.2	11	57.2	6	44.1
Cat4	11	64.2	19	60.5	15	58.1	12	59.7	1	41.5
Cat5	3	64.6	8	69.9	2	59.9	6	62.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	61.0	56	57.4	34	59.1	48	57.5	25	45.6
Cat2	212	62.5	114	58.9	174	60.9	156	58.8	43	46.7
Cat3	23	63.7	22	59.3	43	59.9	15	58.9	2	46.0
Cat4	23	63.1	20	61.0	23	63.6	5	58.6	1	39.8
Cat5	7	66.4	5	60.6	5	67.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.2	434	21.1	58.6	1268	61.6	59.2	190	9.2	61.2	130	6.3	65.3	36	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.453+/- 2.124	mph	37	N VA 102'	.471+/- 1.089	mph
12	N Dasibi CO	1.968+/- .485	ppm	38	S BOT PER	2.322+/- 2.255	mph
13	N TOP PAR	2.803+/- 1.827	mph	39	N VA 74'	.182+/- 1.140	mph
14	N Dasibi O3	.019+/- .003	ppm	40	S BOT PAR	1.199+/- 1.377	mph
15	N TOP VER	.234+/- 1.185	mph	41	N GND PER	2.198+/- 1.642	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.194+/- 1.445	mph
17	N BOT PER	3.329+/- 1.883	mph	43	N GND PAR	.675+/- 1.864	mph
19	N BOT PAR	2.193+/- 1.823	mph	45	N GND VER	.165+/- .929	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.073+/- .304	ppm
21	N BOT VER	.257+/- 1.124	mph	50	S TOP PER	3.234+/- 2.420	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.758+/- 1.676	mph	52	S TOP PAR	.252+/- .746	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	216.258+/- 21.955	DEGR A2	54	S TOP VER	.075+/- 1.358	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	87.745+/- 2.030	DEGR F	56	S GND PER	.771+/- 1.200	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.287+/- 1.075	ppm
29	N WV 74'	206.852+/- 21.919	DEGR A2	58	S GND PAR	.617+/- 1.173	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	69.533+/- .355	%
31	N 74' Temp	80.971+/- 2.562	DEGR F	60	S GND VER	.071+/- .573	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	541.877+/- 25.418	W/m <sup>2</sup>
35	N HA 74'	5.520+/- 2.710	mph	64	S VA 55'	.284+/- 1.318	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.02+/- 2.02	221.3+/- 23.4	4.6+/- 17.5		
02	17 19 21	4.57+/- 1.81	212.7+/- 24.9	7.6+/- 21.5		
03	38 40 42	3.54+/- 1.74	211.1+/- 38.1	7.2+/- 29.8		
04	41 43 45	3.12+/- 1.82	197.2+/- 41.5	5.3+/- 21.7		
05	50 52 54	3.75+/- 2.21	191.4+/- 17.1	8.9+/- 39.6		
06	56 58 60	1.58+/- 1.24	218.3+/- 41.8	9.6+/- 19.5		

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 1993 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	55.5	44	56.5	77	57.6	48	59.3	28	46.6
Cat2	71	57.8	191	58.0	147	59.9	139	59.2	47	48.2
Cat3	11	62.4	36	58.4	33	57.5	15	59.7	2	46.5
Cat4	5	62.4	15	61.2	8	57.7	14	63.0	3	47.1
Cat5	4	63.4	5	67.9	2	58.9	2	60.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	62.5	59	57.0	33	61.5	54	57.3	19	48.0
Cat2	180	64.1	112	60.1	157	61.3	141	60.2	39	47.8
Cat3	23	63.6	29	60.2	35	61.5	6	55.5	1	42.1
Cat4	17	65.6	16	60.4	20	63.4	11	57.1	0	.0
Cat5	7	65.7	5	63.5	16	61.4	1	68.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.8	433	21.7	59.4	1224	61.2	59.7	191	9.6	61.4	109	5.5	63.4	42	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.504+/- 2.215	mph	37	N VA 102'	.282+/- 1.058	mph
12	N Dasibi CO	1.664+/- .393	ppm	38	S BOT PER	1.799+/- 1.490	mph
13	N TOP PAR	3.974+/- 1.840	mph	39	N VA 74'	-.023+/- 1.349	mph
14	N Dasibi O3	.020+/- .004	ppm	40	S BOT PAR	1.145+/- 1.176	mph
15	N TOP VER	.058+/- 1.156	mph	41	N GND PER	2.458+/- 1.699	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.349+/- 1.284	mph
17	N BOT PER	3.438+/- 2.171	mph	43	N GND PAR	1.007+/- 2.617	mph
19	N BOT PAR	3.063+/- 2.001	mph	45	N GND VER	.108+/- 1.118	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.156+/- 1.090	mph	50	S TOP PER	2.211+/- 1.950	mph

22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.144+/-	.344	ppm
23	N HA 102'	8.318+/- 2.192	mph	52	S TDP PAR	.364+/-	.849	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.371+/-	.619	ppm
25	N WV 102'	218.577+/- 19.799	DEGR AZ	54	S TDP VER	2.24+/-	1.361	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.002+/-	.584	ppm
27	N Gnd Temp	85.270+/- 2.484	DEGR F	56	S GND PER	412+/-	1.222	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	*****	ppm
29	N WV 74'	208.144+/- 22.092	DEGR AZ	58	S GND PAR	.585+/-	1.303	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	70.168+/-	.601	%
31	N 74' Temp	81.726+/- 3.094	DEGR F	60	S GND VER	.175+/-	.525	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	449.755+/-	106.260	W/m**2
35	N HA 74'	6.899+/- 2.230	mph	64	S VA 55'	.406+/-	1.299	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.77+/- 2.08	230.0+/- 20.0	3.7+/- 16.1		
02	17 19 21	5.16+/- 2.11	222.0+/- 22.7	3.6+/- 18.1		
03	38 40 42	2.73+/- 1.52	217.1+/- 28.2	12.0+/- 28.4		
04	41 43 45	3.90+/- 1.69	201.2+/- 41.3	3.8+/- 19.4		
05	50 52 54	2.76+/- 1.93	197.7+/- 19.4	16.9+/- 38.6		
06	56 58 60	1.51+/- 1.26	231.5+/- 03.3	13.4+/- 18.9		

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8028 vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	213	56.1	151	55.8	314	57.5	219	58.8	123	47.0
Cat2	233	58.4	771	57.7	572	58.5	494	59.5	198	48.0
Cat3	40	61.0	104	58.8	127	57.9	48	58.8	15	46.1
Cat4	26	63.7	53	60.7	43	57.6	40	61.0	6	48.2
Cat5	10	64.1	20	67.7	8	61.4	12	60.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	106	61.3	254	57.2	156	60.4	215	57.4	97	46.4
Cat2	741	62.9	450	59.7	647	60.9	577	58.3	171	47.5
Cat3	96	63.5	99	60.3	159	60.3	55	58.6	9	43.7
Cat4	80	64.8	79	60.8	88	62.6	27	57.8	2	46.5
Cat5	23	67.2	13	63.3	41	64.4	2	66.9	1	42.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	1848	23.0	58.8	4854	60.5	59.6	752	9.4	61.3	444	5.5	64.9	130	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.458+/- 2.444	mph	37	N VA 102'	.322+/- 1.055	mph
12	N Dasibi CO	1.799+/- .586	ppm	38	S BOT PER	1.515+/- 1.851	mph
13	N TDP PAR	3.971+/- 2.109	mph	39	N VA 74'	.064+/- 1.215	mph
14	N Dasibi O3	.019+/- .004	ppm	40	S BOT PAR	1.245+/- 1.341	mph
15	N TDP VER	.242+/- 1.115	mph	41	N GND PER	1.826+/- 1.788	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	1.241+/- 1.222	mph
17	N BOT PER	2.533+/- 2.102	mph	43	N GND PAR	1.549+/- 2.350	mph
19	N BOT PAR	3.287+/- 2.221	mph	45	N GND VER	.157+/- .904	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.279+/- .496	ppm
21	N BOT VER	.262+/- 1.045	mph	50	S TDP PER	2.006+/- 2.229	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.359+/- .482	ppm
23	N HA 102'	7.295+/- 1.925	mph	52	S TDP PAR	.383+/- 1.038	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.530+/- .770	ppm
25	N WV 102'	228.590+/- 25.599	DEGR AZ	54	S TDP VER	.134+/- 1.248	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	84.703+/- 3.807	DEGR F	56	S GND PER	.486+/- 1.099	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.165+/- 1.280	ppm
29	N WV 74'	218.060+/- 25.957	DEGR AZ	58	S GND PAR	.567+/- 1.176	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	73.009+/- 4.054	%
31	N 74' Temp	80.534+/- 3.267	DEGR F	60	S GND VER	.089+/- .555	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	470.533+/- 134.117	W/m**2
35	N HA 74'	6.382+/- 2.705	mph	64	S VA 55'	.189+/- 1.238	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.47+/- 1.81	238.0+/- 26.8	4.3+/- 14.8		
02	17 19 21	4.92+/- 1.88	230.0+/- 28.2	5.0+/- 16.7		
03	38 40 42	2.81+/- 1.83	222.3+/- 38.6	10.2+/- 27.8		
04	41 43 45	3.57+/- 1.61	217.7+/- 42.6	4.6+/- 17.9		
05	50 52 54	2.85+/- 2.19	202.0+/- 27.7	13.6+/- 42.9		
06	56 58 60	1.39+/- 1.20	226.7+/- 42.0	12.9+/- 20.2		

14:03:30 -- IGNORE ALL TAPE DATA ON CH 55 SINCE COMMENT CONCERNING ITS CALIBRATION. TY  
 14:03:41 -- PE LEFT @ 1. MWH  
 14:05:28 -- Concerning CH 55-- Ignore zeros on type 1 record left in this position. MWH  
 14:08:49 -- Paper problem with LA 120 on the printing of the previous 5 min avgs. MWH  
 14:18:19 -- End calib of NCD-5 MWH  
 14:58:06 -- CHECKING WEST BOUND RADAR PROBLEM. MWH.

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2066 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	55.5	198	55.5	71	58.7	52	59.2	26	48.9
Cat2	52	56.5	198	56.0	141	58.9	134	60.5	41	49.7
Cat3	13	60.3	24	59.2	32	57.9	14	60.1	5	47.8
Cat4	9	61.8	16	62.4	5	58.3	7	64.9	2	42.7
Cat5	4	61.8	4	63.5	2	62.0	2	55.0	1	73.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	62.6	67	57.5	36	59.9	53	57.7	32	48.2
Cat2	174	63.7	130	60.7	164	61.8	163	59.8	34	49.1
Cat3	27	63.6	32	61.6	48	61.6	12	61.4	2	41.0
Cat4	13	68.1	9	62.7	27	63.3	5	61.7	0	.0
Cat5	2	65.0	2	65.4	8	62.2	2	58.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	446	22.2	59.6	1231	61.4	60.3	209	10.4	63.0	93	4.6	62.4	27	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.546+/- 2.014	mph	37	N VA 102'	.286+/- .866	mph
12	N Dasibi CD	1.629+/- .438	ppm	38	S BOT PER	1.112+/- 1.433	mph
13	N TDP PAR	3.359+/- 1.777	ppm	39	N VA 74'	-.171+/- 1.167	mph
14	N Dasibi D3	.021+/- .004	ppm	40	S BOT PAR	1.115+/- 1.447	mph
15	N TDP VER	-.055+/- 1.156	ppm	41	N GND PER	2.352+/- 1.666	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.343+/- 1.383	mph
17	N BOT PER	4.442+/- 1.942	ppm	43	N GND PAR	.345+/- 1.937	mph
18	N BOT PAR	2.544+/- 1.743	ppm	45	N GND VER	-.119+/- .982	ppm
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	-.913+/- .151	ppm
21	N BOT VER	.071+/- 1.139	ppm	50	S TDP PER	2.038+/- 1.577	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	-.988+/- .237	ppm
23	N HA 102'	8.432+/- 2.586	ppm	52	S TDP PAR	-.550+/- 1.183	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.409+/- .594	ppm
25	N WV 102'	209.228+/- 13.551	DEGR AZ	54	S TDP VER	-.234+/- 1.404	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.896+/- .538	ppm
27	N Gnd Temp	65.785+/- 3.274	DEGR F	56	S GND PER	-.123+/- 1.390	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	199.864+/- 16.116	DEGR AZ	58	S GND PAR	.383+/- 1.296	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	70.689+/- 1.085	%
31	N 74' Temp	80.840+/- 2.999	DEGR F	60	S GND VER	-.152+/- .609	ppm
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	444.987+/- 80.197	W/m**2
35	N HA 74'	5.938+/- 2.850	ppm	64	S VA 55'	.277+/- 1.513	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.98+/- 2.17	216.4+/- 17.6	1.4+/- 12.4
02	17 19 21	5.46+/- 2.10	209.8+/- 18.3	2.1+/- 13.3
03	38 40 42	2.59+/- 1.38	228.0+/- 44.0	14.5+/- 32.8
04	41 43 45	3.28+/- 1.57	187.6+/- 37.9	4.2+/- 22.2
05	50 52 54	2.76+/- 1.60	198.9+/- 20.6	17.5+/- 42.0
06	56 58 60	1.51+/- 1.36	228.7+/- 51.1	15.7+/- 20.3

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2129 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	53.7	48	55.6	63	58.4	51	59.5	32	48.6
Cat2	49	56.2	172	58.4	178	59.0	143	60.8	50	49.1
Cat3	12	61.0	26	60.2	30	59.4	19	59.8	3	49.1
Cat4	13	64.0	24	63.2	12	59.8	14	59.1	1	51.2
Cat5	0	.0	2	66.2	4	59.2	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	60.5	77	56.6	36	58.9	54	58.5	28	45.5
Cat2	200	62.7	152	59.2	174	61.1	142	60.3	50	46.2
Cat3	34	63.3	26	56.8	39	60.2	13	61.4	1	47.3
Cat4	19	65.8	18	61.8	21	63.2	5	57.6	1	42.1
Cat5	4	65.8	4	60.8	11	62.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	463	21.7	59.2	1310	61.5	60.3	203	9.5	62.2	128	6.0	62.6	25	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.079+/- 1.802	mph	37	N VA 102'	.329+/- 1.102	mph
12	N Dasibi CD	2.058+/- .858	ppm	38	S BOT PER	-.594+/- 1.413	mph
13	N TDP PAR	3.971+/- 1.832	ppm	39	N VA 74'	-.047+/- 1.112	mph
14	N Dasibi D3	.020+/- .004	ppm	40	S BOT PAR	1.846+/- 1.468	mph
15	N TDP VER	-.175+/- 1.119	ppm	41	N GND PER	1.395+/- 1.474	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.124+/- 1.180	mph
17	N BOT PER	2.408+/- 1.850	ppm	43	N GND PAR	1.821+/- 2.437	mph
18	N BOT PAR	3.360+/- 1.920	ppm	45	N GND VER	-.174+/- .888	ppm
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.126+/- .411	ppm
21	N BOT VER	-.146+/- .967	ppm	50	S TDP PER	-.992+/- 1.343	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.234+/- .569	ppm
23	N HA 102'	6.937+/- 1.861	ppm	52	S TDP PAR	-.584+/- 1.450	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.804+/- 1.025	ppm
25	N WV 102'	236.876+/- 19.149	DEGR AZ	54	S TDP VER	-.002+/- 1.045	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.275+/- .994	ppm
27	N Gnd Temp	86.051+/- 1.073	DEGR F	56	S GND PER	-.183+/- 1.205	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	2.558+/- 1.037	ppm
29	N WV 74'	225.492+/- 20.319	DEGR AZ	58	S GND PAR	-.940+/- 1.217	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	67.481+/- 1.017	%
31	N 74' Temp	82.794+/- 2.952	DEGR F	60	S GND VER	-.126+/- .349	ppm
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	397.799+/- 102.155	W/m**2

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.95+/- 1.88	243.5+/- 22.8	5.9+/- 20.4		
02	17 19 21	4.59+/- 1.83	232.5+/- 28.8	4.8+/- 17.6		
03	38 40 42	2.70+/- 1.40	244.3+/- 36.5	4.1+/- 31.2		
04	41 43 45	3.32+/- 1.71	224.3+/- 42.7	3.5+/- 19.1		
05	50 52 54	1.86+/- 1.70	211.4+/- 30.2	9.6+/- 45.6		
06	56 58 60	1.45+/- 1.39	249.0+/- 44.4	11.3+/- 19.5		

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2080 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	53.7	31	56.2	55	58.0	37	59.3	33	48.2
Cat2	43	55.4	180	58.1	144	58.8	101	60.6	41	47.7
Cat3	7	58.6	19	59.7	29	59.4	21	57.9	5	50.3
Cat4	1	61.7	12	62.6	8	60.7	4	59.1	3	47.4
Cat5	3	60.4	4	64.8	1	63.5	2	63.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	25	62.2	77	58.0	44	60.7	54	57.0	29	46.3
Cat2	204	63.4	148	59.5	200	61.0	163	57.9	55	48.8
Cat3	35	63.9	31	60.2	53	60.3	19	57.0	3	46.0
Cat4	21	65.8	25	61.3	20	61.6	8	55.8	4	45.5
Cat5	10	65.0	5	62.6	15	61.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	423	20.3	58.9	1289	62.0	59.7	222	10.7	60.9	106	5.1	62.8	40	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.144+/- 1.493	mph	37	N VA 102'	.289+/- 1.095	mph
12	N Dasibi CD	1.831+/- 1.508	ppm	38	S BOT PER	.705+/- 1.484	mph
13	N TOP PAR	4.749+/- 1.566	mph	39	N VA 74'	.045+/- 1.077	mph
14	N Dasibi 03	.020+/- 1.003	ppm	40	S BOT PAR	1.888+/- 1.178	mph
15	N TOP VER	.360+/- 1.110	mph	41	N GND PER	1.470+/- 1.594	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.017+/- 1.044	mph
17	N BOT PER	2.609+/- 1.556	mph	43	N GND PAR	2.729+/- 1.774	mph
18	N BOT PAR	4.385+/- 1.603	mph	44	N GND VER	.103+/- .846	mph
19	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	.947+/- .247	ppm
20	N BOT VER	.278+/- 1.119	mph	50	S TOP PER	.952+/- 1.328	mph
21	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.028+/- .291	ppm
22	N HA 102'	8.039+/- 1.997	mph	52	S TOP PAR	.890+/- 1.644	mph
23	N TMC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.573+/- .730	ppm
24	N WV 102'	240.153+/- 12.633	DEGR AZ	54	S TOP VER	-.006+/- .870	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.041+/- .633	ppm
26	N Gnd Temp	85.478+/- 2.402	DEGR F	56	S GND PER	.126+/- .960	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.519+/- 1.250	ppm
28	N VA 74'	227.270+/- 11.538	DEGR AZ	58	S GND PAR	1.024+/- 1.295	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	69.872+/- 1.299	%
30	N 74' Temp	82.589+/- 3.208	DEGR F	60	S GND VER	.054+/- .437	mph
31	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	318.548+/- 66.608	W/m==2
32	N HA 74'	6.313+/- 2.856	mph	64	S VA 55'	-.134+/- .888	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.48+/- 1.71	246.3+/- 14.3	5.5+/- 11.9		
02	17 19 21	5.40+/- 1.73	238.4+/- 15.1	4.1+/- 12.6		
03	38 40 42	2.66+/- 1.31	250.9+/- 33.6	4.7+/- 27.8		
04	41 43 45	3.63+/- 1.66	240.9+/- 31.4	5.8+/- 20.0		
05	50 52 54	1.91+/- 1.86	217.0+/- 29.8	10.4+/- 44.2		
06	56 58 60	1.48+/- 1.26	246.5+/- 38.4	10.1+/- 20.1		

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 1127 vehicles averaging 59.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	14	62.1	78	56.8	32	59.9	58	57.9	26	45.3
Cat2	208	62.8	129	59.9	183	60.0	135	59.8	58	47.0
Cat3	22	64.8	42	59.9	42	59.5	9	58.2	3	46.4
Cat4	14	65.3	14	59.2	22	61.7	7	57.7	0	.0
Cat5	8	66.5	2	60.8	10	62.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	208	18.5	59.7	724	64.2	60.2	118	10.5	61.5	57	5.1	63.9	20	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.389+/- 1.236	mph	37	N VA 102'	.169+/- .789	mph
12	N Dasibi CD	2.377+/- .637	ppm	38	S BOT PER	.229+/- .915	mph
13	N TOP PAR	2.844+/- 1.296	mph	39	N VA 74'	-.219+/- .783	mph
14	N Dasibi 03	.018+/- .003	ppm	40	S BOT PAR	.841+/- .787	mph
15	N TOP VER	-.049+/- .757	mph	41	N GND PER	1.572+/- 1.499	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.105+/- .709	mph
17	N BOT PER	2.808+/- 1.318	mph	43	N GND PAR	.032+/- 2.017	mph
18	N BOT PAR	2.331+/- 1.415	mph	45	N GND VER	.119+/- .785	mph
19	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.017+/- .337	ppm
20	N BOT VER	.043+/- .717	mph	50	S TOP PER	.415+/- .693	ppm
21	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.119+/- .446	ppm
22	N HA 102'	5.257+/- 1.281	mph	52	S TOP PAR	.210+/- .544	mph
23	N TMC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.801+/- .884	ppm

25	N WV 102'	229.682+/-	15.889	DEGR AZ	54	S TDP VER	.075+/-	.852	mph
26	N NMHC/Byron	*****+/-*****		ppm	55	N EcoLyzer-4	2.490+/-	.775	ppm
27	N Gnd Temp	84.253+/-	3.007	DEGR F	56	S GND PER	.000+/-	.467	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	3.075+/-	2.300	ppm
29	N WV 74'	214.151+/-	16.828	DEGR AZ	58	S GND PAR	.536+/-	.640	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Re1 Hum	72.252+/-	1.281	%
31	N 74' Temp	81.596+/-	2.691	DEGR F	60	S GND VER	.133+/-	.085	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	193.336+/-	35.804	W/m**2
35	N HA 74'	3.981+/-	2.067	mph	64	S VA 55'	-.024+/-	.652	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.03+/-	1.14	228.4+/-	20.6	.1+/- 11.8
02	17 19 21	4.02+/-	1.21	219.0+/-	22.4	2.6+/- 14.4
03	38 40 42	1.43+/-	.83	251.5+/-	43.1	10.6+/- 29.6
04	41 43 45	2.73+/-	1.36	186.0+/-	47.2	4.3+/- 23.7
05	50 52 54	.80+/-	.89	217.2+/-	19.2	14.5+/- 52.9
06	56 58 60	.70+/-	.67	245.5+/-	33.4	22.4+/- 16.4

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 4579 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	92	61.8	299	57.2	148	59.9	219	57.8	115	46.4
Cat2	787	63.1	559	58.8	731	61.0	803	59.4	197	47.1
Cat3	118	63.8	131	60.2	182	60.5	53	59.3	9	48.2
Cat4	67	66.1	66	61.2	90	62.5	25	57.9	5	44.9
Cat5	24	65.7	13	62.2	44	62.0	2	58.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	873	19.1	60.0	2877	62.8	60.8	493	10.8	62.3	252	5.5	63.0	83	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.789+/- 1.946	mph	37	N VA 102'	.263+/- .873	mph
12	N Dasibi CO	2.024+/- .668	ppm	38	S BOT PER	.680+/- 1.365	mph
13	N TOP PAR	3.731+/- 1.773	mph	39	N VA 74'	-.075+/- 1.051	mph
14	N Dasibi O3	.020+/- .004	ppm	40	S BOT PAR	1.423+/- 1.326	mph
15	N TOP VER	.138+/- 1.057	mph	41	N GND PER	1.698+/- 1.600	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.147+/- 1.111	mph
17	N BOT PER	3.068+/- 1.815	mph	43	N GND PAR	1.232+/- 2.324	mph
18	N BOT PAR	3.155+/- 1.858	mph	45	N GND VER	.129+/- .872	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	1.001+/- .313	ppm
21	N BOT VER	.135+/- 1.002	mph	50	S TOP PER	1.099+/- 1.403	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.092+/- .618	ppm
23	N HA 102'	7.166+/- 2.332	mph	52	S TDP PAR	.561+/- 1.292	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.647+/- .835	ppm
25	N WV 102'	229.504+/- 19.460	DEGR AZ	54	S TOP VER	.076+/- 1.043	mph
26	N NMHC/Byron	*****+/-*****	ppm	55	N EcoLyzer-4	2.175+/- .747	ppm
27	N Gnd Temp	85.387+/- 2.610	DEGR F	56	S GND PER	.016+/- 1.066	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	216.978+/- 19.595	DEGR AZ	58	S GND PAR	.720+/- 1.172	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	70.099+/- 2.082	%
31	N 74' Temp	81.954+/- 2.998	DEGR F	60	S GND VER	.118+/- .416	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	338.688+/- 118.019	W/m**2
35	N HA 74'	5.435+/- 2.741	mph	64	S VA 55'	.001+/- 1.114	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.11+/-	1.90	233.9+/-	22.1	3.2+/- 14.7
02	17 19 21	4.87+/-	1.84	225.1+/-	24.3	3.4+/- 16.6
03	38 40 42	2.35+/-	1.35	244.2+/-	40.1	8.5+/- 30.6
04	41 43 45	3.24+/-	1.61	211.7+/-	43.7	4.4+/- 21.3
05	50 52 54	1.83+/-	1.70	211.0+/-	26.3	13.0+/- 45.2
06	56 58 60	1.29+/-	1.25	243.8+/-	43.1	14.8+/- 19.7

15:08:32 -- Stopping program due to power supply problem on west bound radars.  
 Average for 15 minute period ending at 15:15:00

Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desib1 CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desib1 O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum [mph]	Bearing Deg AZ	Elevation Angle [Deg]
01	11 13 15	*****+/-*****	-26.8+/- 18.9	190.2+/-*****
02	17 19 21	*****+/-*****	-13.5+/- 15.3	129.9+/-*****
03	38 40 42	47.81+/-75.09	-19.4+/- 12.5	717.5+/-*****
04	41 43 45	*****+/-*****	11.3+/- 13.9	245.3+/-*****
05	50 52 54	31.11+/-49.02	-25.0+/- 16.3	*****+/-*****
06	56 58 60	20.13+/-23.41	-34.7+/- 26.1	*****+/-*****

Average for 15 minute period ending at 15:30:00  
 Average for 15 minute period ending at 15:45:00  
 Average for 15 minute period ending at 16:00:00  
 Average for hourly period ending at 16:00:00

Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desib1 CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desib1 O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg A2	
01	11 13 15	*****	*****	*****
02	17 19 21	*****	*****	*****
03	38 40 42	*****	*****	*****
04	41 43 45	*****	*****	*****
05	50 52 54	*****	*****	*****
06	56 58 60	*****	*****	*****

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Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	12:00:00	590 vehicles
02	15:00:00	1068 vehicles
03	12:00:00	1119 vehicles
04	15:00:00	1068 vehicles
05	12:00:00	1103 vehicles
06	15:00:00	1195 vehicles
07	13:00:00	830 vehicles
08	15:00:00	902 vehicles
09	12:00:00	351 vehicles
10	13:00:00	328 vehicles
11	12:00:00	4.017 mph
12	15:00:00	2.024 ppm
13	14:00:00	3.971 mph
14	13:00:00	.020 ppm
15	14:00:00	.242 mph
16	00:00:00	.000 ppm
17	12:00:00	3.489 mph
19	14:00:00	3.287 mph
20	00:00:00	.000 ppm
21	14:00:00	.262 mph
22	00:00:00	.000 ppm
23	13:00:00	8.791 mph
24	00:00:00	.000 ppm
25	15:00:00	229.504 DEGR A2
26	00:00:00	.000 ppm
27	15:00:00	85.387 DEGR F
28	00:00:00	.000 ppm
29	14:00:00	218.060 DEGR A2
30	00:00:00	.000 ppm
31	15:00:00	81.954 DEGR F
32	00:00:00	.000 ppm
35	13:00:00	7.297 mph
37	13:00:00	.324 mph
38	12:00:00	1.841 mph
39	14:00:00	.064 mph
40	15:00:00	1.423 mph
41	12:00:00	1.939 mph
42	14:00:00	.241 mph
43	14:00:00	1.549 mph
45	14:00:00	.157 mph
49	14:00:00	1.279 ppm
50	12:00:00	2.611 mph
51	14:00:00	1.359 ppm
52	13:00:00	.751 ppm
53	15:00:00	1.647 ppm
54	14:00:00	.134 ppm
55	15:00:00	2.175 ppm
56	12:00:00	.501 mph
57	14:00:00	2.165 ppm
58	15:00:00	.720 mph
59	12:00:00	79.112 %
60	15:00:00	.116 mph
61	14:00:00	470.533 W/m=2
64	14:00:00	.199 mph

NOTE: All times in the maximums are ending times for the interval



Data for Nov. 21, 1984  
 15:05:23 -- Data run of 11/21/84 day before Thanksgiving. Operators are Michael Hlavinka and  
 15:05:24 -- Guy Donaldson. Northerly winds with sunny skies. Cool temps. Had problems w/  
 15:05:25 -- th westbound radar power supply last week. Aedas will need to have ecolyzer recal  
 15:05:26 -- ibration done ASAP. This is the second file on ZX1320. Will recalibrate AEDAS af  
 15:05:27 -- ter bringing this side online. Ozone and CO data is being recorded on this side  
 15:05:28 -- of the road.  
 15:05:41 -- BEGIN CALIBRATION OF DASIBI CO MWH  
 15:14:17 -- BEGIN CALIBRATION OF NCO-5 GRD  
 15:17:52 -- About to read all ecolyzer zeros MWH (except CH 57)  
 15:21:17 -- WILL SPAN ALL ECOLYZERS INDIVIDUALLY. MWH  
 15:26:29 -- IGDRE PREVIOUS SPANS ON CH 49  
 15:31:11 -- END CALIB OF DASIBI CO  
 15:32:47 -- END CALIBRATION NCO-5 GRD  
 15:33:22 -- END CALIB OF CH 49 CO-1 MWH  
 15:44:28 -- END CALIBRATION CH 51  
 15:51:33 -- END CALIBRATION CH55  
 15:52:20 -- END CALIBRATION\_CH 53

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging 0.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0.0	0	****	0.0	0	****	0.0	0	****	0.0	0	****	0.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	mph
26	N NMNC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2767 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	62.3	106	54.8	85	59.5	15	59.3	66	46.1
Cat2	202	64.6	89	57.0	196	59.4	201	60.3	134	48.2
Cat3	32	68.6	25	61.4	48	58.6	18	61.2	5	48.0
Cat4	30	68.3	9	58.9	21	58.8	13	60.7	2	45.8
Cat5	7	70.5	4	67.5	3	61.0	6	58.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	59.6	103	55.8	33	58.1	49	57.7	55	45.8
Cat2	242	60.9	165	58.3	243	58.9	184	58.3	71	46.5
Cat3	23	59.7	39	59.2	58	59.2	20	56.9	3	52.2
Cat4	10	82.7	18	57.9	31	60.5	9	57.2	0	0
Cat5	4	61.1	7	60.5	22	60.5	1	55.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	582	21.0	58.5	1727	62.4	60.1	271	9.8	60.7	133	4.8	63.3	54	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-5.857+/-	2.502	37	N VA 102'	.212+/-	1.306	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	-5.296+/-	2.681	mph
13	N TOP PAR	.459+/-	1.928	39	N VA 74'	.322+/-	1.393	mph
14	N Dasibi O3	.042+/-	.002	40	S BOT PAR	1.288+/-	2.816	mph
15	N TOP VER	.188+/-	1.487	41	N GND PER	-1.332+/-	2.121	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.641+/-	.922	mph
17	N BOT PER	-3.888+/-	2.571	43	N GND PAR	.363+/-	1.902	mph
19	N BOT PAR	.521+/-	1.770	45	N GND VER	.159+/-	.992	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm	

21	N BOT VER	.025+/-	1.418	mpm	50	S TOP PER	-6.787+/-	2.778	mph
22	N ND/TECD	*****		ppm	51	N Ecolyzer-2	*****		ppm
23	N HA 102'	10.104+/-	3.059	mph	52	S TOP PAR	.154+/-	1.284	mph
24	N THC/Byron	*****		ppm	53	N Ecolyzer-3	*****		ppm
25	N WV 102'	357.837+/-	18.603	DEGR AZ	54	S TOP VER	.290+/-	1.030	mph
26	N NMHC/Byro	*****		ppm	55	N Ecolyzer-4	*****		ppm
27	N Gnd Temp	61.899+/-	2.828	DEGR F	56	S GND PER	-3.154+/-	1.951	mph
28	N CH4/Byron	*****		ppm	57	N Ecolyzer-5	*****		ppm
29	N WV 74'	348.158+/-	20.771	DEGR AZ	58	S GND PAR	1.464+/-	2.037	mph
30	N CD/Byron	*****		ppm	59	N Rel Hum	52.223+/-	.168	%
31	N 74' Temp	59.137+/-	2.840	DEGR F	60	S GND VER	.173+/-	.710	mph
32	N CD2/Byron	*****		ppm	61	N Solar Rad	263.958+/-	13.247	W/m**2
35	N HA 74'	8.983+/-	3.238	mph	64	S VA 55'	.118+/-	1.415	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)	
01	11 13 15	8.33+/- 2.51	355.6+/-	18.6	4.8+/-	15.3
02	17 19 21	4.47+/- 2.36	351.3+/-	38.5	5.0+/-	27.2
03	38 40 42	6.22+/- 2.73	345.2+/-	24.5	10.0+/-	13.8
04	41 43 45	2.85+/- 1.66	343.2+/-	50.5	3.5+/-	20.4
05	50 52 54	6.99+/- 2.78	358.5+/-	8.2	4.0+/-	11.6
06	56 58 60	4.00+/- 2.10	333.6+/-	30.7	4.6+/-	10.8

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2866 vehicles averaging 58.2 mph

Westbound Traffic											
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	32	52.5	133	54.5	73	57.9	24	59.0	61	47.1	
Cat2	212	63.8	103	55.8	195	59.8	184	60.7	135	47.6	
Cat3	35	64.5	23	58.9	46	58.7	30	61.1	18	45.3	
Cat4	17	67.5	18	59.3	21	60.2	13	62.2	5	44.4	
Cat5	12	67.3	1	65.5	5	61.9	4	64.9	1	50.4	

Eastbound Traffic											
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	52	59.3	95	56.4	30	59.1	47	58.9	59	44.5	
Cat2	247	60.6	170	58.5	247	59.6	187	60.1	75	46.8	
Cat3	15	63.0	43	58.2	58	60.8	22	58.7	6	41.4	
Cat4	8	62.2	15	60.2	44	62.5	12	59.9	0	.0	
Cat5	6	66.8	5	61.0	23	60.7	1	64.0	0	.0	

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	606	21.1	58.6	1755	61.2	59.2	296	10.3	61.3	151	5.3	63.1	58	2.0

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	-7.068+/- 3.034	mph	37	N VA 102'	-.094+/- 1.444	mph				
12	N Dasibi CD	.499+/- .113	ppm	38	S BOT PER	-5.470+/- 2.823	mph				
13	N TOP PAR	-.761+/- 2.377	mph	39	N VA 74'	-.332+/- 1.335	mph				
14	N Dasibi Q3	-.040+/- .003	ppm	40	S BOT PAR	.303+/- 3.200	mph				
15	N TOP VER	-.067+/- 1.434	ppm	41	N GND PER	-1.529+/- 2.069	mph				
16	N ND/TECD	*****	ppm	42	S BOT VER	.305+/- 1.079	mph				
17	N BOT PER	-4.516+/- 2.687	mph	43	N GND PAR	-.141+/- 2.103	ppm				
19	N BOT PAR	-.228+/- 2.011	mph	45	N GND VER	.054+/- 1.012	ppm				
20	N ND2/TECD	*****	ppm	48	N Ecolyzer-1	-.727+/- 1.110	ppm				
21	N BOT VER	-.069+/- 1.355	ppm	50	S TOP PER	-7.215+/- 3.117	mph				
22	N ND/TECD	*****	ppm	51	N Ecolyzer-2	*****	ppm				
23	N HA 102'	11.201+/- 3.232	mph	52	S TOP PAR	-.049+/- 1.128	mph				
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm				
25	N WV 102'	6.108+/- 19.971	DEGR AZ	54	S TOP VER	.123+/- 1.078	mph				
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm				
27	N Gnd Temp	61.890+/- 2.383	DEGR F	56	S GND PER	-3.217+/- 2.028	mph				
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm				
29	N WV 74'	357.385+/- 17.313	DEGR AZ	58	S GND PAR	1.067+/- 1.800	mph				
30	N CD/Byron	*****	ppm	59	N Rel Hum	52.266+/- .285	%				
31	N 74' Temp	58.277+/- 3.084	DEGR F	60	S GND VER	.129+/- .677	mph				
32	N CD2/Byron	*****	ppm	61	N Solar Rad	217.351+/- 15.105	W/m**2				
35	N HA 74'	10.142+/- 4.019	mph	64	S VA 55'	-.044+/- 1.502	mph				

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)	
01	11 13 15	7.61+/- 3.05	4.6+/-	18.6	1.3+/-	13.2
02	17 19 21	5.23+/- 2.44	2.9+/-	33.9	2.0+/-	21.7
03	38 40 42	6.33+/- 3.05	359.7+/-	27.6	6.2+/-	11.8
04	41 43 45	3.10+/- 1.88	2.7+/-	52.3	2.6+/-	25.6
05	50 52 54	7.41+/- 3.07	1.1+/-	10.9	2.5+/-	10.8
06	56 58 60	3.86+/- 2.11	343.1+/-	31.1	2.8+/-	16.0

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2759 vehicles averaging 58.0 mph

Westbound Traffic											
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	14	63.4	117	54.2	81	58.2	20	61.1	55	47.0	
Cat2	200	64.6	129	56.4	198	59.1	170	61.7	124	47.3	
Cat3	27	67.8	30	59.8	43	59.8	29	62.0	10	47.3	
Cat4	25	68.3	13	61.9	18	61.2	10	63.3	5	48.9	
Cat5	15	69.7	0	.0	2	59.3	5	68.3	2	39.2	

Eastbound Traffic											
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	40	58.4	106	55.1	29	58.1	44	57.4	53	43.5	
Cat2	213	60.6	188	57.7	244	59.1	195	58.1	79	45.5	
Cat3	17	62.1	38	57.7	53	59.8	18	58.4	4	40.0	
Cat4	16	63.2	14	60.0	31	60.5	8	58.0	1	37.5	
Cat5	4	64.6	4	61.0	21	63.0	1	57.5	0	.0	

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.4	558	20.3	58.4	1736	62.9	58.9	267	9.7	61.7	143	5.2	64.0	54	2.0

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	-8.434+/- 3.003	mph	37	N VA 102'	-.181+/- 1.647	mph				

12	N Dasibi CD	.539+/-	.145	ppm	38	S BOT PER	-7.175+/-	2.970	mph
13	N TOP PAR	-.542+/-	2.548	mph	39	N VA 74'	.058+/-	1.523	mph
14	N Dasibi D3	.041+/-	.003	ppm	40	S BOT PAR	1.039+/-	2.608	mph
15	N TOP VER	-.079+/-	1.689	mph	41	N GND PER	-2.428+/-	2.255	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.193+/-	1.399	mph
17	N BOT PER	-4.933+/-	3.273	mph	43	N GND PAR	-.599+/-	2.192	mph
19	N BDT PAR	-.193+/-	2.405	mph	45	N GND VER	-.046+/-	1.119	mph
20	N NO2/TECO	*****+/-*****		ppm	49	N Ecolyzer-1	.603+/-	1.130	ppm
21	N BDT VER	-.207+/-	1.413	mph	50	S TOP PER	-8.282+/-	3.240	mph
22	N NO/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	.703+/-	1.126	ppm
23	N HA 102'	12.218+/-	2.784	mph	52	S TOP PAR	.043+/-	1.084	mph
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	2.737+/-	18.418	DEGR AZ	54	S TOP VER	.255+/-	1.281	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	59.183+/-	5.196	DEGR F	56	S GND PER	-3.983+/-	1.858	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	353.639+/-	17.355	DEGR AZ	58	S GND PAR	1.473+/-	1.919	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	52.368+/-	.260	%
31	N 74' Temp	-57.522+/-	3.243	DEGR F	60	S GND VER	.269+/-	.726	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	112.496+/-	57.526	W/m**2
35	N HA 74'	11.212+/-	3.085	mph	64	S VA 55'	.040+/-	1.688	mph

UVW Vector Calculations									
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	8.99+/-	2.96	2.5+/-	17.8	2.4+/-	12.3		
02	17 19 21	5.93+/-	2.78	.1+/-	40.4	1.8+/-	25.8		
03	38 40 42	7.85+/-	2.90	351.1+/-	19.9	4.2+/-	13.3		
04	41 43 45	3.74+/-	1.88	13.0+/-	46.1	4.2+/-	24.0		
05	50 52 54	8.49+/-	3.13	359.7+/-	6.9	4.5+/-	13.4		
06	56 58 60	4.72+/-	1.84	339.7+/-	24.9	3.8+/-	9.7		

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 10083 vehicles averaging 58.0 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat 1	89 62.9	435 54.3	289 58.5	77 59.8	224 46.8				
Cat 2	735 64.2	382 56.1	710 59.4	674 60.7	484 47.5				
Cat 3	110 66.6	102 59.7	162 59.1	93 61.6	36 48.0				
Cat 4	73 67.8	46 60.0	70 59.8	42 61.0	15 46.0				
Cat 5	47 69.0	6 68.8	11 61.1	15 67.3	5 47.5				

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat 1	160 59.2	378 55.6	111 58.8	173 58.0	200 44.8				
Cat 2	831 60.8	604 58.1	868 59.1	685 59.2	268 46.3				
Cat 3	63 61.6	146 59.0	200 60.0	67 58.0	18 43.7				
Cat 4	41 63.2	61 59.5	132 61.7	31 58.7	2 37.8				
Cat 5	21 63.8	18 60.3	77 61.6	4 59.7	0 .0				

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	2136	21.2	58.4	6242	61.8	59.7	997	9.9	61.2	513	5.1	63.6	205	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-7.290+/-	3.093	37	N VA 102'	-.093+/-	1.517	mph
12	N Dasibi CD	*****+/-*****		38	S BOT PER	-6.140+/-	2.956	mph
13	N TOP PAR	-.480+/-	2.453	39	N VA 74'	-.210+/-	1.509	mph
14	N Dasibi D3	.041+/-	.003	40	S BOT PAR	.560+/-	2.930	mph
15	N TOP VER	-.026+/-	1.543	41	N GND PER	-1.801+/-	2.253	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.362+/-	1.188	mph
17	N BOT PER	-4.562+/-	2.963	43	N GND PAR	-.248+/-	2.183	mph
19	N BDT PAR	-.031+/-	2.174	45	N GND VER	.026+/-	1.073	mph
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****		ppm
21	N BDT VER	-.118+/-	1.433	50	S TOP PER	-7.547+/-	3.089	mph
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	11.450+/-	3.161	52	S TOP PAR	-.076+/-	1.338	mph
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	3.175+/-	19.449	54	S TOP VER	.223+/-	1.172	mph
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	60.700+/-	3.583	56	S GND PER	-3.437+/-	2.022	mph
28	N WV 74'	*****+/-*****		57	N Ecolyzer-5	*****+/-*****		ppm
29	N CH4/Byron	354.708+/-	18.802	58	S GND PAR	1.159+/-	2.009	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	52.281+/-	.252	%
31	N 74' Temp	58.254+/-	3.208	60	S GND VER	-.199+/-	.714	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	214.528+/-	76.174	W/m**2
35	N HA 74'	10.390+/-	3.705	64	S VA 55'	.035+/-	1.562	mph

UVW Vector Calculations									
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	7.85+/-	3.09	2.4+/-	19.0	2.2+/-	13.8		
02	17 19 21	5.42+/-	2.66	359.9+/-	37.1	1.9+/-	24.6		
03	38 40 42	6.95+/-	2.95	353.7+/-	24.7	6.4+/-	12.9		
04	41 43 45	3.34+/-	1.80	4.5+/-	49.9	2.8+/-	22.8		
05	50 52 54	7.77+/-	3.05	.5+/-	9.4	3.6+/-	12.0		
06	56 58 60	4.19+/-	2.07	340.1+/-	31.1	3.6+/-	14.1		

16:03:18 -- DATA FROM NCO-5 IS BAD FOR THE LAST 8 MIN. APPROX.  
 16:17:53 -- NCO-3 DATA SEEMS OUT OF LINE BEWGIN RECALIBRATION OF NCO-3  
 16:27:19 -- RECAL. CHAN. 53 WITHOUT READING DRIFT OF SPAN OR ZERO.  
 16:28:59 -- Checking out CH 25 problem MWH  
 16:32:09 -- CH 25 APPEARS TO BE OKAY MWH  
 16:32:40 -- VOLTAGE DUT ON CH 25 APPEARS TO BE IN RANGE. MWH  
 16:37:58 -- END RECAL OF CH 53  
 16:42:24 -- Calib CH 57 MWH  
 16:52:41 -- END CALIB OF CH 57 MWH  
 16:53:16 -- BEGIN CALIB OF CH 55 MWH

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2825 vehicles averaging 56.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	62.2	115	54.9	75	59.7	17	61.8	56	47.5
Cat2	186	65.2	183	56.8	202	59.6	173	61.8	114	48.1
Cat3	24	67.3	27	60.0	32	58.9	18	63.8	8	46.7
Cat4	15	70.2	14	60.5	20	61.1	10	64.0	2	42.1
Cat5	13	68.9	2	60.8	2	61.7	3	60.2	1	44.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	58.6	104	53.6	23	56.2	47	56.4	66	43.9
Cat2	232	58.2	183	50.2	251	54.6	175	54.9	90	44.9
Cat3	20	58.1	36	52.8	53	55.5	22	53.3	5	43.9
Cat4	17	59.7	22	50.1	37	54.1	7	51.6	1	37.6
Cat5	5	61.6	13	51.9	26	56.1	1	45.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
54.3	570	20.2	56.4	1798	63.7	57.3	245	8.7	57.7	145	5.1	58.3	66	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.427+/-	3.670	37	N VA 102'	-.256+/-	1.666
12	N Dasibi CO	-.505+/-	.088	38	S BOT PER	-6.548+/-	2.528
13	N TOP PAR	-.508+/-	2.709	39	N VA 74'	.105+/-	1.551
14	N Dasibi O3	.038+/-	.002	40	S BOT PAR	.907+/-	2.732
15	N TOP VER	-.011+/-	1.404	41	N GND PER	-1.663+/-	2.018
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.440+/-	1.159
17	N BOT PER	-4.987+/-	3.270	43	N GND PAR	-.451+/-	2.071
19	N BOT PAR	-.013+/-	2.404	45	N GND VER	.014+/-	1.124
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.558+/-	.086
21	N BOT VER	.000+/-	1.522	50	S TOP PER	-8.018+/-	2.988
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.635+/-	.087
23	N HA 102'	11.933+/-	3.232	52	S TOP PAR	.240+/-	1.297
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.403+/-	.245
25	N WV 102'	358.015+/-	21.703	54	S TOP VER	.323+/-	1.127
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.783+/-	.145
27	N Gnd Temp	60.153+/-	2.611	56	S GND PER	-3.609+/-	1.899
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.884+/-	1.004
29	N WV 74'	353.185+/-	13.421	58	S GND PAR	1.202+/-	1.914
30	N CO/Byron	*****+/-*****		59	N Rel Hum	52.386+/-	.205
31	N 74' Temp	57.385+/-	4.321	60	S GND VER	-.202+/-	.539
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	48.913+/-	3.103
35	N HA 74'	10.628+/-	3.614	64	S VA 55'	.111+/-	1.427

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.03+/- 3.67	4.0+/- 20.8	.5+/- 12.6
02	17 19 21	5.87+/- 3.07	1.0+/- 37.8	1.9+/- 23.5
03	38 40 42	7.24+/- 2.50	352.4+/- 22.8	.7+/- 10.3
04	41 43 45	3.00+/- 1.86	4.3+/- 48.1	2.4+/- 26.3
05	50 52 54	8.19+/- 2.94	358.6+/- 9.3	.5+/- 8.7
06	56 58 60	4.31+/- 1.69	341.6+/- 26.1	2.2+/- 10.2

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2784 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	62.8	129	58.2	86	59.0	15	59.1	58	47.2
Cat2	210	64.6	138	58.8	205	60.0	187	61.7	113	46.6
Cat3	25	65.5	18	60.6	29	58.8	20	61.3	10	45.3
Cat4	15	65.8	8	59.3	14	61.3	12	65.5	4	42.5
Cat5	8	71.2	2	61.5	2	60.3	3	61.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	57.6	118	54.3	33	58.5	48	55.4	56	44.9
Cat2	223	60.2	175	55.8	246	57.5	200	56.5	72	45.7
Cat3	19	63.1	37	56.4	52	57.7	11	57.4	6	43.2
Cat4	10	62.5	19	57.3	26	56.7	3	47.2	0	.0
Cat5	4	60.3	7	58.0	28	58.8	4	60.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
54.5	621	22.3	57.9	1767	63.5	58.5	227	8.2	59.5	111	4.0	60.9	58	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.782+/-	2.927	37	N VA 102'	.246+/-	1.318
12	N Dasibi CO	-.720+/-	.320	38	S BOT PER	-5.143+/-	2.204
13	N TOP PAR	-.254+/-	1.781	39	N VA 74'	.328+/-	1.385
14	N Dasibi O3	.037+/-	.004	40	S BOT PAR	1.230+/-	1.947
15	N TOP VER	.181+/-	1.481	41	N GND PER	-1.353+/-	1.995
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.603+/-	.760
17	N BOT PER	-3.792+/-	2.507	43	N GND PAR	.473+/-	1.594
19	N BOT PAR	.379+/-	1.821	45	N GND VER	.079+/-	.917
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.541+/-	.105
21	N BOT VER	.278+/-	1.309	50	S TOP PER	-5.928+/-	2.279
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.634+/-	.130
23	N HA 102'	9.347+/-	2.461	52	S TOP PAR	.195+/-	.611
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	359.703+/-	20.281	54	S TOP VER	.323+/-	.891
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.880+/-	.253
27	N Gnd Temp	59.137+/-	3.854	56	S GND PER	-2.727+/-	1.384
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.951+/-	1.236

29	N WV 74'	353.116+/-	17.043	DEGR AZ	58	S GND PAR	1.257+/-	1.240	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	52.750+/-	.345	%
31	N 74' Temp	55.672+/-	2.803	DEGR F	60	S GND VER	.138+/-	.444	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	48.186+/-	2.941	W/m <sup>2</sup>
35	N HA 74'	8.671+/-	3.180	mph	64	S VA 55'	.082+/-	1.251	mph

UWV Vector Calculations										
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	6.26+/-	2.85	3.6+/-	20.6	-2.7+/- 17.1		
02	17	19	21	4.58+/-	2.26	352.4+/-	40.0	-5.3+/- 29.4		
03	38	40	42	5.80+/-	2.17	346.4+/-	19.6	9.0+/- 14.9		
04	41	43	45	2.74+/-	1.54	334.1+/-	51.1	1.5+/- 30.3		
05	50	52	54	6.11+/-	2.26	358.1+/-	4.1	7.3+/- 12.8		
06	56	58	60	3.30+/-	1.42	334.9+/-	23.6	7.0+/- 14.8		

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2714 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	61.0	140	54.4	100	58.2	15	59.2	45	48.3
Cat2	210	63.9	132	57.3	201	59.3	180	62.3	107	48.2
Cat3	19	65.1	25	59.6	30	59.5	16	60.2	7	49.2
Cat4	14	67.3	5	59.9	13	62.4	10	62.9	3	46.8
Cat5	7	67.7	1	76.6	0	.0	3	63.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	60.1	117	55.0	39	58.3	46	58.1	75	45.3
Cat2	191	60.2	166	56.3	289	58.6	159	57.8	66	45.9
Cat3	12	61.9	30	57.0	47	58.2	21	58.4	5	47.5
Cat4	10	63.9	16	58.6	30	61.4	7	55.5	0	.0
Cat5	6	62.1	9	58.7	17	59.9	1	55.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
55.1	669	24.6	58.4	1681	61.9	59.1	212	7.8	61.4	108	4.0	61.7	44	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.789+/-	2.346	37	N VA 102'	.100+/-	1.315
12	N Dasibi CD	.625+/-	.157	38	S BOT PER	-4.620+/-	2.042
13	N TOP PAR	.515+/-	1.412	39	N VA 74'	.155+/-	1.309
14	N Dasibi D3	.034+/-	.003	40	S BOT PAR	1.273+/-	1.752
15	N TOP VER	-.072+/-	1.360	41	N GND PER	-.962+/-	1.967
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.584+/-	.673
17	N BOT PER	-3.825+/-	2.453	43	N GND PAR	.093+/-	1.479
19	N BOT PAR	.696+/-	1.396	45	N GND VER	.124+/-	.745
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.587+/-	.097
21	N BOT VER	-.063+/-	1.221	50	S TOP PER	-5.684+/-	2.384
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.657+/-	.112
23	N HA 102'	9.366+/-	2.318	52	S TOP PAR	.162+/-	.332
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	356.364+/-	18.330	54	S TOP VER	.293+/-	.774
26	N MMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.662+/-	.197
27	N Gnd Temp	59.137+/-	3.073	56	S GND PER	-2.929+/-	1.382
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	-.968+/-	1.064
29	N WV 74'	345.846+/-	16.619	58	S GND PAR	1.350+/-	1.301
30	N CO/Byron	*****+/-*****		59	N Rel Hum	53.118+/-	.304
31	N 74' Temp	58.902+/-	3.845	60	S GND VER	.151+/-	.448
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	40.486+/-	3.658
35	N HA 74'	8.354+/-	2.745	64	S VA 55'	.278+/-	1.109

UWV Vector Calculations										
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	6.23+/-	2.31	355.0+/-	14.3	3.2+/- 17.4		
02	17	19	21	4.51+/-	2.18	345.0+/-	35.7	7.8+/- 26.1		
03	38	40	42	5.28+/-	1.91	344.1+/-	21.4	8.8+/- 12.6		
04	41	43	45	2.52+/-	1.23	353.1+/-	52.6	-2.1+/- 26.7		
05	50	52	54	5.80+/-	2.32	358.0+/-	3.2	6.1+/- 13.3		
06	56	58	60	3.13+/-	1.51	333.7+/-	26.1	4.2+/- 12.7		

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2794 vehicles averaging 56.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	59.4	122	52.6	84	57.0	21	58.2	51	47.4
Cat2	238	62.5	153	55.2	202	57.6	199	59.7	93	47.4
Cat3	36	64.4	36	58.5	31	58.1	29	60.3	8	47.5
Cat4	18	66.5	11	58.5	18	57.2	13	59.7	0	.0
Cat5	7	67.4	0	.0	4	51.9	2	62.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	58.1	107	53.9	38	59.8	59	55.5	62	44.4
Cat2	205	59.8	161	55.8	278	57.3	170	57.0	78	45.6
Cat3	14	58.9	28	55.9	54	57.4	14	55.3	3	41.6
Cat4	10	60.5	23	58.5	31	58.5	8	53.3	0	.0
Cat5	1	64.0	4	54.6	13	57.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
53.7	801	21.5	57.2	1777	63.6	58.3	253	9.1	59.4	132	4.7	59.2	31	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.327+/-	2.599	37	N VA 102'	-.086+/-	1.581
12	N Dasibi CD	.867+/-	.177	38	S BOT PER	-5.162+/-	2.155
13	N TOP PAR	.376+/-	1.975	39	N VA 74'	.189+/-	1.355
14	N Dasibi D3	.034+/-	.003	40	S BOT PAR	1.900+/-	1.997
15	N TOP VER	.114+/-	1.380	41	N GND PER	-2.088+/-	2.051
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.485+/-	.853
17	N BOT PER	-3.873+/-	3.143	43	N GND PAR	.233+/-	1.845
19	N BOT PAR	.629+/-	1.952	45	N GND VER	-.001+/-	1.159
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.575+/-	.104

21	N BOT VER	- .013+/-	1.328	mph	50	S TOP PER	-6.817+/-	2.350	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	.640+/-	.099	ppm
23	N HA 102'	11.632+/-	2.748	mph	52	S TOP PAR	.247+/-	.623	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	.591+/-	.249	ppm
25	N WV 102'	352.914+/-	13.819	DEGR AZ	54	S TOP VER	.014+/-	.972	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	59.085+/-	3.630	DEGR F	56	S GND PER	-2.928+/-	1.449	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	347.469+/-	14.055	DEGR AZ	58	S GND PAR	1.808+/-	1.271	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	53.607+/-	.378	%
31	N 74' Temp	56.792+/-	3.466	DEGR F	60	S GND VER	.142+/-	.497	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	31.201+/-	3.379	W/m**2
35	N HA 74'	10.232+/-	3.416	mph	64	S VA 55'	-.271+/-	1.287	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.69+/-	2.59	357.5+/-	14.3	1.7+/-	12.5
02	17 19 21	4.87+/-	2.62	352.0+/-	44.5	5.5+/-	26.7
03	38 40 42	5.87+/-	2.24	340.6+/-	19.0	5.4+/-	9.2
04	41 43 45	3.14+/-	1.68	351.4+/-	43.2	4.8+/-	19.3
05	50 52 54	6.89+/-	2.37	358.1+/-	2.9	1.9+/-	7.5
06	56 58 60	3.69+/-	1.45	327.2+/-	23.8	3.5+/-	11.8

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 11117 vehicles averaging 57.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	122	61.5	506	54.1	345	58.4	68	59.5	210	47.6
Cat2	854	64.0	604	56.5	810	59.1	739	61.4	427	47.6
Cat3	104	65.4	106	59.5	122	58.8	83	61.3	33	47.0
Cat4	62	67.4	38	59.6	65	60.3	45	62.9	9	43.8
Cat5	35	68.9	5	64.2	8	56.5	11	61.6	1	44.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	171	58.8	447	54.2	133	58.4	200	56.3	259	44.6
Cat2	851	59.6	885	54.4	1044	57.0	704	56.5	306	45.5
Cat3	85	60.4	131	55.4	206	57.4	68	56.0	19	44.3
Cat4	47	61.4	80	55.9	124	57.5	25	62.7	1	37.6
Cat5	16	61.6	33	55.4	84	58.0	6	57.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.4	2461	22.1	57.4	7024	63.2	58.3	937	8.4	59.3	486	4.5	60.0	199	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.581+/-	3.023	37	N VA 102'	.008+/-	1.487
12	N Dasibi CO	.629+/-	.219	38	S BOT PER	-5.368+/-	2.342
13	N TOP PAR	.032+/-	2.061	39	N VA 74'	.189+/-	1.403
14	N Dasibi O3	.036+/-	.003	40	S BOT PAR	1.327+/-	2.161
15	N TOP VER	.048+/-	1.407	41	N GND PER	-1.516+/-	2.042
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.528+/-	.881
17	N BOT PER	-4.119+/-	2.898	43	N GND PAR	.087+/-	1.788
19	N BOT PAR	.423+/-	1.939	45	N GND VER	.054+/-	.939
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	.585+/-	1.100
21	N BOT VER	.050+/-	1.353	50	S TOP PER	-6.508+/-	2.854
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	.641+/-	1.108
23	N HA 102'	10.570+/-	2.954	52	S TOP PAR	.211+/-	.797
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	*****+/-*****	
25	N WV 102'	356.540+/-	18.832	54	S TOP VER	.238+/-	.956
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	.848+/-	.203
27	N Gnd Temp	59.378+/-	3.273	56	S GND PER	-2.948+/-	1.535
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	.820+/-	1.160
29	N WV 74'	349.853+/-	15.673	58	S GND PAR	1.404+/-	1.472
30	N CO/Byron	*****+/-*****		59	N Rel Hum	52.968+/-	.551
31	N 74' Temp	57.183+/-	3.746	60	S GND VER	.158+/-	.513
32	N CO2/Byron	*****+/-*****		81	N Solar Rad	42.192+/-	7.894
35	N HA 74'	9.471+/-	3.385	64	S VA 55'	.050+/-	1.287

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.05+/-	3.00	359.9+/-	18.1	.7+/-	15.2
02	17 19 21	4.98+/-	2.60	352.8+/-	39.8	2.5+/-	26.8
03	38 40 42	6.05+/-	2.32	345.9+/-	21.0	6.0+/-	12.4
04	41 43 45	2.85+/-	1.81	351.3+/-	49.3	1.6+/-	25.5
05	50 52 54	6.75+/-	2.64	358.2+/-	5.5	4.0+/-	11.2
06	56 58 60	3.61+/-	1.58	334.3+/-	25.3	4.2+/-	12.5

17:02:58 -- END CALIB OF CH 55  
 17:03:30 -- BEGIN CALIB OF CH 51  
 17:16:17 -- END CALIB OF CH 51 NCD-2 MWH  
 17:16:38 -- BEGIN CALIB OF CH 49 MWH  
 17:26:24 -- END CALIB OF CH 49 MWH

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2855 vehicles averaging 56.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	24	61.3	122	53.7	91	57.8	25	58.4	58	47.0
Cat 2	215	62.9	161	55.0	211	58.3	197	60.1	109	46.6
Cat 3	39	64.6	31	57.9	34	58.6	19	58.8	5	40.7
Cat 4	27	67.8	10	60.4	21	58.2	8	59.6	3	46.2
Cat 5	7	68.2	1	57.5	2	57.0	4	62.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	49	58.1	107	53.1	33	55.8	59	55.7	68	43.6
Cat 2	202	59.0	175	55.3	279	56.5	187	55.5	72	44.4
Cat 3	20	58.9	33	58.0	38	56.9	16	55.0	3	41.6
Cat 4	10	59.6	17	52.9	37	58.0	5	57.8	0	0
Cat 5	2	58.3	4	59.4	14	57.9	1	53.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.6	636	22.3	56.7	1808	63.3	58.3	238	8.3	59.5	138	4.8	60.5	35	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.508+/-	2.335	37	N VA 102'	-187+/-	1.770
12	N Dasib CD	-.986+/-	-.569	38	S BOT PER	-5.172+/-	2.645
13	N TOP PAR	-.857+/-	1.784	39	N VA 74'	-.376+/-	1.364
14	N Dasib 03	-.023+/-	-.003	40	S BOT PAR	1.014+/-	1.815
15	N TOP VER	-.314+/-	1.209	41	N GND PER	-1.196+/-	1.884
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	-.381+/-	1.018
17	N BOT PER	-3.860+/-	2.733	43	N GND PAR	-.152+/-	1.692
19	N BOT PAR	-.000+/-	1.383	45	N GND VER	-.065+/-	-.778
20	N NO2/TECO	*****+/-	*****	49	N EcoLyzr-1	-.703+/-	1.102
21	N BOT VER	-.117+/-	1.069	50	S TOP PER	-6.345+/-	2.696
22	N NO/TECO	*****+/-	*****	51	N EcoLyzr-2	*****+/-	*****
23	N HA 102'	10.766+/-	1.990	52	S TOP PAR	-.039+/-	-.609
24	N THC/Byron	*****+/-	*****	53	N EcoLyzr-3	-.804+/-	1.341
25	N WV 102'	7.397+/-	18.521	54	S TOP VER	-.203+/-	1.970
26	N MMHC/Byro	*****+/-	*****	55	N EcoLyzr-4	1.135+/-	1.281
27	N Gnd Temp	56.115+/-	5.343	56	S GND PER	-2.619+/-	1.483
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzr-5	1.186+/-	1.381
29	N WV 74'	356.168+/-	14.907	58	S GND PAR	1.005+/-	1.480
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	54.242+/-	1.267
31	N 74' Temp	55.515+/-	2.523	60	S GND VER	-.124+/-	1.583
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	19.883+/-	4.773
35	N HA 74'	9.662+/-	2.631	64	S VA 55'	-.051+/-	1.448

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.93+/-	2.31	5.2+/-
02	17 19 21	4.38+/-	2.46	357.2+/-
03	38 40 42	5.75+/-	2.54	347.1+/-
04	41 43 45	2.55+/-	1.27	6.2+/-
05	50 52 54	6.47+/-	2.67	358.8+/-
06	56 58 60	3.19+/-	1.58	337.1+/-

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2915 vehicles averaging 55.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	30	60.1	96	52.9	94	56.5	25	60.0	53	48.1
Cat 2	242	62.3	210	54.3	186	57.9	215	59.2	101	46.5
Cat 3	40	64.0	27	58.9	44	58.3	24	60.3	3	45.3
Cat 4	17	67.4	17	59.1	22	58.5	14	57.4	1	54.4
Cat 5	9	65.6	4	57.6	1	61.8	4	62.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	54	56.1	128	51.5	26	58.6	53	54.7	70	43.8
Cat 2	224	57.3	187	53.1	265	54.6	179	55.4	62	43.9
Cat 3	9	57.5	25	52.8	51	55.0	15	54.5	1	38.6
Cat 4	12	59.0	11	51.1	30	55.7	8	53.2	2	40.1
Cat 5	1	57.9	7	52.0	18	56.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.0	629	21.6	55.9	1871	64.2	57.7	239	8.2	57.4	134	4.6	58.5	42	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.031+/-	2.449	37	N VA 102'	-.188+/-	1.443
12	N Dasib CD	1.008+/-	1.189	38	S BOT PER	-4.968+/-	1.985
13	N TOP PAR	-1.036+/-	1.709	39	N VA 74'	-.350+/-	1.203
14	N Dasib 03	-.021+/-	-.002	40	S BOT PAR	1.447+/-	1.732
15	N TOP VER	-.018+/-	1.225	41	N GND PER	-1.265+/-	2.101
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	-.542+/-	1.670
17	N BOT PER	-3.333+/-	2.627	43	N GND PAR	-.590+/-	1.340
19	N BOT PAR	-.431+/-	1.583	45	N GND VER	-.117+/-	1.937
20	N NO2/TECO	*****+/-	*****	49	N EcoLyzr-1	*****+/-	*****
21	N BOT VER	-.009+/-	1.961	50	S TOP PER	-5.719+/-	2.294
22	N NO/TECO	*****+/-	*****	51	N EcoLyzr-2	1.266+/-	1.122
23	N HA 102'	9.716+/-	2.199	52	S TOP PAR	-.168+/-	1.503
24	N THC/Byron	*****+/-	*****	53	N EcoLyzr-3	-.913+/-	1.277
25	N WV 102'	9.644+/-	14.959	54	S TOP VER	-.170+/-	1.858
26	N MMHC/Byro	*****+/-	*****	55	N EcoLyzr-4	1.335+/-	1.441
27	N Gnd Temp	56.584+/-	5.026	56	S GND PER	-2.526+/-	1.436
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzr-5	1.491+/-	1.284
29	N WV 74'	359.790+/-	15.532	58	S GND PAR	-.731+/-	1.345
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	54.942+/-	1.251
31	N 74' Temp	55.698+/-	2.739	60	S GND VER	-.117+/-	1.459
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	9.674+/-	1.981
35	N HA 74'	8.552+/-	2.801	64	S VA 55'	-.074+/-	1.099





26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.270+/-	.195	ppm
27	N Gnd Temp	51.633+/- 4.010	DEGR F	56	S GND PER	-1.189+/-	1.117	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.767+/-	1.161	ppm
29	N WV 74'	5.143+/- 15.256	DEGR AZ	58	S GND PAR	.349+/-	.497	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	57.092+/-	.565	%
31	N 74' Temp	54.682+/- 2.657	DEGR F	60	S GND VER	.117+/-	.244	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	3.361+/-	2.222	W/m==2
35	N HA 74'	5.903+/- 2.639	mph	64	S VA 55'	.086+/-	.801	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.77+/- 1.61	16.9+/- 17.4	-.5+/- 19.4
02	17 19 21	2.97+/- 1.56	28.7+/- 42.3	2.9+/- 27.4
03	38 40 42	3.29+/- 1.49	352.3+/- 15.4	11.4+/- 15.6
04	41 43 45	1.89+/- 1.25	45.2+/- 52.2	-2.4+/- 30.3
05	50 52 54	3.46+/- 1.68	365.5+/- 5.7	5.6+/- 19.8
06	56 58 60	1.51+/- 1.00	329.5+/- 39.3	10.5+/- 27.9

Average for hourly period ending at 18:00:00  
Traffic Data  
 Total Traffic = 10469 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	126	60.6	406	53.2	363	57.4	81	59.1	206	47.5
Cat2	779	62.4	689	54.6	757	58.3	760	59.9	192	46.9
Cat3	128	64.3	105	58.8	112	58.7	68	59.6	12	45.3
Cat4	71	67.0	43	59.9	61	57.3	29	59.0	8	48.6
Cat5	26	67.2	8	63.1	6	60.9	11	62.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	191	57.9	427	53.2	137	58.3	205	55.1	248	43.9
Cat2	772	59.0	639	55.2	1009	56.6	655	56.0	229	44.4
Cat3	54	59.7	107	56.7	190	57.0	62	54.6	9	42.2
Cat4	39	60.0	48	54.3	101	57.6	17	54.2	2	40.1
Cat5	8	62.1	18	56.3	51	58.8	4	53.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
53.8	2390	22.8	56.8	6681	63.8	58.4	847	8.1	58.9	419	4.0	60.8	132	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.368+/- 2.410	mph	37	N VA 102'	-.062+/- 1.471	mph
12	N Dasibi CO	-.990+/- .331	ppm	38	S BOT PER	-4.290+/- 2.204	mph
13	N TOP PAR	-1.005+/- 1.551	mph	39	N VA 74'	-.301+/- 1.114	mph
14	N Dasibi D3	-.021+/- .005	ppm	40	S BOT PAR	-.518+/- 1.554	mph
15	N TOP VER	.127+/- 1.088	mph	41	N GND PER	-.871+/- 1.916	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.534+/- .722	mph
17	N BOT PER	-3.041+/- 2.495	mph	43	N GND PAR	-.480+/- 1.301	mph
19	N BOT PAR	-.490+/- 1.357	mph	45	N GND VER	-.015+/- .727	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	-.949+/- .242	ppm
21	N BOT VER	-.045+/- .939	mph	50	S TOP PER	-4.967+/- 2.488	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.232+/- .179	ppm
23	N HA 102'	9.152+/- 2.304	mph	52	S TOP PAR	-.039+/- .510	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	-.901+/- .312	ppm
25	N WV 102'	12.920+/- 17.869	DEGR AZ	54	S TOP VER	-.217+/- .857	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.229+/- .309	ppm
27	N Gnd Temp	54.206+/- 4.993	DEGR F	56	S GND PER	-2.067+/- 1.446	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.433+/- 1.338	ppm
29	N WV 74'	5.55+/- 15.107	DEGR AZ	58	S GND PAR	-.673+/- 1.165	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	55.573+/- 1.149	%
31	N 74' Temp	55.170+/- 2.834	DEGR F	60	S GND VER	-.125+/- .462	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.344+/- 7.321	W/m==2
35	N HA 74'	7.860+/- 3.047	mph	64	S VA 55'	-.027+/- 1.143	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.82+/- 2.37	11.0+/- 16.6	2.2+/- 15.6
02	17 19 21	3.70+/- 2.21	16.3+/- 44.0	1.5+/- 26.5
03	38 40 42	4.69+/- 2.21	352.8+/- 19.2	7.7+/- 13.0
04	41 43 45	2.30+/- 1.35	31.9+/- 53.0	.1+/- 26.6
05	50 52 54	5.11+/- 2.46	357.9+/- 6.4	3.1+/- 14.7
06	56 58 60	2.49+/- 1.50	338.3+/- 31.9	5.3+/- 19.9

18:22:19 -- BEGIN CAL. CH 53 GRD  
 18:27:17 -- ENTERED WRONG REC. TYPE FOR CH 53 SPAN  
 18:36:37 -- END CAL. CH 53 GRD  
 18:37:37 -- CH 57 SHOWED NO CD DURING PREVIOUS FIVE MIN INTERVAL for a short time. MWH  
 18:38:17 -- WILL BEGIN MANUAL FIVE MIN RADAR COUNTS OF ODD LANES AT 1840 HRS. RECORDED IN MEL  
 18:38:22 -- -2 LOG BOOK. MWH  
 18:38:50 -- BEGIN CAL. CH 57  
 18:55:26 -- END CAL. CH 57 GRD  
 18:58:07 -- BEGIN CAL. CH 55 GRD

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2213 vehicles averaging 55.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	60.2	95	52.9	80	57.8	20	56.8	48	47.3
Cat2	159	62.0	157	54.4	180	57.8	133	59.3	107	47.1
Cat3	19	64.5	20	58.3	17	58.5	6	57.0	3	44.1
Cat4	5	65.2	8	60.1	7	57.6	6	59.5	1	44.7
Cat5	5	66.3	2	59.9	1	61.3	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	57.8	104	53.8	48	58.1	42	54.6	47	44.9
Cat2	155	58.7	116	54.8	232	56.8	135	55.6	51	44.5
Cat3	8	59.7	17	56.9	35	56.4	11	57.2	3	39.3
Cat4	7	62.0	9	55.3	14	55.7	3	53.0	0	.0
Cat5	2	63.0	2	62.6	10	58.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.1	564	25.5	56.2	1425	64.4	57.7	142	6.4	58.0	60	2.7	61.2	22	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.818+/-	1.288	37	N VA 102'	.346+/-	.932
12	N Dasibi CD	1.253+/-	.312	38	S BOT PER	-2.398+/-	1.080
13	N TOP PAR	-1.462+/-	.903	39	N VA 74'	.343+/-	.564
14	N Dasibi D3	.013+/-	.001	40	S BOT PAR	.482+/-	.724
15	N TOP VER	.245+/-	.672	41	N GND PER	.350+/-	1.869
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.580+/-	.344
17	N BOT PER	-1.316+/-	1.333	43	N GND PAR	.077+/-	.685
19	N BOT PAR	-.105+/-	.586	45	N GND VER	.178+/-	.134
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.303+/-	.125
21	N BOT VER	.153+/-	.412	50	S TOP PER	-2.699+/-	1.273
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.503+/-	.140
23	N HA 102'	6.085+/-	1.189	52	S TOP PAR	.157+/-	.061
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.289+/-	.272
25	N WV 102'	16.598+/-	10.376	54	S TOP VER	.341+/-	.521
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.583+/-	.195
27	N Gnd Temp	49.549+/-	3.489	56	S GND PER	-1.082+/-	.938
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	2.050+/-	1.118
29	N WV 74'	2.234+/-	11.363	58	S GND PAR	.700+/-	.832
30	N CO/Byron	*****+/-*****		59	N Rel Hum	58.802+/-	.888
31	N 74' Temp	53.874+/-	3.917	60	S GND VER	.159+/-	.088
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	3.452+/-	2.161
35	N HA 74'	4.877+/-	2.285	64	S VA 55'	.182+/-	.581

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.08+/- 1.27	8.4+/- 23.0	4.2+/- 15.1
02	17 19 21	1.69+/- 1.09	10.5+/- 46.3	6.4+/- 23.2
03	38 40 42	2.86+/- 1.04	347.1+/- 17.6	14.6+/- 11.4
04	41 43 45	1.59+/- 1.27	218.8+/- 56.5	14.4+/- 16.8
05	50 52 54	2.79+/- 1.23	165.4+/- 4.3	6.2+/- 15.5
06	56 58 60	1.45+/- .91	317.0+/- 37.8	11.7+/- 14.2

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 2070 vehicles averaging 56.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	59.0	78	53.2	88	57.3	13	60.9	65	46.7
Cat2	154	60.8	174	54.2	170	58.8	134	60.4	98	46.7
Cat3	17	62.2	23	59.4	13	58.4	4	60.7	0	.0
Cat4	7	64.4	10	61.2	9	57.7	3	64.9	1	44.6
Cat5	3	69.7	2	60.6	1	62.2	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	59.7	90	53.8	41	58.5	54	55.5	42	43.6
Cat2	154	59.9	97	56.9	220	58.2	99	56.0	40	44.2
Cat3	6	59.6	18	56.8	30	57.8	7	53.1	3	43.0
Cat4	7	61.7	6	55.8	13	60.9	2	54.6	0	.0
Cat5	0	.0	0	.0	4	57.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.1	541	26.1	56.9	1340	64.7	58.2	121	5.8	60.2	58	2.8	62.2	10	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.445+/-	1.013	37	N VA 102'	.259+/-	.805
12	N Dasibi CD	1.457+/-	.157	38	S BOT PER	-1.727+/-	.814
13	N TOP PAR	.057+/-	.504	39	N VA 74'	.248+/-	.322
14	N Dasibi D3	.012+/-	.001	40	S BOT PAR	.956+/-	.905
15	N TOP VER	.198+/-	.414	41	N GND PER	.426+/-	1.540
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.558+/-	.350
17	N BOT PER	-.716+/-	.734	43	N GND PAR	.747+/-	.598
19	N BOT PAR	.188+/-	.394	45	N GND VER	.190+/-	.111
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.429+/-	.125
21	N BOT VER	.158+/-	.254	50	S TOP PER	-1.876+/-	1.232
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.782+/-	.160
23	N HA 102'	4.313+/-	.819	52	S TOP PAR	.158+/-	.063
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	10.313+/-	11.292	54	S TOP VER	.427+/-	.545
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.813+/-	.235
27	N Gnd Temp	49.288+/-	2.920	56	S GND PER	-.455+/-	.645
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	2.595+/-	.956
29	N WV 74'	358.908+/-	11.347	58	S GND PAR	.755+/-	.581

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	62.075+/-	1.149	%
31	N 74' Temp	51.581+/- 4.063	DEGR F	60	S GND VER	.156+/-	.056	mph
32	N CO2/Byron	*****+/-*****	ppm	81	N Solar Rad	4.542+/-	6.708	W/m <sup>2</sup>
35	N HA 74'	3.411+/- 1.780	mph	64	S VA 55'	.216+/-	.533	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.81+/- .77	356.8+/- 40.7	10.5+/- 28.8
02	17 19 21	1.04+/- .62	334.9+/- 41.7	10.2+/- 30.0
03	38 40 42	2.29+/- .75	331.3+/- 25.0	17.4+/- 12.8
04	41 43 45	1.49+/- 1.13	249.4+/- 43.5	9.6+/- 11.9
05	50 52 54	2.04+/- 1.14	349.5+/- 25.3	14.9+/- 24.3
06	56 58 60	1.09+/- .59	292.4+/- 37.1	13.3+/- 12.9

Average for 15 minute period ending at 18:45:00  
Traffic Data  
 Total Traffic = 2078 vehicles averaging 56.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	59.1	86	52.7	71	55.9	15	57.2	45	45.3
Cat2	133	61.3	172	54.1	179	56.9	136	59.5	77	45.6
Cat3	19	63.0	24	59.0	13	56.7	11	59.9	2	45.9
Cat4	8	65.3	7	58.8	5	57.9	2	61.1	0	0
Cat5	3	67.9	3	58.3	1	55.2	2	68.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	58.1	109	54.3	49	58.2	51	55.6	32	44.9
Cat2	183	60.0	101	55.7	208	57.8	110	57.6	53	43.9
Cat3	4	62.2	10	56.6	30	58.3	10	57.6	1	48.0
Cat4	7	58.7	8	56.9	11	60.6	2	64.3	0	0
Cat5	0	0	0	0	4	58.9	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	538	25.9	56.6	1353	65.1	58.8	124	6.0	60.1	50	2.4	62.0	13	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.270+/- .925	mph	37	N VA 102'	.200+/- .977	mph
12	N Dasibi CO	1.988+/- .260	ppm	38	S BOT PER	-1.899+/- .854	mph
13	N TOP PAR	.094+/- .412	mph	39	N VA 74'	.254+/- .257	mph
14	N Dasibi O3	.014+/- .001	ppm	40	S BOT PAR	.489+/- .633	mph
15	N TOP VER	.201+/- .383	mph	41	N GND PER	.612+/- 1.363	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.435+/- .262	mph
17	N BOT PER	-.473+/- .555	mph	43	N GND PAR	.436+/- .373	mph
19	N BOT PAR	.173+/- .234	mph	45	N GND VER	.187+/- .112	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.123+/- .295	ppm
21	N BOT VER	.158+/- .177	mph	50	S TOP PER	-2.350+/- .921	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.485+/- .345	ppm
23	N HA 102'	4.904+/- .853	mph	52	S TOP PAR	.165+/- .054	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	7.939+/- 9.786	DEGR AZ	54	S TOP VER	.182+/- .421	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.707+/- .427	ppm
27	N Gnd Temp	46.970+/- 4.007	DEGR F	56	S GND PER	-.770+/- .863	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	359.518+/- 10.000	DEGR AZ	58	S GND PAR	.788+/- .678	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	67.123+/- 2.124	%
31	N 74' Temp	51.190+/- 4.167	DEGR F	60	S GND VER	.147+/- .075	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	3.225+/- 1.658	W/m <sup>2</sup>
35	N HA 74'	3.610+/- 1.687	mph	64	S VA 55'	.064+/- .408	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.50+/- .78	350.8+/- 34.6	4.7+/- 28.4
02	17 19 21	.75+/- .44	329.8+/- 44.6	14.1+/- 28.6
03	38 40 42	2.15+/- .84	345.0+/- 16.8	15.7+/- 14.3
04	41 43 45	1.19+/- 1.09	234.1+/- 44.3	17.1+/- 15.6
05	50 52 54	2.46+/- .88	354.8+/- 11.3	9.8+/- 14.3
06	56 58 60	1.33+/- .82	302.9+/- 39.0	11.9+/- 12.3

Average for 15 minute period ending at 19:00:00  
Traffic Data  
 Total Traffic = 1857 vehicles averaging 57.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	59.5	66	53.2	81	57.5	14	58.0	33	48.1
Cat2	132	60.5	166	54.9	142	58.7	127	59.7	53	47.3
Cat3	13	62.2	19	58.7	10	56.8	11	58.3	1	54.3
Cat4	9	63.6	7	62.9	6	58.9	3	67.8	2	45.9
Cat5	5	71.4	2	62.5	2	91.4	1	84.0	2	88.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	59.4	89	54.5	37	58.7	48	55.9	27	44.9
Cat2	179	60.8	97	56.9	204	58.9	109	56.1	19	45.7
Cat3	6	60.8	12	56.3	17	57.8	6	59.5	0	0
Cat4	5	61.0	5	60.4	11	60.2	2	54.5	0	0
Cat5	1	60.3	0	0	5	59.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	466	25.1	57.8	1228	66.1	58.7	95	5.1	60.8	50	2.7	70.2	18	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.872+/- 1.343	mph	37	N VA 102'	.331+/- .986	mph
12	N Dasibi CO	2.531+/- .278	ppm	38	S BOT PER	-1.724+/- .847	mph
13	N TOP PAR	-.299+/- .729	mph	39	N VA 74'	.313+/- .451	mph
14	N Dasibi O3	.014+/- .001	ppm	40	S BOT PAR	.384+/- .427	mph
15	N TOP VER	.249+/- .453	mph	41	N GND PER	.801+/- 1.842	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.465+/- .331	mph
17	N BOT PER	-.822+/- 1.117	mph	43	N GND PAR	.222+/- .419	mph
19	N BOT PAR	-.029+/- .417	mph	45	N GND VER	.190+/- .120	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.220+/- 1.798	ppm
21	N BOT VER	.119+/- .274	mph	50	S TOP PER	-2.030+/- 1.157	mph

22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.599+/-	.308	ppm
23	N HA 102'	5.754+/- 1.369	mph	52	S TOP PAR	.152+/-	.059	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.796+/-	.438	ppm
25	N WV 102'	12.270+/- 11.298	DEGR AZ	54	S TOP VER	.183+/-	.521	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	3.084+/-	.196	ppm
27	N Gnd Temp	48.501+/- 3.733	DEGR F	56	S GND PER	.337+/-	.630	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	.092+/- 10.457	DEGR AZ	58	S GND PAR	.381+/-	.400	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	72.333+/-	.599	%
31	N 74' Temp	50.148+/- 3.262	DEGR F	60	S GND VER	.138+/-	.080	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	2.725+/-	1.784	W/m**2
35	N HA 74'	4.394+/- 2.099	mph	64	S VA 55'	.052+/-	.516	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.09+/-	1.32	6.8+/-	32.3	8.0+/- 18.1
02	17 19 21	1.09+/-	.98	355.5+/-	50.1	18.7+/- 21.3
03	38 40 42	1.88+/-	.79	345.4+/-	17.0	22.1+/- 13.9
04	41 43 45	1.38+/-	1.54	223.6+/-	51.5	19.1+/- 18.1
05	50 52 54	2.23+/-	1.02	349.3+/-	32.1	16.4+/- 24.8
06	56 58 60	.75+/-	.54	277.5+/-	44.7	22.2+/- 17.9

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 8218 vehicles averaging 56.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	122	59.4	325	53.0	320	57.1	62	58.0	191	46.8
Cat2	578	61.2	669	54.4	671	57.9	630	59.7	335	46.7
Cat3	68	63.1	86	58.9	53	57.7	35	59.0	6	46.4
Cat4	29	64.5	32	60.8	27	58.0	14	62.7	4	45.3
Cat5	16	68.8	9	60.1	5	72.3	3	66.9	2	88.1

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	179	58.7	332	54.1	175	58.4	195	55.5	148	44.5
Cat2	671	59.9	411	58.0	865	57.9	453	56.3	183	44.4
Cat3	24	60.4	57	58.7	112	57.5	34	56.9	7	42.2
Cat4	26	60.8	28	58.8	49	59.2	9	56.2	0	.0
Cat5	3	62.1	2	62.6	23	58.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.4	2109	25.7	56.9	5346	65.1	58.3	482	5.9	59.7	218	2.7	64.1	83	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-1.851+/- 1.298	mph	37	N VA 102'	.287+/- .928	mph
12	N Dasibi CO	1.807+/- .560	ppm	38	S BDT PER	-1.937+/- .942	mph
13	N TDP PAR	-.152+/- .703	ppm	39	N VA 74'	.289+/- .417	mph
14	N Dasibi O3	.013+/- .001	ppm	40	S BDT PAR	.560+/- .725	mph
15	N TDP VER	-.223+/- .493	ppm	41	N GND PER	.547+/- 1.569	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.509+/- .329	mph
17	N BDT PER	-.832+/- 1.027	mph	43	N GND PAR	.371+/- .592	mph
19	N BDT PAR	-.057+/- .446	mph	45	N GND VER	.186+/- .120	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.768+/- 1.001	ppm
21	N BDT VER	.147+/- .292	mph	50	S TOP PER	-2.238+/- 1.192	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.087+/- .524	ppm
23	N HA 102'	5.264+/- 1.287	mph	52	S TOP PAR	.158+/- .059	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.096+/- .824	ppm
25	N WV 102'	11.778+/- 11.130	DEGR AZ	54	S TOP VER	.283+/- .514	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.276+/- .675	ppm
27	N Gnd Temp	48.077+/- 3.728	DEGR F	56	S GND PER	-.656+/- .827	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	.187+/- 10.855	DEGR AZ	58	S GND PAR	.658+/- .596	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	65.083+/- 5.330	%
31	N 74' Temp	51.688+/- 4.011	DEGR F	60	S GND VER	.150+/- .076	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	3.486+/- 3.693	W/m**2
35	N HA 74'	4.073+/- 2.098	mph	64	S VA 55'	.129+/- .517	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.12+/-	1.22	1.1+/-	33.8	6.9+/- 22.6
02	17 19 21	1.14+/-	.90	346.5+/-	46.8	12.4+/- 26.3
03	38 40 42	2.27+/-	.89	342.4+/-	20.2	17.4+/- 13.4
04	41 43 45	1.41+/-	1.28	235.5+/-	50.5	18.0+/- 16.1
05	50 52 54	2.38+/-	1.11	352.5+/-	21.7	11.8+/- 20.7
06	56 58 60	1.15+/-	.77	298.3+/-	41.0	14.8+/- 15.1

19:11:03 -- ENDED ODD RADAR MANUAL COUNTS  
 19:11:52 -- ENDED ODD RADAR MANUAL COUNTS @ 1905 hrs. RECORDED IN MEL-2 DATA BOOK.  
 19:12:34 -- END CAL. CH 55 GRD  
 19:13:13 -- BEGIN CAL. CH 51  
 19:31:36 -- END CAL. CH 51 GRD  
 19:32:12 -- BEGIN CAL. CH 49 GRD  
 19:51:26 -- END CAL. CH. 49 GRD

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1786 vehicles averaging 57.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	58.9	52	52.8	70	58.1	16	61.9	27	47.0
Cat2	116	62.0	184	55.1	162	58.6	116	60.5	36	47.8
Cat3	13	65.5	20	58.3	20	59.0	11	58.8	1	45.0
Cat4	12	63.9	11	56.8	3	57.2	3	62.8	1	39.5
Cat5	2	69.4	1	63.6	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	58.6	63	55.5	39	58.4	55	55.6	23	44.2
Cat2	183	60.0	91	56.3	176	58.4	100	56.2	27	45.7
Cat3	10	60.4	14	57.4	21	58.9	6	59.0	2	44.4
Cat4	6	64.6	7	57.5	5	62.8	0	.0	0	.0
Cat5	1	59.5	1	54.8	4	64.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	420	23.5	57.8	1191	66.7	59.1	118	6.6	60.8	48	2.7	63.7	9	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.858+/- 1.248	mph	37	N VA 102'	.129+/- 1.149	mph
12	N Dasibi CO	1.567+/- .279	ppm	38	S BOT PER	-2.937+/- 1.156	mph
13	N TOP PAR	-1.181+/- 1.144	mph	39	N VA 74'	.368+/- .671	mph
14	N Dasibi D3	.012+/- .001	ppm	40	S BOT PAR	-.049+/- .833	mph
15	N TOP VER	.212+/- .711	mph	41	N GND PER	-.178+/- 1.696	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	-.405+/- .458	mph
17	N BDT PER	-1.971+/- 1.625	mph	43	N GND PAR	-.386+/- .803	mph
19	N BDT PAR	-.586+/- .987	mph	45	N GND VER	-.155+/- .321	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.667+/- .140	ppm
21	N BDT VER	.137+/- .595	mph	50	S TDP PER	-3.468+/- 1.526	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	2.118+/- .130	ppm
23	N HA 102'	7.366+/- 1.396	mph	52	S TOP PAR	-.121+/- .275	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.734+/- .331	ppm
25	N WV 102'	21.038+/- 10.813	DEGR AZ	54	S TDP VER	.177+/- .678	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	47.986+/- 3.009	DEGR F	56	S GND PER	-1.188+/- .961	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.407+/- 1.033	ppm
29	N WV 74'	8.479+/- 13.509	DEGR AZ	58	S GND PAR	-.303+/- .479	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	70.493+/- .927	%
31	N 74' Temp	50.721+/- 3.566	DEGR F	61	S GND VER	-.098+/- .302	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	2.543+/- 2.083	W/m <sup>2</sup>
35	N HA 74'	5.889+/- 2.115	mph	64	S VA 55'	-.037+/- .917	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.25+/- 1.27	16.7+/- 16.8	3.2+/- 10.9
02	17 19 21	2.50+/- 1.38	26.0+/- 40.9	8.3+/- 19.5
03	38 40 42	3.15+/- 1.09	358.1+/- 18.7	10.2+/- 10.9
04	41 43 45	1.55+/- 1.18	96.1+/- 55.1	8.9+/- 16.2
05	50 52 54	3.54+/- 1.50	356.8+/- 12.3	4.0+/- 13.2
06	56 58 60	1.36+/- .89	335.4+/- 38.4	10.0+/- 16.8

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1783 vehicles averaging 57.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	60.8	66	52.6	68	58.7	17	60.7	35	46.3
Cat2	137	62.1	158	54.6	156	58.8	118	61.0	37	47.7
Cat3	14	61.9	19	57.8	14	56.8	6	61.5	0	.0
Cat4	3	65.5	9	60.5	6	56.1	2	61.8	2	46.5
Cat5	2	64.8	1	64.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	59.6	96	54.5	56	58.7	45	56.9	35	44.1
Cat2	186	59.5	96	57.2	170	59.3	81	57.3	21	47.3
Cat3	9	61.4	10	58.9	10	59.7	4	58.9	2	39.2
Cat4	7	61.2	3	55.2	11	61.9	3	61.8	0	.0
Cat5	1	64.7	0	.0	2	60.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	483	27.1	58.2	1160	65.1	58.6	88	4.9	59.9	46	2.6	63.2	6	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.649+/- 1.609	mph	37	N VA 102'	-.084+/- 1.294	mph
12	N Dasibi CO	1.347+/- .089	ppm	38	S BOT PER	-2.225+/- 1.498	mph
13	N TOP PAR	-1.731+/- 1.277	mph	39	N VA 74'	-.188+/- .804	mph
14	N Dasibi D3	.012+/- .001	ppm	40	S BOT PAR	-.294+/- .980	mph
15	N TOP VER	.052+/- .898	mph	41	N GND PER	-.550+/- 1.231	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	-.461+/- .379	mph
17	N BDT PER	-1.784+/- 1.903	mph	43	N GND PAR	-.813+/- 1.098	mph
19	N BDT PAR	-.978+/- 1.138	mph	45	N GND VER	-.104+/- .396	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.625+/- .116	ppm
21	N BDT VER	.018+/- .726	mph	50	S TDP PER	-2.536+/- 1.467	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.374+/- 1.629	mph	52	S TOP PAR	-.114+/- .313	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.548+/- .253	ppm
25	N WV 102'	24.439+/- 12.415	DEGR AZ	54	S TDP VER	-.198+/- .642	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.012+/- .201	ppm
27	N Gnd Temp	48.116+/- 3.630	DEGR F	56	S GND PER	-.841+/- 1.023	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.800+/- 1.017	ppm
29	N WV 74'	15.084+/- 17.676	DEGR AZ	58	S GND PAR	-.075+/- .550	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	69.077+/- .360	%
31	N 74' Temp	49.367+/- 4.854	DEGR F	60	S GND VER	.119+/- .248	mph

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	4.30+/- 1.61	25.2+/- 18.4	3.8+/- 11.5
02	17 19 21	2.57+/- 1.58	45.4+/- 44.0	6.7+/- 23.4
03	38 40 42	2.63+/- 1.27	6.3+/- 32.1	10.8+/- 19.2
04	41 43 45	1.67+/- 1.03	57.6+/- 48.7	10.8+/- 20.2
05	50 52 54	2.72+/- 1.37	353.9+/- 23.1	2.5+/- 25.1
06	56 58 60	1.16+/- .93	328.6+/- 51.7	11.8+/- 23.9

Average for 15 minute period ending at 19:45:00  
**Traffic Data**  
 Total Traffic = 1642 vehicles averaging 57.6 mph

**Westbound Traffic**

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	59.8	63	53.0	91	57.9	18	58.7	23	45.7
Cat2	112	61.1	161	58.8	122	58.9	87	60.4	37	49.1
Cat3	7	64.5	16	60.6	10	58.8	4	60.1	2	43.9
Cat4	7	66.4	5	63.1	5	60.7	4	61.4	0	.0
Cat5	2	69.4	4	62.6	0	.0	0	.0	0	.0

**Eastbound Traffic**

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	58.7	79	54.4	56	59.4	47	56.6	20	45.3
Cat2	193	59.6	69	56.3	149	59.4	72	58.3	17	47.3
Cat3	9	61.0	13	56.9	18	60.2	4	58.0	0	.0
Cat4	10	62.5	4	58.1	10	60.0	3	61.1	0	.0
Cat5	3	61.8	0	.0	2	57.7	0	.0	0	.0

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	481	29.3	58.1	1019	62.1	59.5	83	5.1	61.9	48	2.9	62.7	11	.7

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.308+/- 1.444	mph	37	N VA 102'	.142+/- 1.334	mph
12	N Desibi CO	1.162+/- .145	ppm	38	S BDT PER	-2.633+/- 1.244	mph
13	N TOP PAR	-1.818+/- 1.203	mph	39	N VA 74'	-.247+/- .745	mph
14	N Desibi D3	.012+/- .001	ppm	40	S BDT PAR	-.914+/- 1.223	mph
15	N TOP VER	.159+/- .977	mph	41	N GND PER	-.193+/- 1.613	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.424+/- .408	mph
17	N BOT PER	-1.680+/- 1.714	mph	43	N GND PAR	-.856+/- .867	mph
19	N BDT PAR	-1.089+/- 1.019	mph	45	N GND VER	-.112+/- .352	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.016+/- .789	mph	50	S TOP PER	-3.029+/- 1.520	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.579+/- .159	ppm
23	N HA 102'	6.891+/- 1.743	mph	52	S TOP PAR	-.103+/- .348	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.425+/- .296	ppm
25	N WV 102'	28.704+/- 11.066	DEGR AZ	54	S TOP VER	.340+/- .746	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.772+/- .225	ppm
27	N Gnd Temp	48.090+/- 4.421	DEGR F	56	S GND PER	-.663+/- .917	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.808+/- 1.071	ppm
29	N WV 74'	15.923+/- 13.820	DEGR AZ	58	S GND PAR	-.111+/- .716	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	69.744+/- .432	%
31	N 74' Temp	50.174+/- 3.674	DEGR F	60	S GND VER	-.103+/- .183	mph
32	N C02/Byron	*****+/-*****	ppm	61	N Solar Rad	5.258+/- 6.225	W/m=2
35	N HA 74'	5.102+/- 4.170	mph	64	S VA 55'	.074+/- .823	mph

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	4.00+/- 1.58	28.5+/- 15.4	1.0+/- 12.8
02	17 19 21	2.52+/- 1.39	46.5+/- 40.8	3.6+/- 23.8
03	38 40 42	3.10+/- 1.25	16.1+/- 23.5	11.5+/- 12.3
04	41 43 45	1.72+/- 1.11	91.7+/- 48.3	8.1+/- 14.2
05	50 52 54	3.15+/- 1.47	356.0+/- 8.2	6.2+/- 17.5
06	56 58 60	1.05+/- .90	333.0+/- 54.5	13.9+/- 24.0

Average for 15 minute period ending at 20:00:00  
**Traffic Data**  
 Total Traffic = 1524 vehicles averaging 58.3 mph

**Westbound Traffic**

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	60.8	70	53.3	56	57.9	17	61.8	26	46.2
Cat2	111	62.1	144	54.9	126	59.0	104	61.4	37	46.9
Cat3	11	62.8	16	58.6	14	59.8	3	62.3	1	43.9
Cat4	4	70.2	6	59.6	3	60.2	3	60.3	0	.0
Cat5	4	70.7	0	.0	0	.0	0	.0	0	.0

**Eastbound Traffic**

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	59.6	62	55.3	80	59.4	41	55.7	16	48.5
Cat2	156	60.9	74	58.2	141	60.2	68	59.1	7	48.1
Cat3	6	62.2	9	57.2	9	63.0	2	56.7	1	51.2
Cat4	4	62.2	2	56.7	7	63.2	2	51.0	0	.0
Cat5	1	58.6	1	55.9	2	63.1	0	.0	0	.0

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	445	29.2	58.9	968	63.5	60.2	72	4.7	61.5	31	2.0	65.4	8	.5

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.347+/- 1.633	mph	37	N VA 102'	.167+/- 1.750	mph
12	N Desibi CO	-.929+/- .118	ppm	38	S BDT PER	-2.890+/- 1.412	mph
13	N TOP PAR	-1.454+/- 1.345	mph	39	N VA 74'	.358+/- .845	mph
14	N Desibi D3	.012+/- .001	ppm	40	S BDT PAR	-.345+/- 1.063	mph
15	N TOP VER	.198+/- .915	mph	41	N GND PER	-.767+/- 1.342	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	-.278+/- .397	mph
17	N BOT PER	-1.544+/- 1.763	mph	43	N GND PAR	-.631+/- .957	mph
19	N BDT PAR	-.885+/- 1.116	mph	45	N GND VER	-.144+/- .357	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.071+/- .792	mph	50	S TOP PER	-3.150+/- 1.851	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.330+/- .117	ppm
23	N HA 102'	6.929+/- 1.491	mph	52	S TOP PAR	.154+/- .082	mph

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.253+/-	.328	ppm
25	N WV 102'	24.846+/- 12.513	DEGR AZ	54	S TOP VER	.061+/-	.683	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.455+/-	.249	ppm
27	N Gnd Temp	47.334+/- 3.283	DEGR F	56	S GND PER	-1.172+/-	1.177	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.774+/-	1.110	ppm
29	N WV 74'	11.563+/- 16.313	DEGR AZ	58	S GND PAR	.135+/-	.840	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	70.249+/-	.399	%
31	N 74' Temp	50.435+/- 4.023	DEGR F	60	S GND VER	.120+/-	.162	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	10.627+/-	7.834	W/m**2
35	N HA 74'	6.239+/- 5.887	mph	64	S VA 55'	-.136+/-	.826	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.97+/- 1.72	22.7+/- 20.2	1.8+/- 20.7
02	17 19 21	2.45+/- 1.48	45.9+/- 46.7	1.2+/- 34.3
03	38 40 42	3.14+/- 1.43	4.6+/- 19.9	10.6+/- 12.0
04	41 43 45	1.70+/- 1.04	45.7+/- 48.0	3.7+/- 22.0
05	50 52 54	3.28+/- 1.76	354.3+/- 17.2	4.9+/- 22.8
06	56 58 60	1.49+/- 1.14	340.5+/- 48.1	11.4+/- 19.8

Average for hourly period ending at 20:00:00  
Traffic Data  
 Total Traffic = 6735 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	119	60.0	251	53.0	293	58.1	68	60.7	111	46.3
Cat2	476	61.8	647	54.9	566	58.8	425	60.8	147	47.9
Cat3	45	63.6	71	59.0	58	58.6	24	60.1	4	44.1
Cat4	26	65.7	31	60.2	17	58.4	12	61.6	3	44.1
Cat5	10	69.0	6	63.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	194	59.1	300	54.8	211	59.0	188	56.2	94	44.8
Cat2	718	60.0	330	57.0	636	59.3	321	57.5	72	46.6
Cat3	34	61.1	46	57.1	58	60.1	16	58.4	5	43.7
Cat4	27	62.6	16	57.1	33	61.7	8	58.9	0	.0
Cat5	6	61.3	2	55.3	10	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.7	1829	27.2	58.2	4338	64.4	59.3	361	5.4	61.0	173	2.6	63.7	34	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.541+/- 1.502	mph	37	N VA 102'	.131+/- 1.397	mph
12	N Dasibi CO	1.276+/- .321	ppm	38	S BOT PER	-2.671+/- 1.358	mph
13	N TOP PAR	-1.546+/- 1.264	mph	39	N VA 74'	.290+/- .771	mph
14	N Dasibi O3	.012+/- .001	ppm	40	S BOT PAR	-1.400+/- 1.078	mph
15	N TOP VER	.155+/- .881	mph	41	N GND PER	-.236+/- 1.538	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	.392+/- .417	mph
17	N BDT PER	-1.745+/- 1.754	mph	43	N GND PAR	-.671+/- .952	mph
19	N BDT PAR	-.879+/- 1.078	mph	45	N GND VER	.129+/- .357	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.052+/- .725	mph	50	S TOP PER	-3.045+/- 1.827	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.140+/- 1.581	mph	52	S TOP PAR	.123+/- .274	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.490+/- .350	ppm
25	N WV 102'	24.756+/- 12.001	DEGR AZ	54	S TOP VER	.194+/- .694	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.767+/- .329	ppm
27	N Gnd Temp	47.881+/- 3.546	DEGR F	56	S GND PER	-.960+/- 1.043	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.897+/- 1.100	ppm
29	N WV 74'	12.753+/- 15.665	DEGR AZ	58	S GND PAR	.100+/- .675	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	69.891+/- .786	%
31	N 74' Temp	50.174+/- 3.932	DEGR F	60	S GND VER	.110+/- .230	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	5.473+/- 5.982	W/m**2
35	N HA 74'	5.879+/- 3.878	mph	64	S VA 55'	.007+/- .820	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.13+/- 1.55	23.3+/- 18.2	2.5+/- 14.5
02	17 19 21	2.51+/- 1.48	40.7+/- 43.4	5.2+/- 25.9
03	38 40 42	3.00+/- 1.28	6.5+/- 24.8	10.8+/- 13.9
04	41 43 45	1.86+/- 1.09	69.8+/- 51.2	7.9+/- 18.5
05	50 52 54	3.17+/- 1.55	355.2+/- 16.4	4.4+/- 20.1
06	56 58 60	1.28+/- .98	335.1+/- 49.2	11.8+/- 21.3

20:27:58 -- CH 35 SEEMS NOISY. DATA MAY BE SUSPECT.  
 20:37:02 -- Smells as if there is a wood heater burning nearby.  
 Average for 15 minute period ending at 20:15:00

Traffic Data  
 Total Traffic = 1471 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	60.8	89	53.3	88	57.7	9	61.1	28	48.1
Cat2	105	61.3	142	55.1	140	59.0	82	61.5	32	47.0
Cat3	6	64.0	15	61.1	10	58.7	2	52.4	0	.0
Cat4	6	65.7	3	61.3	1	64.5	3	65.7	0	.0
Cat5	1	67.4	1	66.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	59.7	80	55.0	58	60.1	35	56.3	11	45.0
Cat2	167	60.4	54	57.8	119	59.8	64	58.3	10	44.6
Cat3	9	61.7	6	56.9	17	59.9	2	56.7	0	.0
Cat4	6	60.4	5	56.3	6	63.4	0	.0	0	.0
Cat5	2	62.0	1	59.1	1	64.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	453	30.8	58.6	915	62.2	60.0	67	4.6	62.1	30	2.0	63.5	6	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.347+/-	1.266	37	N VA 102'	.380+/-	1.541
12	N Desibi CD	.843+/-	.107	38	S BOT PER	-2.238+/-	1.075
13	N TOP PAR	-.875+/-	1.087	39	N VA 74'	.231+/-	.742
14	N Desibi D3	.012+/-	.001	40	S BOT PAR	-.208+/-	.850
15	N TOP VER	-.127+/-	.838	41	N GND PER	-.120+/-	1.334
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.421+/-	.400
17	N BOT PER	-1.702+/-	1.553	43	N GND PAR	-.534+/-	.748
18	N BOT PAR	-.507+/-	.888	45	N GND VER	-.146+/-	.261
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	1.251+/-	.135
21	N BOT VER	.094+/-	.599	50	S TOP PER	-2.324+/-	1.202
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.289+/-	.119
23	N HA 102'	6.123+/-	1.327	52	S TOP PAR	.135+/-	.113
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	1.242+/-	.322
25	N WV 102'	21.895+/-	11.696	54	S TOP VER	.214+/-	.502
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	1.442+/-	.253
27	N Gnd Temp	46.084+/-	4.241	56	S GND PER	-.788+/-	.832
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	1.453+/-	1.085
29	N WV 74'	9.729+/-	16.588	58	S GND PAR	.195+/-	.508
30	N CD/Byron	*****+/-*****		59	N Rel Hum	70.787+/-	.481
31	N 74' Temp	49.106+/-	4.284	60	S GND VER	.125+/-	.089
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	6.722+/-	4.598
35	N HA 74'	7.304+/-	5.239	64	S VA 55'	-.053+/-	.604

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.73+/- 1.27	13 7+/- 17.5	4 3+/- 16.4
02	17 19 21	2.20+/- 1.37	20 8+/- 47.4	9 8+/- 28.3
03	38 40 42	2.47+/- 1.10	353 7+/- 22.0	13 2+/- 14.7
04	41 43 45	1.38+/- .90	57 8+/- 53.3	6 1+/- 17.7
05	50 52 54	2.43+/- 1.16	355 5+/- 4.7	5 7+/- 19.3
06	56 58 60	1.04+/- .74	333 4+/- 45.7	12 7+/- 14.5

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic = 1500 vehicles averaging 57.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	59.8	87	53.1	90	58.0	21	60.5	18	44.6
Cat2	109	61.5	123	55.1	138	58.3	89	60.6	38	45.7
Cat3	10	64.0	15	62.0	9	60.4	8	59.1	1	43.7
Cat4	6	65.2	10	61.6	3	56.5	0	.0	1	37.0
Cat5	1	66.9	1	61.3	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	59.1	64	54.5	61	59.1	36	57.0	15	43.9
Cat2	164	60.0	56	56.7	127	59.5	59	57.7	8	40.7
Cat3	6	60.0	19	56.5	12	59.9	2	64.4	2	35.7
Cat4	8	61.5	3	52.2	5	56.4	0	.0	0	.0
Cat5	1	62.5	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	488	31.2	58.1	911	60.7	59.3	82	5.5	59.6	36	2.4	63.6	3	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.172+/-	1.221	37	N VA 102'	-.192+/-	1.809
12	N Desibi CD	1.039+/-	.194	38	S BOT PER	-1.778+/-	.792
13	N TOP PAR	-.961+/-	.450	39	N VA 74'	-.303+/-	.624
14	N Desibi D3	.012+/-	.001	40	S BOT PAR	-.025+/-	.748
15	N TOP VER	.255+/-	.551	41	N GND PER	-.322+/-	1.644
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.428+/-	.428
17	N BOT PER	-1.118+/-	1.285	43	N GND PAR	-.330+/-	.579
18	N BOT PAR	-.321+/-	.529	45	N GND VER	-.186+/-	.217
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	1.246+/-	.129
21	N BOT VER	.182+/-	.397	50	S TOP PER	-1.815+/-	.904
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.415+/-	.160
23	N HA 102'	5.132+/-	1.240	52	S TOP PAR	-.142+/-	.087
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	1.432+/-	.339
25	N WV 102'	28.741+/-	12.285	54	S TOP VER	.184+/-	.440
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	1.644+/-	.261
27	N Gnd Temp	46.857+/-	1.889	56	S GND PER	-.545+/-	.830
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	1.933+/-	1.151
29	N WV 74'	15.926+/-	15.115	58	S GND PAR	.028+/-	.583
30	N CD/Byron	*****+/-*****		59	N Rel Hum	71.975+/-	.755
31	N 74' Temp	48.767+/-	5.851	60	S GND VER	.142+/-	.115
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	9.219+/-	7.814
35	N HA 74'	*****+/-*****		64	S VA 55'	.100+/-	.548

UVW Vector Calculations



UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.58+/- 1.14	25.3+/- 26.3	.1+/- 23.3
02	17 19 21	1.83+/- 1.02	32.2+/- 46.0	4.3+/- 29.8
03	38 40 42	2.00+/- .78	356.4+/- 21.9	13.8+/- 15.1
04	41 43 45	1.43+/- 1.14	114.2+/- 54.3	9.9+/- 19.6
05	50 52 54	1.89+/- .87	353.1+/- 10.4	7.6+/- 17.8
06	56 58 60	.85+/- .78	304.3+/- 53.4	17.2+/- 16.8

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 1383 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	36	59.4	74	53.4	86	58.3	10	59.4	31	47.2
Cat 2	121	61.4	137	54.1	131	58.2	85	61.6	31	48.1
Cat 3	5	65.4	12	61.3	2	61.1	4	58.7	1	39.9
Cat 4	5	68.7	4	58.9	4	58.1	0	0	0	0
Cat 5	0	0	1	62.9	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	58	60.6	47	55.7	52	60.3	29	58.3	8	47.4
Cat 2	129	60.7	53	58.2	107	60.5	53	59.1	8	47.5
Cat 3	8	59.6	8	56.1	12	60.0	3	51.1	0	0
Cat 4	8	61.3	4	59.9	3	63.2	0	0	0	0
Cat 5	2	64.3	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	442	32.0	58.7	855	61.8	59.9	55	4.0	61.8	28	2.0	63.8	3	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-1.282+/- .814	mph	37	N VA 102'	.391+/- 1.554	mph
12	N Dasibi CO	1.304+/- .129	ppm	38	S BDT PER	-1.650+/- .744	mph
13	N TDP PAR	.038+/- .598	mph	39	N VA 74'	.239+/- .425	mph
14	N Dasibi O3	.013+/- .001	ppm	40	S BDT PAR	.303+/- .784	mph
15	N TDP VER	.191+/- .448	mph	41	N GND PER	.385+/- 1.227	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.419+/- .382	mph
17	N BDT PER	-.584+/- .698	mph	43	N GND PAR	-.506+/- .455	mph
18	N BDT PAR	-.123+/- .385	ppm	45	N GND VER	.190+/- .209	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.461+/- .139	ppm
21	N BDT VER	.154+/- .217	mph	50	S TOP PER	-1.389+/- .949	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.636+/- .151	ppm
23	N HA 102'	3.949+/- .895	mph	52	S TOP PAR	-.135+/- .081	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.800+/- .328	ppm
25	N WV 102'	20.515+/- 12.938	DEGR AZ	54	S TOP VER	-.261+/- .478	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.953+/- .256	ppm
27	N Gnd Temp	43.296+/- 3.526	DEGR F	56	S GND PER	-.424+/- .607	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.124+/- 1.043	ppm
29	N WV 74'	4.822+/- 14.409	DEGR AZ	58	S GND PAR	.280+/- .378	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	75.085+/- 1.435	%
31	N 74' Temp	47.777+/- 5.682	DEGR F	60	S GND VER	1.136+/- .066	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	12.262+/- 8.822	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	.135+/- .493	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.59+/- .69	355.2+/- 35.2	11.8+/- 28.4
02	17 19 21	.93+/- .76	331.8+/- 47.5	16.0+/- 25.6
03	38 40 42	1.95+/- .76	348.4+/- 21.4	13.4+/- 17.7
04	41 43 45	1.13+/- .86	243.6+/- 47.5	14.3+/- 21.7
05	50 52 54	1.53+/- .86	349.3+/- 28.6	7.0+/- 27.2
06	56 58 60	.72+/- .52	296.9+/- 48.3	18.2+/- 16.7

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 1318 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	24	59.2	93	53.3	72	58.3	11	61.3	27	47.5
Cat 2	90	59.8	117	54.6	111	58.5	84	61.6	33	48.6
Cat 3	6	59.8	8	58.5	10	59.5	2	55.2	0	0
Cat 4	3	65.7	3	65.1	5	59.0	1	63.8	0	0
Cat 5	1	66.7	1	62.9	0	0	1	60.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	42	60.0	54	55.0	58	60.2	31	56.4	10	45.4
Cat 2	147	61.3	55	57.5	118	60.4	59	58.0	7	48.7
Cat 3	8	61.1	6	60.7	9	61.0	0	0	0	0
Cat 4	3	60.3	3	59.5	2	62.5	1	53.8	1	41.8
Cat 5	0	0	0	0	1	59.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	422	32.0	58.6	821	62.3	59.8	49	3.7	60.5	22	1.7	62.4	4	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-1.485+/- .657	mph	37	N VA 102'	-.038+/- 1.542	mph
12	N Dasibi CO	1.475+/- .442	ppm	38	S BDT PER	-1.472+/- .684	mph
13	N TDP PAR	.152+/- .398	mph	39	N VA 74'	.239+/- .415	mph
14	N Dasibi O3	.014+/- .001	ppm	40	S BDT PAR	1.106+/- .801	mph
15	N TDP VER	.149+/- .388	mph	41	N GND PER	.241+/- 1.331	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	-.392+/- .351	mph
17	N BDT PER	-.321+/- .562	mph	43	N GND PAR	.617+/- .391	mph
18	N BDT PAR	-.246+/- .305	ppm	45	N GND VER	-.187+/- .191	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.472+/- .141	ppm
21	N BDT VER	.158+/- .214	mph	50	S TOP PER	-1.269+/- .838	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.744+/- .188	ppm
23	N HA 102'	4.860+/- .775	mph	52	S TOP PAR	-.130+/- .084	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.795+/- .317	ppm
25	N WV 102'	14.402+/- 8.151	DEGR AZ	54	S TOP VER	-.228+/- .351	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.085+/- .262	ppm
27	N Gnd Temp	45.589+/- 4.088	DEGR F	56	S GND PER	-.234+/- .620	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.687+/- 1.162	ppm

28	N WV 74'	356.592+/-	11.297	DEGR AZ	58	S GND PAR	.536+/-	.539	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rel Hum	79.189+/-	1.162	%
31	N 74' Temp	48.012+/-	4.070	DEGR F	60	S GND VER	.126+/-	.084	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	9.129+/-	5.136	W/m**2
35	N HA 74'	2.316+/-	7.119	mph	64	S VA 55'	.131+/-	.327	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.66+/-	.62	353.4+/-	19.4	10.4+/-	22.5
02	17	19	21	.77+/-	.45	301.1+/-	48.5	18.6+/-	35.0
03	38	40	42	2.08+/-	.75	325.3+/-	21.1	14.9+/-	16.5
04	41	43	45	1.16+/-	1.04	261.1+/-	41.6	12.7+/-	18.3
05	50	52	54	1.43+/-	.73	347.1+/-	26.6	13.1+/-	29.7
06	56	58	60	.79+/-	.66	267.1+/-	41.9	18.9+/-	16.4

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 5672 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	120	59.8	343	53.3	326	58.1	51	50.6	104	47.1
Cat 2	425	61.1	519	54.7	520	58.8	340	61.3	134	47.3
Cat 3	27	63.2	50	61.0	31	59.6	14	60.3	2	41.8
Cat 4	20	66.3	20	61.5	13	58.5	4	65.3	1	37.0
Cat 5	3	67.0	4	63.3	0	0	1	60.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	191	58.8	245	55.0	228	59.9	131	57.0	45	45.2
Cat 2	607	60.6	218	57.5	471	60.0	235	58.2	33	45.2
Cat 3	31	60.7	39	57.1	50	60.1	7	56.5	2	35.7
Cat 4	25	61.0	15	57.1	16	61.1	1	53.8	1	41.8
Cat 5	5	63.0	1	59.1	2	61.9	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	1785	31.5	58.5	3502	61.7	59.7	253	4.5	61.0	116	2.0	63.3	16	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.066+/-	1.303	37	N VA 102'	.226+/-	1.568
12	N Dasibi CO	1.192+/-	.330	38	S BOT PER	-1.786+/-	.880
13	N TOP PAR	-.411+/-	.927	39	N VA 74'	.253+/-	.568
14	N Dasibi O3	.013+/-	.001	40	S BOT PAR	.411+/-	.895
15	N TOP VER	.180+/-	.583	41	N GND PER	.207+/-	1.401
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.415+/-	.391
17	N BOT PER	-.930+/-	1.214	43	N GND PAR	-.065+/-	.752
19	N BOT PAR	-.105+/-	.658	45	N GND VER	.172+/-	.221
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	1.357+/-	.174
21	N BOT VER	.147+/-	.391	50	S TOP PER	-1.699+/-	1.063
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	1.521+/-	.238
23	N HA 102'	4.966+/-	1.338	52	S TOP PAR	.135+/-	.092
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.567+/-	.405
25	N WV 102'	21.365+/-	12.441	54	S TOP VER	.222+/-	.447
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	1.781+/-	.361
27	N Gnd Temp	45.406+/-	3.700	56	S GND PER	-.498+/-	.754
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	2.050+/-	1.191
29	N WV 74'	6.722+/-	15.988	58	S GND PAR	.255+/-	.538
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	74.259+/-	3.427
31	N 74' Temp	48.416+/-	4.936	60	S GND VER	.133+/-	.093
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	9.333+/-	6.940
35	N HA 74'	*****+/-	*****	64	S VA 55'	.078+/-	.508

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.42+/-	1.30	7.4+/-	28.4	6.7+/-	23.4
02	17	19	21	1.38+/-	1.09	353.1+/-	50.9	12.2+/-	30.2
03	38	40	42	2.12+/-	.88	346.0+/-	24.3	13.8+/-	16.0
04	41	43	45	1.28+/-	1.02	243.1+/-	56.5	10.7+/-	19.6
05	50	52	54	1.82+/-	.89	351.4+/-	20.7	8.4+/-	24.1
06	56	58	60	.85+/-	.69	298.9+/-	49.6	16.7+/-	16.2

21:37:11 -- BEGIN CHECKING END DRIFTS ON THE ECDLYZERS.  
 21:37:29 -- CHECKING DRIFT ON CH 49 MWH  
 21:41:33 -- CHECK END DRIFT ON CH 51  
 21:44:41 -- END DRIFT CHECK OF CH 49  
 21:46:10 -- CHECK END DRIFT ON CH 53  
 21:47:30 -- END DRIFT CHECK OF CH 51  
 21:49:03 -- BEGIN DRIFT CHECK OF CH 55  
 21:52:15 -- END DRIFT CHECK OF CH 53  
 21:52:34 -- BEGIN CHECK ON CH 57  
 21:54:28 -- END DRIFT CHECK OF CH 55  
 21:58:18 -- HAVE SMALL AMT OF TYPE 17 DATA ON CH 55 THAT CORRESPONDS TO THE TRANSIENT RESPONSE  
 21:58:27 -- MWH  
 21:59:26 -- END DRIFT CHECK DN CH 57 MWH

Average for 15 minute period ending at 21:15:00  
 Traffic Data  
 Total Traffic = 1235 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	58.3	79	53.3	76	58.3	12	62.1	33	47.3
Cat2	88	60.6	99	54.8	94	59.3	71	60.6	34	47.1
Cat3	2	61.6	4	58.4	5	57.2	2	71.6	0	.0
Cat4	3	68.8	4	56.1	0	.0	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	61.2	67	57.0	48	59.4	31	65.7	9	44.6
Cat2	122	61.8	51	57.7	114	60.3	55	57.6	7	42.7
Cat3	7	62.6	7	57.3	10	60.4	2	63.1	0	.0
Cat4	3	65.4	5	60.0	9	63.0	1	52.2	0	.0
Cat5	0	.0	1	61.9	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	431	34.9	58.6	735	59.5	60.2	44	3.6	61.8	25	2.0	61.9	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.320+/-	1.252	37	N VA 102'	.028+/-	1.656
12	N Dasibi CD	1.714+/-	.668	38	S BOT PER	-1.649+/-	.677
13	N TOP PAR	-.564+/-	.718	39	N VA 74'	.286+/-	.556
14	N Dasibi O3	.014+/-	.001	40	S BOT PAR	.324+/-	.616
15	N TOP VER	.159+/-	.501	41	N GND PER	.401+/-	1.178
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.308+/-	.205
17	N BOT PER	-.711+/-	1.171	43	N GND PAR	.184+/-	.439
18	N BOT PAR	-.080+/-	.488	45	N GND VER	.201+/-	.187
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	1.454+/-	1.917
21	N BOT VER	.133+/-	.361	50	S TOP PER	-2.075+/-	.987
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.814+/-	.251
23	N HA 102'	5.892+/-	1.175	52	S TOP PAR	.138+/-	.088
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	2.068+/-	1.379
25	N WV 102'	24.522+/-	7.094	54	S TOP VER	.076+/-	.397
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.465+/-	.306
27	N Gnd Temp	43.166+/-	4.051	56	S GND PER	-.364+/-	.684
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	2.874+/-	1.085
29	N WV 74'	6.733+/-	12.711	58	S GND PAR	.214+/-	.263
30	N CO/Byron	*****+/-*****		59	N Rel Hum	80.769+/-	.984
31	N 74' Temp	45.458+/-	3.892	60	S GND VER	.130+/-	.068
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	9.628+/-	6.534
35	N HA 74'	3.859+/-	7.844	64	S VA 55'	.047+/-	.372

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.55+/- 1.21	12.7+/- 24.6	5.2+/- 17.0
02	17 19 21	1.06+/- 1.03	350.7+/- 56.6	14.9+/- 29.8
03	38 40 42	1.81+/- .72	350.0+/- 16.7	11.6+/- 9.6
04	41 43 45	.97+/- .94	222.7+/- 53.2	18.1+/- 18.2
05	50 52 54	2.14+/- .94	353.7+/- 17.7	-1.0+/- 15.3
06	56 58 60	.64+/- .58	278.9+/- 48.0	22.0+/- 17.5

Average for 15 minute period ending at 21:30:00  
 Traffic Data  
 Total Traffic = 1248 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	59.7	86	53.5	85	58.1	19	62.3	20	48.2
Cat2	82	60.9	96	55.0	102	59.9	73	61.9	36	47.7
Cat3	6	65.7	12	59.2	7	56.8	2	60.3	0	.0
Cat4	3	67.8	1	59.6	3	61.1	1	44.6	0	.0
Cat5	0	.0	1	65.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	60.0	55	56.6	56	60.1	44	57.1	13	44.8
Cat2	126	62.6	47	58.5	101	60.5	58	59.0	6	44.7
Cat3	5	64.6	4	63.8	6	59.8	0	.0	0	.0
Cat4	3	64.8	0	.0	5	62.0	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	462	37.0	59.2	727	58.3	61.0	42	3.4	62.2	16	1.3	65.0	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.578+/-	1.068	37	N VA 102'	.147+/-	1.492
12	N Dasibi CD	1.286+/-	.172	38	S BOT PER	-1.325+/-	.804
13	N TOP PAR	-.252+/-	.692	39	N VA 74'	.393+/-	.621
14	N Dasibi O3	.013+/-	.001	40	S BOT PAR	.366+/-	.671
15	N TOP VER	.207+/-	.492	41	N GND PER	.241+/-	.908
16	N NDX/TECO	*****+/-*****		42	S BOT VER	.419+/-	.285
17	N BOT PER	-.585+/-	.926	43	N GND PAR	.222+/-	.519
18	N BOT PAR	.071+/-	.493	45	N GND VER	.207+/-	.201
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	1.535+/-	.127
21	N BOT VER	.171+/-	.369	50	S TOP PER	-1.192+/-	.903
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.859+/-	.139
23	N HA 102'	4.845+/-	1.189	52	S TOP PAR	.131+/-	.082
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.776+/-	.349
25	N WV 102'	22.830+/-	11.595	54	S TOP VER	.284+/-	.536

26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	2.058+/-	.253	ppm
27	N Gnd Temp	44.025+/- 4.152	DEGR F	56	S GND PER	-.263+/-	.587	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.581+/-	1.035	ppm
29	N WV 74'	6.568+/- 13.867	DEGR AZ	58	S GND PAR	.316+/-	.392	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	77.593+/-	.893	%
31	N 74' Temp	48.376+/- 4.007	DEGR F	60	S GND VER	.127+/-	.065	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	7.085+/-	4.086	W/m**2
35	N HA 74'	4.093+/- 6.791	mph	64	S VA 55'	.152+/-	.587	mph

UVW Vector Calculations								
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
O1	11	13	15	1.92+/-	.91	8.0+/-	37.8	5.0+/- 27.2
O2	17	19	21	1.05+/-	.76	333.2+/-	52.3	12.3+/- 35.8
O3	38	40	42	1.80+/-	.74	341.7+/-	24.4	13.9+/- 11.5
O4	41	43	45	.92+/-	.64	227.8+/-	54.3	16.9+/- 21.9
O5	50	52	54	1.35+/-	.77	341.8+/-	34.7	12.8+/- 31.2
O6	56	58	60	.64+/-	.53	271.9+/-	45.5	22.6+/- 17.2

Average for 15 minute period ending at 21:45:00  
 Traffic Data  
 Total Traffic = 1178 vehicles averaging 57.6 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	59.8	88	53.7	83	58.0	16	59.5	23	47.1
Cat2	67	59.1	110	54.6	114	58.0	55	60.7	36	46.6
Cat3	6	64.5	2	65.9	5	57.7	3	58.5	1	44.7
Cat4	3	63.4	3	58.8	0	.0	2	59.4	0	.0
Cat5	0	.0	0	.0	1	57.2	0	.0	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	60.8	55	55.9	51	60.2	34	57.5	13	45.9
Cat2	116	61.9	40	58.7	90	60.5	47	57.8	10	44.9
Cat3	3	60.7	7	55.1	6	58.7	3	55.0	0	.0
Cat4	2	65.3	2	53.8	5	62.8	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	439	37.3	58.0	685	58.1	58.7	36	3.1	61.0	17	1.4	57.2	1	.1

Regular Channels										
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units			
11	N TOP PER	-1.979+/- 1.003	mph	37	N VA 102'	.249+/- 1.458	mph			
12	N Dasibi CO	1.236+/- .103	ppm	38	S BOT PER	-1.979+/- .829	mph			
13	N TOP PAR	-.060+/- .615	mph	39	N VA 74'	.215+/- .463	mph			
14	N Dasibi O3	.013+/- .001	ppm	40	S BOT PAR	.414+/- .589	mph			
15	N TOP VER	.235+/- .487	mph	41	N GND PER	.518+/- 1.183	mph			
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.343+/- .220	mph			
17	N BOT PER	-.537+/- .842	mph	43	N GND PAR	.261+/- .519	mph			
18	N BOT PAR	.073+/- .413	mph	45	N GND VER	.183+/- .181	mph			
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm			
21	N BOT VER	.158+/- .215	mph	50	S TOP PER	-1.881+/- .986	mph			
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.866+/- .128	ppm			
23	N HA 102'	5.154+/- 1.157	ppm	52	S TOP PAR	.125+/- .075	mph			
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.726+/- .335	ppm			
25	N WV 102'	16.779+/- 10.809	DEGR AZ	54	S TOP VER	.163+/- .404	mph			
26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	2.047+/- .220	ppm			
27	N Gnd Temp	44.573+/- 4.306	DEGR F	56	S GND PER	-.539+/- .749	mph			
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.079+/- .968	ppm			
29	N WV 74'	2.260+/- 10.495	DEGR AZ	58	S GND PAR	.428+/- .471	mph			
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	78.017+/- .750	%			
31	N 74' Temp	46.422+/- 3.066	DEGR F	60	S GND VER	.127+/- .071	mph			
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	8.947+/- 6.333	W/m**2			
35	N HA 74'	3.745+/- 7.816	mph	64	S VA 55'	.082+/- .465	mph			

UVW Vector Calculations								
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
O1	11	13	15	2.16+/-	.94	359.2+/-	23.3	6.0+/- 19.6
O2	17	19	21	.94+/-	.67	329.2+/-	54.1	19.0+/- 28.1
O3	38	40	42	2.15+/-	.84	347.5+/-	15.2	11.3+/- 9.5
O4	41	43	45	1.07+/-	.97	224.1+/-	52.8	18.8+/- 20.2
O5	50	52	54	2.00+/-	.91	352.8+/-	22.0	9.7+/- 21.6
O6	56	58	60	.93+/-	.85	294.9+/-	47.7	15.2+/- 14.8

Average for 15 minute period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 1147 vehicles averaging 58.0 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	60.5	78	53.6	70	59.0	12	60.5	23	45.1
Cat2	85	61.0	105	54.9	95	58.9	89	61.2	28	47.1
Cat3	7	59.6	11	59.5	2	59.8	0	.0	0	.0
Cat4	2	89.9	4	60.4	0	.0	1	64.6	0	.0
Cat5	0	.0	0	.0	2	63.6	1	65.2	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	59.9	60	55.4	48	59.3	34	55.1	7	45.9
Cat2	124	62.3	38	57.3	87	58.9	44	57.4	5	43.8
Cat3	2	59.7	4	58.5	7	62.9	3	61.9	0	.0
Cat4	4	59.8	1	49.3	3	59.0	1	50.2	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	412	35.9	58.6	680	59.3	60.3	36	3.1	60.1	16	1.4	64.2	3	.3

Regular Channels										
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units			
11	N TOP PER	-2.756+/- 1.146	mph	37	N VA 102'	.024+/- 1.513	mph			
12	N Dasibi CO	1.050+/- .147	ppm	38	S BOT PER	-2.154+/- .787	mph			
13	N TOP PAR	-.928+/- .981	mph	39	N VA 74'	.294+/- .615	mph			
14	N Dasibi O3	.012+/- .001	ppm	40	S BOT PAR	-.006+/- .642	mph			
15	N TOP VER	.255+/- .689	mph	41	N GND PER	.135+/- 1.264	mph			
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.330+/- .250	mph			

17	N BOT PER	-1.028+/-	1.440	mph	43	N GND PAR	- .178+/-	.575	mph
19	N BOT PAR	- .505+/-	.777	mph	45	N GND VER	.167+/-	.231	ppm
20	N NO2/TECO	*****+/-*****		ppm	49	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.184+/-	.505	mph	50	S TOP PER	-2.333+/-	1.252	ppm
22	N NO/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	6.679+/-	1.337	mph	52	S TOP PAR	.128+/-	.075	ppm
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	24.382+/-	8.475	DEGR A2	54	S TOP VER	.081+/-	.460	ppm
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	41.681+/-	3.615	DEGR F	56	S GND PER	-.474+/-	.735	ppm
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	11.100+/-	15.929	DEGR A2	58	S GND PAR	.192+/-	.332	ppm
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	76.160+/-	1.020	%
31	N 74' Temp	47.439+/-	4.460	DEGR F	60	S GND VER	.120+/-	.093	ppm
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	7.494+/-	4.599	W/m^2
35	N HA 74'	4.690+/-	8.093	mph	64	S VA 55'	.050+/-	.561	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	3.08+/- 1.21	17.2+/- 18.2	2.4+/- 11.8		
02	17 19 21	1.61+/- 1.25	46.7+/- 52.4	11.2+/- 25.2		
03	38 40 42	2.32+/- .75	359.4+/- 17.1	13.1+/- 9.1		
04	41 43 45	1.11+/- .91	95.3+/- 56.3	14.1+/- 19.5		
05	50 52 54	2.46+/- 1.18	354.4+/- 18.8	12.3+/- 19.7		
06	56 58 60	.72+/- .64	290.9+/- 49.8	21.3+/- 17.9		

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 4809 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	143	59.7	331	53.5	314	58.3	59	61.1	99	46.9
Cat2	322	60.5	410	54.8	405	59.0	268	61.1	134	47.1
Cat3	21	62.9	34	59.5	18	57.5	7	62.7	1	44.7
Cat4	11	67.3	12	58.5	3	61.1	4	57.0	0	.0
Cat5	0	.0	1	65.0	3	61.5	1	65.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	173	60.5	237	56.2	203	59.9	143	56.4	42	45.3
Cat2	488	62.2	176	58.1	392	60.1	204	58.0	28	44.1
Cat3	17	62.5	22	58.0	29	60.5	8	59.6	0	.0
Cat4	12	63.3	8	57.1	22	62.2	2	51.2	0	.0
Cat5	0	.0	1	61.9	0	.0	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
56.6	1744	58.6	2627	60.1	158	61.4	74	62.8	8
	36.3		58.8		3.3		1.5		.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.158+/- 1.198	mph	37	N VA 102'	.112+/- 1.531	ppm
12	N Dasibi CO	1.322+/- .431	ppm	38	S BOT PER	-1.777+/- .836	ppm
13	N TOP PAR	-.451+/- .823	mph	39	N VA 74'	.300+/- .570	ppm
14	N Dasibi O3	.013+/- .001	ppm	40	S BOT PAR	.275+/- .649	ppm
15	N TOP VER	.214+/- .543	ppm	41	N GND PER	.324+/- 1.146	ppm
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.350+/- .245	ppm
17	N BOT PER	-.715+/- 1.131	mph	43	N GND PAR	.112+/- .541	ppm
19	N BOT PAR	-.110+/- .606	mph	45	N GND VER	.190+/- .201	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.159+/- .376	mph	50	S TOP PER	-1.870+/- 1.119	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.668+/- 1.391	mph	52	S TOP PAR	.130+/- .080	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.883+/- .847	ppm
25	N WV 102'	22.140+/- 10.133	DEGR A2	54	S TOP VER	.151+/- .459	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.187+/- .319	ppm
27	N Gnd Temp	43.361+/- 4.086	DEGR F	56	S GND PER	-.410+/- .597	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.478+/- 1.055	ppm
29	N WV 74'	6.640+/- 13.714	DEGR A2	58	S GND PAR	.288+/- .383	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	76.135+/- 1.806	%
31	N 74' Temp	46.924+/- 3.900	DEGR F	60	S GND VER	.126+/- .075	ppm
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	8.288+/- 5.452	W/m^2
35	N HA 74'	4.097+/- 7.629	mph	64	S VA 55'	.083+/- .504	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	2.43+/- 1.16	9.4+/- 27.8	4.6+/- 19.7		
02	17 19 21	1.16+/- .99	355.5+/- 54.9	14.4+/- 30.0		
03	38 40 42	1.97+/- .81	349.8+/- 19.6	12.5+/- 10.0		
04	41 43 45	1.02+/- .87	215.8+/- 55.4	17.0+/- 20.0		
05	50 52 54	1.99+/- 1.04	351.0+/- 24.8	8.4+/- 23.3		
06	56 58 60	.73+/- .61	283.8+/- 48.2	20.3+/- 17.1		

22:08:47 -- BEGIN TAKING MANUAL RADAR COUNTS ON EVEN LANES MWH  
 22:46:47 -- TURNING OFF ALL RADAR RECDR TYPES MWH  
 22:47:39 -- BEGIN DRIFT CHECK ON DASIBI CO MWH  
 Average for 15 minute period ending at 22:15:00  
 Traffic Data  
 Total Traffic = 521 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	60.5	51	56.4	40	60.2	34	56.7	11	46.3
Cat2	113	61.9	46	58.4	91	60.3	54	58.8	11	45.0
Cat3	6	64.4	4	61.9	3	58.2	0	0	0	0
Cat4	4	66.0	2	59.7	3	59.8	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	184	35.3	59.8	315	60.5	62.2	13	2.5	62.6	9	1.7	0	0	0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.219+/-	.994	37	N VA 102'	.072+/-	1.325
12	N Dasibi CD	1.363+/-	.883	38	S BOT PER	-1.462+/-	.716
13	N TOP PAR	.008+/-	.848	39	N VA 74'	.238+/-	.429
14	N Dasibi D3	.014+/-	.001	40	S BOT PAR	.819+/-	.861
15	N TOP VER	.216+/-	.494	41	N GND PER	.087+/-	.650
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.331+/-	.235
17	N BOT PER	-.333+/-	.698	43	N GND PAR	.389+/-	.555
19	N BOT PAR	.192+/-	.340	45	N GND VER	.183+/-	.232
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BOT VER	.129+/-	.275	50	S TOP PER	-1.361+/-	1.021
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	*****+/-*****	
23	N HA 102'	4.247+/-	1.104	52	S TOP PAR	.133+/-	.081
24	N THC/Byron	*****+/-*****		53	N EcoLyzr-3	*****+/-*****	
25	N WV 102'	17.681+/-	13.961	54	S TOP VER	.318+/-	.469
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzr-4	*****+/-*****	
27	N Gnd Temp	41.368+/-	4.405	58	S GND PER	-.105+/-	.500
28	N CH4/Byron	*****+/-*****		57	N EcoLyzr-5	*****+/-*****	
29	N WV 74'	.012+/-	16.200	58	S GND PAR	.517+/-	.505
30	N CO/Byron	*****+/-*****		59	N Rel Hum	75.721+/-	.792
31	N 74' Temp	44.130+/-	4.675	60	S GND VER	.120+/-	.073
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	8.310+/-	5.750
35	N HA 74'	2.516+/-	8.205	64	S VA 55'	.118+/-	.431

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.54+/- .88	350.4+/- 39.3	5.6+/- 29.1
02	17 19 21	.74+/- .56	303.8+/- 51.6	12.1+/- 31.1
03	38 40 42	1.93+/- .70	331.6+/- 26.0	11.5+/- 11.0
04	41 43 45	.87+/- .46	264.7+/- 50.1	14.0+/- 20.1
05	50 52 54	1.55+/- .92	345.3+/- 33.2	15.2+/- 29.2
06	56 58 60	.71+/- .54	257.1+/- 40.9	16.6+/- 17.7

Average for 15 minute period ending at 22:30:00  
 Traffic Data  
 Total Traffic = 557 vehicles averaging 58.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	59.5	56	55.5	54	59.1	34	59.8	16	43.0
Cat2	120	61.7	53	58.7	103	58.8	55	57.2	8	48.2
Cat3	2	61.8	5	58.0	8	59.6	1	49.5	0	0
Cat4	2	60.3	3	57.4	4	60.0	0	0	0	0
Cat5	1	67.8	0	0	2	63.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	192	34.5	59.4	337	60.5	58.1	16	2.8	58.2	9	1.6	65.1	3	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.428+/-	.622	37	N VA 102'	.306+/-	1.445
12	N Dasibi CD	1.350+/-	.181	38	S BOT PER	-1.239+/-	.581
13	N TOP PAR	.290+/-	.300	39	N VA 74'	.225+/-	.389
14	N Dasibi D3	.017+/-	.004	40	S BOT PAR	1.153+/-	.742
15	N TOP VER	.172+/-	.410	41	N GND PER	.851+/-	1.716
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.385+/-	.249
17	N BOT PER	-.113+/-	.338	43	N GND PAR	.339+/-	.352
19	N BOT PAR	.302+/-	.302	45	N GND VER	.167+/-	.187
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BOT VER	.164+/-	.188	50	S TOP PER	-.859+/-	.849
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	*****+/-*****	
23	N HA 102'	3.667+/-	.801	52	S TOP PAR	.127+/-	.077
24	N THC/Byron	*****+/-*****		53	N EcoLyzr-3	*****+/-*****	
25	N WV 102'	358.709+/-	11.596	54	S TOP VER	.313+/-	.378
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzr-4	*****+/-*****	
27	N Gnd Temp	41.837+/-	4.487	58	S GND PER	-.112+/-	.474
28	N CH4/Byron	*****+/-*****		57	N EcoLyzr-5	*****+/-*****	
29	N WV 74'	347.155+/-	8.851	58	S GND PAR	.454+/-	.513
30	N CO/Byron	*****+/-*****		59	N Rel Hum	80.182+/-	1.856
31	N 74' Temp	44.807+/-	3.642	60	S GND VER	.111+/-	.062
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	10.764+/-	5.451
35	N HA 74'	3.015+/-	8.144	64	S VA 55'	.181+/-	.298

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	.92+/- .46	311.7+/- 46.1	11.6+/- 40.2
02	17 19 21	.56+/- .29	286.1+/- 45.4	17.4+/- 26.9
03	38 40 42	1.88+/- .68	319.0+/- 21.8	12.1+/- 9.8
04	41 43 45	1.18+/- 1.52	233.4+/- 49.8	11.8+/- 21.9
05	50 52 54	1.10+/- .76	335.1+/- 42.2	23.6+/- 29.3
06	56 58 60	.63+/- .58	255.6+/- 38.3	21.5+/- 16.7

Average for 15 minute period ending at 22:45:00  
 Traffic Data  
 Total Traffic = 231 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	13	61.0	28	55.9	18	59.2	14	54.7	5	42.6
Cat 2	52	62.3	22	57.9	43	60.3	19	57.0	2	39.4
Cat 3	2	59.8	0	0	5	63.5	2	54.1	0	0
Cat 4	2	62.9	2	56.8	2	66.7	0	0	0	0
Cat 5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	78	33.8	59.9	138	59.7	80.6	9	3.9	62.1	6	2.6	0	0	0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.773+/- .563	mph	37	N VA 102'	.119+/- 1.393	mph
12	N Dasibi CO	1.591+/- .175	ppm	38	S BOT PER	-1.060+/- .526	mph
13	N TOP PAR	.746+/- .507	mph	39	N VA 74'	.195+/- .386	mph
14	N Dasibi D3	.014+/- .003	ppm	40	S BOT PAR	1.455+/- .679	mph
15	N TOP VER	.181+/- .405	mph	41	N GND PER	.352+/- 1.131	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.272+/- .225	mph
17	N BOT PER	-.119+/- .348	mph	43	N GND PAR	.553+/- .387	mph
19	N BOT PAR	.653+/- .322	mph	45	N GND VER	.167+/- .181	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.178+/- .199	mph	50	S TOP PER	-.851+/- .783	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	4.408+/- .815	mph	52	S TOP PAR	.133+/- .069	mph
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	353.502+/- 4.572	DEGR AZ	54	S TOP VER	.266+/- .308	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	41.342+/- 4.689	DEGR F	56	S GND PER	-.002+/- .386	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	340.134+/- 6.959	DEGR AZ	58	N GND PAR	.397+/- .458	mph
30	N CD/Byron	*****	ppm	59	N Rel Hum	84.461+/- 1.359	%
31	N 74' Temp	44.442+/- 2.661	DEGR F	60	S GND VER	.120+/- .054	mph
32	N CO2/Byron	*****	ppm	81	N Solar Rad	8.311+/- 5.309	W/m**2
35	N HA 74'	2.844+/- 9.015	mph	84	S VA 55'	.171+/- .280	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.30+/- .47	314.7+/- 33.9	9.2+/- 23.7
02	17 19 21	.81+/- .27	279.9+/- 30.2	11.3+/- 16.2
03	38 40 42	1.93+/- .83	307.4+/- 19.7	9.8+/- 7.7
04	41 43 45	1.08+/- .88	250.5+/- 43.1	13.2+/- 17.0
05	50 52 54	1.03+/- .69	338.2+/- 41.3	17.4+/- 28.1
06	56 58 60	.54+/- .48	244.0+/- 33.6	23.4+/- 17.8

Average for 15 minute period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.589+/- .693	mph	37	N VA 102'	-.240+/- 1.896	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	-1.023+/- .544	mph
13	N TOP PAR	.564+/- .526	mph	39	N VA 74'	.183+/- .386	mph
14	N Dasibi D3	.018+/- .003	ppm	40	S BOT PAR	1.193+/- .788	mph
15	N TOP VER	.191+/- .382	mph	41	N GND PER	.035+/- .813	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.310+/- .223	mph
17	N BOT PER	.092+/- .322	mph	43	N GND PAR	.374+/- .424	mph
19	N BOT PAR	.470+/- .419	mph	45	N GND VER	.190+/- .182	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.197+/- .183	mph	50	S TOP PER	-.783+/- .691	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	5.015+/- .726	mph	52	S TOP PAR	.130+/- .062	mph
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	347.852+/- 4.085	DEGR AZ	54	S TOP VER	.185+/- .249	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	41.055+/- 4.376	DEGR F	56	S GND PER	-.032+/- .401	mph

28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	335.881+/- 7.577	DEGR AZ	58	S GND PAR	.234+/- .281	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	88.601+/- 2.023	%
31	N 74' Temp	44.338+/- 3.588	DEGR F	60	S GND VER	.124+/- .060	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	11.581+/- 7.511	W/m**2
35	N HA 74'	3.436+/- 7.234	mph	64	S VA 55'	.109+/- .257	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.13+/- .60	307.6+/- 44.7	14.4+/- 30.0
02	17 19 21	.66+/- .36	251.3+/- 40.6	18.4+/- 23.3
03	38 40 42	1.79+/- .66	314.7+/- 26.0	16.5+/- 12.7
04	41 43 45	.83+/- .60	256.2+/- 49.9	15.4+/- 21.7
05	50 52 54	1.05+/- .56	334.4+/- 42.9	28.4+/- 26.4
06	56 58 60	.41+/- .38	240.6+/- 37.8	24.8+/- 17.0

Average for hourly period ending at 23:00:00  
Traffic Data  
 Total Traffic : 1309 vehicles averaging 58.8 mph

Westbound Traffic

Cat1	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat1	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	60.2	135	55.9	112	59.5	82	57.6	32	44.1
Cat2	285	61.9	121	58.5	237	59.7	128	57.9	19	45.4
Cat3	10	62.9	9	60.3	16	60.6	3	52.6	0	.0
Cat4	8	63.8	7	57.9	9	61.5	0	.0	0	.0
Cat5	1	67.8	0	.0	2	63.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	454	34.7	59.6	790	60.4	60.5	38	2.9	61.2	24	1.8	65.1	3	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.752+/- .782	mph	37	N VA 102'	.184+/- 1.471	mph
12	N Dasibi CO	1.450+/- .427	ppm	38	S BOT PER	-1.198+/- .621	mph
13	N TOP PAR	.402+/- .580	mph	39	N VA 74'	.211+/- .398	mph
14	N Dasibi O3	.015+/- .003	ppm	40	S BOT PAR	1.155+/- .800	mph
15	N TOP VER	.190+/- .424	mph	41	N GND PER	.276+/- 1.174	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.320+/- .235	mph
17	N BOT PER	-.118+/- .477	mph	43	N GND PAR	.414+/- .442	mph
19	N BOT PAR	.404+/- .389	mph	45	N GND VER	.172+/- .197	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.167+/- .216	mph	50	S TOP PER	-.964+/- .872	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.334+/- 1.015	mph	52	S TOP PAR	.131+/- .077	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	358.256+/- 14.516	DEGR AZ	54	S TOP VER	.265+/- .365	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	41.400+/- 4.379	DEGR F	56	S GND PER	-.063+/- .443	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	345.655+/- 13.815	DEGR AZ	58	S GND PAR	.401+/- .459	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	82.246+/- 5.082	%
31	N 74' Temp	44.429+/- 3.647	DEGR F	60	S GND VER	.119+/- .063	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.992+/- 6.050	W/m**2
35	N HA 74'	2.953+/- 8.146	mph	64	S VA 55'	.145+/- .324	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.22+/- .68	321.8+/- 43.0	10.2+/- 31.4
02	17 19 21	.89+/- .40	277.6+/- 44.8	14.8+/- 25.0
03	38 40 42	1.88+/- .67	318.0+/- 24.8	12.5+/- 10.7
04	41 43 45	.99+/- .96	251.2+/- 48.7	13.6+/- 20.2
05	50 52 54	1.18+/- .77	338.1+/- 40.2	21.2+/- 28.6
06	56 58 60	.57+/- .51	249.1+/- 38.0	21.6+/- 17.5



Average for 15 minute period ending at 23:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	4.85+/- 8.20	-1.3+/- .8	-17.8+/-576.3		
02	17 19 21	1.18+/- .47	-2.1+/- 1.7	70.4+/-*****		
03	38 40 42	5.30+/- 9.44	-2.1+/- 1.7	21.0+/-241.3		
04	41 43 45	1.64+/- .93	-1.7+/- 1.5	46.8+/-*****		
05	50 52 54	4.27+/- 6.88	-.1+/- .0	4.2+/- 17.5		
06	56 58 60	1.35+/- .93	-2.4+/- 1.9	94.8+/-*****		

Average for 15 minute period ending at 23:30:00  
Average for 15 minute period ending at 23:45:00  
Average for 15 minute period ending at 24:00:00  
Average for hourly period ending at 24:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	17:00:00	1177 vehicles
02	17:00:00	1150 vehicles
03	17:00:00	1259 vehicles
04	17:00:00	1376 vehicles
05	17:00:00	1350 vehicles
06	17:00:00	1591 vehicles
07	18:00:00	949 vehicles
08	17:00:00	1003 vehicles
09	16:00:00	764 vehicles
10	17:00:00	585 vehicles
11	00:00:00	.000 mph
12	19:00:00	1.807 ppm
13	23:00:00	.402 ppm
14	16:00:00	.041 ppm
15	19:00:00	.223 ppm
16	00:00:00	.000 ppm
17	00:00:00	.000 mph
19	17:00:00	.423 mph
20	00:00:00	.000 ppm
21	23:00:00	.167 mph
22	00:00:00	.000 ppm
23	16:00:00	11.450 mph
24	00:00:00	.000 ppm
25	23:00:00	359.258 DEGR AZ
26	00:00:00	.000 ppm
27	16:00:00	60.700 DEGR F
28	00:00:00	.000 ppm
29	16:00:00	354.708 DEGR AZ
30	00:00:00	.000 ppm
31	16:00:00	58.254 DEGR F
32	00:00:00	.000 ppm
35	16:00:00	10.390 mph
37	19:00:00	.287 mph
38	00:00:00	.000 mph
39	18:00:00	.301 mph
40	17:00:00	1.327 mph
41	19:00:00	.547 mph
42	18:00:00	.534 mph
43	23:00:00	.414 mph
45	22:00:00	.190 mph
49	19:00:00	1.769 ppm
50	00:00:00	.000 mph
51	19:00:00	2.087 ppm
52	17:00:00	.211 mph
53	19:00:00	2.096 ppm
54	19:00:00	.283 mph
55	19:00:00	2.276 ppm
56	00:00:00	.000 mph
57	22:00:00	2.479 ppm
58	17:00:00	1.404 mph
59	23:00:00	82.246 %
60	16:00:00	.199 mph
61	16:00:00	214.528 W/m <sup>2</sup>
64	23:00:00	.145 mph

NOTE: All times in the maximums are ending times for the interval

\*\*\*\*\* CHANCE IN SYSTEM CONFIGURATION \*\*\*\*\*  
 Date : 1984 334 Time : 0 seconds after midnight Channel affected = 51  
 New Configuration for channel:  
 Old calibration cnst = 50.00 Old offset = .00 New calibration cnst = 100.00 New offset = .00

14:16:13 -- DATA RUN OF 11/29/84. OPERATORS ARE MICHAEL HLAVINKA AND GUY DONALDSON. SOUTHERL  
 14:16:14 -- Y WINDS W/ CLOUD COVER @ 7/8. APPEARS RO BE A CHANCE OF RAIN. RADAR #9 APPEARS  
 14:16:15 -- SHAKY AND WILL BE CHECKED AFTER INST CALIB. WILL TRY TO BRING UP NRTH BYRON  
 14:16:16 -- DURING THIS RUN.  
 14:16:31 -- BEGIN TO CALIB DASIBI CO MWH  
 14:19:36 -- BEGIN CAL. OF ECOL. WILL READ ALL ZEROS  
 14:24:09 -- BEGIN SPAN CH. 57  
 14:32:15 -- SWAPPED OUT NCO-2 WITH NCO-5 NCO-5 UNSTEADY MWH  
 14:32:22 -- INVALIDATING RADAR #9  
 14:40:33 -- END CALIB OF NCO-5  
 14:52:12 -- END CALIB OF DASIBI CO MWH  
 14:52:37 -- END CALIB OF NCO-4

Average for 15 minute period ending at 14:15:00  
 Average for 15 minute period ending at 14:30:00

Traffic Data  
 Total Traffic = 1553 Vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	12	59.8	2	52.9	44	60.5	11	57.4	2	41.7
Cat2	103	61.0	13	51.7	152	59.9	120	61.1	3	44.1
Cat3	15	61.9	14	55.7	32	60.1	14	59.6	1	49.8
Cat4	7	65.0	0	.0	13	59.4	7	60.0	0	.0
Cat5	10	66.2	1	51.5	5	58.9	2	64.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	60.6	60	57.6	41	59.2	43	59.3	26	44.3
Cat2	182	62.2	102	59.9	153	60.8	116	61.3	34	46.5
Cat3	26	62.9	37	60.5	38	60.4	10	62.5	2	41.7
Cat4	14	64.5	14	61.3	19	62.5	4	58.0	0	.0
Cat5	4	64.8	4	58.1	7	64.9	2	59.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	272	17.5	60.3	978	63.0	60.3	190	12.2	62.0	78	5.0	62.9	35	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.090+/- 2.130	mph	37	N VA 102'	.385+/- 1.329	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	1.811+/- 1.693	mph
13	N TOP PAR	3.167+/- 1.807	mph	39	N VA 74'	-.012+/- 1.272	mph
14	N Dasibi D3	.019+/- .003	ppm	40	S BOT PAR	1.028+/- 1.361	mph
15	N TOP VER	.174+/- 1.177	mph	41	N GND PER	2.383+/- 1.661	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	.232+/- .567	mph
17	N BOT PER	3.407+/- 2.024	mph	43	N GND PAR	.395+/- 1.955	mph
19	N BDT PAR	2.543+/- 1.864	mph	45	N GND VER	.078+/- .899	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.214+/- 1.166	mph	50	S TOP PER	2.537+/- 1.902	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.135+/- 2.739	mph	52	S TOP PAR	.231+/- .651	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	211.013+/- 17.319	DEGR AZ	54	S TOP VER	.270+/- 1.088	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	75.651+/- 2.811	DEGR F	58	S GND PER	.626+/- 1.071	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	198.438+/- 19.752	DEGR AZ	58	S GND PAR	.482+/- 1.160	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	69.727+/- 4.29	%
31	N 74' Temp	72.375+/- 3.794	DEGR F	60	S GND VER	.048+/- .498	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	205.420+/- 23.955	W/m**2
35	N HA 74'	5.892+/- 2.547	mph	64	S VA 55'	.238+/- 1.380	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.80+/- 2.21	219.5+/- 19.1	4.9+/- 16.2
02	17 19 21	4.78+/- 2.03	215.9+/- 25.3	6.7+/- 19.4
03	38 40 42	2.62+/- 1.60	213.1+/- 35.7	11.0+/- 18.9
04	41 43 45	3.33+/- 1.56	191.9+/- 37.3	2.7+/- 17.6
05	50 52 54	2.91+/- 1.77	189.5+/- 17.3	16.5+/- 35.4
06	56 58 60	1.35+/- 1.27	219.3+/- 39.1	14.5+/- 26.4

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 1835 Vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	19	59.8	7	60.4	43	58.3	5	59.5	****	****
Cat2	134	61.2	14	50.1	190	58.5	135	61.6	****	****
Cat3	28	64.0	22	57.1	35	57.7	29	61.0	****	****
Cat4	19	65.4	4	54.9	18	59.0	12	62.1	****	****
Cat5	8	62.5	0	.0	5	61.0	3	58.4	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	62.6	85	57.4	46	59.8	48	58.7	40	45.5
Cat2	209	63.5	117	58.6	190	61.3	120	60.5	33	47.2
Cat3	24	63.4	34	60.6	32	60.3	12	59.2	3	45.4
Cat4	20	64.3	17	61.4	21	62.2	4	58.8	0	.0
Cat5	8	65.9	2	61.7	10	60.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	323	17.6	60.4	1142	62.2	60.3	219	11.9	62.1	115	6.3	62.2	36	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.337+/- 1.566	mph	37	N VA 102'	.441+/- 1.126	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	1.403+/- 1.303	mph
13	N TOP PAR	2.742+/- 2.100	mph	39	N VA 74'	-.172+/- 1.108	mph
14	N Dasibi D3	.020+/- .005	ppm	40	S BOT PAR	1.466+/- 1.123	mph
15	N TOP VER	-.161+/- .995	mph	41	N GND PER	1.968+/- 1.657	mph

16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.266+/-	.520	mph
17	N BOT PER	3.061+/- 1.534	mph	43	N GND PAR	-.216+/-	2.242	mph
19	N BOT PAR	1.982+/- 1.939	mph	45	N GND VER	.013+/-	.753	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	-.069+/- .937	mph	50	S TOP PER	1.930+/-	1.800	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	7.138+/- 2.148	mph	52	S TOP PAR	.200+/-	.411	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	206.493+/- 20.262	DEGR AZ	54	S TOP VER	.226+/-	.879	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	76.150+/- 2.880	DEGR F	56	S GND PER	.434+/-	.745	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	197.223+/- 23.013	DEGR AZ	58	S GND PAR	.091+/-	.857	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	69.695+/-	.468	%
31	N 74' Temp	74.040+/- 3.536	DEGR F	60	S GND VER	.062+/-	.494	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	226.826+/-	127.917	W/m**2
35	N HA 74'	4.969+/- 2.508	mph	64	S VA 55'	.276+/-	1.027	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	4.84+/- 1.78	217.0+/- 26.0	1.1+/- 13.9		
O2	17 19 21	4.21+/- 1.62	210.6+/- 28.9	1.4+/- 15.4		
O3	38 40 42	1.90+/- 1.37	201.1+/- 35.4	13.1+/- 22.3		
O4	41 43 45	3.18+/- 1.47	173.9+/- 44.8	1.0+/- 16.4		
O5	50 52 54	2.26+/- 1.68	193.3+/- 18.8	21.6+/- 35.0		
O6	56 58 60	.95+/- .91	205.1+/- 43.6	16.2+/- 25.7		

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 1891 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	58.3	6	52.5	53	58.1	12	60.0	***	***
Cat2	143	61.8	11	52.2	185	58.5	143	60.3	***	***
Cat3	30	64.3	18	54.4	44	59.1	23	59.4	***	***
Cat4	15	66.2	3	56.1	19	59.9	16	61.7	***	***
Cat5	11	68.4	1	55.3	4	60.4	2	61.1	***	***

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	62.8	85	57.3	48	59.9	45	59.6	29	45.2
Cat2	214	63.3	149	59.8	184	59.7	133	61.2	41	46.0
Cat3	19	63.3	20	60.9	28	62.8	16	59.2	1	32.6
Cat4	19	65.3	15	60.2	26	62.5	3	54.6	0	.0
Cat5	8	67.9	8	63.6	8	62.2	1	54.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	330	17.5	60.1	1203	63.6	60.5	199	10.5	62.4	116	6.1	64.6	43	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.076+/- 2.870	mph	37	N VA 102'	.236+/- 1.323	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	2.843+/- 1.548	mph
13	N TOP PAR	.809+/- 1.876	mph	39	N VA 74'	-.248+/- 1.484	mph
14	N Dasibi O3	-.021+/- .005	ppm	40	S BOT PAR	.174+/- 1.511	mph
15	N TOP VER	-.239+/- 1.296	mph	41	N GND PER	2.117+/- 1.737	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.208+/- .547	mph
17	N BOT PER	5.069+/- 2.589	mph	43	N GND PAR	-1.298+/- 2.110	mph
19	N BOT PAR	.070+/- 1.927	mph	45	N GND VER	.070+/- .829	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.263+/- 1.197	mph	50	S TOP PER	4.014+/- 2.176	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.278+/- 2.392	mph	52	S TOP PAR	.223+/- .510	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	182.715+/- 13.688	DEGR AZ	54	S TOP VER	.094+/- 1.090	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	75.655+/- 3.534	DEGR F	56	S GND PER	1.169+/- 1.438	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.769+/- .899	ppm
29	N WV 74'	174.429+/- 16.638	DEGR AZ	58	S GND PAR	-.091+/- 1.323	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	70.461+/- .596	%
31	N 74' Temp	73.284+/- 2.321	DEGR F	60	S GND VER	.032+/- .551	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	159.774+/- 24.007	W/m**2
35	N HA 74'	7.759+/- 3.145	mph	64	S VA 55'	.436+/- 1.234	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	6.63+/- 2.74	188.7+/- 21.2	1.8+/- 15.1		
O2	17 19 21	5.58+/- 2.53	179.8+/- 23.4	-.5+/- 15.4		
O3	38 40 42	3.20+/- 1.70	182.9+/- 25.3	4.7+/- 14.3		
O4	41 43 45	3.36+/- 1.72	155.7+/- 41.9	1.8+/- 18.1		
O5	50 52 54	4.25+/- 2.07	185.4+/- 11.7	9.2+/- 24.9		
O6	56 58 60	1.77+/- 1.57	180.3+/- 44.4	6.8+/- 22.8		

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	***	***	***	***	***	***	***	***	***	***
Cat2	***	***	***	***	***	***	***	***	***	***
Cat3	***	***	***	***	***	***	***	***	***	***
Cat4	***	***	***	***	***	***	***	***	***	***
Cat5	***	***	***	***	***	***	***	***	***	***

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	***	***	***	***	***	***	***	***	***	***
Cat2	***	***	***	***	***	***	***	***	***	***
Cat3	***	***	***	***	***	***	***	***	***	***
Cat4	***	***	***	***	***	***	***	***	***	***
Cat5	***	***	***	***	***	***	***	***	***	***

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	***	.0	0	***	.0	0	***	.0	0	***	.0	0	***

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	ppm
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WY 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WY 74'	*****+/-*****	DEGR AZ	58	N GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.69+/- 2.38	208.1+/- 25.7	2.5+/- 15.1		
02	17 19 21	4.86+/- 2.16	201.5+/- 29.5	2.4+/- 17.0		
03	38 40 42	2.57+/- 1.65	197.9+/- 34.0	9.5+/- 19.0		
04	41 43 45	3.29+/- 1.58	173.8+/- 42.8	1.8+/- 17.3		
05	50 52 54	3.15+/- 2.03	185.4+/- 16.5	15.7+/- 32.3		
06	56 58 60	1.36+/- 1.32	202.0+/- 43.8	12.5+/- 25.2		

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15:03:58 -- END CAL NCD-3 GRD  
 15:04:32 -- BEGIN SPAN OF NCD-1  
 15:18:29 -- END CAL NCD-1 GRD  
 15:19:17 -- Reading BYRDN spans  
 15:22:22 -- PLACING BYRDN ONLINE  
 15:57:10 -- GOING TO TURN ON AEDAS CD AND REPAIR RADAR #9

MWH MWH  
 Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 1904 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	21	58.7	4	49.8	54	58.1	10	57.8	****	****
Cat2	156	61.8	12	50.4	165	59.6	142	60.2	****	****
Cat3	27	61.9	15	58.7	34	58.9	23	61.3	****	****
Cat4	10	64.5	2	48.0	19	60.8	6	62.0	****	****
Cat5	10	66.1	0	.0	2	51.1	1	67.2	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	62.9	72	58.6	54	60.4	48	59.5	32	45.5
Cat2	206	63.7	130	59.1	201	61.1	143	60.5	45	46.9
Cat3	23	64.2	33	60.0	43	58.9	13	59.3	7	44.6
Cat4	24	64.9	21	61.3	31	61.4	7	61.3	0	.0
Cat5	10	63.4	4	59.7	6	63.9	2	57.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	329	17.3	60.4	1200	63.0	60.0	218	11.4	62.1	122	6.4	62.9	35	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.293+/-	2.181	37	N VA 102'	.316+/-	1.301
12	N Dasibi CO	1.432+/-	.317	38	S BOT PER	2.518+/-	1.364
13	N TOP PAR	1.339+/-	1.607	39	N VA 74'	.042+/-	1.074
14	N Dasibi O3	.019+/-	.004	40	S BOT PAR	.600+/-	1.466
15	N TOP VER	.056+/-	1.164	41	N GND PER	2.007+/-	1.449
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.289+/-	.588
17	N BOT PER	4.119+/-	2.105	43	N GND PAR	-1.099+/-	1.895
19	N BOT PAR	.450+/-	1.498	45	N GND VER	.123+/-	.681
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.092+/-	1.047	50	S TOP PER	3.322+/-	1.866
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	7.474+/-	2.040	52	S TOP PAR	.189+/-	.408
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.152+/-	.541
25	N WV 102'	189.860+/-	12.476	54	S TOP VER	.204+/-	1.185
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	1.860+/-	.443
27	N Gnd Temp	74.509+/-	2.084	56	S GND PER	.791+/-	.812
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	1.902+/-	.798
29	N WV 74'	179.157+/-	14.251	58	S GND PAR	.257+/-	1.031
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	71.275+/-	.403
31	N 74' Temp	72.242+/-	2.819	60	S GND VER	1.066+/-	.590
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	159.865+/-	58.577
35	N HA 74'	7.073+/-	2.281	64	S VA 55'	.491+/-	1.321

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.82+/- 2.09	195.9+/- 17.3	-.2+/- 13.6
02	17 19 21	4.57+/- 1.88	188.0+/- 23.3	-.4+/- 16.4
03	36 40 42	2.98+/- 1.50	193.4+/- 25.5	7.2+/- 17.9
04	41 43 45	2.94+/- 1.39	155.2+/- 37.4	3.3+/- 17.9
05	50 52 54	3.60+/- 1.79	185.3+/- 8.4	4.2+/- 28.2
06	55 58 60	1.30+/- 1.19	202.1+/- 38.8	10.2+/- 23.6

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 1977 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	58.5	5	53.0	59	57.9	12	57.4	****	****
Cat2	138	61.3	15	54.8	170	59.0	183	61.8	****	****
Cat3	36	63.2	11	54.5	43	57.8	20	61.8	****	****
Cat4	21	68.1	0	.0	20	58.9	11	62.2	****	****
Cat5	10	67.8	1	62.0	4	58.1	2	69.1	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	62.3	78	56.9	50	60.1	40	59.2	32	45.8
Cat2	236	62.7	136	59.4	208	60.2	151	60.6	36	48.1
Cat3	20	64.8	39	59.1	42	60.2	18	61.1	1	44.1
Cat4	22	65.1	22	58.3	37	61.7	5	61.3	0	.0
Cat5	9	66.6	2	59.5	10	63.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	317	16.0	60.4	1253	63.4	60.3	230	11.6	61.7	139	7.0	64.8	38	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.487+/-	1.785	37	N VA 102'	.251+/-	1.065
12	N Dasibi CO	1.581+/-	1.404	38	S BOT PER	1.824+/-	1.196
13	N TOP PAR	1.336+/-	1.525	39	N VA 74'	-.101+/-	.986
14	N Dasibi O3	-.020+/-	.004	40	S BOT PAR	.290+/-	.810
15	N TOP VER	-.124+/-	.933	41	N GND PER	1.915+/-	1.365
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.184+/-	.401
17	N BOT PER	3.238+/-	2.039	43	N GND PAR	-1.038+/-	1.950
19	N BOT PAR	.726+/-	1.603	45	N GND VER	.156+/-	.719
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	.897+/-	.133
21	N BOT VER	-.005+/-	.822	50	S TOP PER	2.145+/-	1.933
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	6.267+/-	1.942	52	S TOP PAR	.139+/-	.053
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.228+/-	.636
25	N WV 102'	189.330+/-	13.542	54	S TOP VER	.185+/-	.799
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	1.996+/-	.490
27	N Gnd Temp	75.291+/-	2.872	56	S GND PER	.577+/-	.738
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	2.100+/-	.832
29	N WV 74'	178.568+/-	15.088	58	S GND PAR	.050+/-	.764
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	72.484+/-	.631
31	N 74' Temp	74.196+/-	2.906	60	S GND VER	1.32+/-	.248
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	116.765+/-	18.849

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	5.10+/- 1.70	197.8+/- 18.0	1.2+/- 18.4
02	17 19 21	3.87+/- 1.97	193.3+/- 27.4	-8+/- 24.5
03	38 40 42	2.10+/- 1.23	191.2+/- 21.2	13.0+/- 22.9
04	41 43 45	3.06+/- 1.23	151.6+/- 40.1	2.7+/- 18.1
05	50 52 54	2.59+/- 1.73	195.5+/- 20.5	10.8+/- 44.3
06	56 58 60	.93+/- .89	206.0+/- 38.9	21.4+/- 25.9

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2110 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	59.4	2	45.6	58	59.0	13	60.3	****	****
Cat2	162	60.9	15	53.3	192	58.9	156	60.7	****	****
Cat3	24	62.4	18	53.7	37	59.7	22	58.5	****	****
Cat4	18	65.9	2	52.2	17	59.1	13	60.6	****	****
Cat5	13	67.8	0	.0	6	60.4	5	59.6	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	21	61.9	89	57.1	46	61.5	51	58.4	33	44.8
Cat2	232	64.4	174	59.1	215	60.4	172	60.1	59	45.6
Cat3	27	66.3	33	61.0	57	60.3	18	58.9	3	46.4
Cat4	18	67.2	18	62.7	23	60.9	4	60.4	0	.0
Cat5	11	70.0	5	58.8	17	64.0	1	61.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	332	15.7	60.2	1368	64.8	60.2	239	11.3	62.5	113	5.4	64.6	58	2.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.215+/- 2.306	mph	37	N VA 102'	.311+/- 1.289	mph
12	N Dasibi CD	2.002+/- .429	ppm	38	S BOT PER	1.861+/- 1.206	mph
13	N TDP PAR	.914+/- 1.893	mph	38	N VA 74'	.055+/- 1.269	mph
14	N Dasibi D3	.016+/- .003	ppm	40	S BOT PAR	.206+/- 1.029	mph
15	N TDP VER	.090+/- 1.296	mph	41	N GND PER	1.770+/- 1.405	mph
16	N ND/TECO	*****	ppm	42	S BOT VER	.209+/- .329	mph
17	N BOT PER	3.444+/- 2.273	mph	43	N GND PAR	.779+/- 1.789	mph
19	N BOT PAR	.631+/- 1.726	mph	45	N GND VER	.098+/- .753	mph
20	N ND2/TECO	*****	ppm	48	N Ecolyzer-1	1.009+/- .557	ppm
21	N BOT VER	.024+/- 1.162	mph	50	S TDP PER	2.248+/- 1.701	mph
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	5.888+/- 2.487	ppm	52	S TDP PAR	.144+/- .055	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	1.888+/- .755	ppm
25	N WV 102'	187.286+/- 16.698	DEGR AZ	54	S TDP VER	.233+/- .737	ppm
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	2.419+/- .774	ppm
27	N Gnd Temp	76.541+/- 3.307	DEGR F	56	S GND PER	.577+/- .790	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	2.281+/- 1.178	ppm
29	N WV 74'	180.762+/- 22.219	DEGR AZ	58	S GND PAR	.036+/- 1.127	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	72.724+/- .410	%
31	N 74' Temp	73.128+/- 2.273	DEGR F	60	S GND VER	.153+/- .291	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	140.654+/- 31.017	W/m**2
35	N HA 74'	6.066+/- 3.215	mph	64	S VA 55'	.374+/- .783	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	4.80+/- 2.33	193.8+/- 23.5	-2.4+/- 17.6
02	17 19 21	3.97+/- 2.26	188.2+/- 27.5	1.1+/- 18.2
03	38 40 42	2.11+/- 1.33	189.1+/- 23.1	7.3+/- 16.1
04	41 43 45	2.75+/- 1.36	158.6+/- 41.5	6.9+/- 19.4
05	50 52 54	2.47+/- 1.60	190.4+/- 16.2	11.9+/- 33.9
06	56 58 60	.97+/- 1.16	200.1+/- 40.3	20.6+/- 20.4

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2232 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	58.0	7	51.7	74	58.5	20	58.6	****	****
Cat2	145	60.8	12	54.7	197	59.5	143	61.5	****	****
Cat3	30	64.0	10	57.0	25	60.7	18	60.7	****	****
Cat4	23	66.1	2	65.4	13	60.2	11	63.1	****	****
Cat5	9	64.6	1	69.8	7	58.9	5	58.3	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	15	62.8	103	56.7	35	59.3	40	57.5	68	44.0
Cat2	224	63.4	193	58.7	257	59.3	175	58.7	75	45.6
Cat3	30	64.2	35	58.5	68	59.4	12	56.2	2	45.7
Cat4	18	65.3	24	60.4	38	60.9	10	61.1	0	.0
Cat5	8	66.9	11	60.8	15	61.6	1	52.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	385	17.2	59.4	1421	63.7	60.3	230	10.3	62.4	139	6.2	62.0	57	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.266+/- 2.555	mph	37	N VA 102'	.489+/- 1.504	mph
12	N Dasibi CD	1.930+/- .508	ppm	38	S BOT PER	2.379+/- 1.840	mph
13	N TDP PAR	.973+/- 1.785	mph	39	N VA 74'	.211+/- 1.309	mph
14	N Dasibi D3	.018+/- .004	ppm	40	S BOT PAR	.202+/- 1.573	mph
15	N TDP VER	.033+/- 1.315	mph	41	N GND PER	2.225+/- 1.883	mph
16	N ND/TECO	*****	ppm	42	S BOT VER	.228+/- .481	mph
17	N BOT PER	4.140+/- 2.331	mph	43	N GND PAR	-1.026+/- 1.939	mph
19	N BOT PAR	.000+/- 1.760	mph	45	N GND VER	.129+/- .947	mph
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	1.567+/- .361	ppm
21	N BOT VER	.041+/- 1.171	mph	50	S TDP PER	3.131+/- 2.386	mph
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	8.085+/- 2.168	ppm	52	S TDP PAR	.079+/- .441	mph
24	N THC/Byron	2.641+/- .148	ppm	53	N Ecolyzer-3	1.480+/- .674	ppm

25	N WV 102'	183.233+/-	14.466	DEGR AZ	54	S TOP VER	.077+/-	.934	mph
25	N NMHC/Byron	2.353+/-	.341	ppm	55	N Ecolyzer-4	2.471+/-	.606	ppm
27	N Gnd Temp	73.875+/-	3.374	DEGR F	56	S GND PER	1.007+/-	1.135	mph
28	N CH4/Byron	1.265+/-	.075	ppm	57	N Ecolyzer-5	2.598+/-	.883	ppm
29	N WV 74'	175.107+/-	16.464	DEGR AZ	58	S GND PAR	-.453+/-	1.413	mph
30	N CD/Byron	1.553+/-	.487	ppm	59	N Rel Hum	74.499+/-	.777	%
31	N 74' Temp	73.076+/-	1.887	DEGR F	60	S GND VER	.105+/-	.389	mph
32	N CO2/Byron	390.409+/-	3.991	ppm	61	N Solar Rad	88.062+/-	28.348	W/m**2
35	N HA 74'	6.899+/-	2.928	mph	64	S VA 55'	.452+/-	1.087	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.75+/- 2.47	193.6+/- 20.4	-1.3+/- 10.5		
02	17 19 21	4.61+/- 2.28	181.6+/- 25.7	.2+/- 15.5		
03	38 40 42	2.68+/- 2.13	182.9+/- 28.4	5.5+/- 17.7		
04	41 43 45	3.31+/- 1.88	183.2+/- 38.8	1.5+/- 17.7		
05	50 52 54	3.30+/- 2.34	189.5+/- 18.8	5.1+/- 28.4		
06	56 58 60	1.43+/- 1.59	189.5+/- 38.2	13.7+/- 23.1		

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 8223 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	58.6	18	51.0	246	58.4	55	58.6	****	****
Cat2	601	61.2	54	53.3	724	59.2	604	61.1	****	****
Cat3	117	63.0	54	55.8	139	59.1	83	60.6	****	****
Cat4	72	65.8	6	55.2	69	59.1	43	61.9	****	****
Cat5	42	66.7	2	65.9	19	58.4	13	61.2	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	62.5	340	57.2	185	60.4	179	58.7	185	44.8
Cat2	898	63.5	633	59.0	881	60.2	641	59.9	206	46.3
Cat3	100	64.9	140	59.6	210	59.9	61	59.1	13	45.2
Cat4	82	65.6	85	60.6	129	61.2	27	61.1	0	.0
Cat5	38	66.8	22	59.6	48	63.1	4	57.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	1363	16.6	60.1	5242	63.7	60.2	917	11.2	62.2	513	6.2	63.5	188	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.810+/- 2.288	mph	37	N VA 102'	.342+/- 1.300	mph
12	N Dasibi CD	1.731+/- .484	ppm	38	S BOT PER	2.145+/- 1.453	mph
13	N TOP PAR	1.141+/- 1.713	mph	39	N VA 74'	.052+/- 1.170	mph
14	N Dasibi O3	.018+/- .004	ppm	40	S BOT PAR	.223+/- 1.266	mph
15	N TDP VER	.014+/- 1.187	mph	41	N GND PER	1.979+/- 1.542	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.227+/- .481	mph
17	N BOT PER	3.735+/- 2.218	mph	43	N GND PAR	-.885+/- 1.842	mph
19	N BOT PAR	.452+/- 1.667	ppm	45	N GND VER	.126+/- .780	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.038+/- 1.058	mph	50	S TOP PER	2.711+/- 2.047	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.179+/- 2.263	mph	52	S TOP PAR	.138+/- .306	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.400+/- .694	ppm
25	N WV 102'	187.435+/- 14.575	DEGR AZ	54	S TOP VER	.175+/- .930	mph
26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	2.186+/- .648	ppm
27	N Gnd Temp	75.004+/- 3.069	DEGR F	56	S GND PER	.738+/- .920	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.223+/- .969	ppm
29	N WV 74'	178.379+/- 17.394	DEGR AZ	58	S GND PAR	-.027+/- 1.134	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	72.741+/- 1.291	%
31	N 74' Temp	73.161+/- 2.536	DEGR F	60	S GND VER	.124+/- .401	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	126.336+/- 45.289	W/m**2
35	N HA 74'	6.483+/- 2.767	mph	64	S VA 55'	.408+/- 1.047	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.36+/- 2.20	185.3+/- 20.0	-.7+/- 15.4		
02	17 19 21	4.28+/- 2.15	187.8+/- 26.2	.0+/- 18.8		
03	38 40 42	2.87+/- 1.83	189.4+/- 24.8	8.3+/- 19.0		
04	41 43 45	3.02+/- 1.43	184.8+/- 38.8	3.6+/- 18.3		
05	50 52 54	2.89+/- 1.94	190.1+/- 17.0	8.0+/- 34.3		
06	56 58 60	1.16+/- 1.25	199.5+/- 38.7	16.5+/- 23.7		



16:42:24 -- TURNING BACK ON RADAR #9 RANGE WAS TOO LOW. MWH  
 16:42:46 -- JUST RETURNING FROM AEDAS CALIBRATION MWH  
 16:43:28 -- BEGIN CALIB. NCO-1  
 16:43:54 -- BEGIN CALIB. NCO-5 GRD  
 16:55:28 -- CALIB CH 53 NCO-3 MWH  
 16:57:15 -- RADAR 3 IS SUSPECT WILL CHECK AFTER ECOLYZER CALIBRATION PERIOD MWH  
 16:58:11 -- ENDED CALIB OF CH49 AND CH 57 MWH  
 16:58:26 -- GUY WILL TURN UP RADAR #3 RANGE

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2150 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	57.6	3	51.3	66	58.1	14	60.3	****	****
Cat2	149	64.0	15	54.2	190	59.8	157	61.1	****	****
Cat3	26	64.0	8	57.4	27	59.6	15	62.4	****	****
Cat4	22	66.1	2	59.8	17	63.7	9	61.6	****	****
Cat5	6	68.0	1	57.6	6	61.0	4	60.8	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	62.8	99	56.8	47	58.2	62	56.2	46	45.8
Cat2	217	64.2	174	59.4	225	59.9	167	58.6	58	46.5
Cat3	28	65.0	37	60.9	60	59.9	23	57.7	2	44.6
Cat4	20	66.4	20	61.4	25	62.1	6	57.4	0	.0
Cat5	6	65.1	12	61.8	18	63.5	3	54.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	395	18.4	59.9	1352	62.9	60.9	226	10.5	63.4	121	5.6	62.7	56	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.736+/-	2.529	37	N VA 102'	.382+/-	1.247
12	N Dasibi CD	1.740+/-	.514	38	S BOT PER	2.272+/-	1.539
13	N TOP PAR	.839+/-	1.885	39	N VA 74'	-.022+/-	1.069
14	N Dasibi 03	-.018+/-	-.003	40	S BOT PAR	-.066+/-	-.830
15	N TOP VER	.168+/-	1.075	41	N GND PAR	1.454+/-	1.351
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.234+/-	-.452
17	N BOT PER	3.529+/-	2.092	43	N GND PAR	-.969+/-	1.862
19	N BOT PAR	.189+/-	1.825	45	N GND VER	.131+/-	.668
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	1.678+/-	-.211
21	N BOT VER	.112+/-	1.024	50	S TOP PER	2.903+/-	2.244
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	7.301+/-	2.317	52	S TOP PAR	.125+/-	.355
24	N THC/Byron	2.464+/-	.131	53	N Ecolyzer-3	1.482+/-	.649
25	N WV 102'	181.797+/-	14.951	54	S TOP VER	.313+/-	.954
26	N NMHC/Byro	2.837+/-	.130	55	N Ecolyzer-4	2.579+/-	.602
27	N Gnd Temp	75.681+/-	2.864	56	S GND PER	.812+/-	1.058
28	N CH4/Byron	1.492+/-	.064	57	N Ecolyzer-5	2.363+/-	.908
29	N WV 74'	171.848+/-	19.457	58	S GND PAR	-.157+/-	-.821
30	N CO/Byron	1.163+/-	.425	59	N Rel Hum	73.832+/-	.706
31	N 74' Temp	73.206+/-	1.947	60	S GND VER	.151+/-	.287
32	N CO2/Byron	394.887+/-	6.189	61	N Solar Rad	99.738+/-	16.137
35	N HA 74'	6.744+/-	2.988	64	S VA 55'	.555+/-	1.087

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	5.29+/- 2.47	193.1+/- 24.9	2.6+/- 14.8
02	17 19 21	4.11+/- 2.03	184.2+/- 25.8	1.0+/- 21.5
03	38 40 42	2.49+/- 1.60	185.1+/- 26.9	5.5+/- 18.1
04	41 43 45	2.54+/- 1.45	148.5+/- 44.6	6.6+/- 15.6
05	50 52 54	3.13+/- 2.11	188.8+/- 15.4	6.9+/- 32.1
06	56 58 60	1.12+/- 1.00	190.0+/- 38.0	17.7+/- 19.9

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2137 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	57.9	7	51.8	74	57.2	12	59.1	****	****
Cat2	174	60.1	8	52.2	207	58.9	181	60.8	****	****
Cat3	42	62.0	13	56.3	38	59.5	21	60.1	****	****
Cat4	13	66.0	2	62.5	19	61.5	10	64.0	****	****
Cat5	11	69.6	0	.0	4	64.6	5	63.3	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	62.0	103	57.6	51	60.1	51	58.6	47	43.8
Cat2	212	64.1	175	59.4	225	60.8	137	59.6	53	45.1
Cat3	23	66.1	25	60.4	40	60.7	18	56.5	0	.0
Cat4	13	64.1	15	61.8	29	62.0	4	55.7	0	.0
Cat5	5	65.5	6	61.5	12	60.9	1	67.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	398	18.6	60.0	1370	64.1	60.8	220	10.3	62.6	105	4.9	64.4	44	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.985+/-	2.481	37	N VA 102'	.147+/-	1.584
12	N Dasibi CD	1.970+/-	.481	38	S BOT PER	1.773+/-	1.254
13	N TOP PAR	.891+/-	1.432	39	N VA 74'	-.092+/-	1.358
14	N Dasibi 03	-.016+/-	-.003	40	S BOT PAR	.312+/-	.997
15	N TOP VER	.172+/-	1.204	41	N GND PAR	1.781+/-	1.294
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.530+/-	.510
17	N BOT PER	4.159+/-	2.286	43	N GND PAR	-1.027+/-	2.027
19	N BOT PAR	.340+/-	1.352	45	N GND VER	.236+/-	.723
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	1.767+/-	.229
21	N BOT VER	.115+/-	1.260	50	S TOP PER	2.547+/-	1.811
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	7.230+/-	2.274	52	S TOP PAR	.179+/-	.426
24	N THC/Byron	2.558+/-	.092	53	N Ecolyzer-3	1.572+/-	.616
25	N WV 102'	183.658+/-	17.098	54	S TOP VER	.307+/-	.857
26	N NMHC/Byro	2.688+/-	.165	55	N Ecolyzer-4	2.680+/-	.615
27	N Gnd Temp	75.421+/-	2.174	56	S GND PER	.589+/-	.993
28	N CH4/Byron	1.430+/-	.075	57	N Ecolyzer-5	2.259+/-	.824
29	N WV 74'	175.386+/-	17.235	58	S GND PAR	-.058+/-	.769
30	N CO/Byron	1.580+/-	.187	59	N Rel Hum	75.949+/-	3.668

31	N 74' Temp	73.832+/-	2.900	DEGR F	60	S GND VER	.131+/-	.346	mph
32	N CO2/Byron	402.052+/-	8.154	ppm	61	N Solar Rad	70.577+/-	18.583	W/m**2
35	N HA 74'	6.497+/-	2.587	mph	64	S VA 55'	.386+/-	.918	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.43+/- 2.32	181.8+/- 20.4	2.2+/- 16.5			
02	17	18	21	4.56+/- 2.21	184.9+/- 23.1	1.3+/- 18.3			
03	38	40	42	2.08+/- 1.32	191.8+/- 26.8	11.3+/- 20.1			
04	41	43	45	2.99+/- 1.33	153.2+/- 42.3	1.2+/- 22.3			
05	50	52	54	2.83+/- 1.66	191.1+/- 20.0	10.8+/- 36.8			
06	56	58	60	1.06+/- .97	200.8+/- 42.2	17.8+/- 30.8			

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2228 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	55.4	3	52.1	63	58.0	12	60.0	****	****
Cat2	198	59.6	4	55.9	180	59.1	177	60.9	****	****
Cat3	25	61.7	22	56.9	42	59.1	15	60.9	****	****
Cat4	15	65.6	1	53.1	20	59.7	12	62.3	****	****
Cat5	6	62.4	0	.0	7	62.6	0	.0	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	62.7	109	55.7	49	58.4	55	56.0	48	45.4
Cat2	193	64.2	194	57.8	237	59.0	157	59.2	96	46.1
Cat3	24	65.6	32	58.3	47	59.2	11	58.1	3	46.1
Cat4	15	65.8	25	58.6	36	60.7	9	65.7	0	.0
Cat5	3	67.6	11	61.0	11	61.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	400	18.0	59.0	1436	64.5	59.7	221	9.9	61.7	133	6.0	62.2	38	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.377+/- 2.445	mph	37	N VA 102'	.154+/- 1.407	mph
12	N Dasibi CO	2.009+/- .418	ppm	38	S BOT PER	2.798+/- 1.473	mph
13	N TOP PAR	-.432+/- 1.838	mph	39	N VA 74'	-.149+/- 1.342	mph
14	N Dasibi D3	.017+/- .004	ppm	40	S BOT PAR	-.492+/- 1.409	mph
15	N TOP VER	.038+/- 1.252	mph	41	N GND PER	1.783+/- 1.353	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.626+/- .551	mph
17	N BOT PER	3.968+/- 2.011	mph	43	N GND PAR	-2.325+/- 1.883	mph
18	N BOT PAR	-.903+/- 1.678	mph	45	N GND VER	-.029+/- .699	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.781+/- 1.185	ppm
21	N BOT VER	-.080+/- .997	mph	50	S TOP PER	3.482+/- 2.185	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.765+/- 2.276	mph	52	S TOP PAR	-.120+/- .256	mph
24	N THC/Byron	2.547+/- .120	ppm	53	N Ecolyzer-3	1.641+/- .587	ppm
25	N WV 102'	174.000+/- 15.532	DEGR AZ	54	S TOP VER	-.338+/- 1.052	mph
26	N NMHC/Byro	2.623+/- .163	ppm	55	N Ecolyzer-4	2.803+/- .662	ppm
27	N Gnd Temp	75.603+/- 3.025	DEGR F	56	S GND PER	1.050+/- 1.161	mph
28	N CH4/Byron	1.446+/- .109	ppm	57	N Ecolyzer-5	2.490+/- .875	ppm
29	N WV 74'	164.186+/- 16.976	DEGR AZ	58	S GND PAR	-.599+/- 1.122	mph
30	N CD/Byron	1.677+/- .198	ppm	59	N Rel Hum	75.167+/- .473	%
31	N 74' Temp	72.998+/- 2.432	DEGR F	60	S GND VER	-.103+/- .319	mph
32	N CO2/Byron	383.651+/- 5.927	ppm	61	N Solar Rad	65.944+/- 24.629	W/m**2
35	N HA 74'	6.898+/- 3.100	mph	64	S VA 55'	.359+/- 1.249	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.83+/- 2.43	177.5+/- 19.6	2.3+/- 17.5			
02	17	19	21	4.54+/- 2.01	188.8+/- 24.7	-.7+/- 18.1			
03	38	40	42	3.18+/- 1.59	174.9+/- 24.8	11.5+/- 12.4			
04	41	43	45	3.48+/- 1.53	129.6+/- 33.4	6.0+/- 18.8			
05	50	52	54	3.81+/- 2.15	184.1+/- 7.4	3.1+/- 19.8			
06	56	58	60	1.55+/- 1.31	172.8+/- 41.4	14.1+/- 16.8			

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2258 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	56.9	4	49.3	31	57.8	17	60.8	15	45.8
Cat2	204	58.9	11	52.9	184	58.4	172	60.3	11	45.8
Cat3	28	61.7	12	57.0	51	58.3	20	59.9	6	47.5
Cat4	17	64.0	1	58.9	34	58.9	9	62.3	1	38.7
Cat5	1	64.9	0	.0	11	61.0	7	61.0	1	43.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	61.9	119	58.4	62	58.2	44	57.6	34	44.6
Cat2	218	63.6	159	58.8	260	58.9	188	58.6	87	45.8
Cat3	20	64.5	35	58.6	40	60.7	10	58.4	3	39.7
Cat4	15	67.8	13	58.2	27	61.9	4	62.1	3	42.3
Cat5	3	64.0	5	61.3	11	60.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	376	16.7	58.7	1494	66.2	59.3	225	10.0	61.2	124	5.5	60.9	39	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.474+/- 2.238	mph	37	N VA 102'	.262+/- 1.288	mph
12	N Dasibi CO	1.770+/- .424	ppm	38	S BOT PER	2.403+/- 1.380	mph
13	N TOP PAR	-.173+/- 2.020	mph	39	N VA 74'	-.047+/- 1.236	mph
14	N Dasibi D3	.016+/- .003	ppm	40	S BOT PAR	-.210+/- .839	mph
15	N TOP VER	.200+/- 1.308	mph	41	N GND PER	1.725+/- 1.483	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	-.572+/- .512	mph
17	N BOT PER	4.211+/- 2.218	mph	43	N GND PAR	-1.633+/- 1.792	mph
19	N BOT PAR	-.787+/- 1.981	mph	45	N GND VER	-.174+/- .819	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.197+/- 1.132	mph	50	S TOP PER	3.472+/- 2.004	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm

23	N HA 102'	8.318+/-	1.974	mph	52	S TOP PAR	.109+/-	.374	mph
24	N THC/Byron	2.333+/-	.089	ppm	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	172.201+/-	14.623	DEGR AZ	54	S TOP VER	.133+/-	.920	mph
26	N NMHC/Byro	2.143+/-	.565	ppm	55	N Ecolyzer-4	2.383+/-	.460	ppm
27	N Gnd Temp	74.170+/-	1.796	DEGR F	56	S GND PER	.725+/-	.990	ppm
28	N CH4/Byron	1.392+/-	.086	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	185.248+/-	15.887	DEGR AZ	58	S GND PAR	-.285+/-	.785	ppm
30	N CD/Byron	1.935+/-	.494	ppm	59	N Rel Hum	77.382+/-	.934	%
31	N 74' Temp	73.284+/-	1.810	DEGR F	60	S GND VER	-.114+/-	.394	mph
32	N CO2/Byron	376.242+/-	10.888	ppm	61	N Solar Rad	32.972+/-	5.693	W/m**2
35	N HA 74'	7.493+/-	2.643	mph	64	S VA 55'	.237+/-	1.115	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.97+/- 2.21	177.9+/- 20.4	4.3+/- 14.2
02	17 19 21	4.95+/- 2.10	168.0+/- 25.8	4.3+/- 21.8
03	38 40 42	2.71+/- 1.31	177.6+/- 21.2	17.2+/- 17.6
04	41 43 45	3.07+/- 1.46	138.5+/- 37.7	8.0+/- 18.9
05	50 52 54	3.68+/- 1.90	185.4+/- 13.3	12.9+/- 22.2
06	56 58 60	1.12+/- 1.08	178.9+/- 42.4	16.1+/- 24.9

Average for hourly period ending at 17:00:00  
Traffic Data  
 Total Traffic = 8739 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	129	56.9	17	51.2	234	57.7	55	60.1	****	****
Cat 2	725	59.6	36	53.6	761	59.1	687	60.8	****	****
Cat 3	121	62.3	55	56.9	158	59.0	71	60.7	****	****
Cat 4	67	65.4	6	59.4	90	60.5	40	62.6	****	****
Cat 5	24	67.2	1	57.6	28	61.9	16	61.7	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	95	62.4	430	56.6	209	58.7	212	57.0	173	44.9
Cat 2	840	64.0	702	58.8	947	59.6	649	59.0	294	45.9
Cat 3	95	65.3	129	59.5	187	60.1	62	57.7	8	43.3
Cat 4	63	66.1	73	60.1	117	61.6	23	61.2	3	42.3
Cat 5	17	65.5	34	61.4	52	62.0	4	57.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	1554	17.8	59.4	5841	64.5	60.2	886	10.1	62.2	482	5.5	62.7	178	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.138+/- 2.428	mph	37	N VA 102'	.236+/- 1.388	mph
12	N Dasibi CO	1.872+/- 1.471	ppm	38	S BOT PER	2.312+/- 1.483	mph
13	N TOP PAR	.281+/- 1.894	ppm	39	N VA 74'	-.020+/- 1.262	mph
14	N Dasibi O3	.017+/- .003	ppm	40	S BOT PAR	-.114+/- 1.081	mph
15	N TOP VER	.145+/- 1.212	mph	41	N GND PER	1.685+/- 1.375	ppm
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.450+/- .529	mph
17	N BDT PER	3.967+/- 2.162	mph	43	N GND PAR	-1.488+/- 1.959	ppm
19	N BOT PAR	-.285+/- 1.800	ppm	45	N GND VER	.143+/- .732	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.738+/- .205	ppm
21	N BOT VER	.126+/- 1.107	mph	50	S TDP PER	3.101+/- 2.097	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.653+/- 2.248	mph	52	S TOP PAR	.134+/- .358	mph
24	N THC/Byron	2.476+/- 1.140	ppm	53	N Ecolyzer-3	1.548+/- .608	ppm
25	N WV 102'	177.898+/- 16.244	DEGR AZ	54	S TOP VER	.273+/- .950	mph
26	N NMHC/Byro	2.575+/- .402	ppm	55	N Ecolyzer-4	2.611+/- .609	ppm
27	N Gnd Temp	75.219+/- 2.527	DEGR F	56	S GND PER	.794+/- 1.062	mph
28	N CH4/Byron	1.440+/- .090	ppm	57	N Ecolyzer-5	2.370+/- .885	ppm
29	N WV 74'	169.147+/- 17.951	DEGR AZ	58	S GND PAR	-.275+/- .866	ppm
30	N CD/Byron	1.589+/- .642	ppm	59	N Rel Hum	75.582+/- 2.292	%
31	N 74' Temp	73.330+/- 2.238	DEGR F	60	S GND VER	.125+/- .339	mph
32	N CO2/Byron	389.208+/- 12.731	ppm	61	N Solar Rad	67.307+/- 29.461	W/m**2
35	N HA 74'	6.908+/- 2.850	mph	64	S VA 55'	.384+/- 1.102	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.63+/- 2.37	185.0+/- 22.4	2.8+/- 15.8
02	17 19 21	4.54+/- 2.10	176.4+/- 26.6	1.5+/- 20.0
03	33 40 42	2.61+/- 1.51	182.3+/- 25.6	11.4+/- 17.7
04	41 43 45	3.02+/- 1.48	141.6+/- 40.3	5.4+/- 19.1
05	50 52 54	3.34+/- 1.98	187.3+/- 15.0	8.4+/- 28.7
06	56 58 60	1.21+/- 1.11	185.7+/- 41.6	16.4+/- 23.6

17:03:07 -- DISABLING RADAR #3 UNTIL PROBLEM IS RESOLVED. MWH  
 17:04:07 -- END CALIB OF NCD-3 CH 53 MWH  
 17:04:56 -- BEGIN CALIB OF NCD-4 CH 55 MWH  
 17:07:28 -- ENABLING RADAR #3 TO TEST MWH  
 17:09:18 -- NCD-5 AND REPLACED WITH DIFFERENT INST. MWH  
 17:12:01 -- RADAR #4 MAY BE SLIPPING OUT O/T 52.  
 17:12:37 -- RADAR #4 MAY BE SLIPPING OUT OF RANGE. MWH  
 17:13:46 -- RANGE ADJUSTMENT ON RADAR#3 APPEARS TO HAVE HELPED BUT WILL TRY TO ADJUST FURTHER  
 17:13:49 -- MWH  
 17:19:56 -- END CALIB OF NCD-4 CH 55 MWH  
 17:24:35 -- TRAFFIC BEGINNING TO SLOW EAST BOUND  
 17:32:45 -- CH 48 WARNING APPARENTLY DUE TO EXTERN. INTERFERENCE

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2280 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	32	57.3	****	****	6	53.3	17	59.8	16	45.6
Cat 2	190	59.1	****	****	200	59.3	191	60.4	14	46.6
Cat 3	30	60.7	****	****	62	59.2	15	60.6	0	0
Cat 4	24	63.7	****	****	20	59.8	8	57.4	0	0
Cat 5	8	64.7	****	****	13	58.9	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	15	61.9	132	55.0	38	56.8	59	56.6	87	43.4
Cat 2	228	62.8	188	56.9	247	57.2	155	57.8	97	44.1
Cat 3	22	64.6	34	57.9	47	58.1	11	58.4	4	39.1
Cat 4	17	65.4	24	60.0	38	59.2	6	58.4	1	43.0
Cat 5	3	71.3	5	55.3	15	61.6	1	61.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.2	362	15.9	58.0	1510	66.2	59.2	226	9.9	60.7	138	6.1	61.3	45	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.821+/- 2.743	mph	37	N VA 102'	.235+/- 1.250	mph
12	N Dasibi CD	1.984+/- .510	ppm	38	S BDT PER	2.180+/- 1.331	mph
13	N TOP PAR	.159+/- 1.588	mph	39	N VA 74'	-.206+/- 1.163	mph
14	N Dasibi O3	-.015+/- .002	ppm	40	S BDT PAR	-.197+/- 1.149	mph
15	N TDP VER	-.049+/- 1.215	mph	41	N GND PER	1.841+/- 1.481	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.429+/- 1.456	mph
17	N BDT PER	4.639+/- 2.759	mph	43	N GND PAR	-1.208+/- 1.712	mph
18	N BDT PAR	-.182+/- 1.580	mph	45	N GND VER	-.082+/- .751	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.615+/- .180	ppm
21	N BDT VER	-.002+/- .992	mph	50	S TOP PER	3.424+/- 1.988	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.936+/- 2.423	mph	52	S TOP PAR	.148+/- .138	mph
24	N THC/Byron	2.421+/- .075	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	177.292+/- 12.944	DEGR AZ	54	S TDP VER	.106+/- .932	mph
26	N NMHC/Byro	2.099+/- .344	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	72.920+/- 2.356	DEGR F	56	S GND PER	.690+/- .916	mph
28	N CH4/Byron	1.394+/- .088	ppm	57	N Ecolyzer-5	2.769+/- 1.169	ppm
29	N WV 74'	168.201+/- 15.778	DEGR AZ	58	S GND PAR	-.190+/- .931	mph
30	N CO/Byron	1.010+/- .220	ppm	59	N Rel Hum	80.492+/- .904	%
31	N 74' Temp	71.617+/- 2.479	DEGR F	60	S GND VER	-.096+/- .295	mph
32	N CD2/Byron	380.313+/- 4.303	ppm	61	N Solar Rad	19.801+/- 4.786	W/m**2
35	N HA 74'	7.086+/- 3.148	mph	64	S VA 55'	.268+/- 1.164	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.17+/- 2.71	181.4+/- 17.2	-.1+/- 13.9
02	17 19 21	5.05+/- 2.63	177.0+/- 25.1	-.9+/- 16.8
03	38 40 42	2.56+/- 1.30	178.6+/- 27.4	13.0+/- 14.5
04	41 43 45	2.97+/- 1.33	150.0+/- 40.0	-.3+/- 21.1
05	50 52 54	3.56+/- 1.93	183.9+/- 4.8	5.7+/- 20.2
06	56 58 60	1.10+/- 1.01	191.1+/- 41.8	14.8+/- 21.6

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2586 vehicles averaging 56.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	34	56.8	132	51.9	8	58.2	21	59.7	12	47.5
Cat 2	188	58.3	86	52.5	210	58.3	204	59.9	8	46.7
Cat 3	41	59.7	27	56.2	44	58.1	16	62.5	2	44.1
Cat 4	24	62.1	9	59.2	29	60.4	5	65.1	0	0
Cat 5	8	64.5	2	59.2	19	58.7	1	62.4	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	15	59.6	128	54.3	43	57.9	55	55.9	49	42.9
Cat 2	204	62.0	198	55.5	258	58.9	182	56.5	100	44.0
Cat 3	30	63.8	38	57.1	38	57.7	15	58.8	4	40.6
Cat 4	23	64.5	21	54.9	31	59.3	8	57.0	1	45.9
Cat 5	6	66.9	11	57.8	25	61.0	3	58.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.5	497	19.2	57.1	1608	62.2	58.5	255	9.9	60.1	151	5.8	60.6	75	2.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.280+/- 1.733	mph	37	N VA 102'	.194+/- 1.215	mph
12	N Dasibi CD	2.527+/- .516	ppm	38	S BDT PER	1.623+/- 1.044	mph
13	N TOP PAR	-.556+/- 1.385	mph	39	N VA 74'	-.012+/- 1.084	mph
14	N Dasibi O3	.013+/- .002	ppm	40	S BDT PAR	.021+/- .663	mph
15	N TDP VER	-.127+/- .911	mph	41	N GND PER	1.562+/- 1.151	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	.471+/- .442	mph
17	N BDT PER	2.898+/- 1.822	mph	43	N GND PAR	-1.169+/- 1.839	mph
18	N BDT PAR	-.009+/- 1.460	mph	45	N GND VER	.161+/- .634	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.755+/- .144	ppm
21	N BDT VER	.119+/- .878	mph	50	S TOP PER	2.695+/- 1.605	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.200+/- 1.487	mph	52	S TOP PAR	.140+/- .082	mph
24	N THC/Byron	2.395+/- .117	ppm	53	N Ecolyzer-3	2.289+/- .680	ppm
25	N WV 102'	178.095+/- 12.601	DEGR AZ	54	S TOP VER	.122+/- .727	mph
26	N NMHC/Byro	2.138+/- .303	ppm	55	N Ecolyzer-4	*****+/-*****	ppm

27	N Gnd Temp	71.122+/-	2.071	DEGR F	56	S GND PER	.334+/-	.565	mph
28	N CH4/Byron	1.350+/-	.053	ppm	57	N Ecolyzer-5	3.422+/-	1.177	ppm
29	N WV 74'	169.028+/-	14.009	DEGR AZ	58	S GND PAR	.019+/-	.567	mph
30	N CO/Byron	1.489+/-	.080	ppm	59	N Rel Hum	83.179+/-	.794	%
31	N 74' Temp	70.471+/-	3.225	DEGR F	60	S GND VER	.125+/-	.195	mph
32	N CO2/Byron	405.950+/-	9.823	ppm	61	N Solar Rad	9.063+/-	4.291	W/m <sup>2</sup>
35	N HA 74'	6.239+/-	2.480	mph	64	S VA 55'	.370+/-	.837	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.71+/- 1.69	186.7+/- 17.8	-4.4+/- 18.9		
02	17 19 21	3.45+/- 1.53	178.1+/- 28.6	3.1+/- 25.6		
03	38 40 42	1.88+/- 1.00	186.3+/- 24.2	16.6+/- 22.0		
04	41 43 45	2.74+/- 1.20	149.7+/- 42.4	4.2+/- 19.6		
05	50 52 54	2.96+/- 1.48	187.0+/- 11.5	2.0+/- 31.1		
06	56 58 60	.63+/- .72	208.9+/- 33.3	21.5+/- 27.9		

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2427 vehicles averaging 56.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	55.3	136	51.8	5	53.7	16	60.3	15	46.9
Cat2	152	55.9	114	53.7	201	57.5	189	59.3	18	45.2
Cat3	19	60.6	20	57.9	52	58.1	6	57.7	0	.0
Cat4	14	60.2	6	58.3	24	59.7	7	59.0	1	44.8
Cat5	9	65.2	3	68.0	9	64.2	4	63.8	1	66.8

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	61.0	126	55.1	46	56.4	54	56.7	31	44.5
Cat2	223	62.1	154	56.8	255	57.3	136	58.2	94	44.6
Cat3	16	61.1	36	58.3	45	59.3	18	59.3	2	39.2
Cat4	19	66.0	15	57.4	13	56.8	8	57.1	0	.0
Cat5	5	67.8	8	60.0	14	61.8	3	72.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.1	508	20.9	57.0	1536	63.3	58.7	216	8.9	59.7	111	4.6	64.5	58	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.925+/- 1.535	mph	37	N VA 102'	.125+/- 1.407	mph
12	N Dasibi CO	2.403+/- .489	ppm	38	S BOT PER	1.475+/- .894	mph
13	N TOP PAR	.138+/- 1.109	ppm	39	N VA 74'	-.022+/- .835	mph
14	N Dasibi O3	.012+/- .002	ppm	40	S BOT PAR	.036+/- .787	mph
15	N TOP VER	.126+/- .828	mph	41	N GND PER	1.358+/- 1.085	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.373+/- .318	mph
17	N BOT PER	2.698+/- 1.434	mph	43	N GND PAR	-1.423+/- 1.243	mph
19	N BOT PAR	-.377+/- 1.020	ppm	45	N GND VER	-.137+/- .402	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.845+/- .133	ppm
21	N BOT VER	.102+/- .788	mph	50	S TOP PER	1.929+/- 1.349	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.818+/- 1.452	mph	52	S TOP PAR	.142+/- .059	ppm
24	N THC/Byron	2.662+/- .087	ppm	53	N Ecolyzer-3	2.400+/- .656	ppm
25	N WV 102'	170.144+/- 12.351	DEGR AZ	54	S TOP VER	.159+/- .508	mph
26	N NMHC/Byro	2.431+/- .382	ppm	55	N Ecolyzer-4	3.033+/- .599	ppm
27	N Gnd Temp	69.481+/- 3.016	DEGR F	56	S GND PER	.396+/- .635	mph
28	N CH4/Byron	1.360+/- .082	ppm	57	N Ecolyzer-5	3.141+/- 1.319	ppm
29	N WV 74'	185.527+/- 14.835	DEGR AZ	58	S GND PAR	.133+/- .562	mph
30	N CO/Byron	1.659+/- .255	ppm	59	N Rel Hum	85.572+/- .730	%
31	N 74' Temp	70.132+/- 3.795	DEGR F	60	S GND VER	.510+/- .253	mph
32	N CO2/Byron	393.421+/- 13.762	ppm	61	N Solar Rad	4.224+/- 2.188	W/m <sup>2</sup>
35	N HA 74'	5.732+/- 2.410	mph	64	S VA 55'	.227+/- .688	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.25+/- 1.52	181.3+/- 18.9	2.4+/- 17.4		
02	17 19 21	3.15+/- 1.30	172.6+/- 25.1	4.0+/- 23.6		
03	38 40 42	1.78+/- .96	187.7+/- 21.9	20.7+/- 20.8		
04	41 43 45	2.39+/- 1.13	133.1+/- 36.3	4.7+/- 17.1		
05	50 52 54	2.15+/- 1.25	190.0+/- 13.6	8.2+/- 32.3		
06	56 58 60	.60+/- .78	214.8+/- 27.4	23.0+/- 21.1		

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2296 vehicles averaging 56.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	53.2	105	51.0	8	52.7	15	59.2	13	46.9
Cat2	139	55.3	162	53.3	51	57.1	173	59.1	13	43.0
Cat3	27	57.2	22	55.0	24	58.3	10	59.1	2	47.8
Cat4	8	61.7	17	56.0	18	58.7	1	64.7	0	.0
Cat5	8	62.9	2	62.9	18	60.6	1	60.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	61.7	103	55.6	53	57.3	57	54.2	42	45.2
Cat2	199	62.2	155	56.7	229	56.9	151	55.9	65	44.0
Cat3	15	62.5	23	55.5	27	58.9	9	55.1	3	46.9
Cat4	15	63.3	10	57.8	26	58.2	4	51.1	0	.0
Cat5	3	62.6	5	57.6	7	62.6	3	66.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.4	471	20.5	56.5	1487	64.8	57.5	192	8.4	59.1	98	4.3	61.6	48	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.127+/- 2.315	mph	37	N VA 102'	.220+/- 1.199	mph
12	N Dasibi CO	2.475+/- .394	ppm	38	S BOT PER	2.388+/- 1.359	mph
13	N TOP PAR	-.834+/- 1.415	ppm	39	N VA 74'	-.053+/- 1.107	mph
14	N Dasibi O3	-.012+/- .002	ppm	40	S BOT PAR	-.025+/- .670	mph
15	N TOP VER	-.045+/- 1.140	mph	41	N GND PER	2.018+/- 1.453	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.511+/- .564	mph
17	N BOT PER	3.528+/- 2.121	mph	43	N GND PAR	-2.510+/- 1.639	mph

19	N BDT PAR	-1.226+/-	1.391	mph	45	N GND VER	.171+/-	.514	mph
20	N NO2/TECO	*****+/-	*****	ppm	49	N Ecolyzer-1	1.787+/-	.139	ppm
21	N BDT VER	-.021+/-	.811	mph	50	S TDP PER	3.331+/-	2.002	mph
22	N ND/TECO	*****+/-	*****	ppm	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	7.851+/-	1.738	mph	52	S TDP PAR	.149+/-	.061	mph
24	N THC/Byron	2.867+/-	.113	ppm	53	N Ecolyzer-3	2.118+/-	.631	ppm
25	N WV 102'	186.058+/-	11.141	DEGR AZ	54	S TDP VER	.123+/-	.767	mph
26	N NMHC/Byro	2.514+/-	.185	ppm	55	N Ecolyzer-4	2.967+/-	.560	ppm
27	N Gnd Temp	70.861+/-	2.960	DEGR F	56	S GND PER	.697+/-	.827	mph
28	N CH4/Byron	1.448+/-	.106	ppm	57	N Ecolyzer-5	3.295+/-	1.023	ppm
29	N WV 74'	156.891+/-	14.176	DEGR AZ	58	S GND PAR	-.257+/-	.829	mph
30	N CD/Byron	2.601+/-	.621	ppm	59	N Rel Hum	87.054+/-	.352	%
31	N 74' Temp	69.871+/-	3.098	DEGR F	60	S GND VER	.121+/-	.313	mph
32	N CO2/Byron	390.246+/-	4.639	ppm	61	N Solar Rad	3.179+/-	2.071	W/m**2
35	N HA 74'	6.286+/-	2.701	mph	64	S VA 55'	.293+/-	.858	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.45+/- 2.29	170.5+/- 15.9	2.4+/- 10.0		
02	17 19 21	4.07+/- 2.09	157.4+/- 23.3	2.6+/- 11.0		
03	38 40 42	2.56+/- 1.35	181.4+/- 18.6	14.1+/- 14.0		
04	41 43 45	3.67+/- 1.46	131.1+/- 28.8	2.6+/- 13.9		
05	50 52 54	3.45+/- 1.93	184.4+/- 6.0	3.6+/- 20.6		
06	56 58 60	1.01+/- .97	193.1+/- 40.9	20.5+/- 18.3		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 3700 Vehicles averaging 56.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	174	55.3	446	51.5	28	54.6	69	59.7	56	48.7
Cat2	668	57.4	356	53.2	812	58.1	757	59.7	53	45.3
Cat3	117	59.5	77	56.3	212	58.5	49	60.4	4	45.9
Cat4	71	62.2	38	58.7	93	59.8	21	60.1	1	44.8
Cat5	34	64.3	7	64.1	55	60.2	6	63.0	1	86.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	61.1	489	55.0	180	57.1	225	55.9	169	43.9
Cat2	854	62.3	695	56.5	989	57.1	624	57.0	356	44.2
Cat3	83	63.3	131	57.4	157	58.5	53	58.2	13	41.4
Cat4	74	64.8	70	57.6	108	58.7	26	56.4	2	44.5
Cat5	17	67.2	29	57.9	61	61.5	10	65.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.7	1911	19.7	57.1	6185	63.6	58.5	896	9.2	60.0	506	5.2	62.0	224	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PAR	4.788+/- 2.269	mph	37	N VA 102'	.193+/- 1.269	mph
12	N Dasidi CO	2.347+/- .525	ppm	38	S BDT VER	1.916+/- 1.228	mph
13	N TDP PAR	.005+/- 1.467	mph	39	N VA 74'	-.117+/- 1.059	mph
14	N Dasidi O3	.013+/- .002	ppm	40	S BDT PAR	-.048+/- .842	mph
15	N TDP VER	.040+/- 1.037	mph	41	N GND PER	1.695+/- 1.323	mph
16	N NDX/TECO	*****+/-	ppm	42	S BDT VER	.446+/- .455	mph
17	N BDT PER	3.441+/- 2.177	mph	43	N GND PAR	-1.577+/- 1.707	mph
19	N BDT PAR	-.444+/- 1.452	mph	45	N GND VER	.133+/- .590	ppm
20	N NO2/TECO	*****+/-	ppm	49	N Ecolyzer-1	1.750+/- 1.172	ppm
21	N BDT VER	.049+/- .867	mph	50	S TDP PER	2.845+/- 1.850	ppm
22	N NO/TECO	*****+/-	ppm	51	N Ecolyzer-2	*****+/-	ppm
23	N HA 102'	7.401+/- 1.860	mph	52	S TDP PAR	.145+/- .091	ppm
24	N THC/Byron	2.537+/- .162	ppm	53	N Ecolyzer-3	2.201+/- .677	ppm
25	N WV 102'	172.887+/- 13.200	DEGR AZ	54	S TDP VER	.128+/- .747	ppm
26	N NMHC/Byro	2.296+/- .352	ppm	55	N Ecolyzer-4	*****+/-	ppm
27	N Gnd Temp	71.086+/- 2.846	DEGR F	56	S GND PER	5.529+/- .764	mph
28	N CH4/Byron	1.388+/- .091	ppm	57	N Ecolyzer-5	3.157+/- 1.201	ppm
29	N WV 74'	164.861+/- 15.424	DEGR AZ	58	S GND PAR	-.074+/- .754	mph
30	N CD/Byron	1.615+/- .712	ppm	59	N Rel Hum	84.074+/- 2.607	%
31	N 74' Temp	70.523+/- 3.174	DEGR F	60	S GND VER	-.111+/- .267	mph
32	N CO2/Byron	392.485+/- 12.785	ppm	61	N Solar Rad	9.072+/- 7.485	W/m**2
35	N HA 74'	6.336+/- 2.732	mph	64	S VA 55'	.290+/- .903	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.14+/- 2.22	180.0+/- 18.3	1.1+/- 15.4		
02	17 18 21	3.93+/- 2.08	171.2+/- 26.6	2.8+/- 20.1		
03	38 40 42	2.20+/- 1.22	183.5+/- 23.4	16.1+/- 18.4		
04	41 43 45	2.94+/- 1.36	140.2+/- 37.9	3.0+/- 18.1		
05	50 52 54	3.03+/- 1.76	188.3+/- 10.0	4.9+/- 26.7		
06	56 58 60	.84+/- .90	202.9+/- 37.3	20.0+/- 22.6		

18:33:26 -- BEGIN CALIBRATION NCD-5 GRD  
 18:47:11 -- END CAL NCD-5 GRD  
 18:47:54 -- BEGIN CALIBRATION NCD-4  
 18:57:22 -- BEGIN CALIB DF CH 48 NCD-1  
 18:57:48 -- BEGIN CALIB DF NCD-1 CH 49

MWH MWH  
 Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2178 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	54.3	117	51.6	0	.0	13	59.5	15	45.3
Cat2	164	55.8	148	53.1	191	57.6	155	59.0	15	44.6
Cat3	20	57.4	19	56.5	45	57.4	6	61.6	2	45.0
Cat4	10	59.6	7	60.4	27	59.1	5	62.6	0	.0
Cat5	3	58.9	3	61.2	10	57.9	1	69.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	62.1	99	55.2	50	56.7	47	54.4	32	43.1
Cat2	181	62.4	140	56.6	227	57.1	139	56.8	63	44.8
Cat3	15	63.7	20	55.7	37	58.3	11	60.0	2	44.8
Cat4	14	65.6	15	58.5	14	58.3	4	60.6	1	42.1
Cat5	4	62.4	3	56.4	8	58.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.5	449	20.6	56.7	1423	65.3	57.9	177	8.1	60.0	97	4.5	59.2	32	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.952+/-	2.217	37	N VA 102'	.481+/-	1.531
12	N Dasibi CO	2.209+/-	.351	38	S BDT PER	2.264+/-	1.414
13	N TOP PAR	-.993+/-	1.654	39	N VA 74'	-.157+/-	1.161
14	N Dasibi O3	.012+/-	.001	40	S BDT PAR	-.234+/-	1.189
15	N TOP VER	.124+/-	1.077	41	N GND PER	1.877+/-	1.105
16	N ND/TECD	*****	*****	42	S BDT VER	.430+/-	.489
17	N BDT PER	3.596+/-	2.318	43	N GND PAR	-1.969+/-	1.562
19	N BDT PAR	-1.259+/-	1.513	45	N GND VER	1.108+/-	.707
20	N ND2/TECD	*****	*****	49	N Ecolyzer-1	1.720+/-	.179
21	N BDT VER	.188+/-	.929	50	S YDP PER	3.189+/-	2.104
22	N ND/TECD	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	7.757+/-	2.511	52	S TOP PAR	.148+/-	.073
24	N THC/Byron	2.583+/-	.064	53	N Ecolyzer-3	2.058+/-	.642
25	N WV 102'	184.498+/-	14.042	54	S TOP VER	.248+/-	.955
26	N NMHC/Byro	2.798+/-	.175	55	N Ecolyzer-4	2.921+/-	.553
27	N Gnd Temp	69.819+/-	3.536	56	S GND PER	.678+/-	.922
28	N CH4/Byron	1.365+/-	.074	57	N Ecolyzer-5	2.881+/-	1.126
29	N WV 74'	159.118+/-	13.677	58	S GND PAR	-.268+/-	.812
30	N CO/Byron	2.117+/-	.287	59	N Rel Hum	88.080+/-	.518
31	N 74' Temp	68.595+/-	2.220	60	S GND VER	.145+/-	.272
32	N CO2/Byron	405.064+/-	8.489	61	N Solar Rad	3.494+/-	2.272
35	N HA 74'	7.084+/-	2.795	64	S VA 55'	.545+/-	1.132

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.38+/- 2.31	170.3+/- 17.2	1.7+/- 13.2
02	17 19 21	4.23+/- 2.28	159.5+/- 26.2	2.6+/- 17.7
03	38 40 42	2.57+/- 1.51	182.8+/- 27.4	14.0+/- 14.2
04	41 43 45	3.21+/- 1.30	137.1+/- 30.9	4.5+/- 15.2
05	50 52 54	3.38+/- 2.02	186.7+/- 11.1	7.1+/- 27.1
06	56 58 60	1.05+/- 1.01	189.8+/- 42.0	17.9+/- 23.6

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1940 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	53.4	97	51.7	4	55.1	13	58.0	13	45.4
Cat2	138	55.3	139	52.7	190	57.3	121	59.3	6	47.7
Cat3	12	58.8	26	58.4	35	57.4	7	61.9	2	40.6
Cat4	16	58.8	4	59.3	18	59.8	7	64.3	0	.0
Cat5	6	63.1	2	58.9	4	60.2	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	16	62.5	97	58.2	50	59.9	40	58.3	28	44.5
Cat2	196	62.1	119	57.1	194	58.7	118	57.4	52	45.9
Cat3	15	63.0	20	57.0	25	59.4	5	59.5	1	49.3
Cat4	10	62.2	16	58.9	16	60.2	3	56.6	1	27.2
Cat5	2	64.9	2	56.0	6	68.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.5	405	20.9	57.4	1273	65.6	58.6	148	7.6	59.7	92	4.7	62.0	22	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.133+/-	2.087	37	N VA 102'	.279+/-	1.270
12	N Dasibi CO	2.116+/-	.496	38	S BDT PER	2.017+/-	1.354
13	N TOP PAR	-.090+/-	1.242	39	N VA 74'	-.210+/-	1.053
14	N Dasibi O3	.011+/-	.001	40	S BDT PAR	.095+/-	.763
15	N TOP VER	-.072+/-	1.000	41	N GND PER	1.615+/-	1.246
16	N ND/TECD	*****	*****	42	S BDT VER	.420+/-	.495
17	N BDT PER	3.528+/-	2.156	43	N GND PAR	-1.507+/-	1.403
19	N BDT PAR	-.753+/-	1.127	45	N GND VER	.063+/-	.467
20	N ND2/TECD	*****	*****	49	N Ecolyzer-1	1.594+/-	.115
21	N BDT VER	-.003+/-	1.070	50	S TOP PER	2.308+/-	1.800
22	N ND/TECD	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	7.279+/-	1.849	52	S TOP PAR	.122+/-	.416
24	N THC/Byron	2.513+/-	.111	53	N Ecolyzer-3	1.993+/-	.613
25	N WV 102'	189.348+/-	13.477	54	S TOP VER	.247+/-	.750
26	N NMHC/Byro	2.452+/-	.078	55	N Ecolyzer-4	2.748+/-	.577
27	N Gnd Temp	68.907+/-	3.295	56	S GND PER	.561+/-	.770
28	N CH4/Byron	1.301+/-	.088	57	N Ecolyzer-5	2.878+/-	1.203
29	N WV 74'	162.632+/-	13.110	58	S GND PAR	-.047+/-	.405
30	N CO/Byron	1.322+/-	.277	59	N Rel Hum	89.253+/-	.398
31	N 74' Temp	67.857+/-	3.077	60	S GND VER	-.147+/-	1.177
32	N CO2/Byron	404.006+/-	5.639	61	N Solar Rad	3.315+/-	1.520
35	N HA 74'	6.495+/-	2.577	64	S VA 55'	.415+/-	.890

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.39+/- 2.05	179.5+/- 14.1	2.4+/- 13.6		
02	17 19 21	3.94+/- 2.06	168.1+/- 25.3	6.3+/- 19.0		
03	38 40 42	2.28+/- 1.34	187.0+/- 22.5	14.2+/- 22.7		
04	41 43 45	2.65+/- 1.33	137.9+/- 32.4	2.1+/- 16.8		
05	50 52 54	2.62+/- 1.71	188.8+/- 14.9	4.6+/- 36.2		
06	56 58 60	.74+/- .78	205.7+/- 33.1	23.5+/- 26.0		

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 1901 Vehicles averaging 56.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	52.1	107	51.4	7	56.4	5	58.6	9	46.4
Cat2	130	54.4	151	51.9	185	56.1	138	59.6	2	46.4
Cat3	15	57.2	24	57.0	34	56.6	10	56.6	1	38.1
Cat4	9	60.5	8	56.1	12	56.9	8	60.4	0	.0
Cat5	2	61.7	1	59.6	15	57.9	1	42.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	16	62.4	87	55.6	45	58.3	41	58.3	18	46.3
Cat2	199	62.8	118	57.5	177	58.2	117	58.7	39	45.5
Cat3	18	63.4	16	56.9	20	57.7	7	55.7	3	44.5
Cat4	9	60.1	10	59.7	14	58.8	3	57.9	0	.0
Cat5	7	65.6	2	60.2	5	63.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.3	389	20.5	57.2	1257	66.1	57.3	148	7.8	58.8	73	3.8	60.2	34	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.596+/- 1.690	mph	37	N VA 102'	.158+/- 1.156	mph
12	N Dasibi CD	2.040+/- .472	ppm	38	S BDT PER	2.022+/- 1.248	mph
13	N TDP PAR	-.059+/- 1.064	mph	39	N VA 74'	.040+/- .969	mph
14	N Dasibi D3	.013+/- .003	ppm	40	S BDT PAR	.283+/- .765	mph
15	N TDP VER	.089+/- .862	mph	41	N GND PER	1.464+/- 1.057	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	.362+/- .483	mph
17	N BDT PER	2.580+/- 1.641	mph	43	N GND PAR	-1.648+/- 1.406	mph
19	N BDT PAR	-.471+/- 1.072	mph	45	N GND VER	.141+/- .478	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.561+/- .110	ppm
21	N BDT VER	.080+/- .772	mph	50	S TDP PER	2.969+/- 1.866	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.372+/- 1.685	mph	52	S TDP PAR	.145+/- .087	mph
24	N THC/Byron	2.405+/- .095	ppm	53	N Ecolyzer-3	2.111+/- .595	ppm
25	N WV 102'	173.152+/- 13.806	DEGR AZ	54	S TDP VER	.031+/- .706	mph
26	N NMHC/Byro	2.594+/- .119	ppm	55	N Ecolyzer-4	2.900+/- .570	ppm
27	N Gnd Temp	70.653+/- 2.335	DEGR F	56	S GND PER	.433+/- .669	mph
28	N CH4/Byron	1.332+/- .052	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	165.367+/- 15.375	DEGR AZ	58	S GND PAR	*****+/-*****	ppm
30	N CD/Byron	1.884+/- .243	ppm	59	N Rel Hum	89.855+/- .714	%
31	N 74' Temp	69.741+/- 2.839	DEGR F	60	S GND VER	.063+/- .307	mph
32	N CD2/Byron	399.772+/- 9.623	ppm	61	N Solar Rad	3.134+/- 1.991	W/m**2
35	N HA 74'	5.300+/- 2.044	mph	64	S VA 55'	.137+/- .787	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.87+/- 1.61	181.1+/- 19.5	1.1+/- 16.6		
02	17 19 21	3.00+/- 1.59	173.8+/- 29.0	.1+/- 23.8		
03	38 40 42	2.22+/- 1.28	189.1+/- 14.1	16.4+/- 16.4		
04	41 43 45	2.51+/- 1.33	134.7+/- 31.6	3.7+/- 16.9		
05	50 52 54	3.10+/- 1.58	185.1+/- 11.5	8.8+/- 21.8		
06	56 58 60	.68+/- .81	211.9+/- 33.7	26.3+/- 17.6		

Average for 15 minute period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 1748 Vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	52.7	99	51.9	7	54.6	10	57.6	16	46.2
Cat2	117	55.5	129	52.6	189	58.0	125	60.2	8	43.4
Cat3	16	56.9	22	57.2	27	58.6	12	62.1	1	44.4
Cat4	9	58.8	5	57.5	21	58.1	2	68.7	0	.0
Cat5	1	62.3	0	.0	10	56.9	2	58.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	15	62.1	78	57.2	46	59.2	30	57.2	16	44.4
Cat2	235	64.0	109	58.7	158	60.0	94	58.7	23	45.9
Cat3	10	68.5	11	59.1	13	59.5	2	66.8	4	40.9
Cat4	8	67.9	9	60.1	10	61.8	2	64.4	2	45.0
Cat5	5	69.5	1	55.6	4	64.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.6	352	20.1	58.7	1187	67.9	58.7	118	6.8	60.2	68	3.9	61.4	23	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.166+/- 2.046	mph	37	N VA 102'	.137+/- 1.700	mph
12	N Dasibi CD	1.767+/- .316	ppm	38	S BDT PER	2.275+/- 1.226	mph
13	N TDP PAR	-.619+/- 1.616	mph	39	N VA 74'	-.125+/- 1.138	mph
14	N Dasibi D3	.012+/- .001	ppm	40	S BDT PAR	-.151+/- .999	mph
15	N TDP VER	.123+/- 1.117	mph	41	N GND PER	1.796+/- 1.377	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	.457+/- .489	mph
17	N BDT PER	3.383+/- 1.891	mph	43	N GND PAR	-2.246+/- 1.564	mph
19	N BDT PAR	-1.055+/- 1.581	mph	45	N GND VER	.199+/- .610	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.480+/- .208	ppm
21	N BDT VER	.194+/- .953	mph	50	S TDP PER	3.224+/- 1.717	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.643+/- 2.149	mph	52	S TDP PAR	.151+/- .088	mph
24	N THC/Byron	2.472+/- .100	ppm	53	N Ecolyzer-3	1.952+/- .532	ppm
25	N WV 102'	169.204+/- 12.075	DEGR AZ	54	S TDP VER	.062+/- .838	mph



26	N NMHC/Byron	2.132+/-	.488	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	67.917+/-	2.545	DEGR F	56	S GND PER	.654+/-	.837	mph
28	N CH4/Byron	1.347+/-	.100	ppm	57	N Ecolyzer-5	2.836+/-	.820	ppm
29	N WV 74'	160.891+/-	14.720	DEGR AZ	58	S GND PAR	-.168+/-	.717	mph
30	N CO/Byron	1.612+/-	.237	ppm	59	N Rel Hum	90.604+/-	.420	%
31	N 74' Temp	69.637+/-	3.517	DEGR F	60	S GND VER	.109+/-	.279	mph
32	N CO2/Byron	404.494+/-	6.594	ppm	61	N Solar Rad	2.634+/-	2.400	W/m**2
35	N HA 74'	7.062+/-	2.653	mph	64	S VA 55'	.239+/-	.868	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	5.55+/- 2.09	174.0+/- 16.1	-2.9+/- 13.7		
O2	17 19 21	4.03+/- 1.95	161.8+/- 27.3	6+/- 23.4		
O3	38 40 42	2.58+/- 1.26	179.9+/- 21.9	9.5+/- 18.9		
O4	41 43 45	3.31+/- 1.39	128.1+/- 26.8	4+/- 12.2		
O5	50 52 54	3.36+/- 1.67	185.4+/- 8.4	3.3+/- 21.5		
O6	56 58 60	.95+/- .92	182.1+/- 40.5	19.9+/- 22.4		

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 7767 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	192	53.2	420	51.6	18	55.4	44	58.5	53	45.8
Cat2	549	55.3	567	52.6	755	57.3	540	59.5	31	45.0
Cat3	63	57.5	91	57.3	141	57.5	35	60.4	6	42.3
Cat4	44	59.3	24	58.2	78	58.7	22	62.9	0	.0
Cat5	12	61.8	6	60.2	40	57.9	4	57.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	62.3	359	56.0	191	58.5	158	56.4	90	48.3
Cat2	811	62.9	486	57.4	756	58.6	468	57.8	177	45.4
Cat3	58	63.9	67	56.9	95	58.6	25	59.3	10	43.6
Cat4	41	64.0	50	59.1	54	59.6	12	59.6	4	39.8
Cat5	18	65.9	6	57.2	23	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.2	1595	20.5	57.4	5140	66.2	58.1	591	7.6	59.7	330	4.2	60.5	111	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.712+/- 2.108	mph	37	N VA 102'	.254+/- 1.432	mph
12	N Desib1 CO	2.033+/- .447	ppm	38	S BOT PER	2.144+/- 1.313	mph
13	N TOP PAR	-.440+/- 1.463	mph	39	N VA 74'	-.113+/- 1.085	mph
14	N Desib1 D3	.012+/- .002	ppm	40	S BOT PAR	-.002+/- .864	mph
15	N TOP VER	.069+/- 1.020	ppm	41	N GND PER	1.688+/- 1.206	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	.417+/- .489	mph
17	N BOT PER	3.272+/- 2.051	mph	43	N GND PAR	-1.843+/- 1.533	mph
19	N BOT PAR	-.885+/- 1.370	mph	45	N GND VER	.120+/- .574	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.588+/- .181	ppm
21	N BOT VER	-.109+/- .938	mph	50	S TOP PER	2.922+/- 1.859	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.263+/- 2.130	mph	52	S TOP PAR	.141+/- .218	mph
24	N THC/Byron	2.493+/- .112	ppm	53	N Ecolyzer-3	2.028+/- .600	ppm
25	N WV 102'	169.053+/- 13.672	DEGR AZ	54	S TOP VER	.147+/- .822	mph
26	N NMHC/Byron	2.494+/- .368	ppm	55	N Ecolyzer-4	2.847+/- .575	ppm
27	N Gnd Temp	69.324+/- 3.192	DEGR F	56	S GND PER	.581+/- .807	mph
28	N CH4/Byron	1.336+/- .089	ppm	57	N Ecolyzer-5	2.917+/- 1.410	ppm
29	N WV 74'	161.997+/- 14.393	DEGR AZ	58	S GND PAR	-.093+/- .680	mph
30	N CO/Byron	1.734+/- .395	ppm	59	N Rel Hum	89.448+/- 1.064	%
31	N 74' Temp	68.907+/- 2.999	DEGR F	60	S GND VER	.116+/- .265	mph
32	N CO2/Byron	403.334+/- 7.358	ppm	61	N Solar Rad	3.145+/- 2.046	W/m**2
35	N HA 74'	6.488+/- 2.628	mph	64	S VA 55'	.334+/- .940	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	5.05+/- 2.14	176.3+/- 17.3	6+/- 14.5		
O2	17 19 21	3.80+/- 2.03	165.8+/- 27.3	2.4+/- 21.2		
O3	38 40 42	2.41+/- 1.36	184.8+/- 22.2	13.5+/- 17.9		
O4	41 43 45	2.92+/- 1.38	134.4+/- 30.6	2.7+/- 15.4		
O5	50 52 54	3.11+/- 1.78	186.5+/- 11.8	6.0+/- 27.3		
O6	56 58 60	.88+/- .90	200.5+/- 38.2	21.9+/- 22.8		

19:01:56 -- HAVE PROBLEMS WITH CO-2 ON THE NORTH SIDE (AEOAS)  
 19:04:17 -- END CALIB OF CH 55 NCD-4 MWH  
 19:04:55 -- BEGIN CALIB OF NCD-3 CH 53 GRD  
 19:10:26 -- WILL GET CO-2 UP TOMORROW BUT WILL HAVE A 100 PPM FULL SCALE MWH  
 19:14:25 -- WILL TRY TO PUT CH 51 NCD-2 ONLINE  
 19:15:28 -- END CALIB OF NCD-1 CH 49 MWH  
 18:19:11 -- END CALIBRATION NCD-3  
 19:32:56 -- TURNING ON CH 51: CO-2 ALL VALUES ON THIS PRINTOUT WILL BE HALF OF THE ACTUAL C  
 19:33:08 -- O CONC NEED TO CHANGED SYSTEM.DAT MWH  
 19:52:09 -- BEGINNING SHUTDOWN PROCEDURE MWH  
 19:52:39 -- TURNING OFF (invalidating) BYRON SAMPLES FOR SPAN DRIFT MWH  
 19:53:43 -- BEGIN SHUT DOWN NCD-1

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1592 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	53.1	105	52.0	8	53.2	7	57.3	13	45.8
Cat2	90	55.0	134	53.0	189	58.6	102	59.2	5	43.2
Cat3	16	56.1	12	58.3	36	57.4	2	62.1	2	33.2
Cat4	13	60.0	5	57.7	17	58.7	2	62.6	0	.0
Cat5	4	65.4	0	.0	5	63.3	1	54.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	62.1	80	57.5	44	60.4	34	57.4	13	45.6
Cat2	194	65.4	78	59.0	140	60.6	94	59.0	20	47.7
Cat3	8	63.9	13	59.7	20	61.6	6	56.1	0	.0
Cat4	8	66.4	7	62.6	3	63.7	0	.0	0	.0
Cat5	2	66.4	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	384	24.1	58.9	1026	64.4	58.6	115	7.2	60.9	55	3.5	63.8	12	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.943+/- 1.534	mph	37	N VA 102'	.119+/- 2.178	mph
12	N Dasibi CO	1.759+/- .361	ppm	38	S BOT PER	1.426+/- .882	mph
13	N TOP PAR	-.134+/- 1.125	ppm	39	N VA 74'	.013+/- .877	mph
14	N Dasibi O3	-.011+/- .001	ppm	40	S BOT PAR	.188+/- .556	mph
15	N TOP VER	.150+/- .849	mph	41	N GND PER	1.518+/- .819	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.410+/- .350	mph
17	N BOT PER	2.893+/- 1.504	mph	43	N GND PAR	-1.655+/- 1.442	mph
19	N BOT PAR	-.591+/- 1.199	ppm	45	N GND VER	.149+/- .440	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.129+/- .704	mph	50	S TOP PER	1.954+/- 1.319	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N MA 102'	6.313+/- 1.554	mph	52	S TOP PAR	.149+/- .081	ppm
24	N THC/Byron	2.483+/- .080	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	170.798+/- 13.173	DEGR AZ	54	S TOP VER	.117+/- .633	mph
26	N NMHC/Byro	2.799+/- .132	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	68.777+/- 3.249	DEGR F	56	S GND PER	.311+/- .488	mph
28	N CH4/Byron	1.418+/- .092	ppm	57	N EcoLyzer-5	2.775+/- 1.101	ppm
29	N WV 74'	163.202+/- 15.616	DEGR AZ	58	S GND PAR	.122+/- .389	mph
30	N CO/Byron	1.063+/- .313	ppm	59	N Re1 Hum	91.463+/- .489	%
31	N 74' Temp	69.220+/- 3.192	DEGR F	60	S GND VER	.128+/- .174	mph
32	N CO2/Byron	406.387+/- 5.413	ppm	61	N Solar Rad	6.040+/- 4.518	W/m**2
35	N MA 74'	4.600+/- 3.856	mph	64	S VA 55'	.286+/- .728	mph

UWV Vector Calculations

UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.24+/- 1.49	178.8+/- 19.9	.9+/- 17.8
02	17 19 21	3.34+/- 1.44	171.7+/- 28.7	2.4+/- 19.5
03	38 40 42	1.64+/- .89	183.8+/- 24.5	18.1+/- 18.1
04	41 43 45	2.63+/- 1.03	136.8+/- 32.0	4.4+/- 13.5
05	50 52 54	2.11+/- 1.25	189.8+/- 14.1	5.0+/- 29.4
06	56 58 60	.50+/- .56	214.7+/- 28.1	26.4+/- 23.8

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1480 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	53.7	102	51.6	3	56.1	9	59.0	12	45.3
Cat2	89	55.4	111	53.7	165	58.3	87	60.1	8	42.4
Cat3	8	55.3	11	57.2	29	59.2	10	61.4	1	49.7
Cat4	5	57.4	3	62.3	17	59.7	3	63.3	0	.0
Cat5	2	63.1	1	61.6	2	59.2	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	63.6	71	57.5	49	60.3	26	59.4	13	46.0
Cat2	183	65.0	87	60.2	133	60.2	83	59.9	16	47.8
Cat3	11	64.2	12	60.2	11	60.1	6	53.2	0	.0
Cat4	9	70.2	9	61.6	8	63.2	0	.0	0	.0
Cat5	3	63.8	1	63.7	3	70.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	353	23.9	59.2	962	65.0	59.2	99	6.7	62.4	54	3.6	64.4	12	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.301+/- 1.413	mph	37	N VA 102'	.268+/- 2.301	mph
12	N Dasibi CO	1.995+/- .290	ppm	38	S BOT PER	1.291+/- .790	mph
13	N TOP PAR	-.220+/- 1.028	ppm	39	N VA 74'	.053+/- .714	mph
14	N Dasibi O3	-.011+/- .001	ppm	40	S BOT PAR	.247+/- .431	mph
15	N TOP VER	-.035+/- .743	mph	41	N GND PER	1.163+/- 1.087	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.349+/- .394	mph
17	N BOT PER	2.177+/- 1.481	mph	43	N GND PAR	-.999+/- 1.166	mph
19	N BOT PAR	-.070+/- .830	ppm	45	N GND VER	-.178+/- .434	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.749+/- .160	ppm
21	N BOT VER	-.044+/- .596	mph	50	S TOP PER	1.867+/- 1.250	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N MA 102'	5.523+/- 1.426	mph	52	S TOP PAR	.151+/- .083	ppm
24	N THC/Byron	2.547+/- .149	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	178.094+/- 10.855	DEGR AZ	54	S TOP VER	.209+/- .583	mph
26	N NMHC/Byro	2.477+/- .156	ppm	55	N EcoLyzer-4	2.802+/- .542	ppm

27	N Gnd Temp	67.579+/-	2.769	DEGR F	56	S GND PER	.234+/-	.339	mph
28	N CH4/Byron	1.409+/-	.102	ppm	57	N EcoLyzer-5	2.534+/-	1.102	ppm
29	N WV 74'	166.895+/-	14.370	DEGR AZ	58	S GND PAR	.118+/-	.153	mph
30	N CD/Byron	1.358+/-	.198	ppm	59	N Rel Hum	92.085+/-	.606	%
31	N 74' Temp	68.234+/-	3.872	DEGR F	60	S GND VER	.128+/-	.083	mph
32	N CO2/Byron	398.469+/-	11.453	ppm	61	N Solar Rad	6.674+/-	7.308	W/m**2
35	N HA 74'	2.709+/-	4.257	mph	64	S VA 55'	.262+/-	.592	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	3.54+/- 1.39	184.5+/-	18.9	3.5+/-	12.6	
02	17	19	21	2.45+/- 1.36	177.8+/-	31.0	1.5+/-	18.2	
03	38	40	42	1.50+/- .77	194.9+/-	23.3	20.7+/-	20.1	
04	41	43	45	2.04+/- .96	138.0+/-	41.2	5.0+/-	16.9	
05	50	52	54	2.01+/- 1.20	191.6+/-	16.6	5.9+/-	27.7	
06	56	58	60	.36+/- .32	217.4+/-	27.4	27.3+/-	16.5	

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1342 vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	52.8	83	52.4	4	50.9	13	58.2	6	46.6
Cat2	69	54.1	97	54.2	156	58.0	96	59.5	6	42.2
Cat3	13	53.9	14	58.2	32	58.1	3	54.0	0	.0
Cat4	4	62.2	3	58.2	9	61.6	2	60.2	0	.0
Cat5	0	.0	0	.0	2	58.9	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	63.1	65	56.9	46	61.1	33	57.4	12	45.0
Cat2	179	64.0	77	60.2	100	59.7	73	60.3	13	46.1
Cat3	8	65.2	13	59.8	9	59.1	2	60.0	1	38.6
Cat4	5	67.3	2	61.4	6	60.8	1	69.8	0	.0
Cat5	1	72.5	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	346	25.8	59.0	866	64.5	58.2	95	7.1	62.3	32	2.4	63.4	3	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.763+/- 1.422	mph	37	N VA 102'	.546+/- 2.226	mph
12	N Dasibi CO	1.905+/- .346	ppm	38	S BDT PER	.873+/- .626	mph
13	N TDP PAR	.191+/- .921	mph	39	N VA 74'	.014+/- .670	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BDT PAR	.146+/- .271	mph
15	N TDP VER	.072+/- .668	mph	41	N GND PER	1.122+/- .990	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.420+/- .288	mph
17	N BDT PER	1.951+/- 1.158	mph	43	N GND PAR	-1.439+/- .999	mph
19	N BDT PAR	-.176+/- .843	mph	45	N GND VER	.154+/- .270	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.771+/- .169	ppm
21	N BDT VER	.050+/- .509	mph	50	S TDP PER	.971+/- .995	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	2.865+/- .283	ppm
23	N HA 102'	4.831+/- 1.320	mph	52	S TDP PAR	.132+/- .078	mph
24	N THC/Byron	2.721+/- .075	ppm	53	N EcoLyzer-3	2.112+/- .657	ppm
25	N WV 102'	177.083+/- 12.171	DEGR AZ	54	S TDP VER	.153+/- .376	mph
26	N NMHC/Byro	2.737+/- .130	ppm	55	N EcoLyzer-4	2.922+/- .854	ppm
27	N Gnd Temp	67.422+/- 1.610	DEGR F	56	S GND PER	.212+/- .290	mph
28	N CH4/Byron	1.563+/- .046	ppm	57	N EcoLyzer-5	2.912+/- 1.066	ppm
29	N WV 74'	170.738+/- 14.017	DEGR AZ	58	S GND PAR	.106+/- .207	mph
30	N CD/Byron	1.773+/- .188	ppm	59	N Rel Hum	92.477+/- .522	%
31	N 74' Temp	68.569+/- 2.970	DEGR F	60	S GND VER	.111+/- .157	mph
32	N CO2/Byron	411.171+/- 6.744	ppm	61	N Solar Rad	8.992+/- 5.215	W/m**2
35	N HA 74'	3.311+/- 4.501	mph	64	S VA 55'	.271+/- .483	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	3.08+/- 1.29	187.7+/-	25.8	6.5+/-	20.7	
02	17	19	21	2.28+/- 1.03	174.4+/-	32.0	1.1+/-	22.8	
03	38	40	42	1.11+/- .62	193.8+/-	18.9	25.7+/-	25.4	
04	41	43	45	2.18+/- .98	128.7+/-	31.8	7.7+/-	17.5	
05	50	52	54	1.22+/- 1.01	202.9+/-	25.0	17.9+/-	37.9	
06	56	58	60	.33+/- .31	218.2+/-	24.2	27.9+/-	18.9	

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1186 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	52.0	67	51.1	10	56.0	9	58.3	9	42.9
Cat2	61	55.0	88	52.9	158	57.5	82	60.9	5	43.1
Cat3	7	51.9	13	55.7	15	57.4	2	55.8	0	.0
Cat4	2	58.7	4	54.3	8	62.0	5	57.5	0	.0
Cat5	1	57.1	2	57.5	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	63.8	61	58.0	59	60.8	30	56.9	12	46.5
Cat2	158	64.9	47	59.2	106	61.0	60	59.8	12	46.8
Cat3	8	65.1	12	60.6	10	62.6	5	63.4	0	.0
Cat4	4	62.4	2	63.8	5	64.0	1	54.5	0	.0
Cat5	2	73.1	0	.0	2	65.2	1	55.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	318	26.8	59.3	757	63.8	59.1	72	6.1	60.3	31	2.6	63.0	8	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.446+/- 1.287	mph	37	N VA 102'	.421+/- 2.470	mph
12	N Dasibi CO	2.142+/- .442	ppm	38	S BDT PER	1.028+/- .704	mph
13	N TDP PAR	.044+/- .924	mph	39	N VA 74'	.091+/- .612	mph
14	N Dasibi O3	.011+/- .002	ppm	40	S BDT PAR	.081+/- .381	mph
15	N TDP VER	.168+/- .653	mph	41	N GND PER	1.157+/- .991	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.463+/- .400	mph
17	N BDT PER	1.619+/- 1.011	mph	43	N GND PAR	-1.485+/- 1.292	mph

19	N BOT PAR	- .522+/-	.820	ppm	45	N GND VER	.141+/-	.346	ppm
20	N ND2/TECD	*****	*****	ppm	49	N Ecolyzer-1	*****	*****	ppm
21	N BOT VER	1.58+/-	.326	ppm	50	S TOP PER	1.272+/-	1.044	ppm
22	N ND/TECD	*****	*****	ppm	51	N Ecolyzer-2	2.748+/-	.284	ppm
23	N HA 102'	5.018+/-	1.571	ppm	52	S TOP PAR	.119+/-	.083	ppm
24	N THC/Byron	*****	*****	ppm	53	N Ecolyzer-3	2.255+/-	.587	ppm
25	N WV 102'	173.354+/-	11.633	DEGR AZ	54	S TOP VER	.141+/-	.335	ppm
26	N NMHC/Byro	*****	*****	ppm	55	N Ecolyzer-4	3.070+/-	.553	ppm
27	N Gnd Temp	67.474+/-	2.399	DEGR F	56	S GND PER	1.221+/-	.337	ppm
28	N CD4/Byron	*****	*****	ppm	57	N Ecolyzer-5	3.027+/-	.973	ppm
29	N WV 74'	166.478+/-	15.788	DEGR AZ	58	S GND PAR	.085+/-	.257	ppm
30	N CD/Byron	*****	*****	ppm	59	N Rel Hum	92.835+/-	.595	ppm
31	N 74' Temp	67.422+/-	3.410	DEGR F	60	S GND VER	.134+/-	.082	ppm
32	N CD2/Byron	*****	*****	ppm	61	N Solar Rad	7.812+/-	4.346	W/m**2
35	N HA 74'	3.002+/-	4.951	ppm	84	S VA 55'	.229+/-	.392	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.77+/- 1.11	187.3+/- 28.5	-3.2+/- 20.9		
02	17 19 21	2.00+/- .94	166.6+/- 31.7	-2.1+/- 25.7		
03	38 40 42	1.21+/- .70	191.7+/- 21.7	19.6+/- 24.3		
04	41 43 45	2.22+/- 1.17	127.2+/- 38.9	5.9+/- 15.9		
05	50 52 54	1.45+/- .95	196.2+/- 25.5	11.3+/- 31.9		
06	55 58 60	.36+/- .36	217.2+/- 28.9	29.6+/- 16.4		

Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 5800 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	190	52.9	357	51.8	25	54.3	38	58.1	40	44.5
Cat2	309	54.9	410	53.5	848	58.1	367	59.9	24	42.6
Cat3	44	55.3	50	57.4	112	58.0	17	59.5	3	38.7
Cat4	24	59.7	15	57.8	51	60.1	12	60.3	0	0
Cat5	7	63.8	3	58.9	9	61.4	1	54.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	103	63.1	277	57.5	198	60.7	123	58.2	50	45.8
Cat2	714	64.8	289	59.7	479	60.4	310	59.7	81	47.2
Cat3	35	64.8	50	60.1	50	61.0	19	57.5	1	38.6
Cat4	26	67.3	20	62.1	22	62.8	2	62.2	0	0
Cat5	8	67.8	1	63.7	5	68.3	1	55.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	1401	25.0	59.1	3811	64.5	58.7	381	6.8	61.5	172	3.1	63.8	38	0.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.113+/- 1.517	ppm	37	N VA 102'	.338+/- 2.288	ppm
12	N Dasibi CO	1.950+/- .389	ppm	38	N BOT PER	1.155+/- .787	ppm
13	N TOP PAR	.080+/- 1.009	ppm	39	N VA 74'	.043+/- .725	ppm
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.185+/- .425	ppm
15	N TOP VER	.108+/- .733	ppm	41	N GND PER	1.240+/- .988	ppm
16	N ND/TECD	*****	ppm	42	S BOT VER	.410+/- .362	ppm
17	N BOT PER	2.161+/- 1.383	ppm	43	N GND PAR	-1.395+/- 1.255	ppm
18	N BOT PAR	-.340+/- .959	ppm	44	N GND VER	.155+/- .378	ppm
19	N ND2/TECD	*****	ppm	45	N Ecolyzer-1	*****	ppm
20	N BOT VER	.073+/- .556	ppm	49	S TOP PER	1.516+/- 1.226	ppm
21	N ND/TECD	*****	ppm	50	N Ecolyzer-2	*****	ppm
22	N HA 102'	5.421+/- 1.574	ppm	51	S TOP PAR	.138+/- .082	ppm
23	N THC/Byron	2.613+/- .153	ppm	52	N Ecolyzer-3	2.126+/- .629	ppm
24	N WV 102'	174.338+/- 12.157	DEGR AZ	53	S TOP VER	.155+/- .499	ppm
25	N NMHC/Byro	2.707+/- .204	ppm	54	N Ecolyzer-4	2.756+/- .565	ppm
26	N Gnd Temp	67.813+/- 2.566	DEGR F	55	S GND PER	2.246+/- .372	ppm
27	N CD4/Byron	1.493+/- .129	ppm	56	N Ecolyzer-5	2.812+/- 1.082	ppm
28	N WV 74'	166.788+/- 15.158	DEGR AZ	57	S GND PAR	.107+/- .266	ppm
29	N CD/Byron	1.430+/- .356	ppm	58	N Rel Hum	92.220+/- .737	ppm
30	N 74' Temp	68.388+/- 3.354	DEGR F	59	S GND VER	.125+/- .131	ppm
31	N CD2/Byron	406.782+/- 9.850	ppm	60	N Solar Rad	7.880+/- 5.458	W/m**2
32	N HA 74'	3.405+/- 4.450	ppm	61	S VA 55'	.262+/- .582	ppm
35				84			

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.41+/- 1.43	184.5+/- 23.8	1.9+/- 18.6		
02	17 19 21	2.52+/- 1.31	172.8+/- 30.5	.4+/- 21.7		
03	38 40 42	1.37+/- .78	193.8+/- 22.2	21.3+/- 22.2		
04	41 43 45	2.26+/- 1.06	132.8+/- 36.4	5.8+/- 16.0		
05	50 52 54	1.70+/- 1.17	194.9+/- 21.4	10.0+/- 32.2		
06	55 58 60	.39+/- .41	216.9+/- 27.1	27.8+/- 19.1		

20:02:30 -- SHUT DOWN NCO-1 COMPLETE  
 20:07:33 -- BEGIN SHUTDOWN NCO-2  
 20:10:41 -- BEGIN SHUTTING DOWN CH 53 NCO-3 MWH  
 20:15:00 -- END SPAN ON CH 51  
 20:15:08 -- BEGIN CHECK OF CH 55  
 20:17:16 -- END CHECK OF CH 53 NCO-3 MWH MWH  
 20:19:25 -- BEGIN CHECK OF CH 57 NCO-5 MWH MWH  
 20:22:17 -- END CHECK OF CH 55 NCO-4 MWH MWH  
 20:27:09 -- END ECDLYZER CHECKS

Average for 15 minute period ending at 20:15:00  
 Traffic Data  
 Total Traffic = 1069 Vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	51.3	78	52.7	0	0	5	63.1	13	44.2
Cat2	52	52.9	60	54.5	134	58.8	75	60.2	2	40.3
Cat3	2	54.9	18	57.3	23	58.7	1	56.6	1	51.1
Cat4	1	56.8	4	59.6	7	62.8	2	61.0	1	33.0
Cat5	0	.0	0	.0	1	60.9	1	52.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	14	64.3	56	58.1	42	61.7	25	58.4	5	43.6
Cat2	144	66.0	49	59.2	104	61.1	56	60.1	18	47.3
Cat3	4	66.9	5	62.1	9	65.1	3	61.4	0	.0
Cat4	2	64.4	2	61.2	1	58.9	0	.0	0	.0
Cat5	3	67.3	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	284	26.6	59.7	694	64.9	59.8	66	6.2	60.0	20	1.9	63.1	5	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.763+/-	1.142	37	N VA 102'	.468+/-	2.246
12	N Dasibi CO	2.236+/-	.338	38	S BOT PER	.592+/-	.547
13	N TOP PAR	-.280+/-	.789	39	N VA 74'	.030+/-	.643
14	N Dasibi O3	.011+/-	.002	40	S BOT PAR	.160+/-	.128
15	N TOP VER	.095+/-	.601	41	N GND PER	.987+/-	.746
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.357+/-	.377
17	N BOT PER	1.722+/-	.966	43	N GND PAR	-1.871+/-	.861
18	N BOT PAR	-.543+/-	.751	45	N GND VER	.155+/-	.267
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.123+/-	.348	50	S TOP PER	.836+/-	.670
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	4.975+/-	1.412	52	S TOP PAR	.136+/-	.100
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	2.167+/-	.647
25	N WV 102'	169.340+/-	9.780	54	S TOP VER	1.129+/-	.301
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	3.059+/-	.591
27	N Gnd Temp	67.579+/-	1.594	56	S GND PER	.147+/-	.067
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	2.985+/-	.960
29	N WV 74'	161.631+/-	12.823	58	S GND PAR	.129+/-	.057
30	N CO/Byron	*****+/-*****		59	N Rel Hum	93.670+/-	.443
31	N 74' Temp	64.765+/-	3.729	60	S GND VER	.148+/-	.083
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	10.854+/-	6.377
35	N HA 74'	2.909+/-	3.485	64	S VA 55'	.211+/-	.291

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.97+/- 1.08	174.7+/- 18.9	3+/- 16.4
02	17 18 21	2.03+/- .87	161.4+/- 28.6	2.9+/- 13.2
03	38 40 42	.88+/- .49	206.2+/- 34.1	26.8+/- 29.7
04	41 43 45	2.28+/- .82	118.4+/- 24.1	4.5+/- 8.3
05	50 52 54	.97+/- .81	204.1+/- 26.7	14.9+/- 32.5
06	56 58 60	.26+/- .07	222.5+/- 19.2	34.0+/- 18.2

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic = 1007 Vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	49.9	64	52.6	3	52.0	5	59.0	5	43.8
Cat2	47	53.0	84	53.3	148	58.3	72	61.4	1	50.4
Cat3	3	55.5	14	56.0	17	57.9	3	59.9	0	.0
Cat4	0	.0	4	59.3	4	59.4	1	47.8	0	.0
Cat5	3	64.0	0	.0	1	64.5	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	11	65.9	61	58.3	42	60.3	26	58.9	7	46.0
Cat2	134	65.9	55	61.1	91	59.6	32	58.8	9	47.8
Cat3	7	68.0	8	60.2	7	61.6	1	57.0	0	.0
Cat4	4	66.4	1	60.1	2	54.7	0	.0	0	.0
Cat5	1	73.9	0	.0	1	82.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	266	26.6	59.6	653	65.2	59.1	80	8.0	59.9	16	1.6	65.5	6	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.069+/-	1.081	37	N VA 102'	.091+/-	2.386
12	N Dasibi CO	2.072+/-	.443	38	S BOT PER	.961+/-	.658
13	N TOP PAR	-.297+/-	.811	39	N VA 74'	.151+/-	.529
14	N Dasibi O3	.011+/-	.002	40	S BOT PAR	.183+/-	.174
15	N TOP VER	.214+/-	.523	41	N GND PER	1.275+/-	.846
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.358+/-	.362
17	N BOT PER	1.518+/-	.963	43	N GND PAR	-1.625+/-	1.259
18	N BOT PAR	-.670+/-	.723	45	N GND VER	.137+/-	.278
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.224+/-	.326	50	S TOP PER	1.061+/-	.880
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	4.421+/-	1.429	52	S TOP PAR	.144+/-	.084
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	*****+/-*****	
25	N WV 102'	169.811+/-	10.895	54	S TOP VER	.163+/-	.263
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	*****+/-*****	
27	N Gnd Temp	66.250+/-	2.537	56	S GND PER	.138+/-	.069
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****	
29	N WV 74'	160.321+/-	15.098	58	S GND PAR	.120+/-	.086

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	93.731+/-	.559	%
31	N 74' Temp	64.713+/- 3.850	DEGR F	60	S GND VER	.129+/-	.080	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	6.585+/-	3.911	W/m**2
35	N HA 74'	2.190+/- 4.451	mph	64	S VA 55'	.242+/-	.250	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.38+/- .98	172.5+/- 28.1	5.4+/- 22.3
02	17 19 21	1.86+/- .94	155.6+/- 25.6	8.2+/- 17.2
03	38 40 42	1.16+/- .56	197.8+/- 29.2	19.4+/- 21.4
04	41 43 45	2.30+/- 1.16	131.1+/- 33.7	7.4+/- 15.2
05	50 52 54	1.18+/- .81	200.2+/- 25.8	12.2+/- 30.2
06	56 58 60	.26+/- .08	223.4+/- 19.6	35.4+/- 17.6

Average for 15 minute period ending at 20:45:00  
Traffic Data  
 Total Traffic = 1033 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	51.7	94	51.9	3	54.9	8	59.9	5	44.0
Cat2	48	52.5	54	54.0	148	57.9	72	60.1	2	44.5
Cat3	1	55.3	9	59.5	18	56.6	2	57.8	1	38.0
Cat4	2	55.8	0	.0	6	59.4	0	.0	0	.0
Cat5	1	60.6	1	73.4	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	14	64.5	46	58.9	42	60.0	23	57.6	6	43.8
Cat2	147	64.7	58	60.3	80	60.3	53	59.7	11	47.9
Cat3	7	68.7	9	62.0	6	60.9	1	62.8	0	.0
Cat4	6	66.8	2	61.2	3	66.0	0	.0	0	.0
Cat5	0	.0	0	.0	2	67.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	283	27.4	59.4	673	65.2	59.8	54	5.2	62.6	19	1.8	67.2	4	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.417+/- 1.133	mph	37	N VA 102'	.406+/- 1.917	mph
12	N Dasibi CO	1.668+/- .273	ppm	38	S BOT PER	1.011+/- .728	mph
13	N TOP PAR	-.081+/- .835	mph	39	N VA 74'	.085+/- .607	mph
14	N Dasibi O3	.010+/- .001	ppm	40	S BOT PAR	.155+/- .133	mph
15	N TOP VER	.037+/- .648	mph	41	N GND PER	.919+/- .752	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.414+/- .451	mph
17	N BOT PER	1.680+/- .948	mph	43	N GND PAR	-.893+/- 1.085	mph
19	N BOT PAR	-.093+/- .700	mph	45	N GND VER	.162+/- .256	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.152+/- .403	mph	50	S TOP PER	1.253+/- 1.177	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	*****+/-*****	ppm
23	N HA 102'	4.568+/- 1.313	mph	52	S TOP PAR	.149+/- .091	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzr-3	*****+/-*****	ppm
25	N WV 102'	172.988+/- 12.340	DEGR AZ	54	S TOP VER	.043+/- .419	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzr-4	*****+/-*****	ppm
27	N Gnd Temp	67.839+/- 3.836	DEGR F	56	S GND PER	.168+/- .176	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
29	N WV 74'	187.185+/- 15.291	DEGR AZ	58	S GND PAR	.113+/- .110	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	93.747+/- .712	%
31	N 74' Temp	65.442+/- 3.200	DEGR F	60	S GND VER	.135+/- .088	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	10.945+/- 6.731	W/m**2
35	N HA 74'	1.989+/- 3.730	mph	64	S VA 55'	.127+/- .438	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.63+/- 1.09	177.9+/- 24.7	1.9+/- 13.6
02	17 19 21	1.89+/- .89	178.1+/- 28.4	8.0+/- 14.0
03	38 40 42	1.17+/- .65	198.0+/- 26.0	20.5+/- 24.5
04	41 43 45	1.63+/- .88	138.8+/- 40.9	7.5+/- 20.2
05	50 52 54	1.36+/- 1.12	202.2+/- 28.4	14.8+/- 25.9
06	56 58 60	.27+/- .15	219.0+/- 26.7	27.0+/- 17.8

Average for 15 minute period ending at 21:00:00  
Traffic Data  
 Total Traffic = 944 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	51.1	78	52.8	2	56.1	3	58.5	7	44.4
Cat2	42	52.9	64	53.3	118	57.8	51	61.0	6	43.4
Cat3	3	54.3	7	60.3	12	58.4	2	64.3	0	.0
Cat4	0	.0	0	.0	3	58.0	1	58.9	0	.0
Cat5	0	.0	0	.0	1	55.5	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	63.7	46	58.2	46	60.3	28	58.2	6	49.2
Cat2	117	65.2	49	60.6	93	60.8	47	59.5	10	47.3
Cat3	5	67.7	8	62.9	2	62.4	2	56.5	3	47.2
Cat4	6	66.5	1	63.2	6	63.1	0	.0	0	.0
Cat5	1	71.1	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	284	30.1	59.2	597	63.2	59.8	44	4.7	63.1	17	1.8	63.3	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.949+/- 1.197	mph	37	N VA 102'	.471+/- 2.195	mph
12	N Dasibi CO	1.677+/- .246	ppm	38	S BOT PER	.648+/- .690	mph
13	N TOP PAR	.631+/- .877	mph	39	N VA 74'	.097+/- .555	mph
14	N Dasibi O3	.010+/- .001	ppm	40	S BOT PAR	.259+/- .256	mph
15	N TOP VER	.102+/- .527	mph	41	N GND PER	.862+/- .792	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.407+/- .443	mph
17	N BOT PER	1.554+/- 1.034	mph	43	N GND PAR	-.254+/- .832	mph
19	N BOT PAR	.212+/- .458	mph	45	N GND VER	.150+/- .264	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.113+/- .294	mph	50	S TOP PER	.920+/- 1.028	mph

22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.307+/- 1.216	mph	52	S TOP PAR	.141+/- .083	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	182.880+/- 12.889	DEGR AZ	54	S TOP VER	.123+/- .394	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	68.543+/- 1.895	DEGR F	56	S GND PER	.144+/- .069	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	177.001+/- 14.614	DEGR AZ	58	S GND PAR	.108+/- .090	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	94.056+/- .521	%
31	N 74' Temp	65.536+/- 4.177	DEGR F	60	S GND VER	.165+/- .126	ppm
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	7.448+/- 4.368	W/m**2
35	N HA 74'	2.421+/- 3.961	mph	64	S VA 55'	.171+/- .391	ppm

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.31+/-	1.05	203.3+/-	25.7	9.4+/- 18.4
02	17 19 21	1.72+/-	.96	191.8+/-	27.8	9.8+/- 15.1
03	38 40 42	.99+/-	.62	212.8+/-	33.9	29.1+/- 26.6
04	41 43 45	1.33+/-	.68	165.7+/-	45.6	7.4+/- 19.3
05	50 52 54	1.05+/-	.97	204.6+/-	24.4	22.6+/- 26.9
06	56 58 60	.26+/-	.07	219.1+/-	24.2	36.1+/- 18.2

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 4047 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	174	51.0	314	52.5	8	54.1	21	60.3	30	44.2
Cat2	189	52.8	242	53.8	548	58.2	270	60.7	11	43.7
Cat3	9	54.9	48	57.8	70	57.9	8	60.1	2	44.5
Cat4	3	56.1	8	59.4	20	60.4	4	57.2	1	33.0
Cat5	4	63.2	1	73.4	3	60.3	1	52.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	54.4	209	58.4	172	60.6	102	58.3	24	45.8
Cat2	542	65.4	211	60.3	368	60.5	188	59.6	48	47.5
Cat3	23	67.3	30	61.8	24	62.8	7	59.6	3	47.2
Cat4	18	66.4	6	61.3	12	62.0	0	.0	0	.0
Cat5	5	69.4	0	.0	3	85.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	1117	27.6	59.5	2617	64.7	59.6	224	5.5	61.4	72	1.8	65.0	17	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.300+/- 1.180	mph	37	N VA 102'	.359+/- 2.194	ppm
12	N Dasibi CD	1.913+/- .416	ppm	38	S BDT PER	.803+/- .882	ppm
13	N TOP PAR	-.007+/- .866	ppm	39	N VA 74'	.088+/- .586	ppm
14	N Dasibi O3	.011+/- .001	ppm	40	S BDT PAR	.184+/- .184	ppm
15	N TOP VER	.112+/- .579	ppm	41	N GND PER	1.011+/- .798	ppm
16	N NDx/TECD	*****+/-*****	ppm	42	S BDT VER	.384+/- .410	ppm
17	N BDT PER	1.619+/- .978	ppm	43	N GND PAR	-1.161+/- 1.187	ppm
19	N BDT PAR	-.273+/- .753	ppm	45	N GND VER	.151+/- .286	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.153+/- .347	ppm	50	S TOP PER	1.018+/- 1.004	ppm
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.588+/- 1.363	mph	52	S TOP PAR	.142+/- .089	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	173.727+/- 12.680	DEGR AZ	54	S TOP VER	.115+/- .352	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	67.553+/- 2.679	DEGR F	56	S GND PER	.149+/- .106	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	166.513+/- 15.784	DEGR AZ	58	S GND PAR	.117+/- .068	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	93.751+/- .587	%
31	N 74' Temp	65.384+/- 3.734	DEGR F	60	S GND VER	.144+/- .097	ppm
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	8.958+/- 5.704	W/m**2
35	N HA 74'	2.377+/- 3.922	mph	64	S VA 55'	.188+/- .352	ppm

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.57+/-	1.08	182.0+/-	26.9	4.2+/- 18.2
02	17 19 21	1.88+/-	.92	171.6+/-	30.2	7.2+/- 15.1
03	38 40 42	1.05+/-	.68	202.9+/-	31.4	24.4+/- 26.0
04	41 43 45	1.88+/-	.99	135.8+/-	39.3	6.7+/- 16.4
05	50 52 54	1.14+/-	.95	202.8+/-	25.8	16.1+/- 29.1
06	56 58 60	.26+/-	.10	221.0+/-	22.6	33.1+/- 18.2

Average for 15 minute period ending at 21:15:00

Traffic Data

Total Traffic = 1037 vehicles averaging 58.7 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows include Spd., Total, and %.

Regular Channels

Main table for Regular Channels with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their values.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg Az, Elevation Angle (Deg).

Average for 15 minute period ending at 21:30:00

Traffic Data

Total Traffic = 987 vehicles averaging 58.3 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows include Spd., Total, and %.

Regular Channels

Main table for Regular Channels with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their values.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg Az, Elevation Angle (Deg).



01	11	13	15	1.71+/-	.78	189.7+/-	40.9	8.5+/-	23.6
02	17	19	21	1.58+/-	.72	179.2+/-	42.3	4.0+/-	14.4
03	38	40	42	.98+/-	.58	200.5+/-	22.7	24.4+/-	27.7
04	41	43	45	2.11+/-	1.14	137.1+/-	36.0	4.6+/-	12.2
05	50	52	54	.50+/-	.48	218.9+/-	26.9	25.7+/-	24.7
06	56	58	60	.26+/-	.08	223.5+/-	19.9	27.7+/-	20.2

Average for 15 minute period ending at 21:45:00  
 Traffic Data  
 Total Traffic = 975 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	51.0	90	52.1	3	53.4	11	59.1	8	44.8
Cat2	39	51.2	51	53.7	122	58.1	61	60.2	0	.0
Cat3	3	80.1	8	56.3	20	60.2	2	49.1	0	.0
Cat4	1	59.6	3	55.7	5	58.8	2	53.4	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	65.1	54	58.9	50	61.4	26	59.1	11	47.6
Cat2	130	57.0	53	60.5	84	60.6	37	60.5	10	47.2
Cat3	9	69.2	2	68.8	4	80.4	0	.0	0	.0
Cat4	2	68.8	6	60.1	2	62.9	1	59.0	0	.0
Cat5	0	.0	1	59.1	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	317	32.5	60.0	587	60.2	61.1	48	4.9	60.5	22	2.3	59.1	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.174+/- .974	mph	37	N VA 102'	.221+/- 1.858	mph
12	N Dasibi CO	2.408+/- .305	ppm	38	S BOT PER	.441+/- .291	mph
13	N TOP PAR	.118+/- .599	mph	39	N VA 74'	.141+/- .460	mph
14	N Dasibi O3	.012+/- .001	ppm	40	S BOT PAR	.172+/- .135	mph
15	N TOP VER	.156+/- .431	mph	41	N GND PER	1.080+/- .769	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.330+/- .460	mph
17	N BOT PER	1.405+/- .843	mph	43	N GND PAR	-1.359+/- .982	mph
19	N BOT PAR	-.339+/- .660	mph	45	N GND VER	.152+/- .248	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.094+/- .309	mph	50	S TOP PER	.818+/- .525	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	5.058+/- 1.227	ppm	52	S TOP PAR	.134+/- .075	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	169.970+/- 5.477	DEGR A2	54	S TOP VER	.150+/- .133	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	66.015+/- 2.552	DEGR F	56	S GND PER	.143+/- .060	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	159.049+/- 8.390	DEGR A2	58	S GND PAR	.135+/- .071	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	95.147+/- .467	%
31	N 74' Temp	65.077+/- 3.215	DEGR F	60	S GND VER	.132+/- .085	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	10.718+/- 7.193	W/m**2
35	N HA 74'	2.619+/- 4.288	mph	64	S VA 55'	.197+/- .203	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	2.33+/- .92	178.6+/- 20.1	7.1+/- 18.8
02	17 19 21	1.65+/- .78	189.0+/- 33.7	10.6+/- 15.8
03	38 40 42	.71+/- .27	206.0+/- 24.3	19.7+/- 39.8
04	41 43 45	1.84+/- .93	129.4+/- 27.5	6.2+/- 12.3
05	50 52 54	.59+/- .58	220.7+/- 29.8	28.3+/- 29.3
06	56 58 60	.27+/- .07	222.0+/- 20.6	35.2+/- 17.6

Average for 15 minute period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 656 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	49.6	81	52.1	3	56.9	6	60.1	5	40.7
Cat2	25	51.1	46	53.4	122	57.5	45	59.1	2	38.8
Cat3	5	52.8	7	55.7	10	56.5	1	57.9	0	.0
Cat4	1	54.0	4	54.1	4	62.2	2	60.3	0	.0
Cat5	0	.0	1	63.8	1	63.9	1	64.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	19	68.1	51	58.2	47	61.4	22	60.8	6	47.8
Cat2	127	65.4	33	61.5	62	63.0	44	61.4	7	45.8
Cat3	4	68.7	5	68.3	6	63.1	4	61.8	0	.0
Cat4	5	68.8	2	61.7	1	62.9	1	64.1	0	.0
Cat5	1	64.7	0	.0	2	65.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	277	32.3	60.2	513	59.8	59.8	42	4.9	61.7	20	2.3	64.7	6	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.108+/- .939	mph	37	N VA 102'	.317+/- 1.854	mph
12	N Dasibi CO	2.371+/- .215	ppm	38	S BOT PER	.330+/- .332	mph
13	N TOP PAR	.582+/- .845	mph	39	N VA 74'	.147+/- .471	mph
14	N Dasibi O3	.012+/- .001	ppm	40	S BOT PAR	.175+/- .124	mph
15	N TOP VER	.073+/- .467	mph	41	N GND PER	.770+/- .721	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	1.063+/- .634	mph
17	N BOT PER	1.445+/- .709	mph	43	N GND PAR	-.787+/- .766	mph
19	N BOT PAR	.129+/- .436	mph	45	N GND VER	.185+/- .219	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.104+/- .298	mph	50	S TOP PER	.701+/- .681	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	5.089+/- 1.183	ppm	52	S TOP PAR	.141+/- .079	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	181.587+/- 6.357	DEGR A2	54	S TOP VER	.171+/- .201	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	65.572+/- 2.302	DEGR F	56	S GND PER	.148+/- .072	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	174.107+/- 11.330	DEGR A2	58	S GND PAR	.118+/- .066	mph

30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	95.786+/-	.492	%
31	N 74' Temp	64.530+/- 3.289	DEGR F	60	S GND VER	.141+/-	.090	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	14.579+/-	9.992	W/m <sup>2</sup>
35	N HA 74'	2.847+/- 4.215	mph	64	S VA 55'	.277+/-	.196	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)
01	11	13	15	2.34+/-	.84	197.2+/-	20.9	4.1+/- 13.2
02	17	19	21	1.57+/-	.68	186.5+/-	21.9	8.6+/- 12.7
03	38	40	42	.63+/-	.30	216.4+/-	28.0	25.8+/- 36.4
04	41	43	45	1.38+/-	.72	135.8+/-	38.3	10.1+/- 16.1
05	50	52	54	.80+/-	.62	207.5+/-	28.1	24.1+/- 22.6
06	56	58	60	.27+/-	.07	218.7+/-	22.8	36.3+/- 19.6

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 3857 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	143	50.4	328	52.2	11	54.8	31	60.2	27	44.0
Cat2	152	51.6	217	53.6	463	58.1	229	58.6	14	41.8
Cat3	18	55.0	31	55.3	54	57.9	8	57.0	1	41.6
Cat4	4	56.8	12	55.8	23	59.3	6	64.8	0	.0
Cat5	0	.0	1	63.8	7	58.4	1	64.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	100	64.6	240	58.3	197	61.1	103	59.5	39	46.9
Cat2	539	66.0	188	60.8	306	61.2	173	61.1	35	47.9
Cat3	21	67.0	19	64.1	24	61.8	6	57.7	0	.0
Cat4	22	67.3	13	58.8	11	64.1	2	61.6	0	.0
Cat5	2	73.6	2	63.2	3	85.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	1220	31.6	58.8	2346	60.8	59.3	182	4.7	61.7	93	2.4	62.9	18	.4

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	1.565+/-	1.063	mph	37	N VA 102'	.303+/-	1.709	mph
12	N Dasibi CO	2.324+/-	.409	ppm	38	S BDT PER	.425+/-	.472	mph
13	N TDP PAR	.328+/-	.830	mph	39	N VA 74'	.168+/-	.437	mph
14	N Dasibi D3	.012+/-	.001	ppm	40	S BDT PAR	.164+/-	.125	mph
15	N TDP VER	.150+/-	.449	mph	41	N GND PER	.947+/-	.748	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BDT VER	.473+/-	.577	mph
17	N BDT PER	1.259+/-	.735	mph	43	N GND PAR	.996+/-	1.126	mph
19	N BDT PAR	.010+/-	.811	mph	45	N GND VER	.159+/-	.244	mph
20	N NO2/TECO	*****+/-*****		ppm	48	N Ecolyzer-1	*****+/-*****		ppm
21	N BDT VER	.128+/-	.299	mph	50	S TOP PER	.418+/-	.588	mph
22	N NO/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	4.285+/-	1.496	mph	52	S TOP PAR	.133+/-	.075	mph
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	185.387+/-	16.182	DEGR AZ	54	S TOP VER	.161+/-	.178	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	55.172+/-	2.195	DEGR F	56	S GND PER	.147+/-	.071	ppm
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	177.713+/-	20.878	DEGR AZ	58	S GND PAR	.128+/-	.073	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	94.976+/-	.810	%
31	N 74' Temp	64.875+/-	3.700	DEGR F	60	S GND VER	.139+/-	.091	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	12.206+/-	7.888	W/m <sup>2</sup>
35	N HA 74'	2.344+/-	3.912	mph	64	S VA 55'	.195+/-	.168	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)
01	11	13	15	1.95+/-	.90	187.5+/-	34.3	7.2+/- 20.7
02	17	19	21	1.55+/-	.71	186.8+/-	35.3	7.7+/- 15.6
03	38	40	42	.69+/-	.42	211.9+/-	30.6	23.0+/- 37.2
04	41	43	45	1.70+/-	.96	139.6+/-	39.4	7.2+/- 14.1
05	50	52	54	.56+/-	.54	218.7+/-	28.7	27.2+/- 28.4
08	56	58	60	.27+/-	.07	221.5+/-	21.0	32.9+/- 19.7

22:03:22 -- ranges on lanes 1,3, and 9 seem slightly low.  
 22:05:32 -- BEGIN SPAN DRIFTS ON BYRON  
 22:09:24 -- Going to perform manual counts on even radars  
 22:37:30 -- BEGIN DRIFT CHECKS ON DASIBI CO. MWH

Average for 15 minute period ending at 22:15:00  
 Traffic Data  
 Total Traffic = 906 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	52.4	73	51.8	2	56.6	11	59.1	3	47.3
Cat2	39	52.1	51	53.5	134	58.3	52	59.5	0	0
Cat3	7	57.4	7	55.2	13	58.4	2	63.6	0	0
Cat4	1	58.7	2	62.4	6	56.4	0	0	0	0
Cat5	0	0	0	0	2	61.9	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	64.1	54	57.6	54	60.7	16	59.0	6	41.1
Cat2	116	64.7	49	61.0	82	60.1	37	58.3	5	46.5
Cat3	3	69.0	4	58.7	5	58.3	2	64.4	0	0
Cat4	5	69.0	3	58.2	2	58.7	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	277	30.6	59.3	565	62.4	59.0	43	4.7	61.0	19	2.1	61.9	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.513+/-	1.072	37	N VA 102'	-.040+/-	3.300
12	N Dasibi CO	2.555+/-	.267	38	S BDT PER	.835+/-	.551
13	N TOP PAR	.137+/-	.761	39	N VA 74'	.140+/-	.556
14	N Dasibi O3	.012+/-	.001	40	S BDT PAR	.164+/-	.151
15	N TOP VER	.131+/-	.520	41	N GND PER	.815+/-	.653
16	N ND/TECO	*****	*****	42	S BDT VER	.321+/-	.304
17	N BDT PER	1.538+/-	1.018	43	N GND PAR	-1.221+/-	.737
19	N BDT PAR	-.177+/-	.693	45	N GND VER	.165+/-	.244
20	N ND2/TECO	*****	*****	48	N Ecolyzer-1	*****	*****
21	N BDT VER	.056+/-	.405	50	S TOP PER	1.487+/-	.726
22	N ND/TECO	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	5.732+/-	1.352	52	S TOP PAR	.134+/-	.091
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	*****	*****
25	N WV 102'	179.900+/-	6.471	54	S TOP VER	.144+/-	.214
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	65.172+/-	3.494	56	S GND PER	.139+/-	.069
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	168.699+/-	9.916	58	S GND PAR	.132+/-	.070
30	N CO/Byron	*****	*****	59	N Rel Hum	95.880+/-	.583
31	N 74' Temp	67.266+/-	3.045	60	S GND VER	.128+/-	.106
32	N CO2/Byron	*****	*****	61	N Solar Rad	11.445+/-	6.292
35	N HA 74'	3.797+/-	4.025	64	S VA 55'	.231+/-	.304

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	2.86+/- 1.08	182.5+/- 17.5	3.4+/- 10.8
02	17 19 21	1.76+/- .98	171.7+/- 32.1	6.3+/- 18.7
03	38 40 42	1.00+/- .49	194.6+/- 15.9	21.2+/- 21.4
04	41 43 45	1.65+/- .70	123.3+/- 28.8	6.3+/- 15.1
05	50 52 54	1.64+/- .68	188.8+/- 15.6	9.0+/- 14.7
06	56 58 60	.27+/- .07	223.7+/- 22.7	34.9+/- 18.8

Average for 15 minute period ending at 22:30:00  
 Traffic Data  
 Total Traffic = 836 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	52.1	58	51.6	1	55.7	9	59.5	6	46.1
Cat2	28	53.9	58	52.8	136	58.2	51	59.4	4	41.7
Cat3	2	47.0	8	54.0	14	59.2	1	64.5	0	0
Cat4	2	56.2	1	59.2	3	58.8	0	0	0	0
Cat5	0	0	0	0	2	60.2	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	16	63.7	52	57.0	43	59.1	28	56.4	8	41.8
Cat2	124	64.5	44	60.0	87	59.0	21	57.2	16	41.9
Cat3	3	67.2	4	56.3	4	58.4	2	57.7	0	0
Cat4	4	65.0	3	58.0	7	60.4	1	50.7	1	40.1
Cat5	0	0	1	65.4	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.0	284	29.5	58.8	569	63.5	57.7	38	4.2	58.9	22	2.5	61.9	3	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.376+/-	1.078	37	N VA 102'	.531+/-	2.646
12	N Dasibi CO	2.227+/-	.478	38	S BDT PER	.513+/-	.514
13	N TOP PAR	1.209+/-	1.245	39	N VA 74'	.036+/-	.557
14	N Dasibi O3	.011+/-	.002	40	S BDT PAR	.201+/-	.229
15	N TOP VER	.122+/-	.537	41	N GND PER	.789+/-	.731
16	N ND/TECO	*****	*****	42	S BDT VER	.315+/-	.404
17	N BDT PER	1.539+/-	.911	43	N GND PAR	.003+/-	1.288
19	N BDT PAR	.738+/-	.991	45	N GND VER	.155+/-	.307
20	N ND2/TECO	*****	*****	48	N Ecolyzer-1	*****	*****
21	N BDT VER	.098+/-	.339	50	S TOP PER	1.111+/-	.917
22	N ND/TECO	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	5.993+/-	1.602	52	S TOP PAR	.135+/-	.083
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	*****	*****
25	N WV 102'	189.458+/-	14.814	54	S TOP VER	.070+/-	.352
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	64.921+/-	2.358	56	S GND PER	.148+/-	.150
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	180.406+/-	18.028	58	S GND PAR	.136+/-	.081
30	N CO/Byron	*****	*****	59	N Rel Hum	95.982+/-	.378
31	N 74' Temp	66.667+/-	3.351	60	S GND VER	.149+/-	.098
32	N CO2/Byron	*****	*****	61	N Solar Rad	14.808+/-	10.674
35	N HA 74'	3.311+/-	4.153	64	S VA 55'	.240+/-	.355

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.98+/-	1.13	205.9+/-	25.1	2.2+/- 13.0
02	17 19 21	1.98+/-	1.02	203.0+/-	27.4	1.9+/- 17.1
03	38 40 42	1.83+/-	.44	209.3+/-	38.4	29.2+/- 26.9
04	41 43 45	1.49+/-	.78	176.1+/-	50.8	8.9+/- 14.8
05	50 52 54	1.22+/-	.88	196.1+/-	20.9	9.5+/- 26.0
06	56 58 60	.28+/-	.13	223.9+/-	23.3	27.2+/- 23.1

Average for 15 minute period ending at 22:45:00  
 Traffic Data  
 Total Traffic = 318 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	51.1	73	52.5	5	55.9	8	59.5	10	43.7
Cat2	28	52.7	51	53.1	118	58.4	51	59.6	1	34.2
Cat3	3	53.9	11	56.5	13	59.1	2	63.4	0	.0
Cat4	1	52.9	1	57.4	6	55.1	1	85.0	0	.0
Cat5	1	59.3	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	56.5	51	56.5	41	61.0	17	58.8	9	45.2
Cat2	39	65.5	27	61.4	71	61.9	38	60.5	4	48.7
Cat3	3	65.4	5	59.8	7	60.9	1	83.1	0	.0
Cat4	4	66.2	1	62.1	3	66.4	1	64.9	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	265	32.4	59.8	489	59.8	59.2	45	5.5	61.0	18	2.2	59.3	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.672+/- 1.157	mph	37	N VA 102'	.258+/- 2.784	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	.409+/- .537	mph
13	N TOP PAR	.983+/- .842	mph	39	N VA 74'	.190+/- .532	mph
14	N Dasibi D3	.010+/- .001	ppm	40	S BOT PAR	.177+/- .179	mph
15	N TOP VER	.277+/- .560	mph	41	N GND PER	.771+/- .837	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.248+/- .417	mph
17	N BOT PER	1.140+/- .968	mph	43	N GND PAR	.220+/- .739	mph
19	N BOT PAR	.574+/- .738	mph	45	N GND VER	.143+/- .314	ppm
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.207+/- .407	ppm	50	S TOP PER	.729+/- .988	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.438+/- 1.470	mph	52	S TOP PAR	.121+/- .084	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	199.502+/- 9.521	DEGR AZ	54	S TOP VER	.182+/- .285	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	66.380+/- 2.831	DEGR F	56	S GND PER	.130+/- .077	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	189.708+/- 12.722	DEGR AZ	58	S GND PAR	.135+/- .068	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	95.848+/- .552	%
31	N 74' Temp	66.198+/- 3.159	DEGR F	60	S GND VER	.149+/- .100	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	15.758+/- 7.931	W/m**2
35	N HA 74'	2.334+/- 3.588	mph	64	S VA 55'	.323+/- .320	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.20+/-	1.13	214.5+/-	26.9	4.8+/- 20.6
02	17 19 21	1.51+/-	.97	209.9+/-	37.3	4.8+/- 21.2
03	38 40 42	.72+/-	.48	215.3+/-	34.0	39.4+/- 28.9
04	41 43 45	1.20+/-	.74	163.0+/-	48.4	13.9+/- 17.9
05	50 52 54	.87+/-	.91	209.8+/-	28.2	13.8+/- 36.5
06	56 58 60	.26+/-	.07	226.8+/-	24.5	35.2+/- 16.5

Average for 15 minute period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
28	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm

27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	32.32+/-54.86	-12.5+/- 9.6	39.6+/-*****		
02	17 19 21	25.68+/-46.84	-6.8+/- 8.0	305.1+/-*****		
03	38 40 42	11.11+/- 8.54	-7.6+/- 7.3	751.6+/-*****		
04	41 43 45	34.39+/-86.63	5.8+/- 12.0	138.8+/-*****		
05	50 52 54	6.52+/- 3.31	-9.8+/- 7.8	817.6+/-*****		
06	56 58 60	5.47+/- 1.57	-13.0+/- 9.8	730.3+/-*****		

Average for hourly period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 2832 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	118	52.0	216	51.9	8	56.7	30	59.4	20	48.4
Cat2	106	53.2	169	53.1	420	58.3	166	58.6	7	41.5
Cat3	14	54.6	30	55.8	45	58.3	5	63.7	0	.0
Cat4	4	56.0	5	59.6	16	56.7	2	68.1	0	.0
Cat5	1	59.3	1	62.0	4	61.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	64.7	170	57.0	149	60.3	71	57.7	27	43.3
Cat2	354	64.9	128	60.9	253	60.3	111	59.2	28	43.4
Cat3	13	66.7	13	58.4	16	59.4	5	61.4	0	.0
Cat4	13	66.9	7	58.7	13	61.6	3	55.2	1	40.1
Cat5	0	.0	1	65.4	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	868	30.6	59.2	1752	61.9	58.9	141	5.0	60.2	64	2.3	61.5	7	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.105+/- 1.178	mph	37	N VA 102'	.244+/- 2.858	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	.557+/- .555	mph
13	N TOP PAR	.787+/- 1.050	mph	39	N VA 74'	.123+/- .547	mph
14	N Desibi O3	.011+/- .001	ppm	40	S BOT PAR	.175+/- .187	mph
15	N TOP VER	.180+/- .536	mph	41	N GND PER	.790+/- .758	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.295+/- .375	mph
17	N BOT PER	1.367+/- .981	mph	43	N GND PAR	.496+/- 1.119	mph
19	N BOT PAR	.389+/- .898	mph	45	N GND VER	.156+/- .288	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.123+/- .389	mph	50	S TOP PER	1.039+/- .930	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	5.621+/- 1.503	mph	52	S TOP PAR	.128+/- .086	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	190.467+/- 13.259	DEGR AZ	54	S TOP VER	.137+/- .286	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	65.911+/- 2.994	DEGR F	56	S GND PER	.140+/- .103	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	180.971+/- 16.777	DEGR AZ	58	S GND PAR	.134+/- .065	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	95.927+/- .528	%
31	N 74' Temp	66.585+/- 3.141	DEGR F	60	S GND VER	.142+/- .101	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	13.915+/- 8.367	W/m**2
35	N HA 74'	3.041+/- 4.040	mph	64	S VA 55'	.250+/- .318	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.54+/- 1.16	202.3+/- 27.5	3.4+/- 15.8		
02	17 19 21	1.72+/- 1.00	195.7+/- 36.2	5.1+/- 19.6		
03	38 40 42	.83+/- .48	206.2+/- 33.3	30.5+/- 27.4		
04	41 43 45	1.47+/- .80	146.7+/- 46.7	9.5+/- 16.1		
05	50 52 54	1.18+/- .86	199.2+/- 24.3	13.1+/- 28.7		
06	56 58 60	.27+/- .09	224.7+/- 23.2	32.7+/- 19.7		

Daily Hourly Average Maximums for each Active Channel		
channel	Time	Value
01	17:00:00	1066 vehicles
02	16:00:00	1211 vehicles
03	19:00:00	1108 vehicles
04	18:00:00	1414 vehicles
05	17:00:00	1271 vehicles
06	17:00:00	1512 vehicles
07	18:00:00	902 vehicles
08	17:00:00	950 vehicles
09	18:00:00	115 vehicles
10	18:00:00	540 vehicles
11	17:00:00	5.138 mph
12	18:00:00	2.347 ppm
13	16:00:00	1.141 mph
14	16:00:00	.018 ppm
15	23:00:00	.180 mph
16	00:00:00	.000 ppm
17	17:00:00	3.957 mph
18	16:00:00	.452 mph
20	00:00:00	.000 ppm
21	21:00:00	.153 mph
22	00:00:00	.000 ppm
23	17:00:00	7.653 mph
24	20:00:00	2.613 ppm
25	23:00:00	190.487 DEGR AZ
26	20:00:00	2.707 ppm
27	17:00:00	75.219 DEGR F
28	20:00:00	1.453 ppm
29	23:00:00	180.971 DEGR AZ
30	19:00:00	1.734 ppm
31	17:00:00	73.330 DEGR F
32	20:00:00	406.762 ppm
35	17:00:00	6.908 mph
37	21:00:00	.359 mph
38	17:00:00	2.312 mph
39	22:00:00	.168 mph
40	16:00:00	.223 mph
41	16:00:00	1.979 mph
42	17:00:00	.480 mph
43	00:00:00	.000 mph
45	22:00:00	.159 mph
49	18:00:00	1.750 ppm
50	17:00:00	3.101 mph
51	00:00:00	.000 ppm
52	18:00:00	.145 mph
53	18:00:00	2.201 ppm
54	17:00:00	.273 mph
55	19:00:00	2.847 ppm
56	17:00:00	.784 mph
57	18:00:00	3.157 ppm
58	23:00:00	.134 mph
59	23:00:00	95.927 %
80	21:00:00	.144 mph
61	16:00:00	126.336 W/m=2
64	16:00:00	.408 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 04, 1984

\*\*\*\*\* CHANGE IN SYSTEM CONFIGURATION \*\*\*\*\*
Date = 1984.339 Time = 0 seconds after midnight Channel affected = 51
New Configuration for channel:
Old calibration cnst = 100.00 Old offset = .00 New calibration cnst = 50.00 New offset = .00

06:01:05 -- 12/04/84
06:01:06 -- Data run of 12/04/84. Michael Hlavinka and Guy Donaldson are operators. Still is
06:01:07 -- dark with rain and cold conditions. Winds are out of the ENE. Will try to watch
06:01:08 -- radar #3. Seems to have range slightly high. After ample warm-up time, will de
06:01:09 -- termine if range needs adjusting.
06:01:32 -- begin reading of ecolyzer zeros. MWH
06:02:16 -- Top ecolyzer is not being used with the present wind direction. MWH
06:03:20 -- BEGIN CALIB OF DAS181 CO. MWH
06:27:21 -- END CAL. NCD-3
06:42:15 -- END CAL NCD-4.
06:54:08 -- END CAL NCD-5

Average for 15 minute period ending at 06:15:00
Traffic Data
Total Traffic = 1152 vehicles averaging 53.1 mph

Westbound Traffic

Table with 5 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows: Cat 1, Cat 2, Cat 3, Cat 4, Cat 5. Columns: No., Spd.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows: Cat 1, Cat 2, Cat 3, Cat 4, Cat 5. Columns: No., Spd.

Vehicle Classification Summary

Summary table with columns: Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Main table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, etc.

UVW Vector Calculations

Table with columns: Uvw, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Rows: 01, 02, 03, 04, 05, 06.

Average for 15 minute period ending at 06:30:00
Traffic Data
Total Traffic = 1654 vehicles averaging 51.4 mph

Westbound Traffic

Table with 5 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows: Cat 1, Cat 2, Cat 3, Cat 4, Cat 5. Columns: No., Spd.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows: Cat 1, Cat 2, Cat 3, Cat 4, Cat 5. Columns: No., Spd.

Vehicle Classification Summary

Summary table with columns: Spd., CAT 1 Total, %, Spd., CAT 2 Total, %, Spd., CAT 3 Total, %, Spd., CAT 4 Total, %, Spd., CAT 5 Total, %.

Regular Channels

Main table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, etc.

19	N B0T PAR	-5.605+/-	3.052	mph	45	N GND VER	.109+/-	.956	mph
20	N ND2/TECO	*****+/-	*****	ppm	49	N EcoLyzer-1	*****+/-	*****	ppm
21	N B0T VER	.195+/-	1.462	mph	50	S TOP PER	-4.563+/-	2.052	mph
22	N ND/TECO	*****+/-	*****	ppm	51	N EcoLyzer-2	1.087+/-	.119	ppm
23	N HA 102'	10.500+/-	2.535	mph	52	S TOP PAR	-8.577+/-	3.635	mph
24	N THC/Byron	*****+/-	*****	ppm	53	N EcoLyzer-3	*****+/-	*****	ppm
25	N WV 102'	56.386+/-	14.109	DEGR AZ	54	S TOP VER	.288+/-	.963	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N EcoLyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	42.957+/-	3.485	DEGR F	56	S GND PER	-.813+/-	2.650	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N EcoLyzer-5	*****+/-	*****	ppm
29	N WV 74'	49.291+/-	18.837	DEGR AZ	58	S GND PAR	-1.341+/-	1.387	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	98.062+/-	.349	%
31	N 74' Temp	40.221+/-	4.871	DEGR F	60	S GND VER	.465+/-	1.468	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	5.359+/-	1.542	W/m**2
35	N HA 74'	9.489+/-	3.157	mph	64	S VA 55'	-.374+/-	1.434	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.96+/- 2.93	59.7+/- 18.2	4.1+/- 14.4
02	17 19 21	6.50+/- 2.85	73.2+/- 22.8	5.4+/- 19.7
03	38 40 42	9.58+/- 2.92	61.2+/- 12.5	3.9+/- 7.5
04	41 43 45	4.30+/- 2.11	80.6+/- 32.4	.5+/- 14.6
05	50 52 54	10.09+/- 3.31	59.1+/- 17.4	3.3+/- 9.3
06	56 58 60	3.15+/- 1.87	65.1+/- 49.9	17.1+/- 30.5

Average for 15 minute period ending at 06:45:00  
Traffic Data  
 Total Traffic = 1892 vehicles averaging 50.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	51.9	0	.0	23	45.1	46	49.8	8	45.3
Cat2	108	53.8	0	.0	153	50.0	167	49.6	71	45.8
Cat3	17	55.1	0	.0	60	50.9	9	47.4	1	48.2
Cat4	8	52.7	0	.0	23	51.6	7	50.7	0	.0
Cat5	5	58.4	125	55.1	20	51.6	1	57.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	52.4	38	48.4	62	49.0	61	47.8	8	38.5
Cat2	144	53.0	180	49.1	151	48.7	167	48.6	38	39.7
Cat3	11	55.8	20	49.3	15	50.8	8	48.5	0	.0
Cat4	3	54.1	6	47.9	8	49.0	6	48.0	0	.0
Cat5	1	50.9	3	47.9	1	51.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.2	355	18.8	49.6	1179	62.3	51.2	141	7.5	50.7	61	3.2	54.9	156	8.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-3.432+/-	2.387	37	N VA 102'	.442+/-	2.205	mph
12	N Dasibi CO	*****+/-	*****	38	S BDT PER	-2.855+/-	2.470	mph
13	N TOP PAR	-8.648+/-	3.111	39	N VA 74'	-.617+/-	1.871	mph
14	N Dasibi O3	.027+/-	.003	40	S BDT PAR	-7.181+/-	2.682	mph
15	N TOP VER	.085+/-	1.887	41	N GND PER	-.473+/-	2.786	mph
16	N NOX/TECO	*****+/-	*****	42	S BDT VER	-.410+/-	.836	mph
17	N B0T PER	-2.094+/-	2.264	43	N GND PAR	-4.064+/-	1.893	mph
19	N B0T PAR	-7.886+/-	3.308	45	N GND VER	-.236+/-	1.455	mph
20	N ND2/TECO	*****+/-	*****	49	N EcoLyzer-1	*****+/-	*****	ppm
21	N B0T VER	.125+/-	1.666	50	S TOP PER	-3.182+/-	2.192	mph
22	N ND/TECO	*****+/-	*****	51	N EcoLyzer-2	1.114+/-	.134	ppm
23	N HA 102'	12.208+/-	2.949	52	S TOP PAR	-7.948+/-	4.238	mph
24	N THC/Byron	*****+/-	*****	53	N EcoLyzer-3	1.295+/-	.440	ppm
25	N WV 102'	65.418+/-	13.764	54	S TOP VER	.344+/-	1.046	mph
26	N NMHC/Byro	*****+/-	*****	55	N EcoLyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	43.244+/-	2.630	56	S GND PER	.103+/-	1.970	mph
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzer-5	*****+/-	*****	ppm
29	N WV 74'	57.859+/-	17.952	58	S GND PAR	-1.494+/-	1.363	mph
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	97.753+/-	.421	%
31	N 74' Temp	42.071+/-	4.570	60	S GND VER	-.207+/-	1.330	mph
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	6.177+/-	4.156	W/m**2
35	N HA 74'	10.975+/-	2.957	64	S VA 55'	-.076+/-	1.273	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.76+/- 3.15	68.4+/- 14.8	2.8+/- 12.1
02	17 19 21	8.64+/- 3.25	74.3+/- 17.2	3.4+/- 13.3
03	38 40 42	8.10+/- 2.86	69.5+/- 16.5	4.3+/- 7.9
04	41 43 45	4.98+/- 2.57	83.9+/- 27.9	1.1+/- 13.8
05	50 52 54	9.08+/- 3.87	62.1+/- 30.0	6.1+/- 17.4
06	56 58 60	2.73+/- 1.62	93.2+/- 49.8	10.8+/- 35.5

Average for 15 minute period ending at 07:00:00  
Traffic Data  
 Total Traffic = 2008 vehicles averaging 49.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	50.7	0	.0	10	47.1	56	48.6	10	45.5
Cat2	106	53.8	0	.0	149	51.0	177	49.1	95	45.8
Cat3	23	54.5	0	.0	58	52.1	2	48.0	2	46.2
Cat4	8	57.2	0	.0	29	51.5	11	47.6	1	41.6
Cat5	3	55.3	73	55.8	31	52.3	3	49.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	53.0	54	49.0	86	48.8	88	46.7	22	39.6
Cat2	154	53.2	188	49.3	176	49.2	184	46.7	31	40.2
Cat3	12	51.8	31	51.8	22	48.5	7	46.6	2	39.5
Cat4	3	54.8	5	49.0	8	49.9	2	44.9	0	.0
Cat5	0	.0	4	50.3	1	50.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
48.4	405	20.2	49.5	1260	62.8	51.3	159	7.9	51.0	67	3.3	54.5	115	5.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	-2.758+/-	2.734	mph	37	N VA 102'	.642+/-	2.179	mph
12	N Dasibi CD	.550+/-	2.277	ppm	38	S BOT PER	-2.991+/-	2.575	mph
13	N TOP PAR	-9.870+/-	4.041	mph	39	N VA 74'	.449+/-	1.742	mph
14	N Dasibi O3	.028+/-	.003	ppm	40	S BOT PAR	-8.095+/-	2.874	mph
15	N TOP VER	.319+/-	1.671	mph	41	N GND PER	-.141+/-	3.427	mph
16	N NOX/TECO	*****+/-	*****	ppm	42	S BOT VER	.364+/-	.946	mph
17	N BOT PER	-2.108+/-	2.345	mph	43	N GND PAR	-4.879+/-	3.024	mph
19	N BOT PAR	-8.718+/-	3.869	mph	45	N GND VER	.250+/-	1.160	mph
20	N NO2/TECO	*****+/-	*****	ppm	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BOT VER	.392+/-	1.695	mph	50	S TOP PER	-3.200+/-	2.347	mph
22	N NO/TECO	*****+/-	*****	ppm	51	N Ecolyzer-2	1.285+/-	.080	ppm
23	N HA 102'	13.301+/-	3.890	mph	52	S TOP PAR	-9.485+/-	2.590	mph
24	N THC/Byron	*****+/-	*****	ppm	53	N Ecolyzer-3	1.201+/-	.332	ppm
25	N WV 102'	69.659+/-	13.667	DEGR AZ	54	S TOP VER	.216+/-	1.139	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	.838+/-	.298	ppm
27	N Gnd Temp	41.915+/-	3.239	DEGR F	56	S GND PER	-.303+/-	2.887	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	-86.101+/-	16.943	DEGR AZ	58	S GND PAR	-1.976+/-	1.717	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	97.785+/-	.419	%
31	N 74' Temp	41.602+/-	3.895	DEGR F	60	S GND VER	.039+/-	1.303	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	3.951+/-	1.415	W/m <sup>2</sup>
35	N HA 74'	11.942+/-	3.627	mph	64	S VA 55'	-.067+/-	1.555	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	10.76+/-	3.92	73.2+/-	15.9	3.6+/- 11.1
02	17 19 21	9.50+/-	3.66	74.5+/-	17.0	5.5+/- 13.0
03	38 40 42	9.03+/-	2.94	83.4+/-	15.6	3.6+/- 7.9
04	41 43 45	5.89+/-	3.34	85.5+/-	30.7	3.2+/- 11.1
05	50 52 54	10.33+/-	2.60	71.1+/-	12.6	2.3+/- 6.7
06	56 58 60	3.54+/-	2.17	88.3+/-	46.7	6.6+/- 29.6

Average for hourly period ending at 07:00:00  
 Traffic Data  
 Total Traffic : 6704 vehicles averaging 50.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	225	51.8	0	.0	55	46.0	168	49.7	26	45.7
Cat 2	407	54.5	0	.0	568	51.1	581	49.6	268	45.9
Cat 3	73	54.6	2	51.7	221	52.1	25	50.5	7	44.4
Cat 4	29	55.9	4	51.6	95	52.2	25	49.1	4	43.8
Cat 5	12	57.9	461	55.4	67	51.7	5	48.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	131	52.8	155	49.5	221	49.9	232	48.2	41	39.3
Cat 2	512	54.2	609	50.4	519	50.1	564	48.9	103	40.2
Cat 3	36	54.2	81	51.3	66	50.3	20	48.4	4	37.6
Cat 4	11	54.5	25	51.2	20	50.4	12	47.2	0	.0
Cat 5	1	50.9	10	49.8	3	51.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.5	1254	18.7	50.5	4131	61.6	51.8	535	8.0	51.8	225	3.4	54.8	559	8.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-3.151+/-	2.316	37	N VA 102'	.502+/-	2.086	mph
12	N Dasibi CD	*****+/-	*****	38	S BOT PER	-3.422+/-	2.352	mph
13	N TOP PAR	-8.366+/-	3.644	39	N VA 74'	.429+/-	1.729	mph
14	N Dasibi O3	.028+/-	.003	40	S BOT PAR	-7.671+/-	2.773	mph
15	N TOP VER	.216+/-	1.705	41	N GND PER	-.390+/-	2.891	mph
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.451+/-	4.912	mph
17	N BOT PER	-1.861+/-	2.218	43	N GND PAR	-4.079+/-	2.290	mph
19	N BOT PAR	-7.492+/-	3.541	45	N GND VER	.208+/-	1.134	mph
20	N NO2/TECO	*****+/-	*****	48	N Ecolyzer-1	*****+/-	*****	ppm
21	N BOT VER	.280+/-	1.586	50	S TOP PER	-3.613+/-	2.232	mph
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	11.880+/-	3.343	52	S TOP PAR	-8.322+/-	3.789	mph
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	63.900+/-	14.337	54	S TOP VER	.303+/-	1.025	mph
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	42.759+/-	3.188	56	S GND PER	-.376+/-	2.383	mph
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	58.010+/-	18.485	58	S GND PAR	-1.463+/-	1.472	mph
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	97.847+/-	4.408	%
31	N 74' Temp	41.472+/-	3.997	60	S GND VER	.227+/-	1.339	mph
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	5.520+/-	2.937	W/m <sup>2</sup>
35	N HA 74'	10.828+/-	3.501	64	S VA 55'	-.151+/-	1.409	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	9.44+/-	3.50	87.7+/-	16.4	3.4+/- 12.2
02	17 19 21	8.25+/-	3.40	75.2+/-	18.4	4.7+/- 14.7
03	38 40 42	8.75+/-	2.88	66.2+/-	15.0	4.1+/- 7.7
04	41 43 45	4.98+/-	2.70	83.6+/-	29.1	2.4+/- 12.8
05	50 52 54	9.54+/-	3.42	62.5+/-	24.0	4.4+/- 13.4
06	56 58 60	2.95+/-	1.85	80.2+/-	49.4	11.3+/- 33.4

Average for 15 minute period ending at 07:15:00  
 Traffic Data  
 Total Traffic = 2185 vehicles averaging 49.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	52.2	0	.0	53	50.3	55	50.8	17	46.1
Cat2	88	54.6	110	45.8	188	51.1	138	50.7	78	46.0
Cat3	10	57.3	65	47.5	27	51.9	16	48.0	3	43.0
Cat4	13	58.2	22	50.9	9	51.6	4	51.5	1	44.6
Cat5	0	.0	36	53.3	6	53.3	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	52.7	61	47.7	88	49.2	100	47.4	22	38.8
Cat2	174	53.9	209	48.4	180	48.5	152	48.4	39	41.9
Cat3	7	56.0	29	49.6	14	49.5	4	48.1	1	29.8
Cat4	2	57.1	13	48.6	13	49.8	1	42.2	0	.0
Cat5	2	61.3	2	55.4	2	50.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.2	528	24.2	49.6	1354	62.0	49.4	177	8.1	51.5	78	3.6	53.6	48	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.189+/-	2.250 mph	37	N VA 102'	.486+/-	2.174 mph
12	N Desibi CD	.503+/-	.137 ppm	38	S BOT PER	-2.848+/-	2.172 mph
13	N TOP PAR	-7.518+/-	3.328 ppm	39	N VA 74'	-.320+/-	1.827 mph
14	N Desibi D3	.029+/-	.002 ppm	40	S BOT PAR	-5.725+/-	2.503 mph
15	N TOP VER	.038+/-	1.805 ppm	41	N GND PER	-.592+/-	1.895 mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.849+/-	1.850 mph
17	N BOT PER	-1.454+/-	1.966 ppm	43	N GND PAR	-3.610+/-	1.675 mph
18	N BOT PAR	-6.701+/-	3.137 ppm	44	N GND VER	-.285+/-	1.756 mph
19	N NO2/TECO	*****+/-*****	ppm	45	N Ecolyzer-1	*****+/-*****	ppm
20	N BOT VER	.255+/-	1.580 ppm	46	S TOP PER	-2.980+/-	2.340 ppm
21	N ND/TECO	*****+/-*****	ppm	47	N Ecolyzer-2	1.253+/-	.082 ppm
22	N HA 102'	12.514+/-	3.489 ppm	48	S TOP PAR	-2.486+/-	4.017 ppm
23	N THC/Byron	*****+/-*****	ppm	49	N Ecolyzer-3	1.175+/-	.276 ppm
24	N WV 102'	62.574+/-	12.892 DEGR AZ	50	S TOP VER	-.896+/-	1.056 ppm
25	N NMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	-.662+/-	.208 ppm
26	N Gnd Temp	42.254+/-	3.969 DEGR F	52	S GND PER	-.144+/-	1.742 ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	-.588+/-	.596 ppm
28	N WV 74'	57.163+/-	17.618 DEGR AZ	54	S GND PAR	-1.117+/-	1.180 ppm
29	N CD/Byron	*****+/-*****	ppm	55	N Rel Hum	97.965+/-	.278 %
30	N 74' Temp	40.873+/-	3.853 DEGR F	56	S GND VER	-.152+/-	1.111 ppm
31	N CO2/Byron	*****+/-*****	ppm	57	N Solar Rad	3.497+/-	1.176 W/m**2
32	N HA 74'	10.826+/-	3.361 mph	58	S VA 55'	.122+/-	1.301 mph
33				59			
34				60			
35				61			
				62			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.78+/- 3.10	65.4+/- 17.0	2.1+/- 17.0
02	17 19 21	7.40+/- 2.98	77.7+/- 17.6	4.3+/- 18.0
03	38 40 42	6.78+/- 2.56	64.8+/- 20.0	7.3+/- 9.2
04	41 43 45	4.19+/- 1.67	80.3+/- 25.4	5.1+/- 12.9
05	50 52 54	4.83+/- 3.88	16.0+/- 38.5	17.0+/- 25.5
06	56 58 60	2.27+/- 1.34	88.2+/- 52.2	11.8+/- 37.1

Average for 15 minute period ending at 07:30:00  
 Traffic Data  
 Total Traffic = 2392 vehicles averaging 49.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	53.5	0	.0	123	51.1	98	50.3	16	45.9
Cat2	103	56.5	68	46.2	167	52.0	153	51.0	107	47.1
Cat3	6	58.2	19	48.2	24	50.9	14	51.2	4	47.7
Cat4	4	60.4	2	53.6	3	46.4	4	48.2	0	.0
Cat5	1	63.1	0	.0	0	.0	2	54.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	52.8	85	47.0	102	47.7	127	46.0	40	40.5
Cat2	197	53.6	242	47.1	208	47.5	137	48.6	48	41.2
Cat3	9	53.5	35	48.4	28	46.9	8	45.1	1	41.7
Cat4	6	55.7	9	48.5	12	48.0	4	50.7	0	.0
Cat5	0	.0	5	54.3	3	50.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.0	751	31.4	49.6	1440	60.2	49.4	148	6.1	50.7	44	1.8	53.9	11	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.133+/-	2.212 mph	37	N VA 102'	.615+/-	1.725 mph
12	N Desibi CD	.538+/-	.110 ppm	38	S BOT PER	-2.345+/-	2.198 mph
13	N TOP PAR	-8.801+/-	2.717 ppm	39	N VA 74'	-.350+/-	1.503 mph
14	N Desibi D3	.027+/-	.004 ppm	40	S BOT PAR	-5.738+/-	2.678 mph
15	N TOP VER	.056+/-	1.527 ppm	41	N GND PER	-.542+/-	2.196 mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.551+/-	.940 mph
17	N BOT PER	-1.779+/-	2.222 ppm	43	N GND PAR	-4.193+/-	1.826 mph
18	N BOT PAR	-7.621+/-	2.551 ppm	44	N GND VER	-.128+/-	.888 mph
19	N NO2/TECO	*****+/-*****	ppm	45	N Ecolyzer-1	*****+/-*****	ppm
20	N BOT VER	.161+/-	1.570 ppm	46	S TOP PER	-1.976+/-	1.773 ppm
21	N ND/TECO	*****+/-*****	ppm	47	N Ecolyzer-2	1.219+/-	.088 ppm
22	N HA 102'	12.959+/-	3.144 ppm	48	S TOP PAR	-.025+/-	.822 ppm
23	N THC/Byron	*****+/-*****	ppm	49	N Ecolyzer-3	1.024+/-	.302 ppm
24	N WV 102'	67.565+/-	12.411 DEGR AZ	50	S TOP VER	-.628+/-	1.086 ppm
25	N NMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	-.760+/-	.199 ppm
26	N Gnd Temp	41.185+/-	4.161 DEGR F	52	S GND PER	-1.135+/-	1.990 ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	-.593+/-	.617 ppm
28	N WV 74'	61.142+/-	16.104 DEGR AZ	54	S GND PAR	-1.448+/-	1.430 ppm
29	N CD/Byron	*****+/-*****	ppm	55	N Rel Hum	97.720+/-	.820 %
30	N 74' Temp	42.071+/-	3.964 DEGR F	56	S GND VER	-.056+/-	1.268 ppm
31	N CO2/Byron	*****+/-*****	ppm	57	N Solar Rad	7.221+/-	1.583 W/m**2
32	N HA 74'	11.304+/-	2.953 mph	58	S VA 55'	.134+/-	1.385 mph
33				59			
34				60			
35				61			
				62			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	9.75+/-	2.73	70.2+/-	13.3	7.9+/-	10.7
02	17	19	21	8.29+/-	2.44	76.5+/-	16.4	.5+/-	10.8
03	38	40	42	6.61+/-	2.79	69.0+/-	19.6	5.7+/-	11.6
04	41	43	45	4.80+/-	1.92	82.5+/-	25.0	5.0+/-	12.4
05	50	52	54	2.54+/-	1.60	352.7+/-	33.7	17.5+/-	35.2
06	56	58	60	2.60+/-	1.59	97.7+/-	51.6	5.3+/-	37.8

Average for 15 minute period ending at 07:45:00  
 Traffic Data  
 Total Traffic = 2414 vehicles averaging 49.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	100	52.7	20	48.3	116	50.0	83	49.8	9	46.1
Cat2	102	54.5	133	48.4	131	50.8	170	50.0	111	46.2
Cat3	11	55.5	29	48.7	16	50.2	12	51.2	3	44.2
Cat4	11	52.6	6	46.3	9	52.0	10	51.1	2	44.6
Cat5	2	57.7	5	51.0	2	50.5	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	54.1	108	49.0	92	50.2	94	49.6	58	40.7
Cat2	164	55.0	222	49.3	162	48.8	106	48.4	54	41.0
Cat3	7	59.7	20	48.9	31	49.4	8	49.8	0	.0
Cat4	4	58.1	18	52.1	16	49.6	2	46.0	0	.0
Cat5	4	57.5	3	46.6	7	51.2	1	77.7	1	60.9

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.7	768	31.8	49.7	1406	58.2	50.3	137	5.7	51.0	78	3.2	53.5	25	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.759+/-	2.922	37	N VA 102'	.383+/-	2.282
12	N Dasibi CO	.696+/-	.179	38	S BOT PER	-3.068+/-	2.027
13	N TOP PAR	-10.248+/-	3.312	39	N VA 74'	.185+/-	1.925
14	N Dasibi O3	.027+/-	.002	40	S BOT PAR	-7.111+/-	2.500
15	N TOP VER	-.147+/-	1.908	41	N GND PER	-.942+/-	2.659
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.482+/-	.881
17	N BOT PER	-2.575+/-	2.674	43	N GND PAR	-4.760+/-	1.887
19	N BOT PAR	-8.253+/-	3.398	45	N GND VER	.115+/-	1.020
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.071+/-	1.829	50	S TOP PER	-2.593+/-	1.553
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.243+/-	.088
23	N HA 102'	13.700+/-	3.235	52	S TOP PAR	.054+/-	.068
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	1.082+/-	.329
25	N WV 102'	69.132+/-	11.776	54	S TOP VER	.376+/-	.938
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	.893+/-	.406
27	N Gnd Temp	40.925+/-	2.452	56	S GND PER	-.671+/-	1.947
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	.883+/-	.747
29	N WV 74'	62.847+/-	14.460	58	S GND PAR	-1.462+/-	1.478
30	N CO/Byron	*****+/-*****		59	N Rel Hum	98.144+/-	.183
31	N 74' Temp	40.716+/-	3.692	60	S GND VER	.253+/-	1.218
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	8.629+/-	1.622
35	N HA 74'	12.536+/-	3.128	64	S VA 55'	-.090+/-	1.369

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	11.40+/-	3.36	69.7+/-	15.0	1.0+/-	9.1
02	17 19 21	10.08+/-	3.52	75.2+/-	14.7	3.2+/-	10.2
03	38 40 42	8.04+/-	2.65	67.2+/-	13.6	3.2+/-	8.5
04	41 43 45	5.58+/-	2.09	79.0+/-	25.7	2.9+/-	12.7
05	50 52 54	2.96+/-	1.44	356.1+/-	18.8	9.8+/-	29.4
06	56 58 60	2.77+/-	1.71	71.8+/-	50.6	-4.1+/-	38.7

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2541 vehicles averaging 47.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	53.0	21	41.7	108	50.8	108	50.2	21	48.4
Cat2	112	55.4	140	46.1	140	50.7	130	51.4	112	47.4
Cat3	14	55.4	24	48.8	19	49.9	10	49.5	4	47.6
Cat4	4	56.8	22	51.7	9	53.7	2	48.8	3	52.0
Cat5	0	.0	9	52.6	1	52.3	1	45.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	51.2	80	44.5	87	44.3	86	43.2	76	40.2
Cat2	214	52.5	274	43.6	199	42.9	115	43.7	96	40.0
Cat3	9	51.5	30	44.5	25	44.5	10	45.6	1	35.1
Cat4	8	53.4	12	45.2	6	46.3	3	40.3	0	.0
Cat5	0	.0	4	45.7	6	43.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
47.5	773	30.4	47.2	1532	60.3	48.0	146	5.7	50.3	69	2.7	48.5	21	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.916+/-	2.589	37	N VA 102'	.838+/-	2.249
12	N Dasibi CO	.663+/-	.132	38	S BOT PER	-2.808+/-	2.071
13	N TOP PAR	-10.008+/-	2.880	39	N VA 74'	.391+/-	1.773
14	N Dasibi O3	.026+/-	.001	40	S BOT PAR	-6.970+/-	3.007
15	N TOP VER	.103+/-	1.884	41	N GND PER	-.906+/-	2.168
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.556+/-	1.051
17	N BOT PER	-2.128+/-	2.496	43	N GND PAR	-4.462+/-	2.138
19	N BOT PAR	-8.821+/-	2.643	45	N GND VER	.194+/-	1.302
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.287+/-	1.801	50	S TOP PER	-2.523+/-	1.604
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.274+/-	.069
23	N HA 102'	13.852+/-	2.938	52	S TOP PAR	.083+/-	.069
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	1.112+/-	.290
25	N WV 102'	71.054+/-	13.406	54	S TOP VER	.609+/-	1.164
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	.873+/-	.240
27	N Gnd Temp	42.410+/-	2.894	56	S GND PER	-.220+/-	2.131
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	.726+/-	.630
29	N WV 74'	88.382+/-	16.033	58	S GND PAR	-1.582+/-	1.430
30	N CO/Byron	*****+/-*****		59	N Rel Hum	98.062+/-	.257

31	N 74' Temp	43.087+/-	3.871	DEGR F	60	S GND VER	.068+/-	1.376	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	15.578+/-	2.649	W/m**2
35	N HA 74'	12.457+/-	3.161	mph	64	S VA 55'	.310+/-	1.620	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.82+/- 2.91	74.6+/- 14.1	.6+/- 9.6
02	17 19 21	9.51+/- 2.64	77.0+/- 15.1	.3+/- 10.5
03	38 40 42	7.83+/- 3.07	68.3+/- 15.8	5.5+/- 6.5
04	41 43 45	5.06+/- 2.21	79.5+/- 24.3	1.1+/- 10.0
05	50 52 54	2.88+/- 1.44	354.5+/- 22.0	21.0+/- 24.2
06	56 58 60	2.73+/- 1.68	91.1+/- 47.5	10.2+/- 30.4

Average for hourly period ending at 08:00:00  
Traffic Data  
 Total Traffic = 8532 vehicles averaging 49.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	351	52.9	41	43.0	401	50.6	354	50.2	63	48.8
Cat2	404	55.3	451	46.1	676	51.1	601	50.7	408	48.7
Cat3	41	58.3	138	48.3	86	50.8	52	49.9	14	45.9
Cat4	32	58.4	52	50.8	30	51.9	20	50.4	6	48.2
Cat5	3	59.5	50	52.9	8	52.6	3	51.4	0	48.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	304	52.7	334	47.2	365	47.9	407	46.6	186	40.2
Cat2	749	53.6	947	46.9	749	46.8	510	47.4	237	40.7
Cat3	32	54.8	114	47.7	98	47.4	28	47.1	3	35.5
Cat4	20	55.4	52	48.0	47	48.8	10	45.8	0	48.0
Cat5	6	58.8	14	50.3	18	48.5	1	77.7	1	60.9

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
48.8	2820	29.6	49.0	5732	80.1	49.3	606	6.4	51.0	269	2.8	52.6	105	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-3.249+/- 2.519	mph	37	N VA 102'	.580+/- 2.122	mph
12	N Dasibi CO	.600+/- .163	ppm	38	S BDT PER	-2.717+/- 2.126	mph
13	N TDP PAR	-9.144+/- 3.246	mph	39	N VA 74'	.322+/- 1.763	mph
14	N Dasibi O3	.027+/- .003	ppm	40	S BDT PAR	-6.386+/- 2.771	mph
15	N TDP VER	.012+/- 1.786	mph	41	N GND PER	-.746+/- 2.247	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	.555+/- .934	mph
17	N BDT PER	-1.984+/- 2.382	mph	43	N GND PAR	-4.256+/- 1.953	mph
19	N BDT PAR	-8.099+/- 3.109	mph	45	N GND VER	.181+/- 1.008	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.193+/- 1.698	mph	50	S TDP PER	-2.518+/- 1.871	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.247+/- .074	ppm
23	N HA 102'	13.257+/- 3.241	mph	52	S TDP PAR	-.593+/- 2.317	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.088+/- .304	ppm
25	N WV 102'	67.582+/- 12.975	DEGR AZ	54	S TDP VER	.577+/- 1.069	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	.797+/- .291	ppm
27	N Gnd Temp	41.694+/- 3.418	DEGR F	56	S GND PER	-.292+/- 1.962	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.687+/- .660	ppm
29	N WV 74'	62.395+/- 16.517	DEGR AZ	58	S GND PAR	-1.402+/- 1.390	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel HUM	87.973+/- .478	%
31	N 74' Temp	41.687+/- 3.871	DEGR F	60	S GND VER	.132+/- 1.247	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	8.731+/- 4.782	W/m**2
35	N HA 74'	11.781+/- 3.229	mph	64	S VA 55'	.119+/- 1.428	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.18+/- 3.19	70.0+/- 15.2	.7+/- 12.0
02	17 19 21	8.82+/- 3.09	76.6+/- 15.9	2.0+/- 12.8
03	38 40 42	7.31+/- 2.84	67.3+/- 17.5	5.4+/- 9.2
04	41 43 45	4.91+/- 2.04	80.3+/- 25.0	3.5+/- 12.1
05	50 52 54	3.30+/- 2.48	359.1+/- 30.6	16.3+/- 29.1
06	56 58 60	2.59+/- 1.59	87.2+/- 50.6	5.8+/- 36.5

08:09:43 -- APPEARS THAT RADAR #3 PREAMP GATE IS OUT OF ADJUSTMENT. MHW  
 08:17:46 -- BEGIN RECAL NCO-2  
 08:28:57 -- END CAL. NCO-2  
 08:29:21 -- BEGIN CAL NCO-3 GRD  
 08:47:01 -- END CLAIRATION NCO-3  
 08:47:33 -- BEGIN CAL. NCD-4 GRD  
 08:57:16 -- BEGIN BYRDN SPAN READINGS.

MHW  
 Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2334 vehicles averaging 50.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	54.3	17	40.8	124	51.5	87	51.3	44	48.7
Cat2	72	57.0	193	45.2	158	52.8	120	52.2	93	48.0
Cat3	4	56.9	43	49.0	17	49.9	14	51.2	7	44.6
Cat4	6	58.1	26	51.6	7	51.9	7	52.2	0	.0
Cat5	3	61.5	9	52.6	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	55.8	97	51.1	86	49.7	73	48.8	84	40.8
Cat2	149	56.3	209	49.8	158	48.5	87	49.8	65	41.2
Cat3	8	56.7	25	50.4	27	48.9	3	48.8	1	30.3
Cat4	2	58.2	13	54.8	16	51.3	4	42.5	0	.0
Cat5	1	59.3	7	51.6	4	47.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
50.2	776	33.2	50.1	1304	55.9	49.8	148	6.4	52.3	81	3.5	52.8	24	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-1.018+/-	2.431	mph	37	N VA 102'	1.146+/-	2.491	mph
12	N Dasibi CO	.752+/-	.159	ppm	38	S BOT PER	-1.135+/-	2.638	ppm
13	N TOP PAR	-12.482+/-	2.997	mph	39	N VA 74'	.861+/-	2.188	mph
14	N Dasibi O3	.023+/-	.003	ppm	40	S BOT PAR	-8.930+/-	3.606	mph
15	N TOP VER	.684+/-	2.071	mph	41	N GND PER	-.279+/-	2.332	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.250+/-	1.110	mph
17	N BOT PER	-1.205+/-	1.980	mph	43	N GND PAR	-6.057+/-	3.068	mph
19	N BOT PAR	-11.622+/-	2.700	mph	45	N GND VER	.485+/-	1.218	mph
20	N ND2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.773+/-	1.841	mph	50	S TOP PER	-1.139+/-	2.256	mph
22	N ND/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	14.930+/-	3.128	mph	52	S TOP PAR	-2.248+/-	4.342	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	1.218+/-	.336	ppm
25	N WV 102'	79.967+/-	11.731	DEGR AZ	54	S TOP VER	.351+/-	1.224	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	.987+/-	.302	ppm
27	N Gnd Temp	42.775+/-	2.846	DEGR F	56	S GND PER	.655+/-	2.462	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	.890+/-	.616	ppm
29	N WV 74'	77.425+/-	14.727	DEGR AZ	58	S GND PAR	-2.584+/-	1.743	mph
30	N CD/Byron	*****+/-*****		ppm	59	N Rel Hum	97.769+/-	.499	%
31	N 74' Temp	41.915+/-	4.067	DEGR F	60	S GND VER	-.277+/-	1.584	mph
32	N CD2/Byron	*****+/-*****		ppm	61	N Solar Rad	25.705+/-	5.198	W/m**2
35	N HA 74'	13.806+/-	2.952	mph	64	S VA 55'	-.109+/-	1.901	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	13.01+/-	2.88	84.9+/- 11.7	3.2+/- 10.8
02	17 19 21	12.05+/-	2.89	84.1+/- 9.9	4.3+/- 9.6
03	38 40 42	9.44+/-	3.66	83.9+/- 18.1	2.1+/- 9.8
04	41 43 45	8.62+/-	3.06	86.8+/- 21.1	3.8+/- 12.7
05	50 52 54	4.04+/-	4.00	23.5+/- 53.5	10.3+/- 38.5
06	56 58 60	3.90+/-	1.97	100.1+/- 40.6	-5.8+/- 30.5

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2141 vehicles averaging 53.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	55.3	27	40.9	122	54.1	88	53.2	30	49.9
Cat2	65	58.1	161	44.4	146	54.2	104	53.2	87	48.8
Cat3	15	57.7	28	48.1	16	56.7	9	53.7	12	48.2
Cat4	8	61.4	26	51.0	4	57.0	7	50.5	4	42.7
Cat5	0	.0	15	55.2	1	61.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	97	56.7	108	54.2	82	54.5	103	52.4	65	48.0
Cat2	123	59.2	143	55.6	132	55.3	95	54.0	44	43.6
Cat3	12	59.5	23	55.9	16	54.4	7	52.0	2	41.1
Cat4	5	58.9	12	56.0	8	57.4	1	55.2	1	38.5
Cat5	1	****	5	70.2	4	56.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.1	789	37.3	52.9	1100	51.4	53.6	140	6.5	53.8	78	3.5	60.7	26	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-.994+/-	2.459	mph	37	N VA 102'	.945+/-	1.858	mph
12	N Dasibi CO	.726+/-	.212	ppm	38	S BOT PER	-.970+/-	2.473	ppm
13	N TOP PAR	-12.475+/-	3.437	mph	39	N VA 74'	.667+/-	1.644	mph
14	N Dasibi O3	.022+/-	.003	ppm	40	S BOT PAR	-7.483+/-	2.979	mph
15	N TOP VER	.514+/-	1.621	mph	41	N GND PER	-.488+/-	2.499	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.378+/-	1.111	mph
17	N BOT PER	-1.376+/-	2.034	mph	43	N GND PAR	-5.523+/-	2.867	mph
19	N BOT PAR	-11.104+/-	3.245	mph	45	N GND VER	.305+/-	1.022	mph
20	N ND2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.652+/-	1.849	mph	50	S TOP PER	-.502+/-	1.986	mph
22	N ND/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	14.284+/-	2.772	mph	52	S TOP PAR	-1.670+/-	2.058	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	1.224+/-	.419	ppm
25	N WV 102'	82.268+/-	11.239	DEGR AZ	54	S TOP VER	.462+/-	1.098	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	1.039+/-	.355	ppm
27	N Gnd Temp	43.374+/-	1.963	DEGR F	56	S GND PER	.302+/-	2.312	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	.737+/-	.529	ppm
29	N WV 74'	79.904+/-	12.683	DEGR AZ	58	S GND PAR	-2.151+/-	1.514	mph
30	N CD/Byron	*****+/-*****		ppm	59	N Rel Hum	97.053+/-	.408	%
31	N 74' Temp	43.035+/-	4.159	DEGR F	60	S GND VER	.037+/-	1.484	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	12.92+/- 3.30	84.7+/- 11.9	2.9+/- 8.3
02	17 19 21	11.53+/- 3.16	82.9+/- 11.1	3.5+/- 8.7
03	38 40 42	8.00+/- 2.97	81.3+/- 18.8	1.9+/- 10.0
04	41 43 45	6.24+/- 2.84	82.9+/- 23.7	6.4+/- 13.1
05	50 52 54	2.29+/- 2.21	298.4+/- 57.0	12.8+/- 44.0
06	56 58 60	3.35+/- 1.86	87.7+/- 40.8	-2.6+/- 33.2

Average for 15 minute period ending at 08:45:00  
 Traffic Data  
 Total Traffic = 2038 vehicles averaging 54.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	57.1	14	38.3	99	54.6	63	53.7	32	48.7
Cat2	93	58.2	143	43.5	153	54.3	127	53.4	81	48.3
Cat3	17	57.5	55	48.1	33	52.3	20	52.5	2	47.5
Cat4	8	61.2	29	53.3	9	53.2	8	51.3	3	50.0
Cat5	5	60.4	31	54.6	1	58.7	1	53.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	97	60.2	83	54.9	81	55.8	92	54.2	30	43.9
Cat2	115	61.7	145	56.3	116	56.3	100	55.0	39	44.3
Cat3	5	61.4	23	57.2	25	57.2	7	53.4	0	.0
Cat4	7	63.3	12	55.2	7	57.9	2	57.0	0	.0
Cat5	0	.0	1	61.1	2	56.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.7	663	31.6	53.7	1122	53.5	53.0	187	8.9	55.3	85	4.1	55.6	41	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.681+/- 1.738	mph	37	N VA 102'	.509+/- 1.510	mph
12	N Dasibi CO	.761+/- .167	ppm	38	S BOT PER	-.595+/- 2.194	mph
13	N TOP PAR	-10.858+/- 3.060	ppm	39	N VA 74'	-.262+/- 1.464	mph
14	N Dasibi O3	.020+/- .004	ppm	40	S BOT PAR	-6.814+/- 2.851	ppm
15	N TOP VER	.104+/- 1.500	ppm	41	N GND PER	-.122+/- 2.025	ppm
16	N ND/TECO	*****/-*****	ppm	42	S BOT VER	-.295+/- 1.008	ppm
17	N BOT PER	-.673+/- 1.551	ppm	43	N GND PAR	-5.338+/- 2.304	ppm
19	N BOT PAR	-10.514+/- 2.586	ppm	45	N GND VER	.331+/- .904	ppm
20	N ND2/TECO	*****/-*****	ppm	49	N EcoLyzer-1	*****/-*****	ppm
21	N BOT VER	.267+/- 1.367	ppm	50	S TOP PER	-.144+/- 1.745	ppm
22	N ND/TECO	*****/-*****	ppm	51	N EcoLyzer-2	1.626+/- .088	ppm
23	N HA 102'	12.528+/- 2.414	ppm	52	S TOP PAR	-.013+/- .868	ppm
24	N THC/Byron	*****/-*****	ppm	53	N EcoLyzer-3	*****/-*****	ppm
25	N WV 102'	84.009+/- 8.423	DEGR AZ	54	S TOP VER	.485+/- 1.068	ppm
26	N NMHC/Byro	*****/-*****	ppm	55	N EcoLyzer-4	1.192+/- .329	ppm
27	N Gnd Temp	45.510+/- 3.048	DEGR F	56	S GND PER	-.374+/- 1.743	ppm
28	N CH4/Byron	*****/-*****	ppm	57	N EcoLyzer-5	.805+/- .695	ppm
29	N WV 74'	79.121+/- 11.275	DEGR AZ	58	S GND PAR	-2.028+/- 1.307	ppm
30	N CO/Byron	*****/-*****	ppm	59	N Rel Hum	96.548+/- .417	%
31	N 74' Temp	45.276+/- 2.265	DEGR F	60	S GND VER	1.134+/- 1.133	ppm
32	N CO2/Byron	*****/-*****	ppm	61	N Solar Rad	33.472+/- 5.136	W/m**2
35	N HA 74'	11.532+/- 2.606	ppm	64	S VA 55'	.125+/- 1.637	ppm

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	11.18+/- 3.01	85.8+/- 9.5	2.2+/- 10.6
02	17 19 21	10.81+/- 2.56	85.3+/- 8.9	3.4+/- 9.6
03	38 40 42	7.11+/- 2.61	85.4+/- 18.9	2.9+/- 11.6
04	41 43 45	5.82+/- 2.30	87.8+/- 20.7	2.4+/- 12.5
05	50 52 54	1.84+/- 1.35	298.0+/- 56.1	13.8+/- 44.5
06	56 58 60	3.00+/- 1.36	100.8+/- 41.5	3.5+/- 35.2

Average for 15 minute period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 1845 vehicles averaging 55.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	58.0	23	40.0	83	57.7	59	55.5	33	52.0
Cat2	57	60.9	121	45.3	130	56.6	96	56.6	71	51.1
Cat3	13	61.4	22	50.6	22	58.7	7	57.8	3	47.6
Cat4	7	66.0	15	57.8	11	55.6	4	52.2	3	54.8
Cat5	4	68.2	18	57.7	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	60.8	79	55.6	83	56.8	78	53.9	29	44.3
Cat2	124	61.3	124	57.0	109	56.7	100	54.9	38	44.3
Cat3	18	61.9	36	57.3	29	57.0	15	57.3	0	.0
Cat4	11	64.2	12	58.8	11	57.4	3	54.6	0	.0
Cat5	0	.0	1	56.8	3	54.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	609	33.0	55.3	970	52.6	56.9	163	8.8	58.7	77	4.2	59.0	26	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.493+/- 2.209	mph	37	N VA 102'	.668+/- 1.938	mph
12	N Dasibi CO	.733+/- .259	ppm	38	S BOT PER	-.447+/- 2.307	ppm
13	N TOP PAR	-11.534+/- 2.832	ppm	39	N VA 74'	-.661+/- 1.764	ppm
14	N Dasibi O3	.020+/- .003	ppm	40	S BOT PAR	-7.175+/- 2.950	ppm
15	N TOP VER	.506+/- 1.820	ppm	41	N GND PER	-.099+/- 2.143	ppm
16	N ND/TECO	*****/-*****	ppm	42	S BOT VER	-.327+/- 1.122	ppm
17	N BOT PER	-1.095+/- 2.017	ppm	43	N GND PAR	-5.717+/- 2.724	ppm
19	N BOT PAR	-10.872+/- 2.681	ppm	45	N GND VER	.427+/- .969	ppm
20	N ND2/TECO	*****/-*****	ppm	49	N EcoLyzer-1	*****/-*****	ppm
21	N BOT VER	.628+/- 1.525	ppm	50	S TOP PER	-.120+/- 1.896	ppm
22	N ND/TECO	*****/-*****	ppm	51	N EcoLyzer-2	1.603+/- .073	ppm
23	N HA 102'	12.965+/- 2.522	ppm	52	S TOP PAR	-.400+/- 2.259	ppm

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.338+/-	.624	ppm
25	N WV 102'	84.520+/- 9.972	DEGR AZ	54	S TOP VER	.343+/-	1.094	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	46.527+/- 2.879	DEGR F	56	S GND PER	.453+/-	2.164	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.827+/-	1.697	ppm
29	N WV 74'	81.330+/- 12.037	DEGR AZ	58	S GND PAR	-2.344+/-	1.630	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	96.076+/-	2.85	%
31	N 74' Temp	44.963+/- 2.273	DEGR F	60	S GND VER	-.169+/-	1.293	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	29.520+/-	3.043	W/m**2
35	N HA 74'	12.186+/- 2.359	mph	64	S VA 55'	.244+/-	1.410	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	11.88+/- 2.74	87.4+/- 11.5	2.8+/- 7.9		
02	17 19 21	11.19+/- 2.65	84.2+/- 10.5	3.5+/- 6.7		
03	38 40 42	7.62+/- 2.96	87.1+/- 17.5	4.4+/- 13.8		
04	41 43 45	6.19+/- 2.71	85.6+/- 21.1	4.2+/- 10.7		
05	50 52 54	2.36+/- 2.16	321.5+/- 56.5	22.0+/- 38.5		
06	56 58 60	3.42+/- 1.95	101.5+/- 38.8	-5.2+/- 33.4		

Average for hourly period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 8418 vehicles averaging 53.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	283	56.0	81	40.2	428	54.2	297	53.2	139	50.0
Cat 2	287	58.4	618	44.6	587	54.8	447	53.7	342	49.2
Cat 3	49	58.5	148	48.7	88	53.8	50	53.1	24	47.0
Cat 4	29	61.8	96	52.9	31	54.2	26	51.5	10	48.5
Cat 5	12	63.3	73	55.2	2	59.9	1	53.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	366	58.9	387	53.8	332	54.2	345	52.5	208	42.7
Cat 2	511	59.4	621	54.1	515	53.7	382	53.5	186	43.1
Cat 3	41	60.1	107	55.4	97	54.3	32	54.5	3	37.5
Cat 4	25	62.4	49	56.1	42	56.2	10	50.3	1	36.5
Cat 5	2	65.8	14	59.3	13	53.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.2	2847	33.8	52.8	4496	53.4	53.4	639	7.6	55.0	319	3.8	56.9	117	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-.796+/- 2.230	mph	37	N VA 102'	.817+/- 1.992	mph
12	N Dasibi CD	.743+/- .208	ppm	38	S BDT PER	-.787+/- 2.415	mph
13	N TDP PAR	-11.837+/- 3.152	mph	39	N VA 74'	.613+/- 1.785	mph
14	N Dasibi O3	.021+/- .004	ppm	40	S BDT PAR	-7.550+/- 3.171	mph
15	N TDP VER	.452+/- 1.775	mph	41	N GND PER	-.247+/- 2.253	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BDT VER	-.313+/- 1.087	mph
17	N BDT PER	-1.087+/- 1.916	mph	43	N GND PAR	-5.859+/- 2.761	mph
19	N BDT PAR	-11.028+/- 2.832	mph	45	N GND VER	.287+/- 1.040	ppm
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.580+/- 1.564	mph	50	S TOP PER	-.476+/- 2.014	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.551+/- 1.128	ppm
23	N HA 102'	13.677+/- 2.880	mph	52	S TOP PAR	-.782+/- 2.816	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	82.697+/- 10.546	DEGR AZ	54	S TOP VER	.410+/- 1.122	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.086+/- 1.349	ppm
27	N Gnd Temp	44.546+/- 3.086	DEGR F	56	S GND PER	.446+/- 2.182	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.815+/- 1.640	ppm
29	N WV 74'	79.451+/- 12.796	DEGR AZ	58	S GND PAR	-2.276+/- 1.565	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	96.861+/- 1.754	%
31	N 74' Temp	43.797+/- 3.519	DEGR F	60	S GND VER	-.069+/- 1.391	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	30.769+/- 5.573	W/m**2
35	N HA 74'	12.631+/- 2.853	mph	64	S VA 55'	.084+/- 1.641	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	12.25+/- 3.07	85.7+/- 11.2	2.8+/- 9.7		
02	17 19 21	11.40+/- 2.80	84.4+/- 10.1	3.7+/- 9.0		
03	38 40 42	8.04+/- 3.18	84.4+/- 17.9	2.8+/- 11.4		
04	41 43 45	6.22+/- 2.74	85.8+/- 21.7	4.2+/- 12.3		
05	50 52 54	2.63+/- 2.73	337.2+/- 56.3	14.7+/- 41.5		
06	56 58 60	3.42+/- 1.82	100.1+/- 40.3	-2.5+/- 33.2		

09:07:13 -- END CAL. NCO-4 GRD  
 09:07:35 -- BEGIN CAL. NCO-5  
 09:22:28 -- END CALIBRATION NCO-5 GRD  
 09:54:05 -- STOP READING BYRON SPANS.

MWH  
 Average for 15 minute period ending at 09:15:00  
 Traffic Data  
 Total Traffic = 1814 vehicles averaging 56.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	58.1	41	44.4	87	57.9	62	56.0	27	51.7
Cat2	52	60.8	77	48.2	111	58.6	87	56.1	80	51.7
Cat3	15	62.6	25	53.7	14	58.5	7	53.9	7	49.1
Cat4	7	65.0	16	57.8	12	59.6	5	56.6	3	48.1
Cat5	1	67.6	7	57.1	1	59.9	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	60.3	71	55.3	72	55.9	94	54.0	41	45.0
Cat2	137	61.4	152	56.6	130	57.8	111	56.4	29	45.6
Cat3	14	62.6	28	57.1	25	58.0	1	55.8	0	0
Cat4	7	62.2	14	57.6	18	59.4	1	57.7	0	0
Cat5	1	63.4	6	59.5	5	58.6	1	63.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.8	613	33.8	56.4	946	52.1	57.2	150	8.3	58.9	83	4.6	59.3	22	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.737+/-	2.310	37	N VA 102'	.884+/-	1.806
12	N Dasibi CO	.646+/-	.228	38	S BOT PER	-.938+/-	2.317
13	N TOP PAR	-10.653+/-	2.899	39	N VA 74'	.733+/-	1.887
14	N Dasibi D3	.021+/-	.004	40	S BOT PAR	-6.388+/-	2.895
15	N TOP VER	.702+/-	1.531	41	N GND PER	-.066+/-	2.327
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.427+/-	1.017
17	N BOT PER	-.575+/-	1.707	43	N GND PAR	-5.957+/-	3.360
19	N BOT PAR	-9.879+/-	3.002	45	N GND VER	.325+/-	.995
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.828+/-	1.419	50	S TOP PER	-.743+/-	1.587
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.507+/-	.079
23	N HA 102'	12.875+/-	3.257	52	S TOP PAR	-.280+/-	1.838
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.180+/-	.522
25	N WV 102'	81.773+/-	11.270	54	S TOP VER	.590+/-	1.278
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	46.735+/-	3.370	56	S GND PER	.411+/-	1.870
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	78.234+/-	14.039	58	S GND PAR	-2.106+/-	1.553
30	N CD/Byron	*****+/-*****		59	N Rel Hum	96.043+/-	.280
31	N 74' Temp	43.999+/-	3.007	60	S GND VER	-.027+/-	1.292
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	30.856+/-	2.701
35	N HA 74'	11.391+/-	3.083	64	S VA 55'	.382+/-	1.593

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.06+/- 3.01	85.8+/- 10.8	3.7+/- 9.0
02	17 19 21	10.21+/- 2.98	86.9+/- 8.8	5.8+/- 10.9
03	38 40 42	6.97+/- 2.84	80.5+/- 22.6	3.9+/- 10.5
04	41 43 45	6.45+/- 3.41	86.2+/- 20.1	3.8+/- 11.4
05	50 52 54	2.28+/- 1.85	337.1+/- 53.8	24.9+/- 43.5
06	56 58 60	3.00+/- 1.71	102.7+/- 40.1	3.8+/- 31.3

Average for 15 minute period ending at 09:30:00  
 Traffic Data  
 Total Traffic = 1873 vehicles averaging 56.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	57.9	41	46.4	88	57.1	40	57.1	26	52.0
Cat2	53	60.7	67	48.5	138	59.1	81	58.2	58	53.1
Cat3	11	60.2	25	54.2	12	53.9	20	56.8	8	49.1
Cat4	6	65.2	13	56.0	9	55.5	5	59.8	2	50.9
Cat5	2	65.3	4	58.3	0	0	3	59.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	61.1	71	55.4	70	56.8	93	54.7	31	43.9
Cat2	142	62.5	160	58.0	130	57.8	141	55.8	40	44.0
Cat3	12	61.8	37	59.4	32	59.5	8	54.0	3	44.0
Cat4	15	63.6	19	59.2	25	59.8	6	53.2	1	42.1
Cat5	6	68.0	13	57.8	6	60.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	580	29.9	57.1	1010	53.9	57.1	168	9.0	59.0	101	5.4	60.2	34	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.221+/-	1.925	37	N VA 102'	.868+/-	1.703
12	N Dasibi CO	.889+/-	.227	38	S BOT PER	-.426+/-	2.238
13	N TOP PAR	-11.874+/-	3.151	39	N VA 74'	.776+/-	1.534
14	N Dasibi D3	.013+/-	.004	40	S BOT PAR	-5.578+/-	2.612
15	N TOP VER	.622+/-	1.513	41	N GND PER	-.254+/-	1.644
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.347+/-	1.257
17	N BOT PER	-.622+/-	1.374	43	N GND PAR	-6.207+/-	3.552
19	N BOT PAR	-11.031+/-	3.331	45	N GND VER	.481+/-	.830
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.516+/-	1.233	50	S TOP PER	.724+/-	1.920
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.509+/-	.075
23	N HA 102'	13.147+/-	2.888	52	S TOP PAR	-.136+/-	.069
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.402+/-	.556
25	N WV 102'	87.210+/-	9.373	54	S TOP VER	.523+/-	1.221
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.237+/-	.444
27	N Gnd Temp	45.250+/-	3.698	56	S GND PER	.916+/-	1.900
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	82.658+/-	11.261	58	S GND PAR	-2.122+/-	1.503
30	N CD/Byron	*****+/-*****		59	N Rel Hum	96.010+/-	.267
31	N 74' Temp	45.120+/-	3.124	60	S GND VER	-.080+/-	1.135
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	62.829+/-	19.197
35	N HA 74'	12.118+/-	2.888	64	S VA 55'	.388+/-	1.526



UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.13+/- 3.10	90.4+/- 9.7	3.1+/- 7.3
02	17 19 21	11.24+/- 3.29	85.5+/- 7.7	3.8+/- 7.0
03	38 40 42	6.20+/- 2.40	95.1+/- 25.4	5.6+/- 15.1
04	41 43 45	8.56+/- 3.45	90.5+/- 18.4	4.0+/- 11.1
05	50 52 54	2.14+/- 1.20	215.1+/- 52.8	15.9+/- 44.3
06	56 58 60	3.25+/- 1.57	112.6+/- 38.7	-2.3+/- 34.0

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 1677 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	57.6	45	46.8	75	57.7	44	57.0	17	52.4
Cat2	64	60.9	72	50.8	126	58.0	88	58.4	54	50.1
Cat3	13	61.9	11	58.3	27	56.7	10	60.0	10	51.5
Cat4	9	63.9	14	59.6	7	58.6	13	54.5	8	50.6
Cat5	5	64.5	5	59.9	0	.0	1	42.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	61.4	68	56.4	70	57.0	66	56.6	21	46.8
Cat2	138	63.5	123	58.0	101	59.2	79	57.0	25	45.5
Cat3	21	64.3	25	58.7	33	58.8	13	57.6	0	.0
Cat4	15	64.4	18	59.4	18	59.1	2	57.7	0	.0
Cat5	3	65.4	8	59.2	3	60.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	505	30.1	57.8	880	52.5	58.9	163	9.7	59.2	104	6.2	60.6	25	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.338+/- 2.456	mph	37	N VA 102'	.727+/- 1.738	mph
12	N Dasibi CO	.510+/- .140	ppm	38	S BOT PER	-1.552+/- 2.279	mph
13	N TDP PAR	-12.170+/- 3.067	mph	39	N VA 74'	.638+/- 1.745	mph
14	N Dasibi D3	-.026+/- .002	ppm	40	S BOT PAR	-7.518+/- 2.875	mph
15	N TDP VER	.522+/- 1.850	mph	41	N GND PER	-.247+/- 1.881	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.446+/- 1.123	mph
17	N BOT PER	-1.851+/- 2.090	mph	43	N GND PAR	-5.777+/- 3.013	mph
18	N BOT PAR	-11.356+/- 2.785	mph	45	N GND VER	.336+/- 1.063	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.594+/- 1.487	mph	50	S TOP PER	-1.043+/- 1.681	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.452+/- .082	ppm
23	N HA 102'	13.988+/- 3.206	mph	52	S TOP PAR	-.212+/- 1.941	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.984+/- .371	ppm
25	N WV 102'	81.322+/- 10.886	DEGR AZ	54	S TOP VER	.447+/- 1.280	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	.759+/- 2.210	ppm
27	N Cnd Temp	45.797+/- 2.471	DEGR F	56	S GND PER	-.085+/- 2.094	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.749+/- .713	ppm
29	N WV 74'	77.812+/- 12.007	DEGR AZ	58	S GND PAR	-2.188+/- 1.676	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	95.734+/- .289	%
31	N 74' Temp	46.475+/- 3.007	DEGR F	60	S GND VER	-.009+/- 1.512	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	89.470+/- 5.024	W/m**2
35	N HA 74'	12.697+/- 3.266	mph	64	S VA 55'	.200+/- 1.712	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.59+/- 3.11	83.8+/- 10.8	3.1+/- 7.9
02	17 19 21	11.81+/- 2.69	80.5+/- 11.1	3.3+/- 7.1
03	38 40 42	8.09+/- 2.93	78.7+/- 15.8	2.3+/- 10.8
04	41 43 45	6.18+/- 2.99	84.2+/- 18.0	6.1+/- 11.5
05	50 52 54	2.25+/- 2.05	341.1+/- 48.8	10.0+/- 45.2
06	56 58 60	3.16+/- 1.79	90.8+/- 43.7	-6.0+/- 32.6

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 1773 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	59.3	42	47.1	80	57.7	43	56.7	20	50.4
Cat2	57	62.4	55	49.1	140	58.6	83	58.8	60	51.7
Cat3	12	63.1	23	56.4	30	58.3	20	55.3	7	50.1
Cat4	10	64.2	10	56.6	12	55.4	10	56.9	3	48.3
Cat5	3	60.7	9	60.0	0	.0	2	63.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	61.3	72	55.9	61	57.5	62	55.6	26	45.1
Cat2	181	63.6	136	58.0	131	58.2	99	56.2	46	44.9
Cat3	20	63.8	28	60.3	23	58.2	14	56.5	0	.0
Cat4	5	66.9	19	60.3	12	56.4	2	56.3	0	.0
Cat5	4	65.2	2	58.6	3	58.9	1	54.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	521	29.4	57.7	968	54.6	58.5	177	10.0	58.5	83	4.7	60.7	24	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.401+/- 2.817	mph	37	N VA 102'	.943+/- 2.412	mph
12	N Dasibi CO	.517+/- .123	ppm	38	S BOT PER	-2.264+/- 2.535	mph
13	N TDP PAR	-12.515+/- 4.852	mph	39	N VA 74'	.613+/- 2.082	mph
14	N Dasibi D3	-.028+/- .003	ppm	40	S BOT PAR	-8.646+/- 3.451	mph
15	N TDP VER	.606+/- 1.938	mph	41	N GND PER	-.684+/- 2.535	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.416+/- 1.213	mph
17	N BOT PER	-1.893+/- 2.175	mph	43	N GND PAR	-6.744+/- 3.754	mph
18	N BOT PAR	-11.806+/- 4.829	mph	45	N GND VER	.379+/- 1.190	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.668+/- 1.639	mph	50	S TOP PER	-2.123+/- 2.198	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.309+/- .111	ppm
23	N HA 102'	14.124+/- 4.275	mph	52	S TOP PAR	-1.135+/- 3.514	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	.973+/- .344	ppm
25	N WV 102'	76.262+/- 13.289	DEGR AZ	54	S TOP VER	.432+/- 1.369	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	.830+/- .258	ppm

27	N Gnd Temp	46.422+/-	1.604	DEGR F	56	S GND PER	.437+/-	1.990	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	.703+/-	.626	ppm
29	N WV 74'	72.489+/-	15.874	DEGR AZ	58	S GND PAR	-1.975+/-	1.664	mph
30	N CD/Byron	*****+/-*****		ppm	59	N Rel Hum	95.587+/-	.271	%
31	N 74' Temp	45.823+/-	3.695	DEGR F	60	S GND VER	-.102+/-	1.842	mph
32	N CD2/Byron	*****+/-*****		ppm	61	N Solar Rad	80.386+/-	7.725	W/m**2
35	N HA 74'	13.366+/-	4.108	mph	64	S VA 55'	.043+/-	1.668	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	13.08+/-	4.55	80.7+/-	15.8	2.6+/-	8.7
02	17	19	21	12.31+/-	4.36	78.9+/-	14.5	1.9+/-	7.5
03	38	40	42	9.46+/-	3.31	73.9+/-	17.8	2.8+/-	9.6
04	41	43	45	7.26+/-	3.79	80.7+/-	22.2	4.3+/-	10.4
05	50	52	54	3.79+/-	3.23	.8+/-	43.0	14.7+/-	33.9
06	56	58	60	3.11+/-	1.57	96.5+/-	43.8	3.6+/-	31.6

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 7137 vehicles averaging 56.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	143	58.2	158	46.2	328	57.6	189	56.6	90	51.6
Cat2	226	61.2	271	49.2	515	58.8	319	58.0	262	51.6
Cat3	51	62.0	84	55.2	83	57.2	57	56.5	32	50.1
Cat4	32	64.5	53	57.6	40	57.4	33	56.3	16	48.8
Cat5	11	63.9	25	58.9	1	59.9	6	57.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	281	61.0	282	55.7	273	56.7	315	55.1	119	45.1
Cat2	578	62.8	571	57.6	492	58.1	430	56.3	140	44.9
Cat3	67	63.4	118	58.9	113	58.7	50	56.2	3	44.0
Cat4	42	64.0	70	59.2	73	59.0	11	55.0	1	42.1
Cat5	14	65.4	29	58.6	17	59.4	2	59.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
55.5	2199	30.8	57.2	3804	53.3	58.0	858	9.2	58.9	371	5.2	60.2	105	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.814+/-	2.421	37	N VA 102'	.806+/-	1.936
12	N Dasibi CD	.593+/-	.203	38	S BOT PER	-1.082+/-	2.561
13	N TOP PAR	-11.806+/-	3.633	39	N VA 74'	.690+/-	1.775
14	N Dasibi 03	.023+/-	.005	40	S BOT PAR	-7.033+/-	3.181
15	N TOP VER	.613+/-	1.716	41	N GND PER	-.185+/-	2.144
16	N NDX/TECO	*****+/-*****		42	S BOT VER	.409+/-	1.154
17	N BOT PER	-1.235+/-	1.953	43	N GND PAR	-6.171+/-	3.436
19	N BOT PAR	-11.018+/-	3.568	45	N GND VER	-.383+/-	1.028
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.651+/-	1.453	50	S TOP PER	-.786+/-	2.115
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.444+/-	.120
23	N HA 102'	13.533+/-	3.489	52	S TOP PAR	-.373+/-	2.248
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.137+/-	.489
25	N WV 102'	81.561+/-	11.885	54	S TOP VER	.498+/-	1.287
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.969+/-	.364
27	N Gnd Temp	46.051+/-	2.887	56	S GND PER	.420+/-	1.989
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.747+/-	.675
29	N WV 74'	78.074+/-	13.857	58	S GND PAR	-2.098+/-	1.596
30	N CD/Byron	*****+/-*****		59	N Rel Hum	95.844+/-	.329
31	N 74' Temp	45.354+/-	3.272	60	S GND VER	-.055+/-	1.467
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	65.785+/-	24.948
35	N HA 74'	12.443+/-	3.438	64	S VA 55'	.248+/-	1.629

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	12.21+/-	3.56	85.2+/-	12.5	3.1+/-	8.2
02	17	19	21	11.39+/-	3.46	83.2+/-	11.4	3.7+/-	8.3
03	38	40	42	7.68+/-	3.13	81.8+/-	21.9	3.6+/-	11.7
04	41	43	45	6.61+/-	3.43	85.4+/-	19.9	4.5+/-	11.1
05	50	52	54	2.82+/-	2.30	335.8+/-	54.2	16.4+/-	42.1
06	56	58	60	3.13+/-	1.66	101.1+/-	41.9	-.2+/-	32.5

10:47:48 -- CH 52 S37' PAR LOOKS SUSPECT.  
 10:50:32 -- BEGIN CALIBRATION NCD-2  
 10:59:47 -- END CAL. NCD-2

MWH

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1714 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	59.4	45	46.2	103	57.4	46	56.2	19	51.4
Cat2	69	62.1	52	50.2	123	58.8	88	57.3	65	51.3
Cat3	12	63.7	25	56.9	27	57.4	8	55.8	7	50.8
Cat4	9	64.6	7	56.8	16	57.3	6	52.8	3	51.3
Cat5	4	70.4	9	59.4	2	58.6	1	59.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	63.6	70	57.8	55	57.8	55	56.0	29	45.2
Cat2	145	64.7	114	59.1	118	59.4	102	57.4	26	46.5
Cat3	17	65.3	27	58.7	21	59.2	9	60.6	1	42.8
Cat4	11	64.7	23	60.1	12	61.9	1	55.8	0	.0
Cat5	3	64.3	5	61.5	5	63.8	1	57.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	540	31.5	58.4	902	52.6	58.8	154	9.0	59.8	88	5.1	62.3	30	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.625+/-	2.513	37	N VA 102'	-.023+/-	2.109
12	N Dasibi CO	-.423+/-	.087	38	S BOT PER	-2.867+/-	2.538
13	N TOP PAR	-8.437+/-	3.001	39	N VA 74'	-.047+/-	1.638
14	N Dasibi O3	.029+/-	.002	40	S BOT PAR	-5.833+/-	2.559
15	N TOP VER	.028+/-	1.606	41	N GND PER	-.179+/-	1.544
16	N NDX/TECO	*****+/-*****		42	S BOT VER	-.313+/-	.892
17	N BDT PER	-2.048+/-	2.186	43	N GND PAR	-4.362+/-	2.351
19	N BDT PAR	-7.745+/-	2.948	45	N GND VER	.183+/-	.790
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.184+/-	1.279	50	S TOP PER	-2.213+/-	1.855
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.222+/-	.079
23	N HA 102'	11.293+/-	2.554	52	S TOP PAR	.134+/-	.061
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.005+/-	.321
25	N WV 102'	67.435+/-	15.648	54	S TOP VER	.310+/-	.973
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.888+/-	.224
27	N Gnd Temp	48.090+/-	3.319	56	S GND PER	-.831+/-	2.291
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.619+/-	.534
29	N WV 74'	61.501+/-	21.180	58	S GND PAR	-1.474+/-	1.538
30	N CD/Byron	*****+/-*****		59	N Rel Hum	95.424+/-	.477
31	N 74' Temp	68.657+/-	3.265	60	S GND VER	-.063+/-	1.087
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	78.118+/-	7.434
35	N HA 74'	10.381+/-	2.321	64	S VA 55'	-.044+/-	1.189

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.45+/- 2.71	71.5+/- 17.5	-.3+/- 13.7
02	17 19 21	8.54+/- 2.61	73.4+/- 18.6	.6+/- 13.4
03	38 40 42	6.93+/- 2.80	84.0+/- 19.3	4.1+/- 7.7
04	41 43 45	4.76+/- 2.24	85.3+/- 22.0	1.9+/- 13.1
05	50 52 54	2.61+/- 1.60	347.9+/- 38.3	12.5+/- 33.6
06	56 58 60	2.82+/- 1.88	71.5+/- 49.5	6.4+/- 33.0

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 1639 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	56.7	33	47.1	80	57.9	76	57.4	27	51.2
Cat2	57	61.8	31	51.1	125	59.8	76	58.8	69	51.8
Cat3	9	61.5	21	56.9	20	56.2	13	57.5	5	53.1
Cat4	3	63.8	11	54.3	8	58.3	8	54.9	3	42.1
Cat5	3	63.3	2	54.2	1	58.0	1	58.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	61.6	78	56.4	58	57.5	55	55.5	22	46.1
Cat2	144	63.5	127	58.2	98	59.7	97	57.8	31	47.7
Cat3	19	62.9	30	58.5	23	59.5	8	58.1	2	37.1
Cat4	16	63.9	16	59.8	20	60.3	5	52.3	0	.0
Cat5	2	59.7	5	63.5	2	64.8	0	57.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	527	32.2	58.6	856	52.2	58.3	150	9.2	58.5	90	5.5	61.4	16	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.354+/-	1.781	37	N VA 102'	.382+/-	1.362
12	N Dasibi CO	-.498+/-	.108	38	S BOT PER	-2.303+/-	1.776
13	N TOP PAR	-5.540+/-	2.187	39	N VA 74'	.303+/-	1.104
14	N Dasibi O3	.028+/-	.002	40	S BOT PAR	-4.743+/-	2.541
15	N TOP VER	.325+/-	1.237	41	N GND PER	-.453+/-	1.385
16	N NDX/TECO	*****+/-*****		42	S BOT VER	.383+/-	.856
17	N BDT PER	-1.742+/-	2.070	43	N GND PAR	-2.689+/-	1.313
19	N BDT PAR	-4.871+/-	2.322	45	N GND VER	.113+/-	.676
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.243+/-	1.074	50	S TOP PER	-1.781+/-	1.493
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.210+/-	.081
23	N HA 102'	8.473+/-	2.057	52	S TOP PAR	.152+/-	.058
24	N THC/Byron	2.118+/-	.076	53	N Ecolyzer-3	1.052+/-	.361
25	N WV 102'	62.106+/-	14.487	54	S TOP VER	.271+/-	.920
26	N NMHC/Byro	1.903+/-	.385	55	N Ecolyzer-4	.684+/-	.208
27	N Gnd Temp	48.246+/-	4.407	56	S GND PER	-.786+/-	1.899
28	N CH4/Byron	1.379+/-	.074	57	N Ecolyzer-5	.570+/-	.535
29	N WV 74'	56.915+/-	18.038	58	S GND PAR	-1.056+/-	1.302
30	N CD/Byron	47.163+/-	2.475	59	N Rel Hum	95.099+/-	.693
31	N 74' Temp	67.282+/-	2.875	60	S GND VER	-.160+/-	.893
32	N CO2/Byron	385.273+/-	3.221	61	N Solar Rad	85.518+/-	6.359
35	N HA 74'	7.463+/-	2.205	64	S VA 55'	-.032+/-	1.136

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	6.42+/- 2.18	66.7+/- 16.3	-5+/- 14.1
02	17	19	21	5.67+/- 2.30	72.4+/- 22.3	1.0+/- 15.0
03	38	40	42	5.73+/- 2.37	62.2+/- 24.2	3.4+/- 14.0
04	41	43	45	3.16+/- 1.28	81.1+/- 25.5	4.9+/- 16.4
05	50	52	54	2.22+/- 1.24	349.1+/- 30.9	5.0+/- 34.0
06	56	58	60	2.38+/- 1.64	63.3+/- 51.3	1.4+/- 36.1

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 1695 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	58.8	47	49.4	77	57.9	53	55.9	17	51.8
Cat2	64	61.7	25	53.6	141	58.9	108	58.8	72	52.4
Cat3	19	61.1	26	57.8	19	56.7	9	58.1	12	47.0
Cat4	12	66.3	5	57.3	9	61.6	7	57.3	3	47.7
Cat5	1	67.2	2	62.1	1	52.4	0	.0	1	39.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	62.4	55	56.2	53	57.6	57	56.1	19	45.4
Cat2	162	62.7	113	58.4	105	59.8	90	57.9	27	45.6
Cat3	21	64.6	41	58.2	31	57.5	7	57.5	1	47.0
Cat4	9	64.9	25	59.2	20	60.1	3	62.9	1	46.2
Cat5	6	82.0	7	73.7	7	73.3	3	93.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	479	28.3	58.7	908	53.6	58.1	186	11.0	60.4	94	5.5	74.4	28	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.615+/- 1.877	mph	37	N VA 102'	.581+/- 1.496	mph
12	N Dasibi CD	.488+/- .125	ppm	38	S BOT PER	-2.072+/- 1.766	mph
13	N TOP PAR	-6.981+/- 2.440	mph	39	N VA 74'	.352+/- 1.366	mph
14	N Dasibi 03	.026+/- .003	ppm	40	S BOT PAR	-4.997+/- 2.420	mph
15	N TOP VER	.315+/- 1.252	mph	41	N GND PER	-.068+/- 1.270	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.384+/- .796	mph
17	N BOT PER	-1.790+/- 2.116	mph	43	N GND PAR	-3.442+/- 1.925	mph
19	N BOT PAR	-6.659+/- 2.253	mph	45	N GND VER	.236+/- .755	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.326+/- 1.024	mph	50	S TOP PER	-1.557+/- 1.336	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.216+/- .072	ppm
23	N HA 102'	8.945+/- 2.758	mph	52	S TOP PAR	1.424+/- .055	ppm
24	N THC/Byron	2.187+/- .077	ppm	53	N Ecolyzer-3	.992+/- .361	ppm
25	N WV 102'	68.864+/- 13.909	DEGR AZ	54	S TOP VER	.255+/- .851	mph
26	N NMHC/Byro	1.894+/- .231	ppm	55	N Ecolyzer-4	.747+/- .251	ppm
27	N Gnd Temp	46.579+/- 4.101	DEGR F	56	S GND PER	-.362+/- 1.584	mph
28	N CH4/Byron	1.337+/- .075	ppm	57	N Ecolyzer-5	.581+/- .594	ppm
29	N WV 74'	66.355+/- 18.679	DEGR AZ	58	S GND PAR	-.998+/- 1.222	mph
30	N CD/Byron	.231+/- .070	ppm	59	N Re1 Hum	95.457+/- .322	%
31	N 74' Temp	48.637+/- 3.294	DEGR F	60	S GND VER	1.162+/- 1.039	mph
32	N CO2/Byron	388.618+/- 7.329	ppm	61	N Solar Rad	80.659+/- 14.940	W/m**2
35	N HA 74'	8.033+/- 2.735	mph	64	S VA 55'	-.095+/- 1.014	mph

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.52+/- 2.39	76.6+/- 15.1	.9+/- 11.1
02	17	19	21	7.29+/- 2.26	75.5+/- 16.3	5.5+/- 10.7
03	38	40	42	5.74+/- 2.47	65.9+/- 20.0	3.9+/- 12.0
04	41	43	45	3.72+/- 1.96	88.5+/- 18.4	2.2+/- 16.1
05	50	52	54	1.96+/- 1.12	345.3+/- 37.3	7.4+/- 38.3
06	56	58	60	2.03+/- 1.36	77.4+/- 53.0	1.9+/- 37.3

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 1721 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	60.3	43	47.0	88	58.8	46	56.0	23	52.3
Cat2	63	62.5	48	50.3	143	59.6	88	56.7	77	52.2
Cat3	13	62.3	28	56.5	13	59.3	16	55.6	9	54.7
Cat4	7	67.6	10	57.7	11	57.1	6	61.9	8	55.6
Cat5	0	.0	6	59.1	1	57.5	1	63.6	1	45.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	63.2	75	58.3	49	58.9	53	56.5	28	43.6
Cat2	160	65.0	126	59.2	131	59.0	93	57.5	48	45.9
Cat3	9	66.5	27	59.3	20	60.3	7	56.6	3	43.0
Cat4	7	65.1	18	59.7	13	61.3	0	.0	0	.0
Cat5	5	67.8	1	63.5	5	62.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	499	29.0	58.4	977	56.8	58.5	145	8.4	60.3	80	4.6	61.7	20	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.100+/- 1.649	mph	37	N VA 102'	.719+/- 1.683	mph
12	N Dasibi CD	.545+/- .167	ppm	38	S BOT PER	-1.930+/- 2.123	mph
13	N TOP PAR	-8.762+/- 2.591	mph	39	N VA 74'	.585+/- 1.484	mph
14	N Dasibi 03	.026+/- .003	ppm	40	S BOT PAR	-7.028+/- 2.517	mph
15	N TOP VER	.527+/- 1.426	mph	41	N GND PER	-.011+/- 1.476	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.325+/- .938	mph
17	N BOT PER	-1.068+/- 1.648	mph	43	N GND PAR	-4.722+/- 2.104	mph
19	N BOT PAR	-8.351+/- 2.276	mph	45	N GND VER	.274+/- .823	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.405+/- 1.195	mph	50	S TOP PER	-1.400+/- 1.702	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	11.095+/- 2.324	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	2.128+/- .074	ppm	53	N Ecolyzer-3	1.215+/- .381	ppm
25	N WV 102'	77.020+/- 12.124	DEGR AZ	54	S TOP VER	.367+/- 1.080	mph
26	N NMHC/Byro	1.780+/- .085	ppm	55	N Ecolyzer-4	.825+/- 1.255	ppm
27	N Gnd Temp	47.178+/- 4.134	DEGR F	56	S GND PER	-.013+/- 2.115	mph

28	N CH4/Byron	1.308+/-	.071	ppm	57	N Ecolyzer-5	.660+/-	.546	ppm
29	N WV 74'	73.829+/-	15.557	DEGR AZ	58	S GND PAR	-1.785+/-	1.938	mph
30	N CO/Byron	.223+/-	.106	ppm	59	N Rel Hum	95.782+/-	.241	%
31	N 74' Temp	47.022+/-	2.912	DEGR F	60	S GND VER	.001+/-	1.418	mph
32	N CO2/Byron	384.828+/-	4.631	ppm	61	N Solar Rad	125.394+/-	6.921	W/m==2
35	N HA 74'	9.765+/-	2.181	mph	64	S VA 55'	-.109+/-	1.281	mph

UVW Vector Calculations									
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		9.10+/- 2.52	82.1+/- 11.5	3.3+/-	8.7	
02	17	19	21		8.66+/- 2.23	82.6+/- 11.9	2.4+/-	7.3	
03	38	40	42		7.63+/- 2.55	74.1+/- 15.4	2.6+/-	7.9	
04	41	43	45		4.96+/- 2.15	89.5+/- 16.3	2.4+/-	8.9	
05	50	52	54		52.38+/-*****	-7.2+/- 4.1	195.7+/-*****		
06	56	58	60		2.87+/- 1.96	88.2+/- 49.6	6.8+/-	30.4	

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 6763 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	153	59.2	168	47.5	348	58.0	221	56.5	86	51.7
Cat2	253	62.0	156	51.0	532	59.3	361	57.9	263	52.0
Cat3	53	62.1	100	57.0	79	57.2	46	56.6	33	50.8
Cat4	31	65.8	33	56.3	44	58.3	27	56.8	17	51.1
Cat5	8	67.3	19	59.0	5	57.0	3	60.8	2	42.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	258	62.8	278	57.2	215	57.9	220	56.0	98	45.0
Cat2	611	64.0	480	58.7	453	59.5	382	57.6	132	46.4
Cat3	66	64.5	125	58.6	95	58.9	31	58.3	7	41.9
Cat4	43	64.5	82	59.7	65	60.8	9	56.3	1	46.2
Cat5	16	71.4	18	66.9	19	67.0	4	84.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	2045	30.2	58.5	3643	53.8	58.4	635	9.4	59.7	352	5.2	65.6	94	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.924+/- 2.065	mph	37	N VA 102'	.417+/- 1.706	mph
12	N Dasibi CO	-.489+/- .132	ppm	38	S BOT PER	-2.293+/- 2.097	mph
13	N TOP PAR	-7.430+/- 2.866	mph	39	N VA 74'	-.288+/- 1.427	mph
14	N Dasibi O3	-.027+/- .003	ppm	40	S BOT PAR	-5.650+/- 2.654	mph
15	N TOP VER	-.298+/- 1.397	mph	41	N GND PER	-.178+/- 1.427	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.351+/- .871	mph
17	N BOT PER	-1.862+/- 2.040	mph	43	N GND PAR	-3.804+/- 2.109	mph
19	N BOT PAR	-6.907+/- 2.791	mph	45	N GND VER	-.201+/- .764	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.285+/- 1.148	mph	50	S TOP PER	-1.738+/- 1.631	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.241+/- .102	ppm
23	N HA 102'	9.952+/- 2.733	mph	52	S TOP PAR	.143+/- .058	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.066+/- .367	ppm
25	N WV 102'	68.876+/- 14.993	DEGR AZ	54	S TOP VER	.301+/- .959	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	.736+/- .262	ppm
27	N Gnd Temp	47.523+/- 3.967	DEGR F	56	S GND PER	-.488+/- 2.009	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.608+/- .554	ppm
29	N WV 74'	64.696+/- 19.375	DEGR AZ	58	S GND PAR	-1.324+/- 1.551	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	95.440+/- .392	%
31	N 74' Temp	47.399+/- 3.023	DEGR F	60	S GND VER	.096+/- 1.126	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	92.822+/- 21.512	W/m==2
35	N HA 74'	8.911+/- 2.649	mph	64	S VA 55'	-.070+/- 1.157	mph

UVW Vector Calculations									
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		8.12+/- 2.74	74.3+/- 18.2	.9+/-	12.1	
02	17	19	21		7.54+/- 2.64	76.1+/- 18.0	1.1+/-	11.9	
03	38	40	42		6.51+/- 2.67	66.6+/- 20.4	3.5+/-	10.7	
04	41	43	45		4.15+/- 2.07	86.2+/- 21.0	2.8+/-	14.0	
05	50	52	54		2.24+/- 1.36	348.7+/- 36.1	8.2+/-	35.4	
06	56	58	60		2.52+/- 1.75	75.3+/- 50.9	4.2+/-	34.3	

11:00:07 -- BEGIN CALIBRATION NCD-3  
 11:14:27 -- END CAL. NCD-3 GRD  
 11:14:52 -- BEGIN CAL NCD-4 GRD  
 11:23:08 -- END CAL NCD-4 GRD  
 11:23:23 -- BEGIN CAL. NCD-5  
 11:32:32 -- CH 52 HAD FROZEE SHAFT BEARINGS. HAVE REPLACED THEM. WILL TRY AGAIN. MWH  
 11:37:50 -- END CAL. NCD-5  
 11:43:37 -- RANGE ON CH 3 APPEARS LOW WILL ADJUST GRD  
 11:57:25 -- CH. 3 RADAR APPEARS TO BE BETTER ADJUSTED NOW GRD

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1699 vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	59.0	50	48.9	84	58.0	60	58.2	31	51.4
Cat2	58	61.7	27	52.9	110	60.0	84	58.0	88	50.8
Cat3	10	62.9	32	57.0	18	57.4	15	55.1	3	53.5
Cat4	9	63.8	4	53.6	10	58.9	8	56.3	5	46.1
Cat5	1	57.5	2	59.0	3	57.7	2	63.0	2	50.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	63.6	58	57.4	55	58.6	43	56.0	26	44.0
Cat2	151	65.3	125	59.6	115	60.3	99	57.8	47	47.0
Cat3	16	66.2	29	60.4	28	60.0	11	57.2	3	41.4
Cat4	12	66.8	15	61.2	17	61.6	4	54.3	0	.0
Cat5	3	65.7	4	65.4	1	62.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	526	31.0	58.8	904	53.2	58.9	166	9.8	60.0	85	5.0	60.9	18	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	- .826+/-	1.893	37	N VA 102'	.833+/-	1.890
12	N Dasibi CO	.540+/-	.171	38	S BDT PER	-1.577+/-	2.707
13	N TDP PAR	-11.759+/-	3.148	39	N VA 74'	.592+/-	1.878
14	N Dasibi O3	.025+/-	.003	40	S BDT PAR	-8.049+/-	2.904
15	N TDP VER	.634+/-	1.463	41	N GND PER	-.101+/-	1.480
16	N NDX/TECO	*****+/-*****		42	S BDT VER	-.311+/-	1.287
17	N BDT PER	-1.063+/-	1.689	43	N GND PAR	-5.685+/-	3.208
19	N BDT PAR	-10.971+/-	3.291	45	N GND VER	-.394+/-	.933
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.711+/-	1.326	50	S TDP PER	-1.156+/-	2.091
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.347+/-	.086
23	N HA 102'	13.421+/-	2.952	52	S TDP PAR	*****+/-*****	
24	N THC/Byron	2.032+/-	.058	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	82.802+/-	8.881	54	S TDP VER	.310+/-	1.277
26	N NMHC/Byro	1.773+/-	.286	55	N Ecolyzer-4	.766+/-	.285
27	N Gnd Temp	51.269+/-	3.698	56	S GND PER	1.190+/-	2.258
28	N CH4/Byron	1.384+/-	.080	57	N Ecolyzer-5	.498+/-	.536
29	N WV 74'	79.626+/-	11.454	58	S GND PAR	-2.266+/-	1.950
30	N CO/Byron	.208+/-	.082	59	N Rel Hum	95.536+/-	.258
31	N 74' Temp	46.579+/-	4.595	60	S GND VER	-.063+/-	1.548
32	N CO2/Byron	352.037+/-	2.446	61	N Solar Rad	188.675+/-	26.431
35	N HA 74'	12.300+/-	2.937	64	S VA 55'	-.033+/-	1.534

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.09+/- 3.05	85.1+/- 9.7	3.2+/- 8.7
02	17 19 21	11.30+/- 3.18	84.0+/- 9.8	3.7+/- 9.4
03	38 40 42	8.66+/- 3.05	79.5+/- 17.1	2.7+/- 8.3
04	41 43 45	5.99+/- 3.14	85.1+/- 17.6	5.1+/- 10.5
05	50 52 54	.00+/- .00	0+/- .0	0+/- .0
06	56 58 60	3.41+/- 2.01	95.4+/- 43.8	-3.2+/- 31.3

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 1668 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	59.3	49	48.8	84	58.0	62	56.8	24	51.2
Cat2	57	63.2	26	52.5	130	58.7	87	58.3	67	53.4
Cat3	14	63.4	16	56.4	30	59.5	14	58.7	4	52.4
Cat4	8	65.7	1	61.6	8	57.5	3	61.2	2	46.5
Cat5	4	65.9	2	60.4	0	.0	1	61.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	62.0	59	56.4	66	58.0	58	55.6	33	45.3
Cat2	161	64.5	136	58.4	106	60.2	76	56.3	31	46.8
Cat3	17	66.1	19	58.3	28	59.4	13	57.0	1	44.8
Cat4	10	66.8	19	60.5	19	60.6	2	60.2	1	41.9
Cat5	2	67.4	5	57.0	5	64.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	543	32.6	59.0	877	52.6	59.5	156	9.4	61.0	73	4.4	62.4	19	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	- .192+/-	2.353	37	N VA 102'	.608+/-	2.073
12	N Dasibi CO	.611+/-	.328	38	S BDT PER	-1.625+/-	2.658
13	N TDP PAR	-12.009+/-	3.684	39	N VA 74'	.499+/-	1.889
14	N Dasibi O3	.025+/-	.004	40	S BDT PAR	-7.809+/-	3.104
15	N TDP VER	.430+/-	1.920	41	N GND PER	-.173+/-	1.851
16	N NDX/TECO	*****+/-*****		42	S BDT VER	.429+/-	1.193
17	N BDT PER	-.802+/-	1.851	43	N GND PAR	-6.326+/-	3.316
19	N BDT PAR	-11.657+/-	3.412	45	N GND VER	.455+/-	.998
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.495+/-	1.475	50	S TDP PER	-1.179+/-	2.452
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.358+/-	.082
23	N HA 102'	13.505+/-	2.829	52	S TDP PAR	*****+/-*****	
24	N THC/Byron	2.154+/-	.207	53	N Ecolyzer-3	1.184+/-	.710
25	N WV 102'	85.032+/-	11.209	54	S TDP VER	.326+/-	1.246
26	N NMHC/Byro	1.589+/-	.207	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	48.507+/-	2.377	56	S GND PER	.362+/-	2.048
28	N CH4/Byron	1.405+/-	.082	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	81.375+/-	14.055	58	S GND PAR	-2.611+/-	1.791

30	N CD/Byron	.184+/-	.079	ppm	59	N Rel Hum	95.522+/-	.252	%
31	N 74' Temp	47.178+/-	3.586	DEGR F	60	S GND VER	-.149+/-	1.584	W/m**2
32	N CD2/Byron	391.223+/-	3.354	ppm	61	N Solar Rad	137.156+/-	27.171	mph
35	N HA 74'	12.957+/-	3.097	mph	64	S VA 55'	.039+/-	1.777	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	12.34+/- 3.62	88.0+/-	11.9	3.3+/-	7.7	
02	17	19	21	11.92+/- 3.36	85.4+/-	9.5	4.0+/-	7.1	
03	38	40	42	8.55+/- 3.05	77.1+/-	18.7	1.2+/-	12.6	
04	41	43	45	6.72+/- 3.22	88.1+/-	19.6	4.5+/-	13.0	
05	50	52	54	.00+/- .00	.0+/-	.0	.0+/-	.0	
06	56	58	60	3.79+/- 1.75	99.3+/-	38.1	.4+/-	31.9	

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 1706 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	58.5	39	50.7	90	58.1	57	57.0	26	52.4
Cat2	57	62.0	17	53.7	158	60.3	94	58.7	72	52.5
Cat3	11	62.3	25	57.3	12	61.7	11	57.7	9	52.2
Cat4	4	62.8	6	58.9	8	58.2	5	58.1	1	51.0
Cat5	2	67.5	3	63.0	3	55.1	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	63.2	53	56.5	61	57.6	56	56.4	23	45.8
Cat2	160	65.1	135	58.6	123	59.5	85	57.7	44	46.1
Cat3	15	67.4	31	59.1	25	58.4	8	58.7	1	44.9
Cat4	14	65.8	29	59.8	18	60.0	0	.0	0	.0
Cat5	2	72.7	6	61.8	4	57.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	508	29.8	59.1	945	55.4	59.3	148	8.7	60.8	85	5.0	61.8	20	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.995+/- 2.230	mph	37	N VA 102'	-.621+/- 1.745	mph
12	N Dasibi CO	.446+/- .071	ppm	38	S BOT PER	-1.659+/- 2.511	mph
13	N TOP PAR	-8.720+/- 2.742	mph	39	N VA 74'	-.545+/- 1.710	mph
14	N Dasibi O3	.026+/- .003	ppm	40	S BOT PAR	-6.535+/- 2.742	mph
15	N TOP VER	.431+/- 1.609	mph	41	N GND PER	-.344+/- 1.647	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.401+/- .928	mph
17	N BOT PER	-2.071+/- 2.023	mph	43	N GND PAR	-3.978+/- 1.980	mph
18	N BOT PAR	-7.714+/- 2.621	mph	45	N GND VER	-.175+/- .844	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.461+/- 1.383	mph	50	S TOP PER	-1.130+/- 2.088	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	1.270+/- .096	ppm
23	N HA 102'	11.562+/- 2.544	mph	52	S TOP PAR	-8.020+/- 2.662	mph
24	N THC/Byron	2.381+/- .087	ppm	53	N EcoLyzr-3	-.948+/- .383	ppm
25	N WV 102'	76.585+/- 13.982	DEGR AZ	54	S TOP VER	-.388+/- 1.011	mph
26	N NMHC/Byro	1.825+/- .143	ppm	55	N EcoLyzr-4	-.680+/- .280	ppm
27	N Gnd Temp	50.695+/- 2.904	DEGR F	56	S GND PER	-.039+/- 1.588	mph
28	N CH4/Byron	1.713+/- .093	ppm	57	N EcoLyzr-5	*****+/-*****	ppm
29	N WV 74'	71.116+/- 16.902	DEGR AZ	58	S GND PAR	-1.536+/- 1.401	mph
30	N CD/Byron	.449+/- .216	ppm	59	N Rel Hum	95.424+/- .200	%
31	N 74' Temp	48.064+/- 2.878	DEGR F	60	S GND VER	-.169+/- 1.341	mph
32	N CD2/Byron	396.922+/- 5.649	ppm	61	N Solar Rad	120.080+/- 11.016	W/m**2
35	N HA 74'	10.476+/- 2.461	mph	64	S VA 55'	-.175+/- 1.355	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	9.41+/- 2.72	76.9+/-	14.2	2.3+/-	11.7	
02	17	19	21	8.40+/- 2.50	74.3+/-	15.3	3.9+/-	10.0	
03	38	40	42	7.32+/- 2.74	76.4+/-	21.0	5.2+/-	11.7	
04	41	43	45	4.46+/- 1.98	84.9+/-	22.9	5.7+/-	18.2	
05	50	52	54	8.53+/- 2.60	80.6+/-	15.4	3.9+/-	10.2	
06	56	58	60	2.57+/- 1.51	91.1+/-	47.1	-5.4+/-	38.7	

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 1829 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	58.3	65	50.4	93	58.6	59	56.2	31	54.2
Cat2	82	61.9	102	52.3	126	59.5	77	57.5	71	51.3
Cat3	18	62.8	33	58.4	22	59.3	13	55.7	6	52.6
Cat4	10	63.4	17	59.2	7	59.9	5	54.9	2	52.9
Cat5	3	64.6	5	59.6	2	46.7	3	48.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	62.9	62	56.0	60	57.2	52	55.5	24	46.5
Cat2	162	64.2	148	58.7	103	58.4	77	57.1	48	46.5
Cat3	16	63.3	17	60.0	23	58.7	11	55.6	6	44.8
Cat4	11	65.7	21	60.8	22	59.5	8	56.0	0	.0
Cat5	1	71.1	3	60.6	8	61.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	539	29.5	58.0	997	54.5	58.6	165	9.0	60.5	103	5.6	58.9	25	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.675+/- 1.901	mph	37	N VA 102'	-.900+/- 1.737	mph
12	N Dasibi CO	.555+/- .143	ppm	38	S BOT PER	-.355+/- 2.419	mph
13	N TOP PAR	-9.233+/- 2.908	mph	39	N VA 74'	-.451+/- 1.388	mph
14	N Dasibi O3	.025+/- .004	ppm	40	S BOT PAR	-5.749+/- 2.454	mph
15	N TOP VER	.445+/- 1.323	mph	41	N GND PER	-.125+/- 1.573	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.293+/- 1.251	mph
17	N BOT PER	-1.198+/- 1.880	mph	43	N GND PAR	-4.201+/- 2.174	mph
19	N BOT PAR	-8.689+/- 2.716	mph	45	N GND VER	-.158+/- .936	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.404+/- 1.134	mph	50	S TOP PER	-.041+/- 2.172	mph

22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.192+/-	.084	ppm
23	N HA 102'	10.001+/- 2.653	mph	52	S TOP PAR	-7.490+/-	2.408	mph
24	N THC/Byron	2.104+/- .104	ppm	53	N Ecolyzer-3	1.094+/-	.457	ppm
25	N WV 102'	80.450+/- 13.106	DEGR AZ	54	S TOP VER	.338+/-	1.201	mph
26	N NMHC/Byro	1.821+/- .085	ppm	55	N Ecolyzer-4	.813+/-	.280	ppm
27	N Gnd Temp	48.611+/- 5.084	DEGR F	56	S GND PER	.290+/-	2.192	ppm
28	N CH4/Byron	1.472+/- .127	ppm	57	N Ecolyzer-5	.632+/-	.490	ppm
29	N WV 74'	77.044+/- 13.163	DEGR AZ	58	S GND PAR	-1.917+/-	1.548	ppm
30	N CO/Byron	2.15+/- .078	ppm	59	N Rel Hum	95.652+/-	.390	%
31	N 74' Temp	48.481+/- 1.959	DEGR F	60	S GND VER	-0.043+/-	1.024	mph
32	N CO2/Byron	390.734+/- 3.791	ppm	61	N Solar Rad	90.787+/-	15.314	W/m**2
35	N HA 74'	9.542+/- 2.894	mph	64	S VA 55'	.096+/-	1.468	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.67+/- 2.92	85.7+/- 11.0	3.1+/- 13.5
02	17 18 21	9.13+/- 2.68	82.1+/- 11.7	2.8+/- 12.0
03	38 40 42	6.32+/- 2.52	85.9+/- 22.1	2.1+/- 11.3
04	41 43 45	4.62+/- 2.15	87.1+/- 19.7	8.1+/- 16.7
05	50 52 54	8.05+/- 2.33	83.4+/- 19.7	1.8+/- 7.6
06	56 58 60	3.26+/- 1.80	99.1+/- 43.2	2.9+/- 42.7

Average for hourly period ending at 12:00:00  
Traffic Data  
 Total Traffic = 6902 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	160	58.8	203	49.7	351	58.2	248	56.5	112	52.3
Cat 2	234	62.2	172	52.6	524	59.7	342	58.2	298	51.9
Cat 3	53	62.9	106	57.4	83	59.3	53	56.7	22	52.5
Cat 4	31	64.0	28	58.4	33	58.6	21	57.1	10	48.0
Cat 5	10	65.0	12	60.5	8	54.0	6	55.4	2	50.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	252	63.2	232	56.6	242	57.6	210	55.9	106	45.4
Cat 2	654	64.7	544	58.8	447	58.6	337	57.3	171	46.6
Cat 3	64	65.7	96	59.5	104	59.2	43	57.0	11	43.9
Cat 4	47	66.9	85	60.5	76	60.4	14	58.1	1	41.9
Cat 5	8	68.5	18	61.1	18	61.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	2116	30.7	58.7	3723	53.9	59.1	635	9.2	60.5	346	5.0	60.9	82	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.922+/- 2.198	mph	37	N VA 102'	.740+/- 1.867	mph
12	N Dasibi CO	-.538+/- .210	ppm	38	S BOT PER	-1.304+/- 2.624	mph
13	N TOP PAR	-10.430+/- 3.456	ppm	39	N VA 74'	.557+/- 1.675	mph
14	N Dasibi O3	-.025+/- .006	ppm	40	S BOT PAR	-7.036+/- 2.953	mph
15	N TOP VER	-.485+/- 1.594	ppm	41	N GND PER	-.099+/- 1.647	ppm
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	-.358+/- 1.172	ppm
17	N BOT PER	-1.284+/- 1.917	mph	43	N GND PAR	-5.048+/- 2.898	ppm
19	N BOT PAR	-9.758+/- 3.422	ppm	45	N GND VER	.295+/- .937	ppm
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.518+/- 1.338	ppm	50	S TOP PER	-.878+/- 2.249	ppm
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.292+/- .110	ppm
23	N HA 102'	12.122+/- 3.099	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	2.168+/- .181	ppm	53	N Ecolyzer-3	1.080+/- .541	ppm
25	N WV 102'	81.235+/- 12.320	DEGR AZ	54	S TOP VER	.340+/- 1.186	ppm
26	N NMHC/Byro	1.752+/- .213	ppm	55	N Ecolyzer-4	.802+/- .421	ppm
27	N Gnd Temp	49.770+/- 3.789	DEGR F	56	S GND PER	.201+/- 2.035	ppm
28	N CH4/Byron	1.494+/- .180	ppm	57	N Ecolyzer-5	.581+/- .518	ppm
29	N WV 74'	77.321+/- 14.503	DEGR AZ	58	S GND PAR	-2.082+/- 1.726	ppm
30	N CO/Byron	.264+/- .165	ppm	59	N Rel Hum	95.534+/- .278	%
31	N 74' Temp	47.575+/- 3.391	DEGR F	60	S GND VER	-.021+/- 1.394	ppm
32	N CO2/Byron	392.729+/- 4.819	ppm	61	N Solar Rad	129.175+/- 35.128	W/m**2
35	N HA 74'	11.319+/- 3.159	mph	64	S VA 55'	.069+/- 1.539	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.88+/- 3.36	84.0+/- 12.5	3.0+/- 10.6
02	17 18 21	10.19+/- 3.28	81.5+/- 12.5	3.6+/- 9.7
03	38 40 42	7.71+/- 3.00	79.7+/- 20.1	2.8+/- 11.1
04	41 43 45	5.45+/- 2.83	86.3+/- 20.0	5.8+/- 14.9
05	50 52 54	8.26+/- 2.45	82.1+/- 17.9	2.7+/- 8.9
06	56 58 60	3.28+/- 1.82	96.5+/- 43.2	-1.3+/- 36.5



Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 1842 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	57.3	97	51.3	105	58.3	57	56.2	19	52.4
Cat2	56	61.0	134	53.3	141	59.7	81	58.0	75	52.5
Cat3	4	65.4	36	58.7	16	58.7	6	53.6	9	52.5
Cat4	5	65.9	8	61.8	5	58.0	7	58.9	3	52.3
Cat5	2	66.1	0	.0	0	.0	2	59.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	64.2	50	56.6	64	58.1	48	57.2	35	46.2
Cat2	156	65.8	145	59.6	126	59.5	76	58.4	44	46.0
Cat3	21	65.1	22	59.9	20	59.6	6	55.2	0	.0
Cat4	12	67.6	19	61.0	13	62.0	1	51.5	0	.0
Cat5	4	63.6	3	59.5	2	57.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	570	30.8	58.5	1046	56.8	59.4	140	7.6	61.6	73	4.0	61.8	13	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-1.494+/-	2.278	37	N VA 102'	.830+/-	1.883
12	N Dasibi CD	.822+/-	.297	38	S BOT PER	-1.269+/-	2.604
13	N TOP PAR	-10.618+/-	2.894	39	N VA 74'	.435+/-	1.691
14	N Dasibi D3	.023+/-	.004	40	S BOT PAR	-6.756+/-	2.662
15	N TOP VER	.140+/-	1.529	41	N GND PER	-.087+/-	1.456
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.328+/-	.959
17	N BOT PER	-1.738+/-	2.081	43	N GND PAR	-4.907+/-	2.653
19	N BOT PAR	-9.829+/-	3.020	45	N GND VER	.413+/-	.933
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.172+/-	1.300	50	S TOP PER	-.648+/-	2.470
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.209+/-	.079
23	N HA 102'	12.227+/-	3.009	52	S TOP PAR	-8.435+/-	2.957
24	N THC/Byron	2.053+/-	.123	53	N Ecolyzer-3	1.196+/-	.533
25	N WV 102'	78.163+/-	10.589	54	S TOP VER	.361+/-	1.040
26	N NMHC/Byro	1.988+/-	.123	55	N Ecolyzer-4	.864+/-	.501
27	N Gnd Temp	50.331+/-	3.633	56	S GND PER	.113+/-	2.280
28	N CH4/Byron	1.422+/-	.080	57	N Ecolyzer-5	.794+/-	.577
29	N WV 74'	73.509+/-	15.255	58	S GND PAR	-2.150+/-	1.592
30	N CD/Byron	.412+/-	.220	59	N Rel Hum	95.799+/-	.248
31	N 74' Temp	48.142+/-	4.193	60	S GND VER	-.002+/-	1.163
32	N CD2/Byron	393.258+/-	6.039	61	N Solar Rad	97.417+/-	21.276
35	N HA 74'	11.415+/-	2.893	64	S VA 55'	.080+/-	1.454

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.07+/- 2.79	81.0+/- 12.7	1.0+/- 7.3
02	17 19 21	10.27+/- 3.00	79.7+/- 12.2	1.3+/- 7.2
03	38 40 42	7.38+/- 2.79	80.3+/- 19.2	4.4+/- 9.5
04	43 45 52	5.22+/- 2.80	87.0+/- 18.4	6.5+/- 11.3
05	50 52 54	8.87+/- 2.97	85.6+/- 15.6	4.0+/- 7.8
06	56 58 60	3.20+/- 1.86	93.6+/- 40.6	4.0+/- 27.9

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1785 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	58.7	97	51.2	81	58.1	55	58.1	28	51.7
Cat2	58	62.5	103	53.6	136	59.1	95	58.1	74	51.9
Cat3	7	64.1	25	58.9	22	58.9	16	59.0	5	50.3
Cat4	7	62.3	10	59.8	4	62.5	6	58.8	2	54.1
Cat5	1	70.3	5	61.7	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	62.4	58	56.1	59	58.1	64	56.5	19	45.5
Cat2	173	63.9	134	59.6	112	58.9	76	58.2	29	45.8
Cat3	22	63.6	25	58.7	20	59.6	6	53.9	2	42.3
Cat4	10	66.4	19	59.4	13	59.9	2	54.9	0	.0
Cat5	4	65.3	6	59.6	3	62.3	1	52.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	552	30.9	58.5	990	55.5	59.2	150	8.4	60.3	73	4.1	61.9	20	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.332+/-	2.785	37	N VA 102'	.999+/-	2.018
12	N Dasibi CD	.412+/-	.057	38	S BOT PER	-2.185+/-	3.227
13	N TOP PAR	-11.027+/-	3.039	39	N VA 74'	.552+/-	1.919
14	N Dasibi D3	.028+/-	.002	40	S BOT PAR	-8.268+/-	2.990
15	N TOP VER	.458+/-	1.928	41	N GND PER	-.421+/-	1.970
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.286+/-	.974
17	N BOT PER	-1.873+/-	2.361	43	N GND PAR	-4.794+/-	2.464
19	N BOT PAR	-9.673+/-	3.321	45	N GND VER	.174+/-	.963
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.499+/-	1.513	50	S TOP PER	-2.157+/-	2.694
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.109+/-	.094
23	N HA 102'	13.793+/-	2.841	52	S TOP PAR	-10.114+/-	2.941
24	N THC/Byron	1.879+/-	.079	53	N Ecolyzer-3	.864+/-	.331
25	N WV 102'	75.456+/-	13.557	54	S TOP VER	.228+/-	1.099
26	N NMHC/Byro	1.855+/-	.229	55	N Ecolyzer-4	.496+/-	.182
27	N Gnd Temp	48.611+/-	4.618	56	S GND PER	-.006+/-	2.343
28	N CH4/Byron	1.444+/-	.085	57	N Ecolyzer-5	.475+/-	.417
29	N WV 74'	70.462+/-	15.993	58	S GND PAR	-1.940+/-	1.665
30	N CD/Byron	.217+/-	.144	59	N Rel Hum	96.027+/-	.257
31	N 74' Temp	48.872+/-	4.114	60	S GND VER	.097+/-	1.471
32	N CD2/Byron	391.386+/-	5.258	61	N Solar Rad	113.177+/-	10.143
35	N HA 74'	12.438+/-	3.032	64	S VA 55'	.078+/-	1.702

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	11.73+/-	3.02	77.9+/-	14.3	-	5+/-	9.3
02	17	19	21	10.27+/-	3.19	76.3+/-	15.3		1.2+/-	9.3
03	38	40	42	9.13+/-	3.20	76.3+/-	19.2		1.5+/-	9.3
04	41	43	45	5.20+/-	2.44	85.2+/-	18.7		5.9+/-	15.4
05	50	52	54	10.71+/-	3.05	78.7+/-	14.1		.9+/-	6.8
06	56	58	60	3.12+/-	1.89	86.8+/-	45.6		-2.6+/-	29.9

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 1821 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	58.6	85	51.3	79	58.0	62	57.9	21	53.6
Cat2	44	60.7	129	53.0	130	58.8	65	58.3	67	51.2
Cat3	11	61.5	23	58.7	19	58.2	8	56.5	7	50.5
Cat4	7	64.4	11	58.8	5	51.9	5	54.5	1	56.2
Cat5	3	67.4	4	60.3	2	55.4	3	61.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	64.3	74	57.0	71	58.0	53	55.6	26	48.6
Cat2	177	65.9	136	58.3	118	59.1	102	57.4	44	45.3
Cat3	13	66.8	26	57.4	26	58.4	3	52.7	4	43.2
Cat4	8	67.7	19	59.6	16	61.2	5	49.2	0	.0
Cat5	4	67.9	2	63.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	574	31.5	58.2	1012	55.6	58.2	140	7.7	59.6	77	4.2	63.2	18	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.763+/-	2.378	37	N VA 102'	.704+/-	2.016
12	N Dasibi CO	.459+/-	.126	38	S BOT PER	-2.063+/-	2.149
13	N TOP PAR	-8.366+/-	3.399	39	N VA 74'	.530+/-	1.781
14	N Dasibi O3	.026+/-	.004	40	S BOT PAR	-6.407+/-	2.736
15	N TDP VER	.329+/-	1.671	41	N GND PER	-.270+/-	1.835
16	N NDX/TECO	*****+/-	*****	42	S BOT VER	.404+/-	.945
17	N BOT PER	-2.230+/-	2.310	43	N GND PAR	-4.292+/-	2.081
19	N BOT PAR	-7.612+/-	2.884	45	N GND VER	.179+/-	1.047
20	N NO2/TECO	*****+/-	*****	48	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.415+/-	1.602	50	S TDP PER	-2.171+/-	2.166
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	.108+/-	.075
23	N HA 102'	11.757+/-	3.595	52	S TOP PAR	-8.652+/-	2.853
24	N THC/Byron	1.822+/-	.091	53	N Ecolyzer-3	.869+/-	.323
25	N WV 102'	69.493+/-	13.810	54	S TOP VER	.424+/-	1.023
26	N NMHC/Byro	2.076+/-	.106	55	N Ecolyzer-4	.571+/-	.214
27	N Gnd Temp	50.148+/-	5.052	56	S GND PER	-.142+/-	2.082
28	N CH4/Byron	1.353+/-	.066	57	N Ecolyzer-5	.515+/-	.452
29	N WV 74'	62.359+/-	16.897	58	S GND PAR	-1.644+/-	1.700
30	N CO/Byron	.176+/-	.052	59	N Rel Hum	95.945+/-	.211
31	N 74' Temp	49.888+/-	3.657	60	S GND VER	-.190+/-	1.296
32	N CO2/Byron	392.119+/-	3.734	61	N Solar Rad	91.468+/-	7.812
35	N HA 74'	10.560+/-	3.672	64	S VA 55'	-.017+/-	1.338

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.32+/- 3.43	71.5+/- 14.4	1.9+/- 14.7
02	17 19 21	8.44+/- 2.81	73.7+/- 16.3	2.8+/- 14.8
03	38 40 42	7.14+/- 2.74	72.1+/- 17.9	2.4+/- 11.1
04	41 43 45	4.74+/- 2.19	88.2+/- 20.7	4.4+/- 14.6
05	50 52 54	9.26+/- 2.92	76.0+/- 14.1	2.6+/- 7.9
06	56 58 60	2.93+/- 1.89	108.8+/- 47.8	- .6+/- 39.1

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 1833 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	60.0	99	51.7	96	57.5	53	56.1	28	54.1
Cat2	46	61.6	105	53.1	125	58.7	84	57.4	72	51.9
Cat3	10	63.4	27	58.1	18	58.1	7	57.8	7	50.3
Cat4	10	65.8	16	60.8	6	62.1	7	57.3	3	48.5
Cat5	4	66.4	3	60.4	2	59.6	2	56.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	63.7	65	57.8	68	57.0	61	56.4	33	46.0
Cat2	166	64.7	131	58.8	105	59.9	91	57.4	29	47.5
Cat3	15	67.2	36	58.7	25	60.3	7	58.6	0	.0
Cat4	16	65.6	22	60.2	22	59.8	6	57.7	0	.0
Cat5	2	67.0	6	59.7	8	62.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	592	32.3	58.3	954	52.0	59.5	152	8.3	61.1	110	6.0	61.9	25	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.438+/-	2.078	37	N VA 102'	.513+/-	1.634
12	N Dasibi CO	.489+/-	.088	38	S BOT PER	-2.083+/-	2.080
13	N TOP PAR	-7.691+/-	2.895	39	N VA 74'	.274+/-	1.566
14	N Dasibi O3	.026+/-	.002	40	S BOT PAR	-5.513+/-	2.209
15	N TDP VER	-.011+/-	1.628	41	N GND PER	-.519+/-	1.772
16	N NDX/TECO	*****+/-	*****	42	S BOT VER	.333+/-	.854
17	N BOT PER	-2.155+/-	2.093	43	N GND PAR	-3.904+/-	1.998
19	N BOT PAR	-7.049+/-	2.806	45	N GND VER	.104+/-	.857
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.158+/-	1.302	50	S TOP PER	-2.004+/-	1.910
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.085+/-	.079
23	N HA 102'	10.126+/-	2.622	52	S TOP PAR	-7.338+/-	2.040
24	N THC/Byron	1.961+/-	.061	53	N Ecolyzer-3	.921+/-	.345
25	N WV 102'	70.586+/-	14.258	54	S TDP VER	.392+/-	.932
26	N NMHC/Byro	1.594+/-	.325	55	N Ecolyzer-4	.598+/-	.190
27	N Gnd Temp	49.054+/-	3.059	56	S GND PER	-.615+/-	1.637
28	N CH4/Byron	1.270+/-	.063	57	N Ecolyzer-5	.485+/-	.468
29	N WV 74'	62.618+/-	16.882	58	S GND PAR	-1.280+/-	1.226
30	N CO/Byron	.197+/-	.074	59	N Rel Hum	95.962+/-	.183

31	N 74' Temp	49.497+/-	2.744	DEGR F	60	S GND VER	.123+/-	1.003	mph
32	N CO2/Byron	392.688+/-	2.608	ppm	61	N Solar Rad	80.841+/-	4.717	W/m**2
35	N HA 74'	9.412+/-	2.636	mph	64	S VA 55'	.180+/-	1.281	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.60+/-	2.77	71.6+/-	15.9	5.8+/-	14.0
02	17	18	21	7.81+/-	2.60	72.9+/-	16.3	5.3+/-	12.2
03	38	40	42	6.29+/-	2.29	69.6+/-	20.3	2.4+/-	13.1
04	41	43	45	4.36+/-	2.08	81.9+/-	22.7	5.0+/-	14.9
05	50	52	54	7.90+/-	2.06	75.0+/-	13.8	.8+/-	8.1
06	56	58	60	2.51+/-	1.43	75.4+/-	49.0	10.2+/-	43.3

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 7281 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	151	58.7	373	51.4	361	58.0	227	57.1	96	52.9
Cat 2	204	61.5	471	53.2	532	59.1	335	58.0	288	51.9
Cat 3	32	63.2	111	58.6	75	58.5	37	57.3	28	51.1
Cat 4	29	64.6	45	60.3	20	58.6	25	55.9	9	52.2
Cat 5	10	67.4	12	60.9	4	57.5	7	59.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	232	63.6	247	56.9	262	57.8	226	56.4	113	45.7
Cat 2	674	65.1	546	59.2	461	59.4	345	57.8	146	46.0
Cat 3	71	65.4	109	55.6	91	59.4	22	55.6	6	42.9
Cat 4	48	65.6	79	60.1	64	60.6	14	53.8	0	.0
Cat 5	14	65.8	17	60.0	11	61.7	1	52.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	2288	31.4	58.4	4002	55.0	59.1	582	8.0	60.7	333	4.6	62.2	76	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.257+/-	2.424	37	N VA 102'	.762+/-	1.899
12	N Dasibi CO	.495+/-	.187	38	S BOT PER	-1.902+/-	2.572
13	N TOP PAR	-9.425+/-	3.368	39	N VA 74'	.448+/-	1.745
14	N Dasibi O3	.026+/-	.004	40	S BOT PAR	-6.738+/-	2.834
15	N TOP VER	.229+/-	1.701	41	N GND PER	-.324+/-	1.667
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.338+/-	.933
17	N BOT PER	-1.999+/-	2.215	43	N GND PAR	-4.474+/-	2.336
18	N BOT PAR	-6.541+/-	3.197	45	N GND VER	-.218+/-	.958
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	-.311+/-	1.440	51	S TOP PER	-1.745+/-	2.405
22	N NO/TECO	*****+/-*****		52	N Ecolyzer-2	-1.125+/-	.096
23	N HA 102'	11.976+/-	3.296	53	S TOP PAR	-8.637+/-	2.898
24	N THC/Byron	1.954+/-	.110	54	N Ecolyzer-3	-.988+/-	.412
25	N WV 102'	73.444+/-	13.553	55	S TOP VER	.351+/-	1.026
26	N NMHC/Byro	1.878+/-	.278	56	N Ecolyzer-4	-.632+/-	.333
27	N Gnd Temp	49.536+/-	4.123	58	S GND PER	-.092+/-	2.117
28	N CH4/Byron	1.372+/-	.099	57	N Ecolyzer-5	-.567+/-	.500
29	N WV 74'	67.252+/-	16.838	59	S GND PAR	-1.754+/-	1.585
30	N CD/Byron	.250+/-	.166	60	N Rel Hum	95.933+/-	.241
31	N 74' Temp	49.099+/-	3.687	61	S GND VER	.103+/-	1.244
32	N CO2/Byron	392.363+/-	4.545	64	N Solar Rad	95.726+/-	17.049
35	N HA 74'	10.956+/-	3.265		S VA 55'	.080+/-	1.452

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	10.18+/-	3.26	75.5+/-	14.9	2.0+/-	11.9
02	17	18	21	9.20+/-	3.10	76.2+/-	15.3	2.7+/-	11.3
03	38	40	42	7.48+/-	2.95	74.7+/-	19.5	2.7+/-	10.9
04	41	43	45	4.88+/-	2.35	85.6+/-	20.3	4.0+/-	14.2
05	50	52	54	9.18+/-	2.95	79.1+/-	15.0	2.1+/-	7.8
06	56	58	60	2.94+/-	1.79	81.4+/-	46.3	2.8+/-	35.8

13:18:35 -- BEGIN CAL. NCO-2 GRD  
 13:34:05 -- END CAL. NCO-2  
 13:34:21 -- BEGIN CAL. NCO-3  
 13:47:33 -- SLIGHT DRIZZLE BEGAN AT APROX. 1:15  
 13:47:54 -- END CAL. NCO-3  
 13:48:50 -- BEGIN CAL. NCO-4

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1846 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	58.5	66	51.8	94	57.5	54	56.1	24	53.1
Cat2	61	62.7	151	52.7	137	59.4	80	58.4	72	52.9
Cat3	8	64.9	20	58.9	16	59.5	10	58.1	2	50.8
Cat4	6	59.4	14	59.5	10	61.3	3	53.9	2	54.4
Cat5	2	66.1	4	61.1	2	77.6	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	63.5	69	55.9	69	58.5	51	55.1	34	47.0
Cat2	156	65.2	149	58.4	126	58.8	95	58.5	37	45.2
Cat3	18	65.8	25	59.1	23	60.4	10	56.3	0	0
Cat4	9	66.7	21	60.8	12	61.6	2	53.0	0	0
Cat5	0	0	2	62.8	3	59.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	558	30.2	58.2	1064	57.6	60.2	132	7.2	61.7	79	4.3	64.3	13	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.264+/-	2.360	37	N VA 102'	.343+/-	1.655
12	N Dasibi CO	.510+/-	.117	38	S BOT PER	-2.047+/-	2.442
13	N TOP PAR	-6.760+/-	3.196	39	N VA 74'	.347+/-	1.414
14	N Dasibi O3	.025+/-	.003	40	S BOT PAR	-4.365+/-	2.699
15	N TOP VER	.000+/-	1.341	41	N GND PER	-4.463+/-	1.519
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.455+/-	.953
17	N BOT PER	-2.690+/-	2.168	43	N GND PAR	-2.799+/-	2.243
18	N BOT PAR	-5.591+/-	3.100	45	N GND VER	.172+/-	.727
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BOT VER	.127+/-	1.186	50	S TOP PER	-2.228+/-	2.393
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	1.112+/-	.076
23	N HA 102'	9.917+/-	2.639	52	S TOP PAR	-6.376+/-	2.789
24	N THC/Byron	2.006+/-	.064	53	N EcoLyzr-3	1.035+/-	.365
25	N WV 102'	59.722+/-	20.731	54	S TOP VER	.394+/-	1.037
26	N NMHC/Byro	2.138+/-	.088	55	N EcoLyzr-4	.622+/-	.237
27	N Gnd Temp	48.819+/-	4.236	56	S GND PER	-.576+/-	1.848
28	N CH4/Byron	1.386+/-	.047	57	N EcoLyzr-5	.673+/-	.482
29	N WV 74'	54.200+/-	23.342	58	S GND PAR	-.963+/-	1.402
30	N CO/Byron	.186+/-	.068	59	N Rel Hum	96.027+/-	.222
31	N 74' Temp	48.116+/-	3.514	60	S GND VER	.213+/-	1.163
32	N CO2/Byron	392.607+/-	3.229	61	N Solar Rad	70.122+/-	12.234
35	N HA 74'	8.013+/-	2.859	64	S VA 55'	.096+/-	1.336

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.19+/-	2.70	61.8+/- 21.0
02	17 19 21	6.88+/-	2.66	62.3+/- 24.6
03	38 40 42	5.70+/-	2.25	63.9+/- 30.4
04	41 43 45	3.36+/-	2.15	79.8+/- 34.4
05	50 52 54	7.36+/-	2.50	69.4+/- 22.8
06	56 58 60	2.51+/-	1.42	73.6+/- 54.0

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 1868 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	58.4	112	52.2	84	56.0	53	55.6	25	50.8
Cat2	67	61.5	57	54.4	117	58.5	95	56.8	93	51.2
Cat3	10	59.7	30	59.6	12	58.0	5	55.7	5	49.8
Cat4	10	63.3	4	58.1	5	55.9	4	58.3	4	49.8
Cat5	0	0	5	60.3	1	57.3	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	63.0	85	55.7	63	56.1	58	54.0	41	43.6
Cat2	189	64.6	153	58.0	133	57.5	80	57.2	31	43.9
Cat3	13	63.6	31	59.0	30	58.3	6	59.1	1	34.9
Cat4	9	67.7	14	60.9	17	56.8	5	52.9	0	0
Cat5	1	59.4	5	58.8	1	63.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.0	625	33.5	58.0	1015	54.3	58.8	143	7.7	59.3	72	3.9	59.7	13	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.961+/-	1.888	37	N VA 102'	.058+/-	1.268
12	N Dasibi CO	.584+/-	.157	38	S BOT PER	-3.428+/-	1.540
13	N TOP PAR	-2.524+/-	1.749	39	N VA 74'	.400+/-	1.097
14	N Dasibi O3	.024+/-	.002	40	S BOT PAR	-1.862+/-	1.828
15	N TOP VER	.344+/-	1.227	41	N GND PER	-.343+/-	1.118
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.358+/-	.884
17	N BOT PER	-1.986+/-	1.936	43	N GND PAR	-.989+/-	1.334
18	N BOT PAR	-1.886+/-	1.483	45	N GND VER	.232+/-	.631
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BOT VER	.298+/-	1.081	50	S TOP PER	-3.511+/-	1.480
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	*****+/-*****	
23	N HA 102'	6.875+/-	2.407	52	S TOP PAR	-2.953+/-	1.608
24	N THC/Byron	2.057+/-	.050	53	N EcoLyzr-3	1.112+/-	.327
25	N WV 102'	38.566+/-	17.508	54	S TOP VER	.332+/-	.779
26	N NMHC/Byro	1.856+/-	.090	55	N EcoLyzr-4	.612+/-	.242
27	N Gnd Temp	47.908+/-	3.301	56	S GND PER	-1.563+/-	1.463
28	N CH4/Byron	1.386+/-	.089	57	N EcoLyzr-5	.790+/-	.543
29	N WV 74'	30.841+/-	21.318	58	S GND PAR	-.499+/-	1.202
30	N CO/Byron	.156+/-	.063	59	N Rel Hum	96.548+/-	1.086
31	N 74' Temp	46.422+/-	3.326	60	S GND VER	.238+/-	.663
32	N CO2/Byron	391.223+/-	2.198	61	N Solar Rad	64.854+/-	4.735

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.32+/- 2.09	39.7+/- 23.3	-5+/- 19.2
02	17 19 21	3.39+/- 1.77	49.4+/- 35.5	8+/- 26.0
03	38 40 42	4.38+/- 1.73	25.4+/- 23.5	7.7+/- 15.3
04	41 43 45	1.83+/- 1.13	68.1+/- 48.6	3.7+/- 29.9
05	50 52 54	4.92+/- 1.63	39.4+/- 17.4	6.4+/- 12.7
06	56 58 60	2.37+/- 1.45	15.2+/- 44.5	12.4+/- 36.1

Average for 15 minute period ending at 13:45:00  
Traffic Data  
 Total Traffic = 1826 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	57.3	113	52.4	92	56.8	47	56.9	19	51.9
Cat2	54	60.9	49	52.6	133	58.4	101	57.6	59	49.8
Cat3	11	63.8	33	58.2	22	57.0	7	59.0	4	48.8
Cat4	7	65.7	2	61.8	8	58.1	8	55.0	1	39.5
Cat5	1	69.1	0	.0	1	58.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	62.9	50	55.6	64	57.5	57	55.9	32	45.7
Cat2	187	64.9	154	57.6	132	57.5	84	56.3	47	45.2
Cat3	18	65.2	23	58.6	21	59.1	8	58.2	4	42.7
Cat4	7	65.2	19	57.9	20	58.5	2	57.8	0	.0
Cat5	1	68.3	6	58.2	7	61.6	1	64.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	584	32.0	57.8	1000	54.8	58.8	151	8.3	59.1	74	4.1	61.2	17	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.573+/-	1.899	37	N VA 102'	.125+/-	.816
12	N Dasibi CO	.691+/-	.217	38	S BOT PER	-2.083+/-	1.194
13	N TOP PAR	-2.382+/-	1.468	39	N VA 74'	.358+/-	.779
14	N Dasibi O3	.022+/-	.003	40	S BOT PAR	-1.083+/-	1.484
15	N TOP VER	.220+/-	.920	41	N GND PER	-.896+/-	1.305
16	N ND/TECO	*****+/-*****		42	S BOT VER	.408+/-	.699
17	N BOT PER	-2.602+/-	1.800	43	N GND PAR	-.706+/-	.866
19	N BOT PAR	-1.551+/-	1.324	45	N GND VER	.156+/-	.482
20	N ND2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.203+/-	.802	50	S TOP PER	-2.233+/-	1.507
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	6.522+/-	1.431	52	S TOP PAR	-2.031+/-	1.352
24	N THC/Byron	2.062+/-	.076	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	37.276+/-	15.078	54	S TOP VER	.285+/-	.708
26	N MMHC/Byro	1.754+/-	.116	55	N Ecolyzer-4	.707+/-	.242
27	N Gnd Temp	49.106+/-	4.056	56	S GND PER	-.925+/-	1.080
28	N CH4/Byron	1.407+/-	.056	57	N Ecolyzer-5	.553+/-	.477
29	N WV 74'	26.416+/-	18.100	58	S GND PAR	-.083+/-	.777
30	N CO/Byron	.217+/-	.079	59	N Rel Hum	86.580+/-	.366
31	N 74' Temp	49.054+/-	3.576	60	S GND VER	.152+/-	.424
32	N CO2/Byron	388.632+/-	4.984	61	N Solar Rad	60.721+/-	4.634
35	N HA 74'	5.908+/-	1.616	66	S VA 55'	.113+/-	.859

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.78+/- 1.81	35.4+/- 21.8	6.3+/- 17.5
02	17 19 21	3.65+/- 1.55	33.6+/- 34.3	8.9+/- 24.8
03	38 40 42	2.92+/- 1.12	23.6+/- 34.8	6.6+/- 18.5
04	41 43 45	1.88+/- 1.01	43.7+/- 46.8	13.6+/- 24.3
05	50 52 54	3.52+/- 1.31	42.8+/- 25.8	7.9+/- 18.6
06	56 58 60	1.51+/- .99	345.0+/- 51.4	16.5+/- 36.2

Average for 15 minute period ending at 14:00:00  
Traffic Data  
 Total Traffic = 1910 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	58.0	95	52.3	95	58.3	56	55.3	17	52.0
Cat2	58	61.7	57	53.4	139	59.5	89	57.3	76	52.2
Cat3	11	61.6	28	58.7	15	57.6	12	55.9	2	51.7
Cat4	10	64.9	3	60.9	3	60.9	1	59.1	4	51.2
Cat5	3	62.7	1	64.3	1	84.1	2	58.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	63.1	80	56.1	79	56.9	55	54.7	27	43.8
Cat2	208	65.2	157	57.8	141	58.6	96	57.4	46	46.3
Cat3	13	65.9	33	57.9	36	58.7	8	58.5	1	42.9
Cat4	10	66.2	13	57.8	8	55.7	3	59.6	0	.0
Cat5	4	63.7	5	58.4	5	60.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	607	31.8	58.5	1088	55.9	58.8	159	8.3	60.7	55	2.9	61.3	21	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.664+/-	1.756	37	N VA 102'	.199+/-	1.082
12	N Dasibi CO	.652+/-	.207	38	S BOT PER	-4.043+/-	1.466
13	N TOP PAR	-2.671+/-	1.832	39	N VA 74'	.403+/-	.855
14	N Dasibi O3	.023+/-	.002	40	S BOT PAR	-1.924+/-	1.676
15	N TOP VER	.252+/-	1.107	41	N GND PER	-.469+/-	1.172
16	N ND/TECO	*****+/-*****		42	S BOT VER	.252+/-	.788
17	N BOT PER	-2.242+/-	1.841	43	N GND PAR	-1.269+/-	1.287
19	N BOT PAR	-1.961+/-	1.657	45	N GND VER	.227+/-	.589
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.301+/-	.825	50	S TOP PER	-4.604+/-	1.758
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.168+/-	.141
23	N HA 102'	7.173+/-	1.592	52	S TOP PAR	-3.022+/-	1.467
24	N THC/Byron	1.985+/-	.083	53	N Ecolyzer-3	1.170+/-	.360

25	N WV 102'	35.456+/-	12.444	DEGR AZ	54	S TOP VER	.086+/-	.811	mph
26	N NMHC/Byro	1.371+/-	.278	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	48.845+/-	3.354	DEGR F	56	S GND PER	-1.981+/-	1.314	mph
28	N CH4/Byron	1.422+/-	.046	ppm	57	N Ecolyzer-5	-.346+/-	.724	ppm
29	N WV 74'	24.650+/-	17.101	DEGR AZ	58	S GND PAR	-.321+/-	1.087	mph
30	N CO/Byron	.197+/-	.093	ppm	58	N Re1 Hum	96.890+/-	.234	%
31	N 74' Temp	49.080+/-	3.311	DEGR F	60	S GND VER	.145+/-	.662	mph
32	N CO2/Byron	392.281+/-	2.539	ppm	61	N Solar Rad	73.256+/-	12.423	W/m**2
35	N HA 74'	6.277+/-	1.916	mph	64	S VA 55'	-.222+/-	1.008	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	4.93+/- 1.98	34.9+/- 19.9	6.8+/- 16.0			
02	17	19	21	3.55+/- 1.82	48.2+/- 35.9	9.8+/- 22.3			
03	38	40	42	4.77+/- 1.67	22.8+/- 19.0	5.0+/- 9.6			
04	41	43	45	1.93+/- 1.16	66.3+/- 45.8	4.7+/- 21.4			
05	50	52	54	5.72+/- 1.84	33.4+/- 18.2	3.1+/- 8.3			
06	56	58	60	2.40+/- 1.24	8.8+/- 35.7	4.8+/- 19.8			

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 7450 vehicles averaging 57.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	191	58.1	388	52.2	365	57.2	210	55.9	85	52.0
Cat 2	241	61.7	314	53.1	526	59.0	365	57.5	302	51.6
Cat 3	40	62.4	111	58.8	65	57.9	34	57.2	13	49.9
Cat 4	33	65.4	23	59.6	26	59.2	16	55.9	11	50.2
Cat 5	6	64.9	10	61.1	5	66.9	2	58.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	243	63.1	264	55.8	275	57.2	221	54.9	134	45.0
Cat 2	738	65.0	613	58.0	532	58.1	355	57.4	161	45.3
Cat 3	62	65.2	112	58.6	110	59.0	32	57.8	6	41.4
Cat 4	35	67.0	67	59.4	57	58.7	12	55.4	0	.0
Cat 5	6	63.8	18	59.2	16	61.0	1	84.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.7	2374	31.9	58.2	4147	55.7	58.1	585	7.9	60.2	280	3.8	61.5	64	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.366+/- 2.000	mph	37	N VA 102'	.181+/- 1.247	mph
12	N Dasibi CO	.609+/- .192	ppm	38	S BOT PER	-2.803+/- 1.923	mph
13	N TOP PAR	-3.584+/- 2.835	ppm	39	N VA 74'	.377+/- 1.085	mph
14	N Dasibi O3	.023+/- .003	ppm	40	S BOT PAR	-2.313+/- 2.329	mph
15	N TOP VER	.204+/- 1.164	mph	41	N GND PER	-.543+/- 1.299	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.368+/- .790	mph
17	N BOT PER	-2.380+/- 1.954	mph	43	N GND PAR	-1.436+/- 1.730	mph
19	N BOT PAR	-2.747+/- 2.802	mph	45	N GND VER	.197+/- .608	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.232+/- 1.010	mph	50	S TOP PER	-3.144+/- 2.069	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.622+/- 2.472	mph	52	S TOP PAR	-3.596+/- 2.509	mph
24	N THC/Byron	2.027+/- .075	ppm	53	N Ecolyzer-3	1.109+/- .351	ppm
25	N WV 102'	42.548+/- 19.114	DEGR AZ	54	S TOP VER	.277+/- .849	mph
26	N NMHC/Byro	1.780+/- .319	ppm	55	N Ecolyzer-4	.656+/- .242	ppm
27	N Gnd Temp	48.870+/- 3.692	DEGR F	56	S GND PER	-1.251+/- 1.577	mph
28	N CH4/Byron	1.400+/- .062	ppm	57	N Ecolyzer-5	.716+/- .576	ppm
29	N WV 74'	33.749+/- 22.868	DEGR AZ	58	S GND PAR	-.466+/- 1.183	mph
30	N CO/Byron	.189+/- .078	ppm	59	N Re1 Hum	96.511+/- .661	%
31	N 74' Temp	48.168+/- 3.518	DEGR F	60	S GND VER	.187+/- .775	mph
32	N CO2/Byron	393.686+/- 4.436	ppm	61	N Solar Rad	67.238+/- 10.301	W/m**2
35	N HA 74'	6.735+/- 2.646	mph	64	S VA 55'	-.003+/- 1.052	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.55+/- 2.66	42.9+/- 23.7	3.2+/- 16.9			
02	17	19	21	4.36+/- 2.46	48.8+/- 33.9	5.3+/- 22.3			
03	38	40	42	4.44+/- 2.00	33.3+/- 31.3	6.0+/- 14.1			
04	41	43	45	2.25+/- 1.57	65.9+/- 45.2	7.1+/- 24.2			
05	50	52	54	5.38+/- 2.32	46.0+/- 24.7	5.1+/- 12.9			
06	56	58	60	2.20+/- 1.34	14.6+/- 49.7	10.9+/- 32.2			

14:03:58 -- END CAL. NCO-4  
 14:04:36 -- BEGIN CAL. NCO-5  
 14:18:40 -- END CAL. NCO-5 GRD  
 14:19:47 -- CH 3 RADAR LOOKS LIKE RANGE IS LOW WILL NOW ADJUST GRD  
 14:38:17 -- CH 3 APPEARS BETTER ADJUSTED WILL OBSERVE BEFORE MAKING FURTHER CHANGES  
 14:48:04 -- HAVE DECIDED THAT RANGE ON CH 3 RADAR IS STILL SLIGHTLY LOW WILL ADJUST GRD  
 14:57:40 -- CH 3 RADAR APPEARS TO BE ADJUSTED NOW

Average for 15 minute period ending at 14:15:00  
Traffic Data  
 Total Traffic : 1894 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	58.0	100	52.6	87	58.0	53	57.3	31	53.1
Cat2	65	60.9	53	54.3	143	59.0	101	57.9	63	52.3
Cat3	19	62.9	34	59.9	19	60.3	14	58.1	2	46.4
Cat4	16	64.9	8	58.8	6	60.3	6	59.4	3	49.7
Cat5	3	64.3	3	61.8	1	63.1	1	71.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	64.7	59	57.1	80	57.1	56	56.4	18	47.0
Cat2	182	65.3	156	59.1	139	58.5	90	57.9	34	48.8
Cat3	12	66.4	37	58.4	24	59.1	5	58.5	2	44.6
Cat4	9	67.2	22	60.1	15	61.2	6	57.4	0	0
Cat5	4	68.3	3	58.5	5	61.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	589	31.1	58.9	1026	54.2	58.8	168	8.9	61.2	91	4.8	63.3	20	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.638+/-	2.314	37	N VA 102'	.026+/-	.850
12	N Dasibi CO	.661+/-	.173	38	S BDT PER	-3.516+/-	1.574
13	N TOP PAR	-1.837+/-	1.440	39	N VA 74'	.550+/-	.983
14	N Dasibi O3	.020+/-	.003	40	S BDT PAR	-1.316+/-	1.587
15	N TOP VER	.340+/-	.960	41	N GND PER	-1.092+/-	1.374
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.268+/-	.735
17	N BDT PER	-2.918+/-	2.257	43	N GND PAR	-.633+/-	1.141
19	N BDT PAR	-.994+/-	1.257	45	N GND VER	.090+/-	.871
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.210+/-	.884	50	S TOP PER	-4.058+/-	1.988
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.148+/-	.089
23	N HA 102'	7.217+/-	1.390	52	S TOP PAR	-2.197+/-	1.383
24	N THC/Byron	2.029+/-	.094	53	N Ecolyzer-3	1.103+/-	.342
25	N WV 102'	21.784+/-	16.371	54	S TOP VER	.188+/-	.609
26	N NMHC/Byro	1.965+/-	.349	55	N Ecolyzer-4	*****+/-*****	
27	N End Temp	48.872+/-	5.232	56	S GND PER	-1.801+/-	1.453
28	N CH4/Byron	1.383+/-	.077	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	11.202+/-	18.755	58	S GND PAR	-.131+/-	1.159
30	N CO/Byron	.225+/-	.085	59	N Rel Hum	97.065+/-	.236
31	N 74' Temp	49.054+/-	3.728	60	S GND VER	.131+/-	.547
32	N CO2/Byron	395.945+/-	2.622	61	N Solar Rad	53.091+/-	6.781
35	N HA 74'	6.655+/-	2.000	64	S VA 55'	-.027+/-	.961

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.36+/- 2.17	23.4+/- 20.0	4.0+/- 14.5
02	17 19 21	3.72+/- 1.84	26.0+/- 39.5	1.9+/- 23.7
03	38 40 42	4.10+/- 1.66	18.8+/- 23.3	4.8+/- 10.6
04	41 43 45	1.98+/- 1.15	33.7+/- 46.3	9.1+/- 22.1
05	50 52 54	4.89+/- 1.93	30.3+/- 19.4	2.6+/- 10.4
06	56 58 60	2.21+/- 1.44	353.6+/- 44.4	5.3+/- 28.4

Average for 15 minute period ending at 14:30:00  
Traffic Data  
 Total Traffic : 2029 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	58.0	89	52.5	113	57.9	56	57.3	22	52.3
Cat2	54	60.4	88	52.6	142	58.2	100	58.6	85	52.1
Cat3	21	61.4	29	59.3	18	57.7	14	59.2	6	55.5
Cat4	9	64.6	9	57.2	6	57.2	7	56.7	4	48.6
Cat5	4	64.3	4	56.4	0	0	1	51.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	63.5	72	56.6	81	58.3	57	56.4	30	46.8
Cat2	232	65.5	169	58.7	147	58.3	87	58.1	36	47.0
Cat3	13	67.0	33	58.5	22	60.4	7	58.1	2	41.6
Cat4	16	67.1	16	58.7	20	63.4	3	49.5	1	41.9
Cat5	1	66.5	6	63.2	5	66.2	1	50.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	633	31.2	59.0	1120	55.2	59.4	163	8.0	60.5	91	4.5	61.9	22	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.022+/-	2.676	37	N VA 102'	-.237+/-	1.104
12	N Dasibi CO	.531+/-	.099	38	S BDT PER	-4.219+/-	1.361
13	N TOP PAR	-2.091+/-	1.381	39	N VA 74'	.347+/-	1.131
14	N Dasibi O3	.023+/-	.002	40	S BDT PAR	-.637+/-	1.967
15	N TOP VER	.239+/-	1.205	41	N GND PER	-1.482+/-	1.505
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.316+/-	.909
17	N BDT PER	-4.173+/-	1.873	43	N GND PAR	-.611+/-	1.324
19	N BDT PAR	-1.192+/-	1.235	45	N GND VER	.027+/-	.660
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.271+/-	1.236	50	S TOP PER	-4.901+/-	1.734
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.102+/-	.108
23	N HA 102'	8.688+/-	1.958	52	S TOP PAR	-1.573+/-	1.861
24	N THC/Byron	1.956+/-	.080	53	N Ecolyzer-3	1.028+/-	.360
25	N WV 102'	18.038+/-	14.287	54	S TOP VER	.167+/-	.839
26	N NMHC/Byro	1.894+/-	.158	55	N Ecolyzer-4	.675+/-	.184
27	N End Temp	49.836+/-	4.191	56	S GND PER	-2.009+/-	1.455
28	N CH4/Byron	1.340+/-	.110	57	N Ecolyzer-5	.681+/-	.516
29	N WV 74'	10.081+/-	16.243	58	S GND PAR	.282+/-	1.227
30	N CO/Byron	.200+/-	.095	59	N Rel Hum	97.193+/-	.248
31	N 74' Temp	47.725+/-	3.339	60	S GND VER	.224+/-	.667

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	6.68+/- 2.50	21.9+/- 17.8	3.3+/- 10.1
02	17 18 21	4.84+/- 1.70	19.5+/- 24.9	1.2+/- 11.9
03	38 40 42	4.72+/- 1.55	5.4+/- 21.8	2.9+/- 11.2
04	41 43 45	2.28+/- 1.33	28.8+/- 42.4	-1.5+/- 24.5
05	50 52 54	5.53+/- 1.79	17.7+/- 18.3	2.8+/- 10.7
06	56 58 60	2.43+/- 1.48	346.5+/- 36.4	9.2+/- 23.1

Average for 15 minute period ending at 14:45:00  
Traffic Data  
 Total Traffic = 1985 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	59.2	103	51.6	45	57.6	56	57.5	30	53.4
Cat2	86	60.9	115	53.0	138	59.4	109	58.9	83	53.2
Cat3	17	61.3	30	57.9	18	58.4	14	57.9	2	45.1
Cat4	9	64.9	14	59.2	8	60.8	3	62.7	1	60.7
Cat5	3	65.7	2	59.8	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	64.7	60	57.4	63	58.8	60	57.3	36	46.5
Cat2	187	66.3	163	59.0	121	59.6	92	58.1	39	47.7
Cat3	17	65.2	31	61.8	18	58.6	8	56.0	1	42.6
Cat4	14	67.5	13	61.2	14	59.5	3	63.6	0	.0
Cat5	4	66.7	8	59.2	5	60.6	1	52.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	594	29.9	59.0	1133	57.1	59.6	156	7.9	62.2	79	4.0	61.4	23	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.335+/-	2.036	37	N VA 102'	-.191+/-	1.311
12	N Dasibi CO	.534+/-	.110	38	S BOT PER	-3.493+/-	1.494
13	N TOP PAR	-3.048+/-	1.707	39	N VA 74'	.184+/-	1.070
14	N Dasibi O3	.021+/-	.002	40	S BOT PAR	-1.527+/-	1.640
15	N TOP VER	-.011+/-	1.016	41	N GND PER	-.815+/-	1.373
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.300+/-	.829
17	N BOT PER	-3.106+/-	2.070	43	N GND PAR	-1.462+/-	1.534
19	N BOT PAR	-2.117+/-	1.578	45	N GND VER	.101+/-	.745
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	-.016+/-	1.058	50	S TOP PER	-3.715+/-	1.717
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.136+/-	.091
23	N HA 102'	7.390+/-	1.617	52	S TOP PAR	-2.762+/-	1.621
24	N THC/Byron	1.979+/-	.085	53	N Ecolyzer-3	1.078+/-	.326
25	N WV 102'	33.180+/-	13.079	54	S TOP VER	.158+/-	.856
26	N NMHC/Byro	1.741+/-	.101	55	N Ecolyzer-4	.758+/-	.229
27	N Gnd Temp	46.501+/-	4.188	56	S GND PER	-1.466+/-	1.443
28	N CH4/Byron	1.361+/-	.108	57	N Ecolyzer-5	.885+/-	.459
29	N WV 74'	24.656+/-	16.342	58	S GND PAR	-.410+/-	1.040
30	N CO/Byron	.200+/-	.115	59	N Rel Hum	97.297+/-	.271
31	N 74' Temp	46.292+/-	2.360	60	S GND VER	.159+/-	.516
32	N CO2/Byron	391.142+/-	4.508	61	N Solar Rad	54.091+/-	6.269
35	N HA 74'	6.552+/-	2.070	64	S VA 55'	-.035+/-	1.034

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.62+/- 2.19	35.4+/- 16.3	3.0+/- 13.1
02	17 18 21	4.24+/- 2.05	38.7+/- 27.5	2.2+/- 19.9
03	38 40 42	4.24+/- 1.54	-21.9+/- 25.6	5.7+/- 13.6
04	41 43 45	2.37+/- 1.40	85.1+/- 45.3	-1.4+/- 26.9
05	50 52 54	5.01+/- 1.64	36.5+/- 22.9	4.6+/- 14.0
06	56 58 60	2.03+/- 1.37	8.5+/- 51.2	11.8+/- 30.4

Average for 15 minute period ending at 15:00:00  
Traffic Data  
 Total Traffic = 2044 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	57.2	82	50.8	90	57.5	61	57.3	30	51.6
Cat2	82	60.2	153	54.2	136	59.0	81	58.3	99	51.0
Cat3	13	59.3	23	56.8	22	60.1	6	59.0	4	52.1
Cat4	8	67.4	18	61.4	1	60.3	2	54.2	3	50.4
Cat5	3	66.7	3	59.7	0	.0	1	52.6	2	45.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	64.5	72	57.8	82	59.1	55	56.9	25	46.5
Cat2	211	68.5	163	59.8	155	60.8	83	59.6	48	47.5
Cat3	12	66.9	29	59.4	22	61.5	7	57.2	2	42.4
Cat4	9	66.1	16	60.2	9	60.3	1	63.4	0	.0
Cat5	1	72.5	6	61.2	6	62.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	604	29.5	59.0	1211	59.2	59.5	140	6.8	61.6	67	3.3	60.7	22	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.120+/-	1.910	37	N VA 102'	.087+/-	1.328
12	N Dasibi CO	.586+/-	.119	38	S BOT PER	-3.565+/-	1.366
13	N TOP PAR	-3.634+/-	1.959	39	N VA 74'	.345+/-	1.822
14	N Dasibi O3	.020+/-	.002	40	S BOT PAR	-2.644+/-	1.916
15	N TOP VER	.284+/-	1.301	41	N GND PER	-1.039+/-	1.312
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.374+/-	.788
17	N BOT PER	-2.354+/-	2.087	43	N GND PAR	-1.610+/-	1.412
19	N BOT PAR	-2.790+/-	1.790	45	N GND VER	.109+/-	.818
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.378+/-	1.198	50	S TOP PER	-4.080+/-	1.723
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.210+/-	.091
23	N HA 102'	8.541+/-	1.982	52	S TOP PAR	-3.627+/-	1.708



24	N THC/Byron	1.998+/-	.104	ppm	53	N Ecolyzer-3	.944+/-	.336	ppm
25	N WV 102'	41.073+/-	13.737	DEGR AZ	54	S TOP VER	.397+/-	.731	mph
26	N NMHC/Byro	2.019+/-	.536	ppm	55	N Ecolyzer-4	.746+/-	.207	ppm
27	N Gnd Temp	47.517+/-	3.380	DEGR F	56	S GND PER	-1.647+/-	1.291	mph
28	N CH4/Byron	1.314+/-	.087	ppm	57	N Ecolyzer-5	.859+/-	.593	ppm
29	N WV 74'	31.447+/-	17.851	DEGR AZ	58	S GND PAR	-.728+/-	1.266	mph
30	N CO/Byron	.241+/-	.081	ppm	59	N Rel Hum	97.443+/-	.186	%
31	N 74' Temp	48.194+/-	2.858	DEGR F	60	S GND VER	.165+/-	.625	mph
32	N CO2/Byron	391.386+/-	5.909	ppm	61	N Solar Rad	39.557+/-	3.727	W/m**2
35	N HA 74'	7.390+/-	2.205	mph	64	S VA 55'	.108+/-	.885	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.93+/-	2.06	40.7+/-	17.2	1.6+/- 14.2
02	17 19 21	4.35+/-	1.93	54.9+/-	30.9	5.2+/- 23.9
03	38 40 42	4.89+/-	1.50	34.4+/-	22.4	4.1+/- 14.9
04	41 43 45	2.47+/-	1.26	56.7+/-	37.2	1.7+/- 18.8
05	50 52 54	5.81+/-	1.59	42.1+/-	18.1	.5+/- 8.9
06	56 58 60	2.31+/-	1.26	20.1+/-	41.3	8.2+/- 26.4

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 7952 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	180	58.2	374	51.9	375	57.8	226	57.4	113	52.6
Cat 2	287	60.6	389	53.6	559	59.1	391	58.4	330	52.1
Cat 3	70	61.4	116	58.6	75	59.2	48	58.5	14	51.7
Cat 4	42	65.3	49	59.6	21	59.6	18	58.3	11	50.5
Cat 5	13	65.2	12	59.2	1	63.1	3	58.6	2	45.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	236	64.3	275	57.2	306	58.5	228	56.8	109	46.7
Cat 2	812	65.9	651	59.1	562	59.8	352	58.4	197	47.3
Cat 3	54	66.3	130	59.4	86	59.9	27	56.3	7	42.8
Cat 4	48	67.1	67	60.0	58	61.4	13	57.5	1	41.9
Cat 5	10	67.9	23	60.7	21	62.5	2	51.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	2420	30.4	59.0	4490	56.5	59.6	627	7.9	61.3	328	4.1	61.8	87	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.779+/-	2.363	37	N VA 102'	-.079+/-	1.170
12	N Dasibi CO	-.578+/-	.139	38	S BOT PER	-3.698+/-	1.477
13	N TOP PAR	-2.852+/-	1.785	39	N VA 74'	.357+/-	1.100
14	N Dasibi O3	.021+/-	.003	40	S BOT PAR	-1.531+/-	1.921
15	N TOP VER	.213+/-	1.135	41	N GND PER	-1.107+/-	1.408
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.314+/-	.817
17	N BOT PER	-3.138+/-	2.166	43	N GND PAR	-1.079+/-	1.431
19	N BOT PAR	-1.773+/-	1.646	45	N GND VER	.062+/-	.725
20	N NO2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.210+/-	1.110	50	S TOP PER	-4.188+/-	1.839
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.148+/-	.103
23	N HA 102'	7.859+/-	1.858	52	S TOP PAR	-2.540+/-	1.811
24	N THC/Byron	1.990+/-	.095	53	N Ecolyzer-3	1.038+/-	.346
25	N WV 102'	28.542+/-	16.869	54	S TOP VER	1.027+/-	.817
26	N NMHC/Byro	1.905+/-	.341	55	N Ecolyzer-4	.743+/-	.210
27	N Gnd Temp	48.181+/-	4.380	56	S GND PER	-1.731+/-	1.421
28	N CH4/Byron	1.351+/-	.098	57	N Ecolyzer-5	.765+/-	.548
29	N WV 74'	19.343+/-	19.296	58	S GND PAR	-.247+/-	1.229
30	N CO/Byron	.217+/-	.096	59	N Rel Hum	97.256+/-	.265
31	N 74' Temp	47.816+/-	3.197	60	S GND VER	-.170+/-	.592
32	N CO2/Byron	393.136+/-	5.121	61	N Solar Rad	50.730+/-	8.330
35	N HA 74'	7.122+/-	2.144	64	S VA 55'	-.005+/-	.974

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.89+/-	2.28	30.4+/-	19.3	3.0+/- 13.1
02	17 19 21	4.24+/-	1.91	34.8+/-	33.2	2.6+/- 20.4
03	38 40 42	4.48+/-	1.59	20.1+/-	25.1	4.4+/- 12.7
04	41 43 45	2.28+/-	1.30	46.4+/-	44.0	2.0+/- 23.6
05	50 52 54	5.31+/-	1.78	31.6+/-	21.7	2.8+/- 11.2
06	56 58 60	2.25+/-	1.39	1.3+/-	44.8	8.6+/- 27.2

15:13:42 -- RANGE ON CH. 5 RADAR APPEARS LOW WILL ADJUST GRD  
 15:29:39 -- CH 5 RADAR APPEARS TO BE BETTER ADJUSTED GRD  
 15:30:05 -- START CAL. NCD-2  
 15:42:47 -- END CAL. NCD-2  
 15:43:05 -- BEGIN CAL. NCD-3  
 15:54:08 -- END CAL. NCD-3  
 15:54:21 -- BEGIN CAL. NCD-4

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2088 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	57.2	61	52.2	116	58.1	63	56.6	22	52.1
Cat2	60	60.4	177	54.1	116	58.5	107	57.7	79	52.2
Cat3	11	60.3	28	58.5	19	59.1	6	60.1	8	52.8
Cat4	14	64.3	17	59.1	3	57.3	7	55.5	3	52.0
Cat5	2	63.0	10	61.3	0	.0	1	57.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	65.3	83	57.0	93	57.9	53	56.4	21	46.3
Cat2	207	65.8	167	60.3	123	59.4	116	57.6	49	46.4
Cat3	15	67.6	36	60.8	24	57.0	6	57.9	4	42.0
Cat4	11	67.8	22	61.0	14	60.8	2	57.6	0	.0
Cat5	1	70.3	7	64.8	6	63.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	610	29.2	58.5	1201	57.5	59.2	157	7.5	61.0	93	4.5	63.0	27	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.892+/-	1.851	37	N VA 102'	-1.102+/-	1.172
12	N Dasibi CD	.899+/-	.311	38	S BDT PER	-3.427+/-	1.453
13	N TOP PAR	-2.712+/-	1.625	39	N VA 74'	.261+/-	.910
14	N Dasibi D3	.018+/-	.002	40	S BDT PAR	-2.060+/-	1.693
15	N TOP VER	.138+/-	.991	41	N GND PER	-1.680+/-	1.277
16	N NDX/TECD	*****+/-*****		42	S BDT VER	.261+/-	.862
17	N BDT PER	-2.464+/-	1.994	43	N GND PAR	-1.110+/-	1.190
19	N BDT PAR	-1.939+/-	1.479	45	N GND VER	.196+/-	.625
20	N ND2/TECD	*****+/-*****		49	N EcoLyzor-1	*****+/-*****	
21	N BDT VER	.172+/-	.872	50	S TOP PER	-3.774+/-	1.837
22	N ND/TECD	*****+/-*****		51	N EcoLyzor-2	1.286+/-	.126
23	N HA 102'	7.184+/-	1.661	52	S TOP PAR	-3.052+/-	1.638
24	N THC/Byron	2.001+/-	.097	53	N EcoLyzor-3	1.084+/-	.386
25	N WV 102'	32.250+/-	13.856	54	S TDP VER	.117+/-	.897
26	N NMHC/Byro	1.734+/-	.312	55	N EcoLyzor-4	.838+/-	.264
27	N Gnd Temp	47.569+/-	2.407	56	S GND PER	-1.603+/-	1.308
28	N CH4/Byron	1.319+/-	.078	57	N EcoLyzor-5	.943+/-	.641
29	N WV 74'	24.443+/-	16.940	58	S GND PAR	-.388+/-	1.140
30	N CD/Byron	.281+/-	.083	59	N Rel Hum	97.509+/-	.203
31	N 74' Temp	48.403+/-	4.073	60	S GND VER	.209+/-	.648
32	N CO2/Byron	395.782+/-	3.734	61	N Solar Rad	32.109+/-	2.637
35	N HA 74'	6.204+/-	1.960	64	S VA 55'	-.126+/-	1.033

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.95+/- 1.94	36.4+/- 18.7	2.1+/- 14.7
02	17 19 21	3.72+/- 1.77	47.3+/- 33.3	2.7+/- 21.9
03	38 40 42	4.37+/- 1.65	28.9+/- 20.7	6.1+/- 16.1
04	41 43 45	2.04+/- 1.02	58.8+/- 45.6	9.8+/- 23.4
05	50 52 54	5.25+/- 1.78	39.8+/- 20.9	3.3+/- 14.3
06	58 58 60	2.08+/- 1.33	5.3+/- 44.0	6.0+/- 26.8

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2249 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	58.4	46	51.4	101	57.0	70	56.0	22	51.0
Cat2	81	59.9	205	53.5	187	58.4	101	58.5	103	51.0
Cat3	17	60.9	20	58.8	28	57.1	13	55.2	9	50.9
Cat4	10	61.4	23	59.2	4	54.8	4	58.4	4	51.5
Cat5	3	64.7	7	62.6	0	.0	2	55.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	64.1	77	56.8	88	57.4	65	56.6	29	46.9
Cat2	193	66.4	183	58.9	153	58.8	113	58.3	53	46.1
Cat3	12	66.1	41	58.6	27	59.4	5	55.6	0	.0
Cat4	6	70.0	12	58.0	13	60.9	6	56.1	1	46.8
Cat5	1	69.4	4	60.7	7	62.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	618	27.5	58.0	1352	60.1	58.5	172	7.6	59.3	83	3.7	62.3	24	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.727+/-	1.938	37	N VA 102'	-.049+/-	1.111
12	N Dasibi CD	.485+/-	.096	38	S BDT PER	-3.819+/-	1.413
13	N TOP PAR	-3.132+/-	1.735	39	N VA 74'	.249+/-	1.062
14	N Dasibi D3	.020+/-	.003	40	S BDT PAR	-2.037+/-	1.674
15	N TOP VER	.220+/-	1.149	41	N GND PER	-.737+/-	1.280
16	N NDX/TECD	*****+/-*****		42	S BDT VER	.250+/-	.810
17	N BDT PER	-2.340+/-	2.126	43	N GND PAR	-1.493+/-	1.407
19	N BDT PAR	-2.205+/-	1.619	45	N GND VER	.241+/-	.611
20	N ND2/TECD	*****+/-*****		49	N EcoLyzor-1	*****+/-*****	
21	N BDT VER	.199+/-	.991	50	S TOP PER	-4.323+/-	1.702
22	N ND/TECD	*****+/-*****		51	N EcoLyzor-2	1.239+/-	.267
23	N HA 102'	7.719+/-	1.611	52	S TOP PAR	-3.003+/-	1.469
24	N THC/Byron	1.987+/-	.065	53	N EcoLyzor-3	.915+/-	.314
25	N WV 102'	40.333+/-	13.373	54	S TDP VER	.004+/-	.771
26	N NMHC/Byro	1.948+/-	.091	55	N EcoLyzor-4	.873+/-	.249
27	N Gnd Temp	48.611+/-	3.948	56	S GND PER	-1.852+/-	1.259
28	N CH4/Byron	1.405+/-	.096	57	N EcoLyzor-5	.725+/-	.481
29	N WV 74'	29.060+/-	17.924	58	S GND PAR	-.602+/-	1.194
30	N CD/Byron	.210+/-	.096	59	N Rel Hum	97.655+/-	.275
31	N 74' Temp	45.224+/-	3.351	60	S GND VER	.230+/-	.625

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.17+/- 2.10	40.5+/- 17.4	9+/- 12.1
02	17 19 21	3.73+/- 2.19	49.4+/- 34.7	4.7+/- 23.9
03	38 40 42	4.67+/- 1.56	25.6+/- 19.2	1.7+/- 13.6
04	41 43 45	2.28+/- 1.22	68.1+/- 41.4	6.3+/- 18.8
05	50 52 54	5.52+/- 1.65	35.7+/- 17.0	1.1+/- 8.3
06	56 58 60	2.37+/- 1.30	12.9+/- 37.6	8.3+/- 20.7

Average for 15 minute period ending at 15:45:00  
Traffic Data  
 Total Traffic = 2442 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	57.5	44	52.2	101	56.0	65	55.1	35	52.8
Cat2	76	60.0	232	53.2	161	58.0	101	58.0	83	51.2
Cat3	8	59.5	29	58.5	26	57.3	13	58.8	10	50.1
Cat4	10	66.0	20	59.9	10	59.7	10	59.4	5	51.7
Cat5	2	65.4	6	63.1	2	59.8	0	.0	1	***

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	63.9	76	55.9	93	56.3	69	55.0	27	46.0
Cat2	204	65.4	211	57.2	199	57.6	138	55.6	71	44.9
Cat3	15	66.5	35	58.2	29	59.0	9	55.7	1	46.2
Cat4	17	68.7	17	58.6	17	59.8	4	53.1	0	.0
Cat5	3	66.3	7	60.0	13	58.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	647	26.5	57.0	1476	60.4	58.4	175	7.2	60.9	110	4.5	63.0	34	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.723+/- 1.831	mph	37	N VA 102'	.173+/- 1.220	mph
12	N Dasibi CD	.638+/- .202	ppm	38	S BOT PER	-3.536+/- 1.633	mph
13	N TOP PAR	-2.956+/- 1.874	mph	39	N VA 74'	.586+/- 1.101	mph
14	N Dasibi 03	.019+/- .003	ppm	40	S BOT PAR	-1.962+/- 1.883	mph
15	N TOP VER	.248+/- 1.276	mph	41	N GND PER	-.737+/- 1.331	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.404+/- 1.935	mph
17	N BOT PER	-2.426+/- 2.092	mph	43	N GND PAR	-1.386+/- 1.228	mph
19	N BOT PAR	-2.251+/- 1.713	mph	45	N GND VER	.248+/- .663	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.228+/- 1.163	mph	50	S TOP PER	-3.808+/- 2.036	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.873+/- 1.758	mph	52	S TOP PAR	-3.528+/- 1.801	mph
24	N THC/Byron	1.933+/- 1.103	ppm	53	N Ecolyzer-3	1.007+/- .388	ppm
25	N WV 102'	35.145+/- 13.115	DEGR AZ	54	S TOP VER	.310+/- .839	ppm
26	N NMHC/Byro	1.910+/- .104	ppm	55	N Ecolyzer-4	.737+/- .261	ppm
27	N Gnd Temp	48.376+/- 2.498	DEGR F	56	S GND PER	-1.544+/- 1.621	mph
28	N CH4/Byron	1.352+/- .074	ppm	57	N Ecolyzer-5	.860+/- .582	ppm
29	N WV 74'	24.398+/- 17.013	DEGR AZ	58	S GND PAR	-.449+/- .883	mph
30	N CO/Byron	.166+/- .089	ppm	59	N Rel Hum	97.883+/- 1.157	%
31	N 74' Temp	47.230+/- 4.706	DEGR F	60	S GND VER	.248+/- .598	mph
32	N CO2/Byron	397.248+/- 5.275	ppm	61	N Solar Rad	47.869+/- 11.502	W/m**2
35	N HA 74'	6.674+/- 1.975	mph	64	S VA 55'	.125+/- 1.012	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.16+/- 2.04	37.5+/- 19.6	4.7+/- 16.4
02	17 19 21	3.93+/- 1.94	48.8+/- 32.8	8.6+/- 23.4
03	38 40 42	4.53+/- 1.68	27.2+/- 24.7	3.5+/- 13.7
04	41 43 45	2.18+/- 1.13	86.3+/- 40.8	7.6+/- 16.4
05	50 52 54	5.48+/- 2.19	44.1+/- 17.4	.8+/- 9.8
06	56 58 60	2.08+/- 1.47	11.2+/- 49.2	14.1+/- 31.1

Average for 15 minute period ending at 16:00:00  
Traffic Data  
 Total Traffic = 2520 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	57.9	24	52.5	106	58.2	62	56.1	25	52.5
Cat2	85	61.0	228	54.2	162	58.6	118	58.4	95	51.5
Cat3	20	61.9	35	58.5	29	60.3	11	58.7	10	50.5
Cat4	6	66.3	26	62.0	11	58.9	6	60.8	5	47.6
Cat5	1	59.7	9	60.5	1	53.3	1	61.6	1	48.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	63.5	78	55.7	100	56.3	77	56.0	39	45.3
Cat2	216	65.9	221	58.3	212	58.2	111	57.7	78	47.4
Cat3	13	66.3	52	58.8	33	58.0	16	55.5	2	41.3
Cat4	9	69.9	27	60.9	21	59.2	3	58.6	0	.0
Cat5	4	67.2	6	61.0	11	59.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	628	24.9	58.0	1523	60.4	58.8	221	8.8	61.0	114	4.5	60.5	34	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.167+/- 2.025	mph	37	N VA 102'	.067+/- 1.274	mph
12	N Dasibi CD	.553+/- 1.09	ppm	38	S BOT PER	-3.401+/- 1.821	mph
13	N TOP PAR	-3.877+/- 2.039	mph	39	N VA 74'	.347+/- 1.101	mph
14	N Dasibi 03	.021+/- .002	ppm	40	S BOT PAR	-1.740+/- 1.491	mph
15	N TOP VER	.061+/- 1.254	mph	41	N GND PER	-.695+/- 1.202	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.471+/- .869	mph
17	N BOT PER	-2.587+/- 2.102	mph	43	N GND PAR	-1.727+/- 1.251	mph
19	N BOT PAR	-2.867+/- 1.787	mph	45	N GND VER	.210+/- .783	ppm
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.175+/- 1.155	mph	50	S TOP PER	-3.636+/- 2.227	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.243+/- .183	ppm
23	N HA 102'	8.962+/- 1.529	mph	52	S TOP PAR	-2.966+/- 1.471	mph

24	N THC/Byron	1.996+/-	.078	ppm	53	N Ecolyzer-3	*****+/-*****	ppm	
25	N WV 102'	41.690+/-	9.870	DEGR AZ	54	S TOP VER	.327+/-	.832	mph
26	N NMHC/Byro	1.801+/-	.163	ppm	55	N Ecolyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	48.950+/-	4.917	DEGR F	56	S GND PER	-1.213+/-	1.467	mph
28	N CH4/Byron	1.369+/-	.088	ppm	57	N Ecolyzer-5	.746+/-	1.497	ppm
29	N WV 74'	30.082+/-	17.564	DEGR AZ	58	S GND PAR	-.427+/-	1.024	mph
30	N CD/Byron	.347+/-	.118	ppm	59	N Rel Hum	98.111+/-	.252	%
31	N 74' Temp	45.406+/-	3.760	DEGR F	60	S GND VER	.186+/-	.529	mph
32	N CO2/Byron	389.839+/-	8.181	ppm	61	N Solar Rad	38.784+/-	9.512	W/m**2
35	N HA 74'	7.789+/-	2.092	mph	64	S VA 55'	.150+/-	.994	mph

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15		8.07+/-	2.25	42.8+/-	18.6	.0+/-	10.7
02	17	19	21		4.44+/-	1.86	51.9+/-	28.4	-.3+/-	16.8
03	38	40	42		4.25+/-	1.67	29.4+/-	24.4	3.6+/-	13.0
04	41	43	45		2.37+/-	1.19	71.4+/-	38.9	7.2+/-	21.2
05	50	52	54		5.04+/-	2.08	41.6+/-	20.2	-1.5+/-	10.2
06	56	58	60		1.85+/-	1.34	10.0+/-	52.5	8.6+/-	34.0

Average for hourly period ending at 16:00:00  
Traffic Data  
Total Traffic = 8299 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	212	57.3	175	52.0	424	57.4	260	55.9	104	52.2
Cat2	302	60.3	842	53.7	606	58.4	427	58.1	357	51.4
Cat3	56	61.0	112	58.6	102	58.4	43	57.9	37	50.9
Cat4	40	64.3	86	60.2	28	58.4	27	58.6	17	50.5
Cat5	8	63.8	32	61.7	3	57.6	4	57.7	2	93.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	280	64.1	314	56.4	374	56.9	264	56.0	116	46.0
Cat2	820	65.9	782	58.6	687	58.4	478	57.2	251	46.2
Cat3	55	66.7	164	59.0	113	58.4	36	56.0	7	42.4
Cat4	43	68.9	78	60.0	65	60.0	15	56.0	1	46.8
Cat5	9	67.5	24	61.7	37	60.2	0	0	0	0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
56.5	2503	26.9	57.8	5552	59.7	58.7	725	7.8	60.6	400	4.3	62.1	119	1.3

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	-3.828+/-	1.915	mph	37	N VA 102'	.022+/-	1.188	mph
12	N Dasibi CO	.596+/-	.214	ppm	38	S BOT PER	-3.546+/-	1.590	mph
13	N TOP PAR	-3.169+/-	1.868	mph	39	N VA 74'	.361+/-	1.054	mph
14	N Dasibi O3	.019+/-	.003	ppm	40	S BOT PAR	-1.954+/-	1.689	mph
15	N TOP VER	.167+/-	1.173	mph	41	N GND PER	-.707+/-	1.268	mph
16	N ND/TECO	*****+/-*****		ppm	42	S BOT VER	.347+/-	.873	mph
17	N BOT PER	-2.454+/-	2.072	mph	43	N GND PAR	-1.429+/-	1.286	mph
19	N BOT PAR	-2.316+/-	1.732	mph	45	N GND VER	.224+/-	.673	mph
20	N ND2/TECO	*****+/-*****		ppm	49	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.193+/-	1.050	mph	50	S TOP PER	-3.885+/-	1.970	mph
22	N ND/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	1.250+/-	.205	ppm
23	N HA 102'	7.934+/-	1.759	mph	52	S TOP PAR	-3.137+/-	1.611	mph
24	N THC/Byron	1.979+/-	.089	ppm	53	N Ecolyzer-3	.990+/-	.362	ppm
25	N WV 102'	37.371+/-	13.185	DEGR AZ	54	S TOP VER	.190+/-	.845	mph
26	N NMHC/Byro	1.848+/-	.203	ppm	55	N Ecolyzer-4	.735+/-	.260	ppm
27	N Gnd Temp	48.378+/-	3.543	DEGR F	56	S GND PER	-1.553+/-	1.433	mph
28	N CH4/Byron	1.361+/-	.088	ppm	57	N Ecolyzer-5	.818+/-	.561	ppm
29	N WV 74'	26.990+/-	17.505	DEGR AZ	58	S GND PAR	-.469+/-	1.067	mph
30	N CD/Byron	.246+/-	.117	ppm	59	N Rel Hum	97.789+/-	.325	%
31	N 74' Temp	46.566+/-	4.121	DEGR F	60	S GND VER	.218+/-	.601	mph
32	N CO2/Byron	394.802+/-	6.185	ppm	61	N Solar Rad	38.297+/-	9.758	W/m**2
35	N HA 74'	6.835+/-	2.115	mph	64	S VA 55'	-.007+/-	1.008	mph

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15		5.34+/-	2.12	39.3+/-	18.7	1.9+/-	13.7
02	17	19	21		3.95+/-	1.98	49.4+/-	32.3	3.9+/-	21.8
03	38	40	42		4.45+/-	1.64	27.8+/-	22.3	3.7+/-	14.3
04	41	43	45		2.22+/-	1.14	66.5+/-	41.4	7.7+/-	20.1
05	50	52	54		5.32+/-	1.94	40.3+/-	19.1	.8+/-	11.0
06	56	58	60		2.10+/-	1.37	9.9+/-	46.6	9.2+/-	28.6

16:07:17 -- END CAL . NCO-4 GRD  
 16:07:34 -- BEGIN CAL. NCO-5  
 16:17:34 -- END CAL. NCO-5 GRD  
 16:37:35 -- CH 1 RADAR IS SLIGHTLY OUT OF CALIBRATION WILL ADJUST GRD  
 16:52:23 -- APPEAR TO HAVE CORRECTED CH. 1 RADAR GRD

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2427 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	58.0	41	51.3	93	57.5	75	56.8	28	52.6
Cat2	92	59.8	198	52.9	179	58.7	94	57.1	106	51.5
Cat3	21	61.9	35	57.2	22	58.7	8	57.3	9	52.1
Cat4	7	64.1	31	59.8	13	58.9	5	58.0	3	45.2
Cat5	1	66.7	7	61.8	2	56.3	1	57.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	63.2	89	56.6	101	56.8	73	55.0	54	45.5
Cat2	189	65.0	218	57.9	180	57.2	111	57.5	70	47.7
Cat3	12	64.7	33	58.2	21	58.7	13	59.1	1	49.4
Cat4	9	67.8	16	58.5	30	60.9	2	63.0	0	.0
Cat5	3	60.2	4	57.2	3	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	678	27.9	57.2	1437	59.2	58.7	175	7.2	60.3	116	4.8	60.1	21	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.357+/-	1.955	37	N VA 102'	.115+/-	1.238
12	N Dasibi CD	.557+/-	.095	38	S BOT PER	-3.385+/-	1.788
13	N TOP PAR	-4.830+/-	2.291	39	N VA 74'	.281+/-	1.103
14	N Dasibi O3	.021+/-	.002	40	S BOT PAR	-4.204+/-	2.164
15	N TOP VER	.120+/-	1.312	41	N GND PER	-.747+/-	1.809
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.480+/-	.874
17	N BOT PER	-1.956+/-	2.088	43	N GND PAR	-2.261+/-	1.720
19	N BOT PAR	-3.976+/-	2.284	45	N GND VER	.221+/-	.862
20	N ND2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.178+/-	1.147	50	S TOP PER	-3.583+/-	1.935
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.133+/-	.343
23	N HA 102'	8.533+/-	1.999	52	S TOP PAR	-5.805+/-	2.242
24	N THC/Byron	1.996+/-	.086	53	N Ecolyzer-3	1.140+/-	.329
25	N WV 102'	50.797+/-	14.195	54	S TOP VER	.241+/-	.873
26	N NMHC/Byro	2.040+/-	.063	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	45.953+/-	2.556	56	S GND PER	-1.452+/-	1.798
28	N CH4/Byron	1.376+/-	.074	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	44.303+/-	18.412	58	S GND PAR	-1.001+/-	1.125
30	N CD/Byron	.234+/-	.069	59	N Rel Hum	98.144+/-	.183
31	N 74' Temp	45.146+/-	3.439	60	S GND VER	.230+/-	.787
32	N CO2/Byron	389.025+/-	4.702	61	N Solar Rad	27.795+/-	2.853
35	N HA 74'	7.569+/-	2.560	64	S VA 55'	-.106+/-	1.086

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.27+/- 2.47	55.4+/- 16.9	3.9+/- 13.8
02	17 19 21	5.04+/- 2.34	87.2+/- 25.1	5.3+/- 18.1
03	38 40 42	5.78+/- 2.05	50.3+/- 20.5	5.0+/- 9.0
04	41 43 45	3.05+/- 1.72	73.5+/- 35.4	5.8+/- 19.7
05	50 52 54	6.91+/- 2.41	57.4+/- 15.5	1.4+/- 7.8
06	56 58 60	2.46+/- 1.45	37.4+/- 45.8	11.0+/- 25.0

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2494 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	57.0	65	51.8	118	56.4	68	55.5	55	50.2
Cat2	69	60.3	166	53.0	168	58.2	97	56.3	88	49.8
Cat3	18	61.7	32	56.7	27	56.8	5	56.5	10	50.2
Cat4	11	63.0	23	59.0	9	56.6	3	53.4	4	51.4
Cat5	2	60.6	10	60.0	0	.0	1	53.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	62.8	117	55.6	118	56.2	81	55.2	56	48.8
Cat2	211	64.1	216	56.4	176	57.0	109	58.7	68	46.2
Cat3	16	65.3	27	57.1	25	56.7	10	56.9	1	43.1
Cat4	4	70.3	27	57.0	12	54.1	3	55.4	0	.0
Cat5	2	70.6	7	56.2	7	58.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	810	32.5	56.7	1388	55.7	58.0	171	6.9	58.1	96	3.8	59.2	29	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.633+/-	1.844	37	N VA 102'	-.029+/-	1.095
12	N Dasibi CD	6.633+/-	1.107	38	S BOT PER	-3.957+/-	2.068
13	N TOP PAR	-3.157+/-	1.784	39	N VA 74'	-.384+/-	1.082
14	N Dasibi O3	.018+/-	.002	40	S BOT PAR	-2.559+/-	1.930
15	N TOP VER	.317+/-	1.288	41	N GND PER	-.939+/-	1.323
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.291+/-	.802
17	N BOT PER	-2.183+/-	2.014	43	N GND PAR	-1.293+/-	1.394
19	N BOT PAR	-2.107+/-	1.481	45	N GND VER	.155+/-	.614
20	N ND2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.320+/-	1.148	50	S TOP PER	-4.070+/-	1.945
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.188+/-	.088
23	N HA 102'	7.963+/-	1.899	52	S TOP PAR	-3.643+/-	1.720
24	N THC/Byron	1.949+/-	.135	53	N Ecolyzer-3	1.255+/-	.351
25	N WV 102'	39.925+/-	15.514	54	S TOP VER	.229+/-	.782
26	N NMHC/Byro	1.904+/-	.114	55	N Ecolyzer-4	1.010+/-	.218
27	N Gnd Temp	47.100+/-	2.783	56	S GND PER	-1.713+/-	1.633
28	N CH4/Byron	1.304+/-	.108	57	N Ecolyzer-5	.897+/-	.538
29	N WV 74'	28.144+/-	20.260	58	S GND PAR	-.686+/-	1.040
30	N CD/Byron	.199+/-	.125	59	N Rel Hum	98.160+/-	.271
31	N 74' Temp	46.084+/-	3.177	60	S GND VER	.277+/-	.675
32	N CO2/Byron	395.108+/-	4.490	61	N Solar Rad	18.076+/-	4.830
35	N HA 74'	6.856+/-	2.200	64	S VA 55'	-.079+/-	.995

UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.28+/-	1.84	41.5+/-	19.6
02	17 19 21	3.88+/-	1.68	51.8+/-	33.0
03	38 40 42	5.09+/-	2.32	30.7+/-	21.8
04	41 43 45	2.28+/-	1.24	51.3+/-	43.1
05	50 52 54	5.76+/-	2.09	42.6+/-	15.7
06	56 58 60	2.36+/-	1.53	11.7+/-	47.2

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2444 vehicles averaging 55.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	55.5	71	50.7	116	56.2	55	55.7	36	49.7
Cat2	82	57.8	231	51.9	176	57.1	100	56.8	85	50.2
Cat3	13	60.5	30	56.2	23	56.9	6	53.5	7	47.6
Cat4	8	63.5	14	58.9	12	58.5	3	61.6	3	48.4
Cat5	5	64.7	6	58.9	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	62.0	87	55.3	125	55.9	81	54.7	52	44.1
Cat2	177	65.0	206	56.4	183	56.3	96	55.1	74	46.3
Cat3	14	64.5	46	58.0	28	57.6	12	59.1	4	41.8
Cat4	9	65.1	16	57.3	16	58.7	0	.0	0	.0
Cat5	2	66.2	5	57.7	4	60.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
54.5	748	30.6	55.9	1410	57.7	57.4	183	7.5	59.4	81	3.3	60.8	22	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.081+/-	2.168 mph	37	N VA 102'	.229+/-	1.261 mph
12	N Dasibi CD	.703+/-	.110 ppm	38	S BOT PER	-3.560+/-	1.684 mph
13	N TOP PAR	-3.208+/-	2.216 mph	39	N VA 74'	.407+/-	1.022 mph
14	N Dasibi 03	.017+/-	.002 ppm	40	S BOT PAR	-2.588+/-	2.057 mph
15	N TOP VER	.362+/-	1.310 mph	41	N GND PER	-.704+/-	1.124 mph
16	N NOX/TECO	*****+/-	***** ppm	42	S BOT VER	.307+/-	.774 mph
17	N BOT PER	-2.631+/-	2.056 mph	43	N GND PAR	-1.290+/-	1.135 mph
19	N BOT PAR	-2.408+/-	2.013 mph	45	N GND VER	.179+/-	.707 mph
20	N ND2/TECO	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BOT VER	.308+/-	1.157 mph	50	S TOP PER	-3.877+/-	1.939 mph
22	N NO/TECO	*****+/-	***** ppm	51	N Ecolyzer-2	1.243+/-	.251 ppm
23	N HA 102'	7.854+/-	2.152 mph	52	S TOP PAR	-3.871+/-	1.651 mph
24	N THC/Byron	2.045+/-	.111 ppm	53	N Ecolyzer-3	1.240+/-	.344 ppm
25	N WV 102'	39.412+/-	16.981 DEGR AZ	54	S TOP VER	.181+/-	.771 mph
26	N NMHC/Byro	1.508+/-	.360 ppm	55	N Ecolyzer-4	1.004+/-	.254 ppm
27	N Gnd Temp	46.370+/-	3.872 DEGR F	56	S GND PER	-1.654+/-	1.588 mph
28	N CH4/Byron	1.381+/-	.098 ppm	57	N Ecolyzer-5	.987+/-	.514 ppm
29	N WV 74'	28.044+/-	19.212 DEGR AZ	58	S GND PAR	-.753+/-	1.196 mph
30	N CO/Byron	.210+/-	.091 ppm	59	N R01 Hum	98.192+/-	.180 %
31	N 74' Temp	45.719+/-	3.164 DEGR F	60	S GND VER	.207+/-	.642 mph
32	N CO2/Byron	399.365+/-	5.930 ppm	61	N Solar Rad	16.488+/-	4.880 W/m**2
35	N HA 74'	7.027+/-	2.458 mph	64	S VA 55'	-.219+/-	.992 mph

UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.72+/-	2.39	38.4+/-	20.7
02	17 19 21	4.28+/-	2.04	48.1+/-	31.5
03	38 40 42	4.81+/-	2.01	33.3+/-	22.5
04	41 43 45	2.07+/-	.91	59.3+/-	41.9
05	50 52 54	5.76+/-	2.01	46.2+/-	16.2
06	56 58 60	2.42+/-	1.46	18.7+/-	42.4

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2624 vehicles averaging 55.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	57.8	57	51.5	127	56.4	72	55.5	38	52.1
Cat2	153	58.7	240	52.4	155	56.9	85	57.8	93	51.1
Cat3	17	60.8	26	57.9	23	58.0	15	57.0	2	46.4
Cat4	16	61.4	17	59.1	13	58.1	7	53.8	5	46.5
Cat5	7	63.8	8	59.1	1	57.3	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	60.5	107	53.7	107	54.5	82	53.8	72	44.1
Cat2	176	63.1	231	54.5	188	54.3	103	53.9	77	45.1
Cat3	13	64.1	34	55.9	22	55.1	10	52.0	6	41.8
Cat4	5	64.8	21	55.6	21	54.8	7	57.2	1	45.6
Cat5	0	.0	7	55.0	4	56.4	0	.0	1	85.3

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
54.2	804	30.6	55.3	1511	57.6	56.8	168	6.4	57.0	113	4.3	59.7	28	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.999+/-	2.080 mph	37	N VA 102'	.117+/-	1.261 mph
12	N Dasibi CD	.897+/-	.178 ppm	38	S BOT PER	-3.211+/-	1.303 mph
13	N TOP PAR	-2.630+/-	1.714 mph	39	N VA 74'	.685+/-	1.402 mph
14	N Dasibi 03	.014+/-	.002 ppm	40	S BOT PAR	-1.805+/-	1.682 mph
15	N TOP VER	.573+/-	1.252 mph	41	N GND PER	-.700+/-	1.220 mph
16	N NOX/TECO	*****+/-	***** ppm	42	S BOT VER	.253+/-	.885 mph
17	N BOT PER	-2.295+/-	2.288 mph	43	N GND PAR	-.992+/-	1.190 mph
19	N BOT PAR	-1.863+/-	1.602 mph	45	N GND VER	.185+/-	.749 mph
20	N ND2/TECO	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BOT VER	.571+/-	1.054 mph	50	S TOP PER	-3.231+/-	1.577 mph
22	N NO/TECO	*****+/-	***** ppm	51	N Ecolyzer-2	1.354+/-	.091 ppm
23	N HA 102'	7.938+/-	2.184 mph	52	S TOP PAR	-2.910+/-	1.472 mph
24	N THC/Byron	2.037+/-	.072 ppm	53	N Ecolyzer-3	1.469+/-	.330 ppm
25	N WV 102'	38.488+/-	16.770 DEGR AZ	54	S TOP VER	.249+/-	.727 mph

26	N NMHC/Byro	1.874+/-	.107	ppm	55	N Ecolyzer-4	1.264+/-	.249	ppm
27	N Gnd Temp	45.797+/-	2.924	DEGR F	56	S GND PER	-1.215+/-	1.258	mph
28	N CH4/Byron	1.369+/-	.081	ppm	57	N Ecolyzer-5	1.306+/-	.663	ppm
29	N WV 74'	28.002+/-	22.666	DEGR AZ	58	S GND PAR	-.402+/-	.869	mph
30	N CO/Byron	.243+/-	.108	ppm	59	N Rel Hum	98.355+/-	.509	%
31	N 74' Temp	45.380+/-	3.154	DEGR F	60	S GND VER	1.153+/-	.596	mph
32	N CO2/Byron	393.991+/-	4.047	ppm	61	N Solar Rad	8.947+/-	1.520	W/m**2
35	N HA 74'	6.953+/-	2.268	mph	64	S VA 55'	-.048+/-	.880	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.18+/-	2.22	33.5+/-	18.6	4.3+/- 16.2
02	17 19 21	3.58+/-	2.07	46.0+/-	41.5	8.3+/- 27.3
03	38 40 42	4.09+/-	1.44	26.0+/-	24.1	4.1+/- 14.0
04	41 43 45	1.83+/-	1.17	54.2+/-	46.5	7.3+/- 27.4
05	50 52 54	4.68+/-	1.48	43.1+/-	19.9	2.9+/- 11.9
06	56 58 60	1.68+/-	1.19	7.9+/-	47.9	8.2+/- 30.2

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 9989 vehicles averaging 56.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	281	57.0	234	51.3	452	56.6	270	55.8	155	51.0
Cat2	396	59.0	855	52.5	678	57.8	376	57.0	372	50.7
Cat3	69	61.3	123	57.5	95	57.6	34	56.4	28	48.9
Cat4	42	62.7	85	59.3	47	58.5	18	56.4	15	47.9
Cat5	15	63.8	31	59.9	3	56.7	2	55.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	245	62.0	400	55.2	452	55.8	317	54.6	234	44.6
Cat2	753	64.3	871	56.3	737	56.1	419	55.9	289	46.3
Cat3	55	64.7	140	57.4	96	57.0	45	57.0	12	42.6
Cat4	27	66.7	80	57.0	79	57.8	12	57.7	1	45.6
Cat5	7	64.9	23	56.3	18	58.8	0	.0	1	85.3

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
54.9	3040	30.4	56.3	5746	57.5	57.7	697	7.0	58.7	406	4.1	59.9	100	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-3.767+/-	2.028	37	N VA 102'	.122+/-	1.215
12	N Dasibi CD	.697+/-	.179	38	S BDT PER	-3.523+/-	1.748
13	N TDP PAR	-3.456+/-	2.166	39	N VA 74'	.439+/-	1.169
14	N Dasibi O3	.017+/-	.003	40	S BDT PAR	-2.789+/-	2.145
15	N TDP VER	.343+/-	1.238	41	N GND PER	-.773+/-	1.392
16	N NOX/TECD	*****+/-*****	ppm	42	S BDT VER	.328+/-	.837
17	N BDT PER	-2.266+/-	2.120	43	N GND PAR	-1.459+/-	1.454
19	N BDT PAR	-2.538+/-	2.059	45	N GND VER	.185+/-	.684
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.344+/-	1.134	50	S TDP PER	-3.690+/-	1.875
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.230+/-	.236
23	N HA 102'	8.071+/-	2.065	52	S TDP PAR	-4.007+/-	2.043
24	N THC/Byron	2.007+/-	.108	53	N Ecolyzer-3	1.276+/-	.359
25	N WV 102'	41.675+/-	16.704	54	S TDP VER	.225+/-	.789
26	N NMHC/Byro	1.832+/-	.278	55	N Ecolyzer-4	1.061+/-	.271
27	N Gnd Temp	46.305+/-	3.038	56	S GND PER	-1.509+/-	1.587
28	N CH4/Byron	1.358+/-	.097	57	N Ecolyzer-5	1.031+/-	.596
29	N WV 74'	32.384+/-	21.387	58	S GND PAR	-.706+/-	1.081
30	N CO/Byron	.221+/-	.100	59	N Rel Hum	98.213+/-	.327
31	N 74' Temp	45.582+/-	3.172	60	S GND VER	.217+/-	.679
32	N CO2/Byron	394.622+/-	6.053	61	N Solar Rad	17.826+/-	7.693
35	N HA 74'	7.101+/-	2.382	64	S VA 55'	-.113+/-	.991

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.61+/-	2.27	42.2+/-	20.4	3.0+/- 16.3
02	17 19 21	4.15+/-	2.12	53.8+/-	34.1	5.6+/- 22.8
03	38 40 42	4.94+/-	2.07	35.1+/-	23.7	4.5+/- 12.6
04	41 43 45	2.31+/-	1.37	60.3+/-	42.4	6.7+/- 23.8
05	50 52 54	5.78+/-	2.17	47.3+/-	17.8	2.8+/- 11.3
06	56 58 60	2.23+/-	1.44	19.2+/-	46.3	9.6+/- 30.5

17:07:50 -- CH. 7 AND CH. 5 BOTH NEED SLIGHT ADJUSTMENT GRD  
 17:33:35 -- CH. 5 AND 7 RADARS APPEAR TO BE ACCEPTABLE GRD  
 Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2730 Vehicles averaging 55.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	57.4	57	51.8	135	57.5	84	56.2	38	52.2
Cat2	173	59.6	233	53.0	167	58.5	84	57.5	110	51.2
Cat3	29	60.5	32	59.5	21	59.1	11	55.9	2	46.1
Cat4	17	64.9	26	60.2	4	59.9	3	60.2	3	49.1
Cat5	3	64.0	5	60.6	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	61.7	112	53.4	111	52.4	85	53.3	67	42.8
Cat2	195	62.8	227	54.5	213	52.9	89	54.4	79	43.4
Cat3	7	63.8	37	55.2	36	55.9	13	53.2	3	40.9
Cat4	8	60.7	22	55.1	19	54.8	5	55.7	1	37.9
Cat5	1	62.9	9	57.0	5	59.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.3	838	30.7	55.4	1570	57.5	57.2	191	7.0	58.3	108	4.0	59.8	23	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.802+/-	2.058	37	N VA 102'	-1.106+/-	1.474
12	N Desibi CO	-.679+/-	.132	38	S BOT PER	-3.511+/-	1.977
13	N TOP PAR	-4.723+/-	2.470	39	N VA 74'	-.348+/-	1.370
14	N Desibi O3	.017+/-	.002	40	S BOT PAR	-4.524+/-	2.260
15	N TOP VER	.174+/-	1.315	41	N GND PER	-.702+/-	1.468
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.439+/-	.961
17	N BOT PER	-2.612+/-	2.389	43	N GND PAR	-2.329+/-	1.637
19	N BOT PAR	-3.683+/-	2.205	45	N GND VER	.102+/-	.760
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.213+/-	1.186	50	S TOP PER	-3.859+/-	1.647
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.441+/-	.113
23	N HA 102'	9.857+/-	2.289	52	S TOP PAR	-5.847+/-	2.118
24	N THC/Byron	1.995+/-	.067	53	N Ecolyzer-3	1.261+/-	.299
25	N WV 102'	45.132+/-	12.412	54	S TOP VER	-.387+/-	.956
26	N NMHC/Byro	1.917+/-	.084	55	N Ecolyzer-4	1.118+/-	.265
27	N Gnd Temp	46.683+/-	3.837	56	S GND PER	-1.513+/-	1.614
28	N CH4/Byron	1.392+/-	.064	57	N Ecolyzer-5	.974+/-	.551
29	N WV 74'	36.717+/-	18.659	58	S GND PAR	-1.027+/-	1.112
30	N CO/Byron	.226+/-	.068	59	N Rel Hum	98.355+/-	.289
31	N 74' Temp	44.781+/-	2.560	60	S GND VER	.358+/-	.843
32	N CO2/Byron	398.876+/-	3.884	61	N Solar Rad	6.287+/-	2.218
35	N HA 74'	8.438+/-	2.698	64	S VA 55'	.072+/-	1.266

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.44+/- 2.74	50.8+/- 18.1	1.2+/- 17.0
02	17 19 21	5.25+/- 2.38	57.9+/- 29.2	2.9+/- 23.0
03	38 40 42	6.18+/- 2.13	52.3+/- 23.9	3.8+/- 10.5
04	41 43 45	2.95+/- 1.61	74.9+/- 34.4	5.6+/- 20.1
05	50 52 54	7.35+/- 2.07	55.7+/- 13.9	3.6+/- 9.4
06	56 58 60	2.43+/- 1.33	36.4+/- 47.6	7.0+/- 28.4

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2908 Vehicles averaging 54.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	104	56.2	75	51.0	136	58.6	95	54.7	39	51.4
Cat2	173	58.3	216	51.9	182	57.4	99	56.2	115	51.1
Cat3	22	62.0	25	56.8	26	57.8	6	59.1	6	50.3
Cat4	16	64.2	22	57.0	7	57.3	4	58.4	1	45.6
Cat5	8	65.8	8	58.6	1	53.0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	60.0	90	51.4	128	52.3	73	51.7	65	42.3
Cat2	192	59.9	277	51.6	216	53.1	140	53.3	78	44.1
Cat3	19	61.8	45	52.3	34	53.5	8	52.6	1	40.3
Cat4	9	59.2	26	53.7	22	53.4	6	53.9	0	0
Cat5	1	65.8	6	56.6	7	55.0	1	60.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.3	882	30.3	54.1	1888	58.1	56.0	192	6.6	56.5	113	3.9	59.3	32	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.181+/-	2.527	37	N VA 102'	-.084+/-	2.108
12	N Desibi CO	-.718+/-	.187	38	S BOT PER	-4.776+/-	2.145
13	N TOP PAR	-3.842+/-	2.258	39	N VA 74'	.455+/-	1.464
14	N Desibi O3	.017+/-	.002	40	S BOT PAR	-2.960+/-	2.402
15	N TOP VER	.268+/-	1.475	41	N GND PER	-.809+/-	1.563
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.340+/-	.938
17	N BOT PER	-3.089+/-	2.589	43	N GND PAR	-1.830+/-	1.310
19	N BOT PAR	-2.692+/-	2.049	45	N GND VER	.147+/-	.747
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.257+/-	1.285	50	S TOP PER	-5.227+/-	2.245
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.327+/-	.078
23	N HA 102'	9.355+/-	2.653	52	S TOP PAR	-4.358+/-	2.248
24	N THC/Byron	2.031+/-	.071	53	N Ecolyzer-3	1.330+/-	.324
25	N WV 102'	35.802+/-	15.012	54	S TOP VER	-.110+/-	1.063
26	N NMHC/Byro	1.842+/-	.116	55	N Ecolyzer-4	1.087+/-	.235
27	N Gnd Temp	46.188+/-	3.432	56	S GND PER	-2.301+/-	2.113
28	N CH4/Byron	1.422+/-	.087	57	N Ecolyzer-5	1.079+/-	.883
29	N WV 74'	25.209+/-	17.782	58	S GND PAR	-.983+/-	1.268
30	N CO/Byron	.827+/-	.706	59	N Rel Hum	98.388+/-	.257
31	N 74' Temp	46.448+/-	4.038	60	S GND VER	.344+/-	.751
32	N CO2/Byron	393.747+/-	3.715	61	N Solar Rad	4.042+/-	1.988
35	N HA 74'	8.405+/-	2.636	64	S VA 55'	-.271+/-	1.367

UVW Vector Calculations



UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.84+/- 2.88	37.8+/- 17.7	.7+/- 11.8
02	17 19 21	4.72+/- 2.51	46.8+/- 32.1	2.1+/- 21.6
03	38 40 42	6.07+/- 2.49	30.2+/- 19.4	6.1+/- 12.3
04	41 43 45	2.70+/- 1.20	72.4+/- 38.4	.4+/- 19.8
05	50 52 54	7.13+/- 2.54	39.2+/- 16.8	3.3+/- 8.2
06	56 58 60	3.07+/- 2.01	22.5+/- 43.0	11.0+/- 26.1

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2387 vehicles averaging 54.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	56.3	81	50.4	107	55.6	63	55.6	30	49.4
Cat2	158	57.2	211	51.4	173	55.3	74	55.8	92	49.2
Cat3	14	59.2	28	56.2	23	56.0	8	55.4	6	48.7
Cat4	14	62.8	13	58.9	6	53.7	4	54.1	2	47.7
Cat5	5	62.5	2	58.4	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	60.4	129	54.0	85	54.0	78	52.7	51	42.4
Cat2	157	62.0	181	54.4	165	54.7	96	54.3	73	41.5
Cat3	6	63.9	22	55.6	24	56.6	12	53.7	1	44.1
Cat4	6	65.4	12	57.7	12	54.7	1	57.3	0	.0
Cat5	1	****	2	74.6	3	63.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.7	780	32.7	54.3	1380	57.8	56.1	144	6.0	58.3	70	2.9	67.7	13	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.615+/- 2.462	mph	37	N VA 102'	.345+/- 1.514	mph
12	N Dasibi CO	.624+/- .089	ppm	38	S BOT PER	-3.616+/- 2.131	mph
13	N TOP PAR	-3.895+/- 1.862	mph	39	N VA 74'	.586+/- 1.328	mph
14	N Dasibi O3	.018+/- .002	ppm	40	S BOT PAR	-4.533+/- 2.437	mph
15	N TOP VER	.353+/- 1.401	mph	41	N GND PER	-.454+/- 1.461	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.347+/- .956	mph
17	N BOT PER	-2.128+/- 2.063	mph	43	N GND PAR	-2.135+/- 1.408	mph
19	N BOT PAR	-2.986+/- 1.763	mph	45	N GND VER	.085+/- .789	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.463+/- 1.230	mph	50	S TOP PER	-4.069+/- 2.171	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.355+/- .225	ppm
23	N HA 102'	8.685+/- 2.157	mph	52	S TOP PAR	-5.778+/- 2.274	ppm
24	N THC/Byron	1.975+/- .088	ppm	53	N Ecolyzer-3	1.279+/- .329	ppm
25	N WV 102'	44.860+/- 15.185	DEGR AZ	54	S TOP VER	.191+/- .932	ppm
26	N NMHC/Byro	1.549+/- .341	ppm	55	N Ecolyzer-4	1.031+/- .210	ppm
27	N Gnd Temp	45.849+/- 3.476	DEGR F	56	S GND PER	-1.416+/- 1.846	mph
28	N CH4/Byron	1.379+/- .069	ppm	57	N Ecolyzer-5	.962+/- .595	ppm
29	N WV 74'	36.737+/- 20.053	DEGR AZ	58	S GND PAR	-1.004+/- 1.177	mph
30	N CO/Byron	.601+/- .427	ppm	59	N Rel Hum	98.637+/- .408	%
31	N 74' Temp	45.849+/- 3.402	DEGR F	60	S GND VER	.239+/- .783	mph
32	N CO2/Byron	354.968+/- 4.020	ppm	61	N Solar Rad	4.133+/- 1.698	W/m**2
35	N HA 74'	7.602+/- 2.711	mph	64	S VA 55'	-.175+/- 1.242	mpn

UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.91+/- 2.21	48.8+/- 21.7	.9+/- 16.6
02	17 19 21	4.41+/- 1.78	80.3+/- 30.5	2.9+/- 23.5
03	38 40 42	6.18+/- 2.57	51.2+/- 19.1	2.7+/- 9.8
04	41 43 45	2.80+/- 1.29	80.6+/- 33.4	5.0+/- 23.3
05	50 52 54	7.35+/- 2.60	55.6+/- 13.9	1.4+/- 9.8
06	56 58 60	2.29+/- 1.74	40.2+/- 48.1	7.6+/- 26.7

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2183 vehicles averaging 54.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	55.3	68	50.8	108	55.4	61	55.6	26	50.8
Cat2	152	56.8	202	52.2	151	56.2	80	56.1	72	50.9
Cat3	14	57.3	22	55.0	16	55.3	4	51.2	1	42.3
Cat4	12	60.5	22	56.5	1	44.4	1	****	2	54.2
Cat5	4	57.3	1	57.5	1	64.7	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	60.8	91	53.0	115	53.5	74	53.0	50	41.9
Cat2	137	62.6	203	54.7	155	54.3	65	54.7	65	43.4
Cat3	12	63.9	18	53.3	15	55.2	2	55.8	0	.0
Cat4	1	56.6	13	55.1	10	54.4	4	49.2	0	.0
Cat5	1	66.7	3	53.7	1	66.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.5	720	33.0	54.8	1282	58.7	56.0	104	4.8	56.9	66	3.0	58.7	11	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.196+/- 2.284	mph	37	N VA 102'	.293+/- 1.744	mph
12	N Dasibi CO	.580+/- .123	ppm	38	S BOT PER	-2.946+/- 2.037	mph
13	N TOP PAR	-4.457+/- 2.470	mph	39	N VA 74'	.440+/- 1.334	mph
14	N Dasibi O3	.017+/- .004	ppm	40	S BOT PAR	-3.290+/- 1.775	mph
15	N TOP VER	.214+/- 1.451	mph	41	N GND PER	-.649+/- 1.400	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.558+/- .811	mph
17	N BOT PER	-2.213+/- 2.121	mph	43	N GND PAR	-1.920+/- 1.639	mph
19	N BOT PAR	-3.476+/- 2.118	mph	45	N GND VER	.187+/- .819	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.207+/- 1.305	mph	50	S TOP PER	-3.085+/- 1.779	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.350+/- .091	ppm
23	N HA 102'	8.108+/- 2.847	mph	52	S TOP PAR	-4.611+/- 1.923	ppm
24	N THC/Byron	1.918+/- .073	ppm	53	N Ecolyzer-3	1.308+/- .354	ppm
25	N WV 102'	49.395+/- 16.455	DEGR AZ	54	S TOP VER	.563+/- .844	ppm
26	N NMHC/Byro	1.898+/- .216	ppm	55	N Ecolyzer-4	1.044+/- .218	ppm
27	N Gnd Temp	47.125+/- 3.888	DEGR F	56	S GND PER	-1.184+/- 1.628	mph
28	N CH4/Byron	1.330+/- .061	ppm	57	N Ecolyzer-5	.958+/- .600	ppm

29	N WV 74'	42.954+/-	19.551	DEGR AZ	58	S GND PAR	- .929+/-	1.100	mph
30	N CD/Byron	2.61+/-	.108	ppm	59	N Rel Hum	98.551+/-	.313	%
31	N 74' Temp	46.318+/-	3.672	DEGR F	60	S GND VER	.227+/-	.716	mph
32	N CD2/Byron	397.855+/-	4.904	ppm	61	N Solar Rad	3.225+/-	1.398	W/m <sup>2</sup>
35	N HA 74'	7.539+/-	2.789	mph	64	S VA 55'	.353+/-	1.108	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	6.04+/-	2.87	54.3+/-	21.4	6.0+/-	17.8
02	17	18	21	4.75+/-	2.24	61.2+/-	29.4	5.7+/-	21.8
03	38	40	42	4.97+/-	1.83	49.9+/-	25.6	6.2+/-	16.8
04	41	43	45	2.63+/-	1.53	76.7+/-	38.5	3.1+/-	21.1
05	50	52	54	5.89+/-	2.04	56.7+/-	16.7	1.4+/-	15.5
06	58	58	60	2.16+/-	1.52	45.1+/-	52.3	17.1+/-	33.1

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10208 vehicles averaging 54.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No	Spd	No	Spd	No	Spd	No	Spd	No	Spd
Cat1	323	56.3	281	50.9	486	56.4	303	55.5	133	51.1
Cat2	856	58.0	862	52.2	873	56.9	337	56.4	389	50.6
Cat3	79	60.1	107	57.1	86	57.3	29	55.8	15	48.6
Cat4	59	63.3	83	58.2	18	56.0	12	62.7	8	49.6
Cat5	20	62.9	16	59.2	2	58.9	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No	Spd	No	Spd	No	Spd	No	Spd	No	Spd
Cat1	286	60.7	422	53.1	443	53.0	310	52.7	233	42.4
Cat2	631	61.7	888	53.8	749	53.8	390	54.0	295	43.1
Cat3	44	63.0	122	53.9	109	55.2	35	53.4	5	41.4
Cat4	24	61.2	73	55.0	83	54.2	16	53.5	1	37.9
Cat5	4	76.8	20	58.1	16	58.7	1	60.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.7	3220	31.5	54.7	5921	58.0	56.4	831	8.2	57.5	357	3.5	60.7	79	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.949+/-	2.468	37	N VA 102'	.112+/-	1.737
12	N Das1b1 CD	.670+/-	.145	38	S BDT PER	-3.712+/-	2.170
13	N TOP PAR	-4.229+/-	2.239	39	N VA 74'	.457+/-	1.375
14	N Das1b1 DJ	.017+/-	.003	40	S BDT PAR	-3.827+/-	2.338
15	N TOP VER	.252+/-	1.411	41	N GND PER	-.854+/-	1.474
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.421+/-	.821
17	N BDT PER	-2.511+/-	2.317	43	N GND PAR	-2.053+/-	1.512
19	N BDT PAR	-3.209+/-	2.089	45	N GND VER	.130+/-	.779
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.285+/-	1.254	50	S TOP PER	-4.085+/-	2.111
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.384+/-	.144
23	N HA 102'	9.251+/-	2.529	52	S TOP PAR	-5.149+/-	2.239
24	N THC/Byron	1.980+/-	.079	53	N Ecolyzer-3	1.294+/-	.328
25	N WV 102'	43.820+/-	15.560	54	S TOP VER	.313+/-	.966
26	N NMHC/Byro	1.751+/-	.252	55	N Ecolyzer-4	1.073+/-	.235
27	N Gnd Temp	46.461+/-	3.573	56	S GND PER	-1.603+/-	1.852
28	N CH4/Byron	1.381+/-	.077	57	N Ecolyzer-5	.993+/-	.611
29	N WV 74'	35.384+/-	19.924	58	S GND PAR	-.985+/-	1.162
30	N CD/Byron	.479+/-	.478	59	N Rel Hum	98.433+/-	.322
31	N 74' Temp	45.849+/-	3.534	60	S GND VER	.292+/-	.775
32	N CO2/Byron	396.312+/-	4.500	61	N Solar Rad	4.417+/-	2.130
35	N HA 74'	7.996+/-	2.731	64	S VA 55'	-.008+/-	1.270

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	6.31+/-	2.85	47.8+/-	20.2	2.2+/-	16.1
02	17	18	21	4.78+/-	2.25	58.6+/-	30.6	3.4+/-	22.4
03	38	40	42	5.85+/-	2.32	45.9+/-	23.8	4.7+/-	12.7
04	41	43	45	2.77+/-	1.42	78.2+/-	38.2	3.5+/-	21.2
05	50	52	54	6.83+/-	2.40	51.8+/-	16.8	2.4+/-	11.1
06	58	58	60	2.48+/-	1.70	34.8+/-	48.1	10.7+/-	29.3

18:13:53 -- END CALIB OF CH 51  
 18:17:52 -- END CALIB OF CH 53  
 18:22:08 -- END CALIB CH 55  
 18:27:05 -- END CALIB CH 57

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 1767 Vehicles averaging 56.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	57.0	62	51.7	90	56.8	56	56.1	16	50.2
Cat2	100	58.5	179	52.6	142	57.4	65	56.3	73	49.2
Cat3	10	58.9	22	55.9	9	58.0	6	58.0	5	51.8
Cat4	7	61.1	9	56.4	6	62.5	1	55.1	2	43.6
Cat5	4	67.8	2	60.9	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	63.7	92	55.8	83	56.0	63	54.7	35	44.9
Cat2	110	64.7	129	56.4	103	57.3	72	57.2	41	47.3
Cat3	5	64.0	19	57.0	10	56.0	4	53.3	1	38.1
Cat4	3	64.5	7	57.6	4	58.5	0	0	0	0
Cat5	0	0	1	60.2	2	59.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	614	34.7	56.2	1014	57.4	56.7	91	5.1	58.7	38	2.2	63.7	9	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.827+/-	2.118	37	N VA 102'	-.147+/-	1.466
12	N Desibi CO	.604+/-	-.098	38	S BOT PER	-4.235+/-	1.780
13	N TOP PAR	-3.518+/-	2.487	39	N VA 74'	-.515+/-	1.475
14	N Desibi O3	.018+/-	-.001	40	S BOT PAR	-3.438+/-	1.837
15	N TOP VER	.479+/-	1.450	41	N GND PER	-.723+/-	1.317
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.355+/-	-.887
17	N BOT PER	-2.416+/-	2.152	43	N GND PAR	-1.719+/-	1.617
18	N BOT PAR	-2.616+/-	1.962	45	N GND VER	-.185+/-	-.700
19	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
20	N BOT VER	.458+/-	1.347	50	S TOP PER	-4.507+/-	1.817
21	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.433+/-	-.999
22	N HA 102'	9.559+/-	2.235	52	S TOP PAR	-4.502+/-	1.641
23	N THC/Byron	1.904+/-	-.086	53	N EcoLyzer-3	1.282+/-	-.370
24	N WV 102'	39.307+/-	14.238	54	S TOP VER	-.203+/-	-.789
25	N NMHC/Byro	1.871+/-	-.142	55	N EcoLyzer-4	1.040+/-	-.247
26	N Gnd Temp	46.943+/-	2.887	56	S GND PER	-1.988+/-	1.639
27	N CH4/Byron	1.304+/-	-.076	57	N EcoLyzer-5	-.899+/-	1.836
28	N WV 74'	33.694+/-	21.159	58	S GND PAR	-1.016+/-	1.230
29	N CO/Byron	.202+/-	-.074	59	N Rel Hum	98.372+/-	-.499
30	N 74' Temp	44.885+/-	3.882	60	S GND VER	.315+/-	-.751
31	N CO2/Byron	399.853+/-	5.488	61	N Solar Rad	2.452+/-	1.475
32	N HA 74'	8.050+/-	2.506	64	S VA 55'	-.097+/-	-.989
33							
34							
35							

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.70+/- 2.67	41.5+/- 19.8	4.9+/- 18.7
02	17 19 21	4.35+/- 2.04	53.2+/- 32.0	6.8+/- 23.8
03	38 40 42	5.85+/- 1.69	39.3+/- 19.5	4.8+/- 10.6
04	41 43 45	2.49+/- 1.47	67.5+/- 39.2	7.2+/- 22.9
05	50 52 54	6.63+/- 1.77	45.1+/- 15.0	2.8+/- 6.5
06	56 58 60	2.69+/- 1.62	25.4+/- 39.5	9.4+/- 29.2

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1798 Vehicles averaging 56.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	57.3	70	51.9	93	57.5	51	56.0	25	52.3
Cat2	105	59.8	194	53.0	124	57.8	37	58.4	70	50.8
Cat3	16	61.5	13	58.5	11	59.2	2	44.3	5	49.5
Cat4	6	63.9	5	57.9	2	58.6	0	0	2	46.3
Cat5	3	68.7	1	59.7	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.2	99	56.0	90	55.8	50	54.1	34	45.4
Cat2	118	64.8	147	57.1	132	57.2	71	56.2	30	46.7
Cat3	9	65.0	23	57.6	12	57.1	0	0	2	36.7
Cat4	7	68.0	14	58.3	6	56.9	1	56.6	0	0
Cat5	2	69.6	1	58.4	0	0	1	61.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	626	34.8	56.7	1028	57.2	58.1	93	5.2	59.8	43	2.4	65.7	8	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.008+/-	2.022	37	N VA 102'	-.420+/-	1.505
12	N Desibi CO	.589+/-	-.098	38	S BOT PER	-3.663+/-	2.053
13	N TOP PAR	-4.677+/-	2.161	39	N VA 74'	-.621+/-	1.295
14	N Desibi O3	.020+/-	-.001	40	S BOT PAR	-4.718+/-	2.834
15	N TOP VER	.300+/-	1.387	41	N GND PER	-.771+/-	1.378
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.394+/-	-.840
17	N BOT PER	-1.967+/-	2.270	43	N GND PAR	-2.121+/-	1.492
18	N BOT PAR	-4.097+/-	2.229	45	N GND VER	.200+/-	-.769
19	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
20	N BOT VER	.325+/-	1.266	50	S TOP PER	-3.985+/-	2.065
21	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
22	N HA 102'	8.709+/-	2.161	52	S TOP PAR	-6.068+/-	2.738
23	N THC/Byron	1.884+/-	-.071	53	N EcoLyzer-3	*****+/-*****	ppm
24	N WV 102'	48.257+/-	16.663	54	S TOP VER	-.268+/-	-.853
25	N NMHC/Byro	1.956+/-	-.190	55	N EcoLyzer-4	*****+/-*****	ppm
26	N Gnd Temp	46.006+/-	2.874	56	S GND PER	-1.509+/-	1.771
27	N CH4/Byron	1.312+/-	-.088	57	N EcoLyzer-5	-.925+/-	-.539
28	N WV 74'	42.317+/-	20.278	58	S GND PAR	-.852+/-	1.136
29	N CO/Byron	.194+/-	-.074	59	N Rel Hum	98.388+/-	-.306
30	N 74' Temp	43.973+/-	5.121	60	S GND VER	.278+/-	-.882
31	N CO2/Byron	395.294+/-	5.132	61	N Solar Rad	3.497+/-	1.763
32	N HA 74'	8.006+/-	2.315	64	S VA 55'	-.121+/-	1.170
33							
34							
35							

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	6.05+/- 2.38	57.5+/- 16.3	7.1+/- 17.1		
02	17 19 21	5.29+/- 2.18	66.1+/- 26.0	7.0+/- 18.7		
03	38 40 42	6.38+/- 2.86	50.5+/- 19.3	2.1+/- 11.2		
04	41 43 45	2.80+/- 1.35	70.0+/- 35.0	2.5+/- 21.3		
05	50 52 54	7.56+/- 2.83	55.8+/- 14.9	7.7+/- 8.2		
06	56 58 60	2.32+/- 1.63	28.0+/- 48.0	10.7+/- 28.3		

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 76' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	19.4+/- 15.6	4.0+/-*****		
02	17 19 21	*****+/-*****	19.8+/- 16.2	112.3+/-*****		
03	38 40 42	*****+/-*****	17.6+/- 13.5	108.5+/-*****		
04	41 43 45	*****+/-*****	20.5+/- 18.0	-35.5+/-*****		
05	50 52 54	*****+/-*****	19.4+/- 15.7	182.9+/-*****		
06	56 58 60	71.08+/-*****	9.9+/- 7.7	255.0+/-*****		

Average for 15 minute period ending at 19:00:00  
 Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph

26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO2/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S YA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
<u>UVW</u>	<u>Channels</u>	<u>Vector</u>	<u>Sum (mph)</u>	<u>Bearing Deg AZ</u>	<u>Elevation Angle (Deg)</u>	
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	

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Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	18:00:00	1137 vehicles
02	18:00:00	1187 vehicles
03	18:00:00	1249 vehicles
04	18:00:00	1525 vehicles
05	17:00:00	1275 vehicles
06	17:00:00	1382 vehicles
07	08:00:00	1030 vehicles
08	08:00:00	856 vehicles
09	17:00:00	570 vehicles
10	17:00:00	537 vehicles
11	00:00:00	.000 mph
12	09:00:00	.743 ppm
13	00:00:00	.000 mph
14	07:00:00	.028 ppm
15	10:00:00	.613 mph
16	00:00:00	.000 ppm
17	00:00:00	.000 mph
19	00:00:00	.000 mph
20	00:00:00	.000 ppm
21	10:00:00	.651 mph
22	00:00:00	.000 ppm
23	09:00:00	13.677 mph
24	12:00:00	2.168 ppm
25	09:00:00	82.897 DEGR AZ
26	15:00:00	1.905 ppm
27	12:00:00	49.770 DEGR F
28	12:00:00	1.484 ppm
29	09:00:00	78.451 DEGR AZ
30	18:00:00	.479 ppm
31	13:00:00	49.098 DEGR F
32	18:00:00	398.312 ppm
35	09:00:00	12.531 mph
37	09:00:00	.817 mph
38	00:00:00	.000 mph
39	10:00:00	.680 mph
40	00:00:00	.000 mph
41	00:00:00	.000 mph
42	08:00:00	.555 mph
43	00:00:00	.000 mph
45	09:00:00	.387 mph
49	00:00:00	.000 ppm
50	00:00:00	.000 mph
51	09:00:00	1.551 ppm
52	11:00:00	.143 mph
53	18:00:00	1.294 ppm
54	08:00:00	.577 mph
55	09:00:00	1.086 ppm
56	09:00:00	.446 mph
57	17:00:00	1.031 ppm
58	00:00:00	.000 mph
59	18:00:00	98.433 %
60	18:00:00	.292 mph
61	12:00:00	129.175 W/m**2
64	10:00:00	.248 mph

NDTE: All times in the maximums are ending times for the interval

Data for Dec. 05, 1984  
 06:32:36 -- 12/05/84  
 06:32:37 -- Data run of 12/05/84. Operators are Michael Hlavinka and Guy Donaldson. Met co  
 06:32:38 -- nditions--Rainy with NW winds. Still dark. Radar #3 may need range adjusted. W1  
 06:32:39 -- 11 not recalibrate DASIBI CO or BYRON unless data seems to be incorrect. May do  
 06:32:40 -- a drift check on these instruments tonight.  
 06:32:53 -- Turning on DASIBI CO and BYRON  
 06:36:13 -- READING ZEROS ON ECOL. GRD  
 06:46:08 -- END CAL. NCO-2  
 06:46:20 -- BEGIN CAL. MCO-3  
 06:58:40 -- END CAL. NCO-3  
 06:58:52 -- BEGIN CAL. NCO-4

Average for 15 minute period ending at 06:15:00  
 Average for 15 minute period ending at 06:30:00  
 Average for 15 minute period ending at 06:45:00  
Traffic Data  
 Total Traffic = 1783 vehicles averaging 51.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	50.2	33	41.5	56	48.7	41	49.9	5	46.2
Cat2	156	52.0	145	44.1	158	49.9	131	49.9	55	45.0
Cat3	25	53.5	18	47.3	22	49.5	9	50.0	1	34.1
Cat4	9	58.0	18	49.4	10	49.4	5	48.4	1	36.2
Cat5	6	59.4	2	49.3	1	49.3	2	52.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	59.7	59	52.7	65	52.9	86	51.4	7	42.7
Cat2	128	61.7	150	55.2	112	52.8	127	52.4	23	42.2
Cat3	8	58.4	21	54.6	20	53.1	8	51.5	0	.0
Cat4	3	58.8	2	53.6	5	57.6	1	48.2	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
50.9	400	22.4	51.6	1186	66.5	51.9	132	7.4	51.9	54	3.0	55.4	11	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-4.577+/-	2.874	mph	37	N VA 102'	-.044+/-	1.411	mph
12	N Dasibi CO	.473+/-	.103	ppm	38	S BOT PER	-4.900+/-	1.778	mph
13	N TOP PAR	2.600+/-	1.979	mph	39	N VA 74'	.118+/-	1.389	mph
14	N Dasibi O3	.018+/-	.001	ppm	40	S BOT PAR	4.118+/-	1.838	mph
15	N TOP VER	.166+/-	1.441	mph	41	N GND PER	-.864+/-	1.697	mph
16	N NOX/TECO	*****+/-	*****	ppm	42	S BOT VER	.410+/-	1.151	mph
17	N BOT PER	-2.105+/-	2.493	mph	43	N GND PAR	1.625+/-	1.729	mph
18	N BOT PAR	2.307+/-	2.185	mph	45	N GND VER	.281+/-	.915	ppm
20	N NO2/TECO	*****+/-	*****	ppm	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BOT VER	.048+/-	1.426	mph	50	S TOP PER	-6.143+/-	2.324	ppm
22	N NO/TECO	*****+/-	*****	ppm	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	9.965+/-	2.762	mph	52	S TOP PAR	4.006+/-	2.085	mph
24	N THC/Byron	1.891+/-	.066	ppm	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	326.676+/-	11.654	DEGR AZ	54	S TOP VER	.172+/-	1.080	mph
26	N NMHC/Byro	1.461+/-	.182	ppm	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	43.048+/-	3.747	DEGR F	56	S GND PER	-3.196+/-	1.535	mph
28	N CH4/Byron	1.459+/-	.138	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	319.055+/-	19.473	DEGR AZ	58	S GND PAR	3.154+/-	1.260	mph
30	N CO/Byron	.204+/-	.074	ppm	59	N Rel Hum	98.681+/-	.475	%
31	N 74' Temp	42.332+/-	3.292	DEGR F	60	S GND VER	.400+/-	.533	mph
32	N CO2/Byron	384.302+/-	4.865	ppm	61	N Solar Rad	7.153+/-	3.318	W/m^2
35	N HA 74'	8.097+/-	3.080	mph	64	S VA 55'	.131+/-	1.250	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.77+/-	2.98	327.2+/- 22.0
02	17 19 21	3.93+/-	2.69	302.0+/- 34.6
03	38 40 42	6.78+/-	1.73	319.7+/- 15.7
04	41 43 45	2.87+/-	1.62	298.7+/- 45.9
05	50 52 54	7.68+/-	2.49	328.7+/- 13.6
06	56 58 60	4.78+/-	1.35	314.8+/- 18.8

Average for 15 minute period ending at 07:00:00  
Traffic Data  
 Total Traffic = 2188 vehicles averaging 51.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	52.5	58	42.1	55	51.7	61	50.4	17	46.9
Cat2	151	53.9	135	45.0	187	50.9	167	49.6	106	47.1
Cat3	24	57.4	12	50.3	42	51.2	14	48.7	6	42.7
Cat4	15	57.9	16	48.5	9	51.8	10	49.3	0	.0
Cat5	6	58.5	3	52.1	1	49.3	2	53.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	59.3	73	52.2	87	53.0	86	51.9	18	43.4
Cat2	188	60.8	172	52.7	149	53.5	131	52.5	34	44.0
Cat3	11	62.2	28	53.3	18	53.4	8	51.1	0	.0
Cat4	4	60.7	11	50.9	12	56.0	1	51.1	0	.0
Cat5	0	.0	4	55.1	4	57.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
51.1	539	24.5	51.9	1398	63.6	52.9	163	7.4	52.9	78	3.5	55.6	20	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	-5.005+/-	2.657	mph	37	N VA 102'	.079+/-	1.574	mph
12	N Dasibi CO	.599+/-	.140	ppm	38	S BOT PER	-5.052+/-	2.259	mph
13	N TOP PAR	2.822+/-	1.904	mph	39	N VA 74'	.118+/-	1.616	mph
14	N Dasibi O3	.018+/-	.001	ppm	40	S BOT PAR	3.817+/-	1.787	mph
15	N TOP VER	.057+/-	1.524	mph	41	N GND PER	-.600+/-	2.091	mph
16	N NOX/TECO	*****+/-	*****	ppm	42	S BOT VER	.431+/-	1.185	mph
17	N BOT PER	-2.386+/-	2.392	mph	43	N GND PAR	1.684+/-	1.886	mph
18	N BOT PAR	2.183+/-	1.881	mph	45	N GND VER	.178+/-	1.204	ppm
20	N NO2/TECO	*****+/-	*****	ppm	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BOT VER	-.028+/-	1.229	mph	50	S TOP PER	-5.829+/-	2.315	ppm
22	N NO/TECO	*****+/-	*****	ppm	51	N Ecolyzer-2	1.512+/-	1.101	ppm
23	N HA 102'	9.955+/-	2.896	mph	52	S TOP PAR	3.810+/-	1.887	mph
24	N THC/Byron	1.936+/-	.074	ppm	53	N Ecolyzer-3	*****+/-	*****	ppm

25	N WV 102'	328.608+/-	13.582	DEGR AZ	54	S TOP VER	.263+/-	1.092	mph
26	N NMHC/Byro	1.337+/-	.072	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	43.582+/-	2.449	DEGR F	56	S GND PER	-3.063+/-	1.573	mph
28	N CH4/Byron	1.347+/-	.112	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	321.068+/-	19.972	DEGR AZ	58	S GND PAR	2.670+/-	1.559	mph
30	N CD/Byron	.200+/-	.075	ppm	59	N Re1 Hum	98.697+/-	.490	%
31	N 74' Temp	42.462+/-	4.690	DEGR F	60	S GND VER	.424+/-	.639	mph
32	N CO2/Byron	385.361+/-	3.543	ppm	61	N Solar Rad	6.949+/-	2.126	W/m^2
35	N HA 74'	8.788+/-	3.158	mph	64	S VA 55'	.225+/-	1.541	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	6.18+/- 2.58	332.2+/- 20.9	4.4+/- 19.5		
02	17 19 21	4.03+/- 2.22	310.2+/- 40.0	4.8+/- 26.8		
03	38 40 42	6.71+/- 2.19	322.7+/- 15.9	6.0+/- 13.6		
04	41 43 45	2.96+/- 1.93	285.8+/- 44.4	4.2+/- 26.2		
05	50 52 54	7.19+/- 2.35	328.6+/- 14.5	4.2+/- 12.3		
06	56 58 60	4.41+/- 1.61	317.9+/- 21.5	7.9+/- 13.8		

Average for hourly period ending at 07:00:00  
 Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TDP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
24	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Re1 HUM	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		



07:04:17 -- END CAL. NCD-4  
 07:04:27 -- BEGIN CAL. NCO-5  
 07:11:41 -- END CAL. NCD-5

ALL NORTH ECOL. ON LINE GRD  
 Average for 15 minute period ending at 07:15:00  
 Traffic Data  
 Total Traffic = 2290 vehicles averaging 52.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	53.8	48	42.7	80	51.1	70	51.3	17	47.1
Cat2	173	54.6	143	45.1	215	51.4	141	51.3	43	46.3
Cat3	24	56.1	18	49.8	25	50.8	13	48.1	7	47.4
Cat4	11	57.8	12	49.4	11	50.2	7	51.7	2	44.6
Cat5	10	57.8	8	51.7	2	52.2	2	57.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	59.1	89	53.3	77	53.1	100	52.8	18	42.8
Cat2	205	61.3	176	53.5	170	53.3	134	53.1	23	43.0
Cat3	11	65.5	25	54.9	10	53.0	8	51.1	0	.0
Cat4	2	58.0	8	55.2	9	57.1	0	.0	0	.0
Cat5	1	65.4	1	53.1	1	53.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
51.8	593	25.9	52.8	1483	63.9	53.2	141	6.2	52.9	68	3.0	55.3	25	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.617+/-	3.013	37	N VA 102'	.146+/-	1.387
12	N Dasibi CD	.791+/-	.131	38	S BOT PER	-5.205+/-	1.952
13	N TOP PAR	2.937+/-	2.087	39	N VA 74'	.220+/-	1.308
14	N Dasibi 03	.016+/-	.001	40	S BOT PAR	4.519+/-	2.473
15	N TOP VER	.178+/-	1.398	41	N GND PER	-5.548+/-	1.659
16	N NDX/TECO	*****+/-*****		42	S BOT VER	.430+/-	1.085
17	N BOT PER	-2.043+/-	2.202	43	N GND PAR	2.058+/-	2.308
19	N BOT PAR	2.435+/-	1.887	45	N GND VER	.119+/-	1.185
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.239+/-	1.436	50	S TOP PER	-5.948+/-	1.895
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.556+/-	.080
23	N HA 102'	10.948+/-	3.017	52	S TOP PAR	4.337+/-	2.320
24	N THC/Byron	1.995+/-	.064	53	N Ecolyzer-3	1.321+/-	.347
25	N WV 102'	326.896+/-	13.878	54	S TOP VER	.317+/-	.993
26	N NMHC/Byro	1.091+/-	.175	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	41.915+/-	3.882	56	S GND PER	-3.285+/-	1.524
28	N CH4/Byron	1.474+/-	.064	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	323.680+/-	22.489	58	S GND PAR	3.092+/-	1.745
30	N CD/Byron	.335+/-	.081	59	N Rel Hum	98.881+/-	.368
31	N 74' Temp	42.845+/-	3.358	60	S GND VER	.440+/-	.648
32	N CD2/Byron	392.281+/-	5.392	61	N Solar Rad	4.723+/-	1.349
35	N HA 74'	9.314+/-	3.352	64	S VA 55'	.282+/-	1.342

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.06+/- 2.86	323.2+/- 28.4	6.0+/- 18.9
02	17 19 21	4.02+/- 2.09	303.0+/- 37.2	12.6+/- 26.5
03	38 40 42	7.30+/- 2.36	320.6+/- 17.1	5.5+/- 9.7
04	41 43 45	3.25+/- 1.78	290.9+/- 45.1	5.0+/- 22.1
05	50 52 54	7.72+/- 2.17	325.0+/- 15.1	3.6+/- 8.4
06	56 58 60	4.86+/- 1.70	318.1+/- 19.1	7.6+/- 10.0

Average for 15 minute period ending at 07:30:00  
 Traffic Data  
 Total Traffic = 2618 vehicles averaging 50.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	54.3	85	41.9	70	49.7	95	51.4	25	46.0
Cat2	178	54.7	136	44.9	174	52.0	145	51.3	117	45.6
Cat3	27	55.1	17	48.6	34	51.4	15	52.9	5	43.7
Cat4	11	57.0	20	49.0	17	52.0	5	50.6	3	44.8
Cat5	9	59.9	5	51.1	6	57.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	57.9	93	49.4	104	50.9	115	49.2	49	42.0
Cat2	247	58.3	234	50.0	193	49.7	155	50.7	31	42.5
Cat3	9	58.5	28	51.5	32	51.5	4	51.1	1	27.2
Cat4	6	58.9	11	52.4	17	52.7	1	53.9	0	.0
Cat5	3	68.7	6	54.2	3	54.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.4	712	27.2	51.3	1610	61.5	51.8	173	6.6	52.3	91	3.5	57.2	32	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.488+/-	2.864	37	N VA 102'	.365+/-	1.470
12	N Dasibi CD	.952+/-	.409	38	S BOT PER	-5.344+/-	1.833
13	N TOP PAR	4.241+/-	2.736	39	N VA 74'	.218+/-	1.781
14	N Dasibi 03	.019+/-	.008	40	S BOT PAR	6.566+/-	2.107
15	N TOP VER	.144+/-	1.924	41	N GND PER	-7.790+/-	1.677
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.769+/-	1.187
17	N BOT PER	-1.772+/-	2.113	43	N GND PAR	3.706+/-	1.921
19	N BOT PAR	3.317+/-	2.037	45	N GND VER	.185+/-	.942
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.181+/-	1.825	50	S TOP PER	-5.957+/-	2.099
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.803+/-	.172
23	N HA 102'	12.558+/-	3.045	52	S TOP PAR	6.161+/-	2.134
24	N THC/Byron	2.288+/-	.327	53	N Ecolyzer-3	1.461+/-	.475
25	N WV 102'	317.228+/-	13.795	54	S TOP VER	.567+/-	1.038
26	N NMHC/Byro	1.353+/-	.059	55	N Ecolyzer-4	1.224+/-	.513
27	N Gnd Temp	43.921+/-	4.113	56	S GND PER	-3.395+/-	1.674
28	N CH4/Byron	1.345+/-	.047	57	N Ecolyzer-5	1.041+/-	.675
29	N WV 74'	308.209+/-	19.979	58	S GND PAR	4.735+/-	1.595
30	N CD/Byron	.684+/-	.221	59	N Rel Hum	98.795+/-	.559
31	N 74' Temp	41.811+/-	2.292	60	S GND VER	.472+/-	.645
32	N CD2/Byron	388.129+/-	6.479	61	N Solar Rad	7.494+/-	3.954
35	N HA 74'	9.713+/-	2.948	64	S VA 55'	.584+/-	1.692

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.02+/- 2.96	315.8+/- 25.9	7.9+/- 24.1
02	17	19	21	4.74+/- 2.00	293.4+/- 29.6	7.7+/- 28.3
03	38	40	42	8.83+/- 2.13	308.8+/- 12.0	5.8+/- 7.5
04	41	43	45	4.26+/- 1.84	283.4+/- 27.2	3.8+/- 15.2
05	50	52	54	8.82+/- 2.40	314.0+/- 11.4	4.7+/- 6.7
06	56	58	60	6.07+/- 1.75	305.2+/- 15.7	4.9+/- 6.4

Average for 15 minute period ending at 07:45:00  
 Traffic Data  
 Total Traffic = 2754 vehicles averaging 50.0 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	53.7	56	41.8	78	50.9	92	49.6	23	47.3
Cat2	184	54.9	167	44.4	180	51.6	164	50.3	91	46.2
Cat3	26	57.1	19	48.6	48	51.9	10	50.0	4	46.6
Cat4	21	58.8	18	50.4	14	50.8	11	50.2	0	0
Cat5	5	59.2	7	52.4	4	57.0	1	60.4	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	96	56.7	95	48.2	99	48.8	95	48.9	63	42.0
Cat2	219	57.6	269	48.0	210	47.2	138	49.7	53	41.8
Cat3	14	59.3	35	50.4	25	48.2	5	46.3	0	0
Cat4	4	59.9	13	46.8	9	49.0	6	50.5	0	0
Cat5	2	61.2	5	47.1	7	47.3	1	48.6	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.3	767	27.9	50.0	1675	60.8	51.7	184	6.7	52.0	96	3.5	52.8	32	1.2

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TOP PER	-6.131+/-	3.586	37	N VA 102'	.024+/-	1.784							
12	N Dasibi CO	.793+/-	.182	38	S BOT PER	-5.580+/-	2.251							
13	N TOP PAR	3.887+/-	2.883	39	N VA 74'	.083+/-	1.708							
14	N Dasibi O3	.018+/-	.001	40	S BOT PAR	5.312+/-	2.481							
15	N TOP VER	1.50+/-	2.125	41	N GND PER	-1.062+/-	1.856							
16	N NOX/TECO	*****+/-*****	*****	42	S BOT VER	.805+/-	1.386							
17	N BOT PER	-2.486+/-	2.636	43	N GND PAR	2.272+/-	2.308							
18	N BOT PAR	3.065+/-	2.374	44	N GND VER	.451+/-	1.585							
19	N NO2/TECO	*****+/-*****	*****	45	N Ecolyzer-1	*****+/-*****	*****							
20	N BOT VER	.036+/-	1.822	46	S TOP PER	-6.855+/-	2.474							
21	N NO/TECO	*****+/-*****	*****	47	N Ecolyzer-2	1.738+/-	.074							
22	N HA 102'	12.712+/-	3.455	48	S TOP PAR	5.056+/-	1.874							
23	N THC/Byron	1.829+/-	.070	49	N Ecolyzer-3	1.247+/-	.280							
24	N WV 102'	324.796+/-	13.034	50	S TOP VER	.524+/-	1.103							
25	N NMHC/Byro	1.187+/-	.187	51	N Ecolyzer-4	.981+/-	.209							
26	N Gnd Temp	44.130+/-	3.662	52	S GND PER	-3.603+/-	1.883							
27	N CH4/Byron	1.384+/-	.065	53	N Ecolyzer-5	.861+/-	.587							
28	N WV 74'	319.043+/-	20.436	54	S GND PAR	3.864+/-	1.715							
29	N CO/Byron	.446+/-	.412	55	N Re1 Hum	98.648+/-	.234							
30	N 74' Temp	42.645+/-	3.545	56	S GND VER	.464+/-	.730							
31	N CO2/Byron	379.987+/-	2.909	57	N Solar Rad	10.037+/-	1.136							
32	N HA 74'	10.658+/-	3.801	58	S VA 55'	.524+/-	1.649							
33				59										
34				60										
35				61										
				62										
				63										
				64										

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.90+/- 3.79	328.5+/- 21.3	8.0+/- 21.2
02	17	19	21	4.96+/- 2.60	301.7+/- 34.5	4.0+/- 29.0
03	38	40	42	8.29+/- 2.15	317.0+/- 18.1	4.8+/- 12.6
04	41	43	45	3.80+/- 1.80	304.1+/- 42.4	10.8+/- 24.0
05	50	52	54	8.85+/- 2.37	322.8+/- 12.8	5.3+/- 8.1
06	56	58	60	5.70+/- 1.67	312.3+/- 20.4	6.4+/- 9.8

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2672 vehicles averaging 49.7 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	54.4	32	40.9	95	50.9	93	49.4	42	46.2
Cat2	202	55.0	163	43.8	195	51.0	169	50.0	85	47.2
Cat3	26	58.1	22	47.1	26	50.1	14	49.9	3	51.7
Cat4	14	58.2	30	50.3	21	51.6	8	50.2	0	0
Cat5	6	58.7	7	53.2	1	51.6	3	52.1	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	57.2	101	48.8	91	49.8	94	49.4	82	42.1
Cat2	211	56.0	239	45.2	178	48.9	101	49.5	49	42.5
Cat3	7	55.3	32	49.5	27	49.1	9	46.3	2	44.4
Cat4	5	54.2	10	51.0	15	45.7	2	48.4	0	0
Cat5	4	55.7	7	45.5	5	45.9	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
49.4	773	28.9	49.7	1592	59.6	50.6	168	6.3	51.1	106	4.0	51.6	33	1.2

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TOP PER	-5.952+/-	3.025	37	N VA 102'	-.118+/-	1.521							
12	N Dasibi CO	.842+/-	.099	38	S BOT PER	-5.189+/-	2.231							
13	N TOP PAR	3.439+/-	2.227	39	N VA 74'	-.057+/-	1.574							
14	N Dasibi O3	.018+/-	.001	40	S BOT PAR	4.608+/-	2.037							
15	N TOP VER	1.197+/-	1.541	41	N GND PER	-1.175+/-	1.736							
16	N NOX/TECO	*****+/-*****	*****	42	S BOT VER	.560+/-	1.062							
17	N BOT PER	-2.511+/-	2.513	43	N GND PAR	1.899+/-	1.995							
18	N BOT PAR	2.714+/-	2.359	44	N GND VER	1.40+/-	.885							
19	N NO2/TECO	*****+/-*****	*****	45	N Ecolyzer-1	*****+/-*****	*****							
20	N BOT VER	-.200+/-	1.552	46	S TOP PER	-6.458+/-	2.244							
21	N NO/TECO	*****+/-*****	*****	47	N Ecolyzer-2	1.888+/-	.073							
22	N HA 102'	11.103+/-	2.736	48	S TOP PAR	4.527+/-	2.128							
23	N THC/Byron	1.899+/-	.068	49	N Ecolyzer-3	1.250+/-	.279							
24	N WV 102'	327.862+/-	14.435	50	S TOP VER	.472+/-	1.063							
25	N NMHC/Byro	1.251+/-	.189	51	N Ecolyzer-4	.919+/-	.180							
26	N Gnd Temp	41.264+/-	3.577	52	S GND PER	-3.434+/-	1.794							
27				53										
				54										
				55										
				56										

28	N CH4/Byron	1.400+/-	.085	ppm	57	N Ecolyzer-5	1.260+/-	.637	ppm
29	N WV 74'	319.888+/-	21.194	DEGR AZ	58	S GND PAR	3.375+/-	1.705	mph
30	N CO/Byron	.182+/-	.058	ppm	59	N Rel Hum	98.746+/-	.224	%
31	N 74' Temp	38.710+/-	3.492	DEGR F	60	S GND VER	.496+/-	.585	mph
32	N CO2/Byron	383.732+/-	5.206	ppm	61	N Solar Rad	12.081+/-	2.503	W/m**2
35	N HA 74'	9.529+/-	3.127	mph	64	S VA 55'	.441+/-	1.535	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.27+/- 3.21	328.8+/- 17.1	2.6+/- 15.7		
02	17 19 21	4.65+/- 2.63	308.2+/- 33.5	3.5+/- 27.8		
03	38 40 42	7.39+/- 1.98	317.7+/- 17.2	4.3+/- 8.7		
04	41 43 45	3.17+/- 1.50	307.5+/- 44.7	2.9+/- 25.3		
05	50 52 54	8.20+/- 2.45	325.0+/- 13.1	4.5+/- 10.0		
06	56 58 60	5.19+/- 1.71	314.9+/- 21.4	6.9+/- 8.9		

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 10334 vehicles averaging 50.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	228	54.1	202	41.9	323	50.7	350	50.4	107	46.5
Cat2	737	54.8	609	44.6	764	51.5	619	50.8	376	46.3
Cat3	103	56.6	76	48.5	131	51.2	52	50.3	20	46.8
Cat4	57	58.1	86	49.8	63	51.3	32	50.6	5	44.7
Cat5	30	58.8	27	52.2	13	55.9	6	55.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	264	57.5	378	49.9	371	50.5	404	50.0	218	42.1
Cat2	882	58.3	918	48.8	751	49.6	528	50.8	156	42.3
Cat3	41	60.1	120	51.4	94	50.1	26	48.5	3	38.7
Cat4	17	57.7	42	50.9	50	50.7	9	50.4	0	.0
Cat5	10	61.7	19	49.1	16	48.6	1	48.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
49.9	2845	27.5	50.9	6340	61.4	51.8	686	6.4	52.0	361	3.5	54.1	122	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.297+/- 3.209	mph	37	N VA 102'	.104+/- 1.555	mph
12	N Dasibi CO	.795+/- .259	ppm	38	S BDT PER	-5.330+/- 2.072	mph
13	N TOP PAR	3.571+/- 2.541	mph	39	N VA 74'	.116+/- 1.605	mph
14	N Dasibi O3	.018+/- .004	ppm	40	S BDT PAR	5.276+/- 2.431	mph
15	N TOP VER	.069+/- 1.774	mph	41	N GND PER	-.894+/- 1.893	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	.591+/- 1.186	mph
17	N BDT PER	-2.228+/- 2.390	mph	43	N GND PAR	2.434+/- 2.264	mph
19	N BDT PAR	2.883+/- 2.191	mph	45	N GND VER	.224+/- 1.206	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.064+/- 1.673	mph	50	S TOP PER	-6.305+/- 2.212	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.896+/- .141	ppm
23	N HA 102'	11.830+/- 3.166	mph	52	S TOP PAR	5.020+/- 2.227	mph
24	N THC/Byron	2.003+/- .244	ppm	53	N Ecolyzer-3	1.320+/- .365	ppm
25	N WV 102'	324.222+/- 14.350	DEGR AZ	54	S TOP VER	1.470+/- 1.052	mph
26	N NMHC/Byro	1.220+/- .185	ppm	55	N Ecolyzer-4	1.041+/- .337	ppm
27	N Gnd Temp	42.807+/- 3.821	DEGR F	56	S GND PER	-3.432+/- 1.720	mph
28	N CH4/Byron	1.401+/- .080	ppm	57	N Ecolyzer-5	1.040+/- .649	ppm
29	N WV 74'	317.674+/- 21.672	DEGR AZ	58	S GND PAR	3.767+/- 1.756	mph
30	N CO/Byron	.412+/- .297	ppm	59	N Rel Hum	98.718+/- .371	%
31	N 74' Temp	41.453+/- 3.530	DEGR F	60	S GND VER	.468+/- .653	mph
32	N CO2/Byron	386.032+/- 6.858	ppm	61	N Solar Rad	8.584+/- 3.700	W/m**2
35	N HA 74'	9.804+/- 3.348	mph	64	S VA 55'	.458+/- 1.561	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (deg)		
01	11 13 15	7.06+/- 3.28	324.2+/- 24.0	5.6+/- 20.2		
02	17 19 21	4.59+/- 2.36	301.5+/- 34.0	6.9+/- 28.0		
03	38 40 42	7.95+/- 2.24	316.0+/- 16.8	5.1+/- 9.8		
04	41 43 45	3.57+/- 1.78	295.4+/- 41.4	5.6+/- 22.1		
05	50 52 54	8.40+/- 2.39	321.7+/- 13.8	4.5+/- 8.4		
06	56 58 60	5.45+/- 1.76	312.6+/- 19.7	6.4+/- 8.9		

08:38:47 -- BEGIN RECAL. NCO-2 GRD  
 08:54:32 -- END RECAL. NCO-2 GRD  
 08:54:53 -- BEGIN RECAL. NCO-3 GRD

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2374 vehicles averaging 52.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	53.8	31	41.6	89	60.8	79	51.8	43	47.4
Cat2	191	55.4	152	43.8	179	51.2	133	52.2	86	46.9
Cat3	23	56.4	19	48.3	32	50.8	15	50.7	6	41.0
Cat4	14	59.4	34	48.6	12	52.1	4	51.3	0	0
Cat5	7	59.2	8	49.8	3	50.2	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	61.1	111	54.2	108	54.4	87	52.9	76	43.3
Cat2	166	62.4	186	54.2	127	54.7	74	53.5	42	43.6
Cat3	8	62.4	31	54.4	22	53.5	7	51.1	0	0
Cat4	2	59.4	7	53.4	8	56.5	5	56.5	0	0
Cat5	0	0	1	55.2	2	59.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
52.0	770	32.4	52.8	1336	56.3	52.6	163	6.9	52.8	86	3.6	54.6	19	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-5.277+/-	2.628	37	N VA 102'	.095+/-	1.281
12	N Dasibi CD	.764+/-	.161	38	S BOT PER	-5.296+/-	2.098
13	N TDP PAR	1.189+/-	2.009	39	N VA 74'	.549+/-	1.450
14	N Dasibi 03	.016+/-	.002	40	S BOT PAR	2.059+/-	2.455
15	N TOP VER	.376+/-	1.386	41	N GND PER	-1.125+/-	1.686
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.433+/-	1.100
17	N BDT PER	-2.991+/-	2.393	43	N GND PAR	.524+/-	1.856
19	N BDT PAR	1.351+/-	2.092	45	N GND VER	.117+/-	.818
20	N ND2/TECO	*****+/-	*****	49	N EcoLyzr-1	*****+/-	*****
21	N BOT VER	.172+/-	1.384	50	S TOP PER	-6.226+/-	2.088
22	N ND/TECO	*****+/-	*****	51	N EcoLyzr-2	1.686+/-	.073
23	N HA 102'	9.067+/-	2.506	52	S TOP PAR	1.942+/-	2.535
24	N THC/Byron	1.895+/-	.077	53	N EcoLyzr-3	1.257+/-	.314
25	N WV 102'	345.171+/-	17.533	54	S TOP VER	.211+/-	1.059
26	N NMHC/Byro	1.251+/-	.407	55	N EcoLyzr-4	1.014+/-	.227
27	N Gnd Temp	42.931+/-	2.589	56	S GND PER	-2.862+/-	1.563
28	N CH4/Byron	1.394+/-	.093	57	N EcoLyzr-5	1.151+/-	.705
29	N WV 74'	339.351+/-	22.340	58	S GND PAR	1.972+/-	1.805
30	N CO/Byron	2.18+/-	.076	59	N Rel Hum	98.648+/-	.236
31	N 74' Temp	42.436+/-	3.183	60	S GND VER	.224+/-	.760
32	N CO2/Byron	388.618+/-	8.808	61	N Solar Rad	18.530+/-	2.014
35	N HA 74'	8.036+/-	2.809	64	S VA 55'	.019+/-	1.280

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.00+/- 2.49	348.4+/- 26.5	7.8+/- 19.3
02	17 19 21	4.20+/- 2.23	338.2+/- 44.0	8.6+/- 29.7
03	38 40 42	6.33+/- 1.94	338.0+/- 23.9	6.1+/- 10.8
04	41 43 45	2.56+/- 1.41	336.0+/- 51.9	6.2+/- 22.6
05	50 52 54	7.08+/- 2.13	344.1+/- 21.6	2.8+/- 9.2
06	56 58 60	3.97+/- 1.61	326.9+/- 28.3	3.0+/- 14.1

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2229 vehicles averaging 52.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	55.2	46	42.4	72	52.5	75	50.8	20	48.2
Cat2	127	55.9	133	44.9	168	51.2	136	51.6	86	46.9
Cat3	18	57.1	20	49.5	34	51.3	14	51.8	7	43.6
Cat4	18	58.8	14	48.3	19	51.3	6	52.7	0	0
Cat5	4	65.0	6	49.6	5	55.2	1	48.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	59.4	98	52.7	100	54.0	97	53.2	48	43.0
Cat2	153	60.9	166	53.6	128	53.1	105	53.4	53	43.5
Cat3	14	60.0	19	52.1	26	54.2	7	50.5	0	0
Cat4	2	60.9	15	53.8	10	53.0	0	0	0	0
Cat5	0	0	2	53.3	3	55.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
52.2	710	31.9	52.3	1255	56.3	52.7	159	7.1	53.4	84	3.8	55.0	21	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-4.131+/-	1.856	37	N VA 102'	.236+/-	.724
12	N Dasibi CD	1.316+/-	.564	38	S BOT PER	-3.524+/-	1.708
13	N TDP PAR	.313+/-	1.231	39	N VA 74'	.269+/-	.781
14	N Dasibi 03	.014+/-	.006	40	S BOT PAR	.929+/-	1.153
15	N TOP VER	.217+/-	.777	41	N GND PER	-5.60+/-	1.417
16	N NDX/TECO	*****+/-	*****	42	S BOT VER	.264+/-	.751
17	N BOT PER	-2.379+/-	2.026	43	N GND PAR	-2.116+/-	1.164
19	N BDT PAR	.422+/-	1.121	45	N GND VER	.077+/-	.577
20	N ND2/TECO	*****+/-	*****	49	N EcoLyzr-1	*****+/-	*****
21	N BOT VER	.132+/-	.686	50	S TOP PER	-3.968+/-	1.845
22	N ND/TECO	*****+/-	*****	51	N EcoLyzr-2	1.866+/-	.210
23	N HA 102'	6.609+/-	1.786	52	S TOP PAR	.477+/-	1.019
24	N THC/Byron	1.972+/-	.079	53	N EcoLyzr-3	1.404+/-	.402
25	N WV 102'	356.435+/-	17.976	54	S TOP VER	.208+/-	.754
26	N NMHC/Byro	1.177+/-	.163	55	N EcoLyzr-4	1.319+/-	.443
27	N Gnd Temp	42.566+/-	3.248	56	S GND PER	-1.558+/-	1.104
28	N CH4/Byron	1.358+/-	.058	57	N EcoLyzr-5	1.834+/-	.915
29	N WV 74'	349.395+/-	18.379	58	S GND PAR	1.653+/-	.901
30	N CO/Byron	41.185+/-	1.03	59	N Rel Hum	98.616+/-	.248
31	N 74' Temp	41.837+/-	2.592	60	S GND VER	.158+/-	.438
32	N CO2/Byron	391.630+/-	8.643	61	N Solar Rad	10.020+/-	6.074
35	N HA 74'	5.642+/-	1.827	64	S VA 55'	.105+/-	.788

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	4.41+/- 1.61	354.9+/- 16.9	4.3+/- 11.8
02	17	19	21	2.91+/- 1.76	349.1+/- 44.6	7.1+/- 24.0
03	38	40	42	3.94+/- 1.65	344.2+/- 19.4	7.3+/- 13.3
04	41	43	45	1.72+/- 1.06	26.3+/- 53.2	9.4+/- 28.6
05	50	52	54	4.22+/- 1.81	353.0+/- 16.7	5.7+/- 14.9
06	56	58	60	1.92+/- 1.20	332.6+/- 32.5	10.3+/- 20.2

Average for 15 minute period ending at 08:45:00  
 Traffic Data  
 Total Traffic = 2095 vehicles averaging 54.0 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	55.2	58	43.5	75	53.9	72	53.1	27	50.6
Cat2	130	56.8	75	46.7	160	54.2	115	53.2	75	50.1
Cat3	19	56.5	18	50.9	38	54.7	8	54.6	2	46.8
Cat4	16	60.7	7	50.4	20	55.5	9	52.1	1	48.4
Cat5	5	59.0	3	52.4	2	55.0	0	0	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	60.5	103	54.9	94	55.0	106	53.7	33	43.9
Cat2	151	62.0	135	55.0	130	53.9	107	53.5	52	43.9
Cat3	3	63.1	30	54.5	29	55.2	13	54.4	1	35.4
Cat4	2	61.1	11	56.2	10	54.8	4	54.9	0	0
Cat5	1	60.1	3	59.9	4	56.8	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.4	705	33.7	54.2	1130	53.9	54.5	161	7.7	55.7	80	3.8	57.3	19	.9

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	-3.457+/- 1.732	mph	37	N VA 102'	.155+/- .754	mph						
12	N Dasibi CO	.819+/- .143	ppm	38	S BOT PER	-3.507+/- 1.536	mph						
13	N TOP PAR	.038+/- 1.392	mph	39	N VA 74'	.285+/- .811	mph						
14	N Dasibi O3	.013+/- .001	ppm	40	S BOT PAR	.528+/- 1.438	mph						
15	N TOP VER	.259+/- .825	mph	41	N GND PER	-.802+/- 1.035	mph						
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.264+/- .710	mph						
17	N BOT PER	-1.547+/- 1.978	mph	43	N GND PAR	.159+/- 1.082	mph						
18	N BOT PAR	.176+/- 1.107	mph	45	N GND VER	.085+/- .485	mph						
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm						
21	N BOT VER	.230+/- .744	mph	50	S TOP PER	-3.789+/- 1.546	mph						
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm						
23	N HA 102'	5.518+/- 1.363	ppm	52	S TOP PAR	-.245+/- 1.443	mph						
24	N THC/Byron	1.995+/- 1.087	ppm	53	N Ecolyzer-3	1.291+/- .289	ppm						
25	N WV 102'	4.440+/- 19.452	DEGR AZ	54	S TOP VER	.124+/- .648	ppm						
26	N NMHC/Byro	1.324+/- 1.135	ppm	55	N Ecolyzer-4	1.110+/- .191	ppm						
27	N Gnd Temp	41.368+/- 3.994	DEGR F	56	S GND PER	-1.681+/- 1.155	mph						
28	N CH4/Byron	1.423+/- .043	ppm	57	N Ecolyzer-5	1.177+/- .614	ppm						
29	N WV 74'	357.440+/- 20.525	DEGR AZ	58	S GND PAR	-.764+/- .956	mph						
30	N CO/Byron	.418+/- .116	ppm	59	N Rel Hum	98.534+/- 1.170	%						
31	N 74' Temp	41.055+/- 3.245	DEGR F	60	S GND VER	-.227+/- .429	mph						
32	N CO2/Byron	398.551+/- 3.657	ppm	61	N Solar Rad	55.680+/- 10.391	W/m <sup>2</sup>						
35	N HA 74'	4.915+/- 1.849	ppm	64	S VA 55'	-.039+/- .687	mph						

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	3.84+/- 1.67	1.5+/- 24.6	7.5+/- 17.0
02	17	19	21	2.37+/- 1.62	353.3+/- 53.1	14.3+/- 33.5
03	38	40	42	3.90+/- 1.53	350.0+/- 21.8	5.7+/- 14.2
04	41	43	45	1.61+/- .74	347.0+/- 49.8	6.2+/- 21.5
05	50	52	54	4.11+/- 1.55	5.0+/- 19.7	4.8+/- 13.5
06	56	58	60	2.12+/- 1.18	331.3+/- 35.6	13.1+/- 19.3

Average for 15 minute period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 1978 vehicles averaging 55.0 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	56.0	50	44.0	75	55.0	63	54.7	21	48.7
Cat2	120	57.5	45	46.0	161	55.0	103	55.4	90	48.0
Cat3	18	58.9	17	52.3	29	55.0	14	50.4	4	45.4
Cat4	7	61.4	4	52.7	16	54.8	6	54.3	1	43.2
Cat5	3	60.0	2	68.2	2	55.9	0	0	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	62.1	80	54.5	65	55.1	85	53.0	27	44.0
Cat2	175	62.5	148	55.9	151	56.1	132	54.1	39	44.9
Cat3	10	61.3	27	55.4	34	56.1	17	52.6	0	0
Cat4	10	64.5	15	55.9	15	57.6	3	55.2	0	0
Cat5	2	71.6	7	57.9	3	53.4	1	54.2	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.7	546	27.6	55.3	1165	58.9	55.0	170	8.6	57.2	77	3.9	62.6	20	1.0

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	-4.907+/- 1.628	mph	37	N VA 102'	.152+/- .738	mph						
12	N Dasibi CO	.687+/- .205	ppm	38	S BOT PER	-3.208+/- 1.330	mph						
13	N TOP PAR	-.707+/- 1.042	mph	39	N VA 74'	.194+/- .659	mph						
14	N Dasibi O3	.014+/- .001	ppm	40	S BOT PAR	.747+/- 1.059	mph						
15	N TOP VER	.095+/- .729	mph	41	N GND PER	-.809+/- 1.160	mph						
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.424+/- .842	mph						
17	N BOT PER	-2.485+/- 2.065	mph	43	N GND PAR	-.307+/- .952	mph						
18	N BOT PAR	-.148+/- .852	mph	45	N GND VER	.230+/- .849	mph						
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm						
21	N BOT VER	.059+/- .715	mph	50	S TOP PER	-3.734+/- 1.564	mph						
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm						
23	N HA 102'	6.543+/- 1.133	ppm	52	S TOP PAR	-.050+/- 1.089	mph						
24	N THC/Byron	1.851+/- .085	ppm	53	N Ecolyzer-3	*****+/-*****	ppm						
25	N WV 102'	7.918+/- 13.853	DEGR AZ	54	S TOP VER	.365+/- .749	ppm						
26	N NMHC/Byro	1.076+/- .182	ppm	55	N Ecolyzer-4	1.038+/- .161	ppm						
27	N Gnd Temp	43.270+/- 3.796	DEGR F	56	S GND PER	-1.675+/- 1.170	mph						

28	N CH4/Byron	1.308+/-	.095	ppm	57	N Ecolyzer-5	1.331+/-	1.256	ppm
29	N WV 74'	359.262+/-	11.178	DEGR AZ	58	S GND PAR	.972+/-	.966	mph
30	N CD/Byron	.234+/-	.066	ppm	59	N R01 Hum	98.388+/-	.303	%
31	N 74' Temp	41.785+/-	2.611	DEGR F	60	S GND VER	.204+/-	.436	mph
32	N CD2/Byron	397.655+/-	4.468	ppm	61	N Solar Rad	91.377+/-	12.145	W/m**2
35	N HA 74'	6.226+/-	1.680	mph	64	S VA 55'	.139+/-	.811	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.14+/-	1.56	8.5+/-	14.0	2.5+/- 9.1
02	17 19 21	2.92+/-	1.75	8.7+/-	47.3	4.9+/- 27.0
03	38 40 42	3.83+/-	1.20	348.9+/-	20.6	8.1+/- 17.2
04	41 43 45	1.71+/-	.97	12.4+/-	48.0	8.1+/- 27.7
05	50 52 54	4.02+/-	1.39	1.3+/-	19.5	8.5+/- 16.8
06	56 58 60	2.17+/-	1.26	328.3+/-	31.2	11.7+/- 21.2

Average for hourly period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 8676 vehicles averaging 53.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	275	54.9	185	43.1	311	52.9	289	52.5	111	48.7
Cat2	568	56.2	405	44.9	668	52.8	487	52.9	337	47.9
Cat3	78	57.2	74	50.2	133	53.0	51	51.5	19	43.5
Cat4	55	59.8	59	49.0	67	53.5	25	52.6	2	45.8
Cat5	20	63.4	17	52.4	12	54.0	1	48.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	260	60.7	373	54.1	368	54.6	375	53.2	184	43.4
Cat2	645	62.0	835	54.6	536	54.5	419	53.6	188	43.9
Cat3	35	61.2	107	54.3	111	54.9	44	52.6	1	35.4
Cat4	16	63.0	48	55.0	43	55.7	12	55.6	0	.0
Cat5	3	67.8	13	57.5	12	56.1	1	54.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
52.8	2731	31.5	53.6	4886	56.3	53.7	653	7.5	54.7	327	3.8	57.4	79	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.443+/-	2.071	37	N VA 102'	.159+/-	.905
12	N Dasibi CD	.896+/-	.403	38	S BDT PER	-3.884+/-	1.878
13	N TOP PAR	.208+/-	1.608	39	N VA 74'	.324+/-	.983
14	N Dasibi O3	.014+/-	.003	40	S BDT PAR	1.066+/-	1.721
15	N TOP VER	.236+/-	.970	41	N GND PER	-.824+/-	1.357
16	N NOX/TECD	*****+/-*****		42	S BDT VER	.346+/-	.866
17	N BOT PER	-2.346+/-	2.176	43	N GND PAR	.040+/-	1.347
19	N BOT PAR	.450+/-	1.481	45	N GND VER	.127+/-	.701
20	N ND2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.148+/-	.925	50	S TOP PER	-4.430+/-	2.052
22	N ND/TECD	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	6.934+/-	2.195	52	S TOP PAR	.531+/-	1.840
24	N THC/Byron	1.928+/-	.095	53	N Ecolyzer-3	1.296+/-	.343
25	N WV 102'	358.537+/-	19.190	54	S TOP VER	.227+/-	.820
26	N NMHC/Byro	1.207+/-	.258	55	N Ecolyzer-4	1.120+/-	.303
27	N Gnd Temp	42.534+/-	3.438	58	S GND PER	-1.944+/-	1.364
28	N CH4/Byron	1.371+/-	.085	57	N Ecolyzer-5	1.373+/-	.947
29	N WV 74'	351.507+/-	20.005	58	S GND PAR	1.093+/-	1.318
30	N CD/Byron	.264+/-	.128	59	N R01 Hum	98.547+/-	.262
31	N 74' Temp	41.778+/-	2.892	60	S GND VER	.203+/-	.534
32	N CD2/Byron	394.113+/-	7.841	61	N Solar Rad	48.902+/-	29.426
35	N HA 74'	6.205+/-	2.381	64	S VA 55'	.056+/-	.921

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.85+/-	2.03	358.0+/-	22.5	5.5+/- 15.0
02	17 19 21	3.10+/-	1.97	351.7+/-	48.0	8.7+/- 28.9
03	38 40 42	4.45+/-	1.93	344.8+/-	21.8	6.8+/- 14.0
04	41 43 45	1.90+/-	1.13	360.0+/-	51.4	7.5+/- 25.2
05	50 52 54	4.85+/-	2.15	355.9+/-	20.8	5.5+/- 14.0
06	56 58 60	2.55+/-	1.56	329.7+/-	32.0	9.5+/- 19.2

09:03:46 -- END RECAL. NCD-3  
 09:04:04 -- BEGIN RECAL. NCD-4  
 09:19:03 -- END RECAL. NCD-4  
 09:19:17 -- BEGIN RECAL. NCD-5  
 09:34:35 -- END RECAL. NCD-5

GRD  
 ALL ECOL. RECAL. GRD  
 Average for 15 minute period ending at 09:15:00  
 Traffic Data  
 Total Traffic = 2021 vehicles averaging 55.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	56.1	49	44.0	69	54.5	53	54.2	23	48.4
Cat2	114	56.9	51	47.7	157	55.3	108	55.0	76	47.2
Cat3	15	57.9	14	50.8	38	54.9	14	55.0	9	46.2
Cat4	6	56.7	10	53.1	10	52.3	3	54.5	0	.0
Cat5	7	61.3	1	52.9	2	52.5	2	59.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	63.0	67	54.8	75	56.1	100	54.1	30	43.9
Cat2	193	64.4	164	56.6	130	56.4	110	56.0	35	45.5
Cat3	17	65.3	41	56.4	35	56.8	15	53.7	1	41.6
Cat4	11	64.9	12	56.2	12	58.1	2	52.1	0	.0
Cat5	0	.0	1	54.3	3	58.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.1	602	29.8	56.2	1138	56.3	55.8	199	9.8	56.8	66	3.3	58.5	16	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.528+/-	1.930	37	N VA 102'	-.040+/-	.816
12	N Dasibi CO	.770+/-	1.131	38	S BOT PER	-4.379+/-	1.529
13	N TOP PAR	.895+/-	1.653	39	N VA 74'	-.232+/-	.821
14	N Dasibi O3	.014+/-	.001	40	S BOT PAR	1.717+/-	1.580
15	N TOP VER	.188+/-	.509	41	N GND PER	-.727+/-	1.376
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.263+/-	.828
17	N BOT PER	-2.161+/-	2.049	43	N GND PAR	.397+/-	1.226
19	N BOT PAR	.857+/-	1.398	45	N GND VER	.258+/-	.677
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.022+/-	.842	50	S TOP PER	-5.194+/-	1.781
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.923+/-	.060
23	N HA 102'	7.002+/-	1.719	52	S TOP PAR	1.080+/-	1.518
24	N THC/Byron	1.938+/-	.070	53	N EcoLyzer-3	1.207+/-	.255
25	N WV 102'	348.862+/-	16.461	54	S TOP VER	.123+/-	.827
26	N NMHC/Byro	1.672+/-	.325	55	N EcoLyzer-4	*****+/-*****	
27	N Gnd Temp	43.999+/-	2.982	56	S GND PER	-2.487+/-	1.327
28	N CH4/Byron	1.343+/-	.084	57	N EcoLyzer-5	1.092+/-	.655
29	N WV 74'	344.287+/-	16.651	58	S GND PAR	1.578+/-	1.210
30	N CO/Byron	.375+/-	.170	59	N Rel Hum	98.453+/-	.206
31	N 74' Temp	41.785+/-	3.166	60	S GND VER	.202+/-	.807
32	N CO2/Byron	392.037+/-	6.609	61	N Solar Rad	92.285+/-	14.685
35	N HA 74'	6.470+/-	1.969	64	S VA 55'	.018+/-	.922

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.88+/- 1.94	348.0+/- 21.7	4.7+/- 14.8
02	17 19 21	3.03+/- 1.72	324.6+/- 44.3	8.0+/- 26.6
03	38 40 42	5.03+/- 1.55	339.5+/- 18.6	3.8+/- 11.6
04	41 43 45	1.91+/- 1.04	327.1+/- 52.3	10.9+/- 24.4
05	50 52 54	5.57+/- 1.79	349.0+/- 16.3	2.2+/- 9.8
06	56 58 60	3.12+/- 1.56	328.5+/- 18.1	5.9+/- 14.5

Average for 15 minute period ending at 09:30:00  
 Traffic Data  
 Total Traffic = 1880 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	56.9	38	45.1	54	55.6	47	53.4	30	48.1
Cat2	123	58.3	47	47.1	146	55.5	96	56.6	41	49.1
Cat3	16	60.2	20	53.3	35	56.7	17	54.3	5	44.8
Cat4	6	61.3	6	55.4	15	55.7	3	58.1	0	.0
Cat5	4	63.0	3	55.4	4	58.6	2	58.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	63.0	59	54.9	67	56.8	77	56.3	23	44.7
Cat2	194	63.8	171	56.8	128	56.9	106	55.8	42	47.2
Cat3	15	64.5	32	57.0	29	57.1	12	56.9	0	.0
Cat4	10	63.7	25	56.2	16	56.3	4	56.1	0	.0
Cat5	0	.0	1	58.6	9	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.6	497	26.4	56.9	1094	58.2	56.8	181	9.6	57.4	85	4.5	60.2	23	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.606+/-	2.842	37	N VA 102'	.074+/-	1.167
12	N Dasibi CO	.752+/-	.216	38	S BOT PER	-4.907+/-	1.946
13	N TOP PAR	2.148+/-	1.818	39	N VA 74'	-.175+/-	1.326
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	3.433+/-	1.888
15	N TOP VER	.238+/-	1.529	41	N GND PER	-.243+/-	1.997
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.503+/-	.973
17	N BOT PER	-1.958+/-	2.227	43	N GND PAR	1.659+/-	1.823
19	N BOT PAR	1.707+/-	1.651	45	N GND VER	.241+/-	.835
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.299+/-	1.522	50	S TOP PER	-5.480+/-	2.004
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.873+/-	.073
23	N HA 102'	9.141+/-	2.461	52	S TOP PAR	3.107+/-	1.609
24	N THC/Byron	2.014+/-	.202	53	N EcoLyzer-3	1.277+/-	.345
25	N WV 102'	332.033+/-	14.273	54	S TOP VER	.349+/-	.937
26	N NMHC/Byro	1.526+/-	.168	55	N EcoLyzer-4	1.242+/-	.386
27	N Gnd Temp	44.182+/-	2.287	56	S GND PER	-3.246+/-	1.459
28	N CH4/Byron	1.378+/-	.080	57	N EcoLyzer-5	*****+/-*****	
29	N WV 74'	324.930+/-	21.417	58	S GND PAR	2.695+/-	1.436
30	N CO/Byron	.308+/-	.055	59	N Rel Hum	98.355+/-	.265
31	N 74' Temp	43.428+/-	4.588	60	S GND VER	.308+/-	.455
32	N CO2/Byron	401.158+/-	4.614	61	N Solar Rad	81.703+/-	8.361
35	N HA 74'	8.199+/-	3.081	64	S VA 55'	.282+/-	1.121

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.69+/- 2.44	332.9+/- 21.6	9.4+/- 22.6
02	17	19	21	3.63+/- 1.92	308.2+/- 43.9	13.2+/- 31.0
03	38	40	42	6.40+/- 1.84	325.0+/- 18.6	4.7+/- 8.8
04	41	43	45	2.84+/- 1.73	286.5+/- 47.7	6.7+/- 23.8
05	50	52	54	6.56+/- 1.98	329.6+/- 14.0	4.1+/- 9.4
06	56	58	60	4.52+/- 1.35	319.8+/- 19.7	4.1+/- 6.9

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 1966 vehicles averaging 56.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	57.3	36	43.9	75	56.2	63	54.3	29	49.3
Cat2	131	58.8	79	46.6	173	55.7	91	55.2	47	49.5
Cat3	28	60.2	24	52.4	27	54.7	15	54.6	3	52.6
Cat4	19	60.6	18	52.6	10	55.9	7	57.1	1	56.9
Cat5	10	62.7	4	54.6	4	59.1	3	57.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	63.5	59	55.3	68	55.7	65	54.5	25	44.9
Cat2	194	64.9	165	56.9	134	57.2	90	56.8	28	45.8
Cat3	15	67.6	23	57.5	26	56.4	11	59.2	0	.0
Cat4	9	64.2	14	58.6	16	56.2	2	37.0	0	.0
Cat5	2	68.8	3	60.2	1	54.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	538	27.4	56.9	1132	57.6	57.3	173	8.8	57.3	96	4.9	60.3	27	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.146+/- 3.129	mph	37	N VA 102'	-0.080+/- 1.296	mph
12	N Dasibi CO	.598+/- .155	ppm	38	S BOT PER	-4.638+/- 1.980	mph
13	N TOP PAR	2.246+/- 1.713	mph	39	N VA 74'	.070+/- 1.404	mph
14	N Dasibi O3	.016+/- .001	ppm	40	S BOT PAR	3.856+/- 1.984	mph
15	N TOP VER	.076+/- 1.475	mph	41	N GND PER	-3.305+/- 2.101	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.639+/- 1.016	mph
17	N BOT PER	-1.552+/- 2.340	mph	43	N GND PAR	1.475+/- 1.861	mph
19	N BOT PAR	2.073+/- 1.727	mph	45	N GND VER	.322+/- 1.172	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.128+/- 1.502	mph	50	S TOP PER	-5.439+/- 2.009	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.780+/- .098	ppm
23	N HA 102'	9.342+/- 2.789	ppm	52	S TOP PAR	3.344+/- 1.820	mph
24	N THC/Byron	2.114+/- .200	ppm	53	N Ecolyzer-3	1.019+/- .229	ppm
25	N WV 102'	329.131+/- 16.238	DEGR AZ	54	S TOP VER	.398+/- 1.041	mph
26	N NMHC/Byro	1.918+/- .327	ppm	55	N Ecolyzer-4	.858+/- .195	ppm
27	N Gnd Temp	45.172+/- 3.278	DEGR F	56	S GND PER	-2.588+/- 1.405	mph
28	N CH4/Byron	1.490+/- .068	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	321.534+/- 22.825	DEGR AZ	58	S GND PAR	3.127+/- 1.573	mph
30	N CO/Byron	.236+/- .080	ppm	59	N Res Hum	98.388+/- .177	%
31	N 74' Temp	42.801+/- 3.485	DEGR F	60	S GND VER	.375+/- .561	mph
32	N CO2/Byron	396.678+/- 3.137	ppm	61	N Solar Rad	75.164+/- 8.507	W/m^2
35	N HA 74'	7.710+/- 3.164	mph	64	S VA 55'	.364+/- 1.381	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.29+/- 3.06	328.5+/- 27.5	8.1+/- 23.1
02	17	19	21	3.51+/- 2.32	291.6+/- 40.0	13.0+/- 33.3
03	38	40	42	6.49+/- 1.85	320.3+/- 18.6	7.0+/- 9.1
04	41	43	45	3.12+/- 1.47	287.7+/- 50.3	8.5+/- 28.6
05	50	52	54	6.74+/- 1.98	328.1+/- 16.3	5.3+/- 9.2
06	56	58	60	4.39+/- 1.43	309.8+/- 21.1	5.3+/- 8.5

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 1750 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	55.3	31	41.7	62	58.1	40	56.4	21	46.9
Cat2	91	57.9	81	46.2	145	58.7	81	57.3	61	48.4
Cat3	16	58.3	21	51.9	28	55.7	11	56.9	3	43.6
Cat4	7	60.2	22	55.2	14	55.5	8	53.7	3	43.1
Cat5	3	59.6	9	55.5	2	58.8	1	60.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	64.1	73	56.0	72	57.6	58	57.0	22	45.7
Cat2	197	66.0	135	58.1	103	60.1	70	58.4	31	47.4
Cat3	14	66.1	27	59.9	29	59.7	7	55.7	2	45.8
Cat4	12	68.2	11	59.3	19	63.4	1	54.4	0	.0
Cat5	2	71.0	6	61.8	3	62.8	1	47.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	473	27.0	57.7	995	56.9	57.6	158	9.0	58.8	97	5.5	59.5	27	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-5.312+/- 3.035	mph	37	N VA 102'	.078+/- 1.152	mph
12	N Dasibi CO	.650+/- .164	ppm	38	S BOT PER	-5.108+/- 2.307	mph
13	N TOP PAR	2.560+/- 2.008	mph	39	N VA 74'	.185+/- 1.588	mph
14	N Dasibi O3	.019+/- .001	ppm	40	S BOT PAR	3.617+/- 2.429	mph
15	N TOP VER	.072+/- 1.517	mph	41	N GND PER	-6.675+/- 2.072	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.702+/- 1.061	mph
17	N BOT PER	-2.318+/- 2.401	mph	43	N GND PAR	1.289+/- 1.697	mph
19	N BOT PAR	2.231+/- 1.801	mph	45	N GND VER	.295+/- .946	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.081+/- 1.554	mph	50	S TOP PER	-6.234+/- 2.492	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.631+/- .088	ppm
23	N HA 102'	9.730+/- 2.886	ppm	52	S TOP PAR	3.412+/- 1.788	mph
24	N THC/Byron	2.008+/- .094	ppm	53	N Ecolyzer-3	1.012+/- .240	ppm
25	N WV 102'	328.325+/- 14.802	DEGR AZ	54	S TOP VER	.466+/- 1.007	mph



26	N NMHC/Byro	1.448+/-	.158	ppm	55	N Ecolyzer-4	.955+/-	.203	ppm
27	N Gnd Temp	45.823+/-	4.865	DEGR F	56	S GND PER	-3.020+/-	1.509	mph
28	N CH4/Byron	1.343+/-	.081	ppm	57	N Ecolyzer-5	.875+/-	.537	ppm
29	N WV 74'	322.391+/-	21.739	DEGR AZ	58	S GND PAR	2.864+/-	1.644	mph
30	N CO/Byron	.194+/-	.093	ppm	59	N Rel Hum	98.372+/-	.186	%
31	N 74' Temp	42.775+/-	2.933	DEGR F	60	S GND VER	.420+/-	.681	mph
32	N CO2/Byron	392.851+/-	5.701	ppm	61	N Solar Rad	90.514+/-	7.364	W/m**2
35	N HA 74'	8.738+/-	3.190	mph	64	S VA 55'	.341+/-	1.483	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	6.46+/- 2.89	331.4+/- 21.5	4.8+/- 18.9		
02	17 19 21	4.17+/- 2.06	308.3+/- 36.2	.9+/- 26.5		
03	38 40 42	6.85+/- 2.18	324.4+/- 20.3	6.2+/- 10.3		
04	41 43 45	2.70+/- 1.74	301.7+/- 48.7	11.0+/- 27.1		
05	50 52 54	7.45+/- 2.33	330.1+/- 15.2	4.0+/- 9.3		
06	56 58 60	4.55+/- 1.48	317.3+/- 21.6	6.5+/- 11.4		

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 7617 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	201	58.5	154	43.8	270	55.8	203	54.5	103	48.3
Cat2	459	58.0	258	46.8	621	55.8	376	56.0	225	48.3
Cat3	76	58.3	79	52.2	128	55.5	57	55.1	20	46.4
Cat4	38	60.0	56	54.0	49	55.0	21	55.6	4	46.5
Cat5	24	62.0	17	55.1	12	57.8	8	58.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	238	63.4	258	55.3	282	56.6	301	55.3	100	44.7
Cat2	778	64.8	635	57.1	495	57.5	376	56.6	136	46.5
Cat3	61	65.9	123	57.5	119	57.5	45	56.2	3	44.4
Cat4	42	65.4	62	57.5	63	58.7	9	50.8	0	.0
Cat5	4	69.9	11	60.4	16	61.0	1	47.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.8	2110	27.7	56.9	4359	57.2	56.8	711	9.3	57.6	344	4.5	59.7	93	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-4.648+/-	2.746	37	N VA 102'	.008+/-	1.122
12	N Desibi CO	.692+/-	.184	38	S BDT PER	-4.758+/-	1.971
13	N TDP PAR	1.962+/-	1.905	39	N VA 74'	.185+/-	1.315
14	N Desibi O3	.016+/-	.002	40	S BDT PAR	3.158+/-	2.158
15	N TDP VER	.143+/-	1.381	41	N GND PER	-4.488+/-	1.914
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	.527+/-	.986
17	N BDT PER	-1.997+/-	2.267	43	N GND PAR	1.205+/-	1.733
19	N BDT PAR	1.717+/-	1.728	45	N GND VER	.279+/-	.924
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.092+/-	1.391	50	S TDP PER	-5.582+/-	2.115
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.802+/-	.138
23	N HA 102'	8.804+/-	2.712	52	S TDP PAR	2.736+/-	1.938
24	N TNC/Byron	2.018+/-	.183	53	N Ecolyzer-3	1.126+/-	.295
25	N WV 102'	334.534+/-	17.380	54	S TDP VER	.334+/-	.963
26	N NMHC/Byro	1.841+/-	.310	55	N Ecolyzer-4	1.038+/-	.284
27	N Gnd Temp	44.794+/-	3.475	56	S GND PER	-2.835+/-	1.454
28	N CH4/Byron	1.389+/-	.097	57	N Ecolyzer-5	.917+/-	.621
29	N WV 74'	328.389+/-	22.513	58	S GND PAR	2.555+/-	1.584
30	N CO/Byron	.278+/-	.127	59	N Rel Hum	98.392+/-	.232
31	N 74' Temp	42.697+/-	3.557	60	S GND VER	.326+/-	.562
32	N CO2/Byron	395.681+/-	6.231	61	N Solar Rad	84.917+/-	12.099
35	N HA 74'	7.779+/-	3.003	64	S VA 55'	.251+/-	1.251

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.61+/- 2.67	335.2+/- 24.1	6.8+/- 20.1		
02	17 19 21	3.59+/- 2.05	307.7+/- 41.9	8.8+/- 28.8		
03	38 40 42	6.19+/- 1.99	327.3+/- 20.2	5.4+/- 10.3		
04	41 43 45	2.84+/- 1.58	299.1+/- 50.2	9.3+/- 26.0		
05	50 52 54	6.58+/- 2.13	334.2+/- 17.4	3.9+/- 9.5		
06	56 58 60	4.14+/- 1.57	318.9+/- 21.0	5.5+/- 10.7		

10:34:51 -- BEGIN RECAL NCO-2  
 10:52:00 -- END RECAL NCO-2 GRD  
 10:53:46 -- BEGIN CAL. NCO-3

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1791 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	54.9	23	39.7	66	55.2	43	54.1	24	46.8
Cat2	86	56.3	85	45.9	146	56.4	78	55.9	49	48.8
Cat3	15	56.8	20	49.7	29	56.4	8	51.5	5	48.2
Cat4	8	62.2	20	52.4	8	55.5	1	51.7	3	51.8
Cat5	4	65.1	13	53.8	3	55.2	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	64.5	71	57.8	72	57.7	53	57.3	25	48.4
Cat2	212	65.4	145	58.2	110	59.0	95	58.8	33	46.5
Cat3	16	66.7	31	60.1	33	58.4	10	59.9	1	39.9
Cat4	12	65.8	18	60.0	15	60.2	1	62.0	0	.0
Cat5	3	66.2	3	62.5	2	60.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	470	26.2	57.4	1039	58.0	57.3	168	9.4	58.5	86	4.8	58.4	28	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.551+/-	3.001	37	N VA 102'	-.139+/-	1.743
12	N Dasidi CO	.716+/-	.363	38	S BOT PER	-6.253+/-	2.319
13	N TOP PAR	4.169+/-	2.493	39	N VA 74'	-.248+/-	1.736
14	N Dasidi O3	.020+/-	.002	40	S BOT PAR	5.885+/-	2.069
15	N TOP VER	.003+/-	1.855	41	N GND PER	-.583+/-	2.066
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.487+/-	1.016
17	N BOT PER	-2.300+/-	2.502	43	N GND PAR	2.933+/-	2.401
19	N BOT PAR	3.401+/-	2.400	45	N GND VER	.285+/-	1.152
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.007+/-	1.816	50	S TOP PER	-6.933+/-	2.217
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.539+/-	.371
23	N HA 102'	12.227+/-	2.406	52	S TOP PAR	5.970+/-	1.972
24	N THC/Byron	2.081+/-	.167	53	N Ecolyzer-3	1.026+/-	.380
25	N WV 102'	322.839+/-	11.937	54	S TOP VER	.159+/-	1.065
26	N NMHC/Byrn	1.510+/-	.107	55	N Ecolyzer-4	1.017+/-	.408
27	N Gnd Temp	42.384+/-	2.593	56	S GND PER	-4.357+/-	2.017
28	N CH4/Byron	1.386+/-	.068	57	N Ecolyzer-5	.859+/-	.696
29	N WV 74'	315.687+/-	16.362	58	S GND PAR	4.053+/-	1.600
30	N CO/Byron	.340+/-	.180	59	N Rel Hum	98.256+/-	.306
31	N 74' Temp	42.592+/-	2.829	60	S GND VER	.514+/-	.708
32	N CO2/Byron	393.828+/-	5.743	61	N Solar Rad	108.407+/-	23.380
35	N HA 74'	10.443+/-	2.982	64	S VA 55'	-.024+/-	1.489

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	7.52+/- 3.24	322.9+/- 18.8	5.3+/- 21.0
02	17 19 21	5.04+/- 2.59	296.8+/- 35.1	8.2+/- 29.0
03	38 40 42	8.89+/- 2.34	316.3+/- 13.2	2.6+/- 6.8
04	41 43 45	3.95+/- 2.14	280.0+/- 38.2	7.0+/- 23.5
05	50 52 54	9.38+/- 2.35	319.1+/- 11.1	1.4+/- 6.5
06	56 58 60	6.29+/- 1.82	316.1+/- 16.3	5.0+/- 9.9

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 1814 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	59.2	28	45.7	68	56.6	41	56.7	39	49.8
Cat2	111	60.2	53	48.7	165	58.0	88	57.9	62	49.9
Cat3	22	62.0	14	52.0	37	56.1	11	55.7	5	47.3
Cat4	8	63.9	16	56.0	21	57.6	6	53.9	0	.0
Cat5	7	63.6	5	60.5	7	61.0	2	69.2	1	47.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	64.1	79	57.8	49	58.7	51	56.2	23	44.7
Cat2	145	66.1	123	60.0	111	60.4	88	58.0	45	45.3
Cat3	14	65.6	38	60.9	24	60.9	15	59.7	1	42.7
Cat4	10	72.4	21	60.1	11	61.4	4	57.6	0	.0
Cat5	2	70.6	2	60.3	6	61.6	1	57.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	509	28.1	58.4	991	54.6	58.9	182	10.0	60.1	97	5.3	62.1	35	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.761+/-	2.807	37	N VA 102'	.148+/-	1.384
12	N Dasidi CO	.657+/-	.336	38	S BOT PER	-5.292+/-	1.992
13	N TOP PAR	3.116+/-	2.245	39	N VA 74'	.137+/-	1.466
14	N Dasidi O3	.021+/-	.001	40	S BOT PAR	5.326+/-	2.318
15	N TOP VER	.092+/-	1.774	41	N GND PER	-.706+/-	1.852
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.709+/-	1.191
17	N BOT PER	-1.850+/-	2.583	43	N GND PAR	2.094+/-	2.408
19	N BOT PAR	2.428+/-	1.972	45	N GND VER	.139+/-	1.086
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	-.015+/-	1.860	50	S TOP PER	-6.402+/-	2.183
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.536+/-	.076
23	N HA 102'	11.377+/-	3.118	52	S TOP PAR	5.001+/-	2.709
24	N THC/Byron	2.032+/-	.262	53	N Ecolyzer-3	.932+/-	.302
25	N WV 102'	324.504+/-	12.351	54	S TOP VER	.568+/-	1.102
26	N NMHC/Byrn	1.588+/-	.181	55	N Ecolyzer-4	.801+/-	.317
27	N Gnd Temp	43.609+/-	3.932	56	S GND PER	-3.475+/-	2.019
28	N CH4/Byron	1.389+/-	.116	57	N Ecolyzer-5	.709+/-	.739
29	N WV 74'	318.226+/-	18.462	58	S GND PAR	3.744+/-	1.883
30	N CO/Byron	.430+/-	.223	59	N Rel Hum	97.802+/-	.337
31	N 74' Temp	42.827+/-	2.619	60	S GND VER	.428+/-	.715
32	N CO2/Byron	391.223+/-	6.459	61	N Solar Rad	155.005+/-	31.457
35	N HA 74'	9.263+/-	3.453	64	S VA 55'	.427+/-	1.540

UVW	Channels			UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
				Vector Sum (mph)			
01	11	13	15	6.32+/-	2.94	326.8+/-	19.4
02	17	19	21	3.94+/-	2.64	293.2+/-	36.4
03	38	40	42	7.85+/-	2.44	315.6+/-	14.0
04	41	43	45	3.40+/-	1.94	293.4+/-	45.7
05	50	52	54	8.39+/-	3.03	323.9+/-	11.6
06	56	58	60	5.39+/-	2.29	312.6+/-	18.2

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 1862 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	58.2	25	43.0	77	56.8	69	55.7	20	48.4
Cat2	134	59.3	73	47.6	147	57.7	103	56.3	62	49.4
Cat3	27	61.3	27	52.8	37	56.3	9	58.0	3	49.8
Cat4	8	61.3	14	54.6	17	59.1	7	56.5	3	47.6
Cat5	5	65.4	9	55.6	4	58.3	1	52.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	65.5	69	58.3	61	58.8	48	57.3	30	46.5
Cat2	163	67.2	118	60.3	105	61.3	94	60.3	31	48.2
Cat3	20	67.7	23	61.1	32	60.6	12	61.0	3	41.9
Cat4	10	68.6	22	61.9	10	63.1	3	55.6	0	.0
Cat5	3	68.1	4	63.6	6	63.3	0	.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
56.7	513	27.6	58.7	1030	55.3	59.0	193	10.4	60.1	94	5.0	61.0	32	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.136+/-	3.870	37	N VA 102'	-.010+/-	1.582
12	N Dasibi CO	.472+/-	.179	38	S BOT PER	-6.317+/-	2.507
13	N TOP PAR	4.048+/-	2.358	39	N VA 74'	.159+/-	1.898
14	N Dasibi D3	.024+/-	.001	40	S BOT PAR	5.363+/-	2.755
15	N TOP VER	.142+/-	1.819	41	N GND PER	-.710+/-	2.376
16	N ND/TECD	*****	*****	42	S BOT VER	.762+/-	1.294
17	N BOT PER	-2.902+/-	3.139	43	N GND PAR	1.903+/-	2.103
18	N BOT PAR	3.312+/-	2.367	45	N GND VER	.244+/-	1.341
20	N ND2/TECD	*****	*****	48	N Ecolyzer-1	*****	*****
21	N BOT VER	-.042+/-	1.826	50	S TOP PER	-7.183+/-	3.016
22	N ND/TECD	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	11.985+/-	3.818	52	S TOP PAR	5.064+/-	2.323
24	N THC/Byron	1.845+/-	.077	53	N Ecolyzer-3	.804+/-	.225
25	N WV 102'	327.170+/-	14.306	54	S TOP VER	.587+/-	1.280
26	N NMHC/Byro	1.858+/-	.119	55	N Ecolyzer-4	.886+/-	.227
27	N Gnd Temp	46.344+/-	3.373	56	S GND PER	-3.884+/-	2.211
28	N CH4/Byron	1.407+/-	.108	57	N Ecolyzer-5	.602+/-	.809
29	N WV 74'	317.123+/-	17.465	58	S GND PAR	3.972+/-	2.267
30	N CO/Byron	.161+/-	.064	59	N Rel Hum	96.759+/-	4.485
31	N 74' Temp	43.426+/-	2.845	60	S GND VER	.497+/-	.879
32	N CO2/Byron	394.073+/-	4.466	61	N Solar Rad	218.451+/-	18.647
35	N HA 74'	10.348+/-	4.250	64	S VA 55'	.627+/-	1.612

UVW	Channels			UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
				Vector Sum (mph)			
01	11	13	15	7.93+/-	3.83	322.5+/-	20.7
02	17	19	21	5.35+/-	3.00	302.3+/-	33.3
03	38	40	42	8.89+/-	2.81	320.0+/-	18.7
04	41	43	45	3.62+/-	1.80	291.3+/-	48.1
05	50	52	54	9.25+/-	2.81	323.8+/-	15.5
06	56	58	60	6.05+/-	2.22	314.1+/-	22.3

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 1713 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	59.6	37	44.5	69	56.9	51	55.8	36	50.2
Cat2	102	60.9	53	47.2	141	58.5	81	57.9	45	50.9
Cat3	20	60.8	19	53.3	31	56.9	13	56.2	4	47.6
Cat4	15	64.8	16	54.5	18	57.9	8	54.5	0	.0
Cat5	1	66.5	6	59.2	3	54.1	3	48.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	65.5	57	58.8	65	58.0	50	57.6	28	45.7
Cat2	154	66.9	128	59.8	110	60.8	95	59.7	38	46.5
Cat3	12	68.7	29	61.6	20	59.2	9	64.4	1	44.4
Cat4	11	67.5	14	60.7	8	62.5	3	65.7	0	.0
Cat5	4	67.4	7	62.9	2	60.9	0	.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
56.5	490	28.6	59.2	948	55.3	58.7	158	9.2	60.3	51	5.3	60.0	26	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.285+/-	3.115	37	N VA 102'	.333+/-	1.729
12	N Dasibi CO	.424+/-	.098	38	S BOT PER	-8.871+/-	2.595
13	N TOP PAR	3.848+/-	2.960	39	N VA 74'	.281+/-	2.043
14	N Dasibi D3	.023+/-	.001	40	S BOT PAR	6.608+/-	2.910
15	N TOP VER	.447+/-	1.955	41	N GND PER	-.800+/-	2.001
16	N ND/TECD	*****	*****	42	S BOT VER	.796+/-	1.575
17	N BOT PER	-2.759+/-	2.958	43	N GND PAR	2.495+/-	3.069
19	N BOT PAR	3.253+/-	2.642	45	N GND VER	.251+/-	1.205
20	N ND2/TECD	*****	*****	48	N Ecolyzer-1	*****	*****
21	N BOT VER	.247+/-	1.893	50	S TOP PER	-7.661+/-	2.443
22	N ND/TECD	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	11.608+/-	2.912	52	S TOP PAR	6.129+/-	3.112
24	N THC/Byron	1.878+/-	.072	53	N Ecolyzer-3	*****	*****
25	N WV 102'	323.467+/-	15.117	54	S TOP VER	.434+/-	1.254
26	N NMHC/Byro	1.255+/-	.502	55	N Ecolyzer-4	.628+/-	.210
27	N Gnd Temp	45.250+/-	2.825	56	S GND PER	-4.577+/-	2.222

28	N CH4/Byron	1.322+/-	.095	ppm	57	N Ecolyzer-5	.385+/-	.652	ppm
29	N WV 74'	317.071+/-	21.528	DEGR AZ	58	S GND PAR	4.766+/-	1.961	mph
30	N CO/Byron	.188+/-	.069	ppm	59	N Rel Hum	95.896+/-	.331	%
31	N 74' Temp	43.009+/-	3.739	DEGR F	60	S GND VER	.527+/-	.844	mph
32	N CO2/Byron	393.910+/-	4.950	ppm	61	N Solar Rad	163.316+/-	19.333	W/m**2
35	N HA 74'	9.735+/-	2.911	mph	64	S VA 55'	.248+/-	1.932	mph

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	7.47+/-	3.15	323.3+/-	25.8	9.3+/-	21.7
02	17 19 21	5.41+/-	2.67	307.0+/-	36.0	10.7+/-	29.6
03	38 40 42	10.02+/-	2.93	316.5+/-	14.9	5.2+/-	10.9
04	41 43 45	4.01+/-	2.50	291.2+/-	46.7	8.3+/-	25.3
05	50 52 54	10.21+/-	3.01	322.2+/-	15.2	2.5+/-	7.7
06	56 58 60	6.90+/-	2.37	313.1+/-	16.2	4.4+/-	7.4

Average for hourly period ending at 11:00:00  
Traffic Data  
 Total Traffic = 7180 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	200	58.3	113	43.5	280	56.4	204	55.6	119	49.1
Cat2	433	59.3	264	47.2	599	57.6	350	57.0	218	49.7
Cat3	84	60.6	80	52.0	134	56.4	41	55.6	17	48.1
Cat4	39	63.4	66	54.3	64	57.8	22	54.9	6	49.7
Cat5	17	64.7	33	56.3	17	58.2	6	55.8	1	47.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	231	64.9	276	58.1	247	58.3	212	57.1	100	45.9
Cat2	674	66.3	515	59.5	436	60.4	372	59.2	147	46.5
Cat3	62	67.4	121	60.9	109	59.8	47	59.8	6	42.1
Cat4	43	68.4	75	60.7	42	61.5	11	59.7	0	.0
Cat5	12	67.8	16	62.7	18	62.0	1	57.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	1982	27.6	58.4	4008	55.8	58.5	701	9.8	59.8	368	5.1	60.5	121	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.434+/-	3.248	37	N VA 102'	.083+/-	1.822
12	N Desibi CD	.567+/-	.294	38	S BOT PER	-6.183+/-	2.422
13	N TOP PAR	3.795+/-	2.551	39	N VA 74'	.082+/-	1.756
14	N Desibi 03	.022+/-	.002	40	S BOT PAR	5.795+/-	2.577
15	N TOP VER	.171+/-	1.856	41	N GND PER	.700+/-	2.075
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.688+/-	1.288
17	N BOT PER	-2.453+/-	2.747	43	N GND PAR	2.356+/-	2.541
19	N BOT PAR	3.095+/-	2.380	45	N GND VER	.230+/-	1.199
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.050+/-	1.801	50	S TOP PER	-7.045+/-	2.518
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	11.799+/-	3.109	52	S TOP PAR	5.541+/-	2.605
24	N THC/Byron	1.959+/-	.189	53	N Ecolyzer-3	.896+/-	.313
25	N WV 102'	324.441+/-	13.570	54	S TOP VER	.432+/-	1.183
26	N NMHC/Byro	1.503+/-	.312	55	N Ecolyzer-4	.808+/-	.340
27	N Gnd Temp	44.397+/-	3.492	56	S GND PER	-4.068+/-	2.154
28	N CH4/Byron	1.371+/-	.101	57	N Ecolyzer-5	.639+/-	.746
29	N WV 74'	317.022+/-	18.548	58	S GND PAR	4.134+/-	1.972
30	N CO/Byron	.279+/-	.185	59	N Rel Hum	97.179+/-	.997
31	N 74' Temp	42.964+/-	2.976	60	S GND VER	.491+/-	.789
32	N CO2/Byron	393.258+/-	5.449	61	N Solar Rad	161.545+/-	45.407
35	N HA 74'	9.947+/-	3.460	64	S VA 55'	.319+/-	1.666

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	7.31+/-	3.35	323.9+/-	21.3	6.8+/-	20.9
02	17 19 21	4.94+/-	2.78	299.9+/-	35.8	7.8+/-	30.1
03	38 40 42	8.91+/-	2.64	317.1+/-	15.4	5.4+/-	9.5
04	41 43 45	3.74+/-	2.12	288.4+/-	45.0	6.7+/-	25.1
05	50 52 54	9.31+/-	2.88	322.2+/-	13.6	3.7+/-	8.2
06	56 58 60	6.16+/-	2.24	314.0+/-	18.4	5.5+/-	9.0

11:05:19 -- END RECAL NCD-3  
 11:05:36 -- BEGIN CAL. NCD-4 GRD  
 11:20:07 -- THE SPAN DRIFT FOR NCD-4 IS PROBABLY WRONG DUE TO LEAK IN SAMPLE BAG WILL NOW RE-  
 11:20:28 -- SPAN NCD-4 GRD  
 11:29:29 -- END CAL. NCD-4  
 11:29:39 -- BEGIN CAL. NCD-5  
 11:48:06 -- END CALIBRATION OF NCD-5  
 11:53:31 -- ABOVE CH. 53 WAS INADVERTENTLY TURNED TO REC. TYPE 2 TO READ SPAN DRIFT  
 11:55:09 -- DISREGARD ALL DATA FOR SPAN DRIFT FOR CH 53 THAT IS NOT CONFIRMED BY A COMMENT  
 11:56:23 -- EARLIER WHEN SPAN DRIFT FOR CH 55 WAS READ THE BAG LEAKED AND THE DRIFT IS NOT  
 11:56:28 -- ACCURATE  
 11:59:10 -- WILL TURN UP RADAR #3  
 11:59:54 -- SPAN GAS CONC--ECOLYZER 10.4 PPM; DASIBI CO--6.5 PPM; BYRDN THC--135 PPM, NM

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1778 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	59.0	28	46.0	72	58.1	56	56.6	48	49.2
Cat2	101	60.9	49	47.8	154	59.0	97	57.2	55	50.9
Cat3	13	63.6	22	53.6	28	57.8	9	60.4	6	50.8
Cat4	9	65.0	6	56.4	12	59.8	3	58.4	1	41.5
Cat5	5	74.6	2	64.1	3	62.5	1	64.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	65.3	64	57.6	62	57.3	58	57.6	28	45.1
Cat2	162	66.2	126	59.5	115	60.2	64	58.7	40	47.4
Cat3	22	66.7	29	59.9	23	60.9	12	56.2	1	48.2
Cat4	7	69.2	17	62.4	15	59.1	2	52.0	0	.0
Cat5	2	68.7	6	63.2	7	58.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	532	29.9	58.9	983	55.3	59.6	165	9.3	61.0	72	4.0	64.6	26	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.213+/-	3.276	37	N VA 102'	.415+/-	1.563
12	N Dasibi CO	.502+/-	.164	38	S BOT PER	-5.676+/-	2.049
13	N TOP PAR	3.184+/-	2.600	39	N VA 74'	.231+/-	1.594
14	N Dasibi D3	.024+/-	.001	40	S BOT PAR	6.389+/-	2.505
15	N TOP VER	.440+/-	1.529	41	N GND PER	-.297+/-	1.974
16	N ND/TECD	*****+/-*****		42	S BOT VER	.547+/-	1.293
17	N BOT PER	-2.079+/-	2.591	43	N GND PAR	2.823+/-	2.054
19	N BOT PAR	2.416+/-	2.393	45	N GND VER	.327+/-	.999
20	N ND2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.383+/-	1.541	50	S TOP PER	-5.428+/-	2.197
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.358+/-	.267
23	N HA 102'	11.193+/-	3.188	52	S TOP PAR	5.552+/-	2.527
24	N THC/Byron	2.035+/-	.107	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	323.205+/-	15.737	54	S TOP VER	.383+/-	1.065
26	N NMHC/Byro	1.820+/-	.114	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	45.042+/-	1.423	56	S GND PER	-3.741+/-	1.719
28	N CH4/Byron	1.407+/-	.092	57	N Ecolyzer-5	.414+/-	.687
29	N WV 74'	311.535+/-	22.766	58	S GND PAR	4.576+/-	1.419
30	N CO/Byron	.205+/-	.064	59	N Rel Hum	95.375+/-	.293
31	N 74' Temp	43.947+/-	4.202	60	S GND VER	.449+/-	.637
32	N CO2/Byron	392.526+/-	3.292	61	N Solar Rad	156.322+/-	19.606
35	N HA 74'	8.500+/-	3.247	64	S VA 55'	.347+/-	1.543

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.91+/- 3.49	320.0+/- 29.0	9.9+/- 22.7
02	17 19 21	4.10+/- 2.81	303.0+/- 40.1	13.0+/- 31.4
03	38 40 42	8.91+/- 2.39	312.1+/- 14.2	4.9+/- 8.1
04	41 43 45	3.73+/- 1.80	282.6+/- 39.8	6.2+/- 17.6
05	50 52 54	8.81+/- 2.82	319.8+/- 13.7	3.9+/- 7.2
06	56 58 60	6.18+/- 1.84	308.0+/- 15.2	5.2+/- 7.2

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 1812 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	58.4	32	45.5	85	57.4	59	56.4	28	48.5
Cat2	110	60.6	48	47.6	144	57.3	106	56.1	59	48.0
Cat3	16	61.3	15	54.8	34	58.6	9	56.5	4	52.2
Cat4	14	61.6	18	54.4	14	58.3	6	55.3	6	50.6
Cat5	5	60.8	7	57.5	5	54.9	0	.0	1	45.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	65.5	79	57.4	68	58.7	61	57.7	38	46.5
Cat2	187	67.7	115	60.1	115	61.0	81	60.1	46	48.3
Cat3	10	68.0	25	59.1	21	60.1	4	60.5	2	47.4
Cat4	8	67.0	8	61.6	6	62.6	5	59.6	0	.0
Cat5	1	63.4	1	64.4	3	57.9	1	62.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	573	31.6	58.8	992	54.7	59.1	140	7.7	58.9	83	4.6	57.9	24	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.473+/-	3.656	37	N VA 102'	-.009+/-	1.590
12	N Dasibi CO	.438+/-	.127	38	S BOT PER	-5.896+/-	2.192
13	N TOP PAR	3.794+/-	2.939	39	N VA 74'	.149+/-	2.052
14	N Dasibi O3	.025+/-	.002	40	S BOT PAR	6.038+/-	2.789
15	N TOP VER	.356+/-	2.173	41	N GND PER	-.667+/-	2.400
16	N ND/TECD	*****+/-*****		42	S BOT VER	.742+/-	1.306
17	N BOT PER	-2.990+/-	3.052	43	N GND PAR	3.159+/-	2.570
19	N BOT PAR	3.274+/-	2.947	45	N GND VER	.215+/-	1.564
20	N ND2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.298+/-	2.324	50	S TOP PER	-7.282+/-	2.536
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.290+/-	.075
23	N HA 102'	13.290+/-	3.321	52	S TOP PAR	5.583+/-	2.594
24	N THC/Byron	1.904+/-	.040	53	N Ecolyzer-3	.937+/-	.266
25	N WV 102'	324.118+/-	16.921	54	S TOP VER	.575+/-	1.256

26	N NMHC/Byro	1.846+/-	.173	ppm	55	N Ecolyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	47.855+/-	3.0A2	DEGR F	56	S GND PER	-3.696+/-	1.863	mph
28	N CH4/Byron	1.319+/-	.078	ppm	57	N Ecolyzer-5	.458+/-	.668	ppm
29	N WV 74'	318.888+/-	23.969	DEGR AZ	58	S GND PAR	4.338+/-	2.010	mph
30	N CD/Byron	.192+/-	.064	ppm	59	N Rel Hum	94.854+/-	.177	%
31	N 74' Temp	44.051+/-	3.043	DEGR F	60	S GND VER	.483+/-	.764	mph
32	N CO2/Byron	391.386+/-	3.298	ppm	61	N Solar Rad	196.742+/-	22.481	W/m**2
35	N HA 74'	11.888+/-	3.700	mph	64	S VA 55'	.670+/-	1.909	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.41+/-	3.43	328.6+/-	27.5	7.7+/- 22.5
02	17 19 21	5.92+/-	2.70	307.8+/-	37.4	8.5+/- 29.8
03	38 40 42	8.96+/-	2.34	315.3+/-	16.8	6.0+/- 8.8
04	41 43 45	4.82+/-	1.97	284.3+/-	41.8	5.5+/- 23.9
05	50 52 54	9.58+/-	2.72	323.0+/-	13.7	5.4+/- 8.9
06	56 58 60	6.11+/-	1.83	310.8+/-	20.3	5.3+/- 7.6

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 1814 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	51	60.1	20	45.0	79	58.1	59	55.8	34	49.4
Cat 2	95	61.2	40	49.2	157	59.1	96	57.2	58	50.5
Cat 3	15	63.3	23	57.3	30	58.4	6	58.0	3	47.8
Cat 4	8	64.6	6	57.2	9	58.7	7	57.9	1	44.2
Cat 5	2	71.0	4	57.8	2	64.2	1	62.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	71	65.9	74	58.2	69	59.8	54	58.3	28	45.8
Cat 2	181	67.5	150	60.2	115	60.6	83	58.0	55	47.3
Cat 3	15	66.8	26	60.5	23	59.1	11	58.5	1	47.8
Cat 4	7	65.6	21	61.4	12	62.6	2	62.4	0	0
Cat 5	1	76.2	2	64.3	5	62.7	1	59.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	539	29.7	59.3	1031	56.8	59.7	153	8.4	61.1	73	4.0	63.4	18	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-5.918+/-	3.482	37	N VA 102'	-.080+/-	1.541	mph
12	N Dasibi CD	.516+/-	.188	38	S BOT PER	-6.598+/-	2.623	mph
13	N TOP PAR	3.519+/-	2.854	39	N VA 74'	-.273+/-	1.985	mph
14	N Dasibi O3	.025+/-	.002	40	S BOT PAR	5.584+/-	3.188	mph
15	N TOP VER	.120+/-	1.890	41	N GND PER	-.702+/-	2.446	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.726+/-	1.331	mph
17	N BOT PER	-2.573+/-	2.567	43	N GND PAR	2.806+/-	2.667	mph
19	N BOT PAR	2.751+/-	2.081	45	N GND VER	-.014+/-	1.438	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm	
21	N BOT VER	.159+/-	1.839	50	S TOP PER	-7.802+/-	2.775	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.263+/-	.069	ppm
23	N HA 102'	13.575+/-	3.598	52	S TOP PAR	5.346+/-	2.961	mph
24	N THC/Byron	1.908+/-	.087	53	N Ecolyzer-3	.936+/-	.282	ppm
25	N WV 102'	329.079+/-	13.104	54	S TOP VER	.458+/-	1.126	mph
26	N NMHC/Byro	1.505+/-	.252	55	N Ecolyzer-4	.680+/-	.283	ppm
27	N Gnd Temp	46.813+/-	3.645	56	S GND PER	-4.326+/-	2.474	mph
28	N CH4/Byron	1.286+/-	.091	57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	322.457+/-	19.611	58	S GND PAR	3.755+/-	1.895	mph
30	N CD/Byron	.179+/-	.071	59	N Rel Hum	94.545+/-	.420	%
31	N 74' Temp	43.192+/-	3.780	60	S GND VER	.456+/-	.853	mph
32	N CO2/Byron	390.979+/-	4.278	61	N Solar Rad	144.741+/-	28.944	W/m**2
35	N HA 74'	10.769+/-	3.996	64	S VA 55'	.272+/-	1.548	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.82+/-	3.63	328.7+/-	23.1	4.0+/- 15.6
02	17 19 21	4.80+/-	2.40	308.1+/-	37.3	11.1+/- 29.5
03	38 40 42	9.11+/-	3.29	320.9+/-	15.4	5.7+/- 9.4
04	41 43 45	3.94+/-	2.47	282.1+/-	46.4	3.1+/- 23.0
05	50 52 54	9.88+/-	3.10	325.7+/-	14.6	3.9+/- 8.2
06	56 58 60	6.10+/-	2.46	317.4+/-	19.2	5.2+/- 8.1

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 1866 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	58	60.0	21	48.4	72	57.9	61	56.0	31	50.5
Cat 2	113	61.3	18	50.3	186	59.9	96	58.5	48	49.7
Cat 3	19	62.2	12	55.6	31	58.1	9	57.0	10	51.4
Cat 4	9	67.1	6	55.5	10	58.1	3	55.3	4	53.0
Cat 5	2	84.3	2	59.7	0	0	1	53.1	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	71	65.6	68	57.6	81	59.1	60	56.8	23	47.1
Cat 2	164	67.9	154	59.6	108	60.6	125	58.2	27	48.0
Cat 3	13	67.6	25	60.1	28	59.8	14	63.0	2	43.6
Cat 4	17	69.6	24	60.7	24	60.1	4	58.8	0	0
Cat 5	4	89.3	3	59.8	5	70.0	2	77.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	546	29.3	60.1	1037	55.6	59.5	163	8.7	61.5	101	5.4	66.4	19	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-6.286+/-	3.370	37	N VA 102'	-.283+/-	1.670	mph
12	N Dasibi CD	.392+/-	.071	38	S BOT PER	-6.470+/-	2.597	mph
13	N TOP PAR	3.067+/-	2.422	39	N VA 74'	-.115+/-	1.856	mph
14	N Dasibi O3	.026+/-	.001	40	S BOT PAR	3.944+/-	2.402	mph
15	N TOP VER	.317+/-	1.972	41	N GND PER	-.422+/-	1.783	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.587+/-	1.278	mph

17	N BDT PER	-3.045+/-	2.915	mph	43	N GND PAR	1.589+/-	2.239	mph
18	N BDT PAR	2.404+/-	2.221	mph	45	N GND VER	.156+/-	1.226	mph
20	N ND2/TECD	*****+/-	*****	ppm	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BDT VER	.226+/-	1.790	mph	50	S TOP PER	-7.445+/-	2.797	ppm
22	N ND/TECD	*****+/-	*****	ppm	51	N Ecolyzer-2	1.242+/-	.068	ppm
23	N HA 102'	11.822+/-	3.330	mph	52	S TOP PAR	3.830+/-	2.042	ppm
24	N THC/Byron	1.884+/-	.072	ppm	53	N Ecolyzer-3	.857+/-	.280	ppm
25	N WV 102'	333.551+/-	13.124	DEGR AZ	54	S TOP VER	.334+/-	1.240	ppm
26	N NMHC/Byro	1.531+/-	.536	ppm	55	N Ecolyzer-4	.514+/-	.204	ppm
27	N Gnd Temp	46.398+/-	1.818	DEGR F	56	S GND PER	-4.142+/-	2.110	ppm
28	N CH4/Byron	1.397+/-	.095	ppm	57	N Ecolyzer-5	.580+/-	.539	ppm
29	N WV 74'	328.033+/-	21.364	DEGR AZ	58	S GND PAR	3.454+/-	2.017	ppm
30	N CD/Byron	.189+/-	.077	ppm	59	N Rel Hum	94.577+/-	.297	%
31	N 74' Temp	43.947+/-	4.655	DEGR F	60	S GND VER	.392+/-	.707	ppm
32	N CD2/Byron	390.409+/-	3.586	ppm	61	N Solar Rad	196.470+/-	43.656	W/m**2
35	N HA 74'	10.297+/-	3.686	mph	64	S VA 55'	.367+/-	1.671	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.66+/-	3.34	331.8+/-	23.0	9.1+/-	21.8
02	17	18	21	4.85+/-	2.76	314.7+/-	36.9	10.8+/-	27.3
03	38	40	42	8.09+/-	2.62	329.0+/-	17.1	6.0+/-	12.4
04	41	43	45	2.99+/-	1.83	290.1+/-	50.7	8.0+/-	27.9
05	50	52	54	8.68+/-	2.88	332.3+/-	12.7	3.6+/-	9.9
06	56	58	60	5.77+/-	2.23	320.1+/-	19.3	5.0+/-	8.8

Average for hourly period ending at 12:00:00  
Traffic Data  
 Total Traffic = 7270 vehicles averaging 58.8 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	218	59.3	101	48.2	308	57.9	235	56.2	141	49.4
Cat2	419	61.0	154	48.4	641	58.9	395	57.2	220	48.8
Cat3	83	62.5	72	55.3	123	58.2	33	58.0	23	50.9
Cat4	40	64.2	34	55.5	45	58.7	19	56.7	12	50.1
Cat5	14	67.7	15	58.8	10	59.1	3	60.0	1	45.2

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	272	65.6	285	57.7	280	58.8	233	57.6	117	46.1
Cat2	674	67.3	545	59.9	453	60.6	373	58.7	169	47.7
Cat3	60	67.1	105	59.9	95	60.0	41	60.1	6	46.3
Cat4	39	68.3	70	61.4	57	60.6	13	58.6	0	.0
Cat5	8	69.3	12	62.6	20	62.3	4	69.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	2190	30.1	59.3	4043	55.6	58.5	621	8.5	60.7	329	4.5	62.9	87	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	-5.722+/-	3.544	37	N VA 102'	.015+/-	1.608	mph
12	N Dasibi CD	.482+/-	.153	38	S BOT PER	-6.160+/-	2.400	mph
13	N TOP PAR	3.381+/-	2.716	39	N VA 74'	.192+/-	1.873	mph
14	N Dasibi Q3	.026+/-	.002	40	S BOT PAR	5.488+/-	2.878	mph
15	N TOP VER	.308+/-	1.905	41	N GND PER	-.522+/-	2.167	mph
16	N ND/TECD	*****+/-	*****	42	S BOT VER	.650+/-	1.302	mph
17	N BDT PER	-2.872+/-	2.804	43	N GND PAR	2.544+/-	2.456	mph
19	N BDT PAR	2.711+/-	2.450	45	N GND VER	.171+/-	1.327	mph
20	N ND2/TECD	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BDT VER	.267+/-	1.892	50	S TOP PER	-7.239+/-	2.626	ppm
22	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	1.287+/-	.153	ppm
23	N HA 102'	12.470+/-	3.503	52	S TOP PAR	5.078+/-	2.643	ppm
24	N THC/Byron	1.933+/-	.099	53	N Ecolyzer-3	.867+/-	.309	ppm
25	N WV 102'	327.516+/-	15.323	54	S TOP VER	.437+/-	1.180	ppm
26	N NMHC/Byro	1.850+/-	.348	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	46.527+/-	2.785	56	S GND PER	-3.976+/-	2.070	ppm
28	N CH4/Byron	1.352+/-	.100	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	319.774+/-	22.670	58	S GND PAR	4.031+/-	1.898	ppm
30	N CD/Byron	.181+/-	.088	59	N Rel Hum	94.838+/-	.445	%
31	N 74' Temp	43.784+/-	3.874	60	S GND VER	.445+/-	.744	ppm
32	N CD2/Byron	391.325+/-	3.634	61	N Solar Rad	173.569+/-	37.569	W/m**2
35	N HA 74'	10.264+/-	3.815	64	S VA 55'	.414+/-	1.678	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.40+/-	3.58	327.4+/-	26.0	7.7+/-	20.9
02	17	19	21	4.92+/-	2.74	308.5+/-	37.9	10.9+/-	29.5
03	38	40	42	8.77+/-	2.70	319.3+/-	17.0	5.6+/-	9.8
04	41	43	45	3.82+/-	2.11	284.4+/-	45.1	6.0+/-	23.4
05	50	52	54	9.24+/-	2.87	325.2+/-	14.4	4.2+/-	8.6
06	56	58	60	6.03+/-	2.06	314.1+/-	19.1	5.2+/-	7.9

12:00:21 -- MC--75PPC , CD--76 PPM, CQ2--80 PPM, CH4 75 PPM  
 12:09:25 -- TURNED UP RANGE ON RADAR#3  
 12:09:31 -- GOING TO LUNCH  
 12:58:54 -- RETURNED FROM LUNCH GRD

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 1930 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	57.1	65	49.8	78	58.2	59	56.7	36	50.1
Cat2	104	59.0	60	50.7	164	58.6	82	57.2	55	51.1
Cat3	15	61.7	26	55.2	23	58.1	16	55.2	0	0
Cat4	9	60.2	10	55.9	10	57.8	8	58.0	1	54.4
Cat5	3	65.4	4	56.7	3	53.5	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	55.1	83	58.3	62	58.5	79	57.1	32	46.7
Cat2	138	58.2	153	59.7	114	59.5	123	59.0	22	47.0
Cat3	17	58.4	31	60.7	28	60.1	10	58.7	2	53.4
Cat4	21	69.6	16	61.5	20	60.6	7	56.2	1	37.3
Cat5	3	72.6	7	64.0	5	62.2	1	63.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	618	32.0	59.0	1015	52.6	59.5	168	8.7	61.0	103	5.3	62.5	26	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.778+/-	2.993 mph	37	N VA 102'	.197+/-	1.812 mph
12	N Dasibi CD	.444+/-	.188 ppm	38	S BOT PER	-6.571+/-	2.684 mph
13	N TOP PAR	4.015+/-	2.862 mph	39	N VA 74'	.318+/-	1.808 mph
14	N Dasibi D3	.026+/-	.002 ppm	40	S BOT PAR	6.218+/-	3.125 mph
15	N TOP VER	.156+/-	2.055 mph	41	N GND PER	-.736+/-	1.947 mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.820+/-	1.386 mph
17	N BOT PER	-2.507+/-	2.470 mph	43	N GND PAR	2.769+/-	2.732 mph
19	N BOT PAR	3.617+/-	2.646 mph	45	N GND VER	.137+/-	1.399 mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.028+/-	1.992 mph	50	S TOP PER	-8.035+/-	2.524 mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.151+/-	.074 ppm
23	N HA 102'	13.263+/-	2.879 mph	52	S TOP PAR	6.047+/-	2.760 mph
24	N THC/Byron	1.897+/-	.068 ppm	53	N Ecolyzer-3	.722+/-	.337 ppm
25	N WV 102'	322.982+/-	13.674 DEGR A2	54	S TOP VER	.448+/-	1.129 mph
26	N NMHC/Byro	1.614+/-	.336 ppm	55	N Ecolyzer-4	.530+/-	.295 ppm
27	N Gnd Temp	46.591+/-	2.682 DEGR F	56	S GND PER	-4.217+/-	2.057 mph
28	N CH4/Byron	1.374+/-	.086 ppm	57	N Ecolyzer-5	.780+/-	.782 ppm
29	N WV 74'	316.040+/-	21.605 DEGR A2	58	S GND PAR	4.857+/-	2.249 mph
30	N CO/Byron	.151+/-	.087 ppm	59	N Rel Hum	93.991+/-	.198 %
31	N 74' Temp	43.035+/-	3.348 DEGR F	60	S GND VER	.403+/-	.746 mph
32	N CO2/Byron	388.129+/-	5.385 ppm	61	N Solar Rad	170.401+/-	30.091 W/m**2
35	N HA 74'	10.783+/-	2.985 mph	64	S VA 55'	.504+/-	1.712 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.77+/- 3.26	326.4+/- 21.0	4.8+/- 19.1
02	17 19 21	5.43+/- 2.65	299.9+/- 36.1	4.4+/- 28.2
03	38 40 42	9.65+/- 2.83	317.2+/- 17.3	5.9+/- 10.9
04	41 43 45	4.10+/- 2.20	289.7+/- 42.1	.1+/- 21.7
05	50 52 54	10.44+/- 2.69	323.3+/- 14.3	2.7+/- 6.5
06	56 58 60	6.89+/- 1.95	312.3+/- 21.0	2.9+/- 8.5

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1955 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	58.0	79	49.7	76	58.2	53	56.8	44	50.1
Cat2	106	59.2	60	52.5	143	58.6	106	58.4	57	50.6
Cat3	15	59.8	35	58.1	26	57.4	7	58.3	4	55.1
Cat4	5	61.7	7	58.2	15	55.7	7	58.9	2	44.0
Cat5	4	64.5	7	80.6	4	48.5	1	61.3	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	65.6	68	57.6	79	58.5	69	57.2	31	46.9
Cat2	180	57.3	144	60.0	115	61.1	108	58.6	40	47.0
Cat3	15	66.6	31	60.1	14	58.8	18	59.9	1	43.9
Cat4	16	66.4	17	60.7	19	61.3	9	58.7	0	0
Cat5	3	68.5	4	64.4	2	68.4	1	68.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	607	31.0	59.2	1059	54.2	59.4	166	8.5	60.2	97	5.0	61.9	26	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.880+/-	3.602 mph	37	N VA 102'	-.220+/-	1.722 mph
12	N Dasibi CD	.400+/-	.082 ppm	38	S BOT PER	-6.303+/-	2.488 mph
13	N TOP PAR	3.617+/-	3.264 mph	39	N VA 74'	.102+/-	1.880 mph
14	N Dasibi D3	.026+/-	.001 ppm	40	S BOT PAR	5.696+/-	2.526 mph
15	N TOP VER	.190+/-	2.238 mph	41	N GND PER	-.309+/-	2.531 mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.637+/-	1.377 mph
17	N BOT PER	-3.052+/-	2.871 mph	43	N GND PAR	2.592+/-	2.290 mph
19	N BOT PAR	3.252+/-	2.679 mph	45	N GND VER	-.244+/-	1.329 mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.141+/-	2.104 mph	50	S TOP PER	-7.133+/-	2.602 mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.102+/-	.069 ppm
23	N HA 102'	13.318+/-	3.405 mph	52	S TOP PAR	5.208+/-	2.461 mph
24	N THC/Byron	1.949+/-	.080 ppm	53	N Ecolyzer-3	.576+/-	.285 ppm
25	N WV 102'	328.055+/-	12.021 DEGR A2	54	S TOP VER	.464+/-	1.302 mph
26	N NMHC/Byro	1.423+/-	.075 ppm	55	N Ecolyzer-4	.371+/-	.199 ppm
27	N Gnd Temp	46.265+/-	3.139 DEGR F	56	S GND PER	-4.278+/-	2.272 mph
28	N CH4/Byron	1.330+/-	.076 ppm	57	N Ecolyzer-5	.447+/-	.621 ppm
29	N WV 74'	320.506+/-	20.477 DEGR A2	58	S GND PAR	4.677+/-	2.065 mph
30	N CO/Byron	.169+/-	.092 ppm	59	N Rel Hum	93.242+/-	.503 %
31	N 74' Temp	45.302+/-	2.452 DEGR F	60	S GND VER	.446+/-	.811 mph
32	N CO2/Byron	385.908+/-	4.185 ppm	61	N Solar Rad	215.454+/-	34.646 W/m**2
35	N HA 74'	11.138+/-	3.709 mph	64	S VA 55'	.353+/-	1.923 mph



UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.82+/- 3.88	328.9+/- 24.7	6.9+/- 22.5
02	17	19	21	5.72+/- 2.72	310.2+/- 38.4	7.2+/- 28.2
03	38	40	42	8.95+/- 2.60	317.7+/- 15.4	5.7+/- 9.7
04	41	43	45	3.93+/- 2.16	280.6+/- 41.8	7.4+/- 25.9
05	50	52	54	9.20+/- 2.84	324.0+/- 13.4	4.9+/- 10.5
06	56	58	60	6.73+/- 2.29	312.5+/- 18.8	5.3+/- 9.3

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 1892 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	57.3	59	47.7	76	57.5	46	55.3	28	51.0
Cat2	101	60.3	117	49.6	157	58.6	89	57.0	53	50.6
Cat3	14	63.1	36	56.7	25	57.8	14	58.0	4	47.0
Cat4	9	63.4	20	58.1	15	57.9	6	61.5	0	.0
Cat5	3	67.2	6	58.8	1	61.4	2	54.3	1	36.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	65.3	57	58.6	68	58.7	56	57.2	24	44.9
Cat2	180	67.3	147	58.9	122	60.7	89	60.4	35	46.4
Cat3	18	69.1	34	61.2	19	60.7	9	61.0	1	43.0
Cat4	7	69.5	10	60.1	15	61.6	4	63.2	0	.0
Cat5	2	70.3	1	58.2	4	64.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	522	27.6	58.8	1090	57.6	60.0	174	9.2	60.9	86	4.5	60.9	20	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.350+/- 3.015	mph	37	N VA 102'	.490+/- 1.710	mph
12	N Dasibi CD	.437+/- .143	ppm	38	S BDT PER	-6.208+/- 2.078	mph
13	N TOP PAR	3.058+/- 2.884	mph	39	N VA 74'	.488+/- 1.704	mph
14	N Dasibi D3	.025+/- .001	ppm	40	S BDT PAR	6.389+/- 3.059	mph
15	N TOP VER	.322+/- 2.139	mph	41	N GND PER	-1.153+/- 1.845	mph
16	N NOX/TECO	*****	ppm	42	S BDT VER	.796+/- 1.254	mph
17	N BDT PER	-2.174+/- 2.538	mph	43	N GND PAR	3.718+/- 2.655	mph
18	N BDT PAR	2.410+/- 2.404	mph	44	N GND VER	.218+/- 1.202	mph
19	N ND2/TECO	*****	ppm	45	N Ecolyzer-1	*****	ppm
20	N BDT VER	.333+/- 1.924	mph	46	S TOP PER	-7.020+/- 2.109	mph
21	N ND/TECO	*****	ppm	47	N Ecolyzer-2	1.073+/- .067	ppm
22	N HA 102'	10.908+/- 3.060	mph	48	S TOP PAR	6.217+/- 3.068	mph
23	N THC/Byron	1.930+/- .108	ppm	49	N Ecolyzer-3	.618+/- .294	ppm
24	N WV 102'	325.812+/- 19.918	DEGR AZ	50	S TOP VER	.535+/- 1.169	ppm
25	N NMHC/Byro	1.868+/- .305	ppm	51	N Ecolyzer-4	.385+/- .219	ppm
26	N Gnd Temp	47.725+/- 3.554	DEGR F	52	S GND PER	-4.071+/- 1.984	ppm
27	N CH4/Byron	1.485+/- .072	ppm	53	N Ecolyzer-5	.376+/- .625	ppm
28	N WV 74'	314.224+/- 27.762	DEGR AZ	54	N GND PAR	4.502+/- 2.107	mph
29	N CD/Byron	.174+/- .071	ppm	55	N Rel Hum	92.395+/- .301	%
30	N 74' Temp	46.032+/- 4.170	DEGR F	56	S GND VER	.525+/- .803	mph
31	N CO2/Byron	393.014+/- 5.290	ppm	57	N Solar Rad	162.862+/- 17.361	W/m <sup>2</sup>
32	N HA 74'	8.717+/- 3.201	mph	58	S VA 55'	.608+/- 1.843	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	6.30+/- 3.31	326.7+/- 31.9	11.5+/- 28.7
02	17	19	21	4.58+/- 2.41	308.5+/- 39.6	9.8+/- 30.8
03	38	40	42	9.39+/- 2.58	316.3+/- 16.5	5.8+/- 10.5
04	41	43	45	4.53+/- 2.39	273.3+/- 36.6	2.6+/- 18.3
05	50	52	54	9.81+/- 2.68	320.2+/- 15.5	3.8+/- 9.4
06	56	58	60	6.47+/- 2.24	311.8+/- 17.7	6.0+/- 7.7

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 1845 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	59.1	86	49.2	77	57.3	61	56.3	31	50.4
Cat2	98	61.1	60	52.1	160	58.9	88	57.0	44	49.2
Cat3	18	61.9	26	58.0	25	58.0	5	55.7	6	48.6
Cat4	13	63.0	11	59.3	12	58.5	6	51.8	0	.0
Cat5	0	.0	4	58.8	1	57.8	1	51.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	64.6	71	57.7	71	58.4	59	57.2	29	45.8
Cat2	162	66.7	165	60.0	128	59.8	94	58.5	28	45.2
Cat3	11	68.5	26	61.3	18	60.4	5	59.9	2	46.1
Cat4	14	67.6	8	58.4	5	62.4	6	62.5	0	.0
Cat5	0	.0	3	62.8	6	64.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	588	31.9	59.2	1025	55.6	59.6	142	7.7	61.1	75	4.1	61.1	15	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.256+/- 3.230	mph	37	N VA 102'	.494+/- 1.868	mph
12	N Dasibi CD	.422+/- .071	ppm	38	S BDT PER	-5.364+/- 2.124	mph
13	N TOP PAR	3.180+/- 2.428	mph	39	N VA 74'	.447+/- 1.719	mph
14	N Dasibi D3	.024+/- .002	ppm	40	S BDT PAR	5.967+/- 2.625	mph
15	N TOP VER	.444+/- 1.934	mph	41	N GND PER	-1.367+/- 1.972	mph
16	N NOX/TECO	*****	ppm	42	S BDT VER	.639+/- 1.334	mph
17	N BDT PER	-2.269+/- 2.475	mph	43	N GND PAR	2.836+/- 2.198	mph
18	N BDT PAR	2.624+/- 2.024	mph	44	N GND VER	.213+/- 1.117	mph
19	N ND2/TECO	*****	ppm	45	N Ecolyzer-1	*****	ppm
20	N BDT VER	.356+/- 1.977	mph	46	S TOP PER	-6.357+/- 2.402	mph
21	N ND/TECO	*****	ppm	47	N Ecolyzer-2	1.056+/- .069	ppm
22	N HA 102'	11.157+/- 3.286	mph	48	S TOP PAR	5.229+/- 2.312	mph
23	N THC/Byron	1.908+/- .084	ppm	49	N Ecolyzer-3	.616+/- .256	ppm
24	N WV 102'	323.528+/- 18.204	DEGR AZ	50	S TOP VER	.527+/- 1.138	ppm
25	N NMHC/Byro	1.791+/- .312	ppm	51	N Ecolyzer-4	.385+/- .186	ppm

27	N Gnd Temp	46.370+/-	2.260	DEGR F	56	S GND PER	-3.507+/-	1.810	mph
28	N CH4/Byron	1.355+/-	.081	ppm	57	N Ecolyzer-5	.334+/-	.574	ppm
29	N WV 74'	317.518+/-	23.101	DEGR AZ	58	S GND PAR	4.234+/-	1.973	mph
30	N CO/Byron	.189+/-	.083	ppm	59	N Rel Hum	92.770+/-	.324	%
31	N 74' Temp	46.266+/-	4.308	DEGR F	60	S GND VER	.546+/-	.697	mph
32	N CO2/Byron	384.872+/-	3.966	ppm	61	N Solar Rad	129.708+/-	38.162	W/m <sup>2</sup>
35	N HA 74'	8.677+/-	3.491	mph	64	S VA 55'	.552+/-	1.622	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	6.18+/-	3.15	320.3+/-	28.7	14.0+/-	26.0
02	17	19	21	4.57+/-	2.24	304.9+/-	37.0	13.9+/-	32.1
03	38	40	42	6.50+/-	2.44	312.9+/-	16.5	4.8+/-	10.1
04	41	43	45	3.78+/-	1.58	281.9+/-	39.6	3.8+/-	19.0
05	50	52	54	8.65+/-	2.40	320.6+/-	15.4	4.8+/-	8.8
06	56	58	60	5.66+/-	1.98	309.6+/-	19.9	7.5+/-	10.6

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 7622 Vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	177	58.0	289	49.1	307	57.3	219	56.3	139	50.4
Cat 2	409	59.9	297	50.9	624	58.7	365	56.9	209	50.5
Cat 3	62	61.6	123	57.1	99	57.8	42	56.7	14	50.0
Cat 4	36	62.2	48	57.9	52	57.4	27	57.6	3	47.5
Cat 5	10	65.6	21	59.0	9	53.1	4	55.3	1	36.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	256	65.2	289	58.0	280	58.5	263	57.2	116	46.2
Cat 2	660	67.3	809	59.8	477	60.3	414	59.1	125	46.4
Cat 3	61	68.2	122	60.8	79	60.1	42	59.8	6	47.7
Cat 4	58	68.2	51	60.8	59	61.2	26	59.6	1	37.3
Cat 5	8	70.5	15	63.5	17	64.2	2	65.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	
56.4	2335	30.6	59.0	4189	55.0	59.6	650	8.5	60.6	361	4.7	61.7	87	1.1	

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.066+/-	3.296	37	N VA 102'	.240+/-	1.799
12	N Dasibi CD	426+/-	.131	38	S BOT PER	-6.111+/-	2.391
13	N TOP PAR	3.463+/-	2.888	39	N VA 74'	.333+/-	1.777
14	N Dasibi 03	.025+/-	.002	40	S BOT PAR	6.062+/-	2.846
15	N TOP VER	.278+/-	2.093	41	N GND PER	-.394+/-	2.093
16	N ND/TECO	*****+/-*****		42	S BOT VER	.723+/-	1.339
17	N BOT PER	-2.501+/-	2.605	43	N GND PAR	2.929+/-	2.522
19	N BOT PAR	2.876+/-	2.488	45	N GND VER	.203+/-	1.265
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.200+/-	2.002	50	S TOP PER	-7.138+/-	2.480
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.095+/-	.079
23	N HA 102'	12.161+/-	3.349	52	S TOP PAR	5.676+/-	2.695
24	N THC/Byron	1.921+/-	.086	53	N Ecolyzer-3	.632+/-	.299
25	N WV 102'	325.102+/-	16.383	54	S TOP VER	.493+/-	1.185
26	N NMHC/Byro	1.674+/-	.321	55	N Ecolyzer-4	.416+/-	.238
27	N Gnd Temp	46.716+/-	2.933	56	S GND PER	-4.018+/-	2.052
28	N CH4/Byron	1.389+/-	.100	57	N Ecolyzer-5	.485+/-	.672
29	N WV 74'	317.118+/-	23.482	58	S GND PAR	4.593+/-	2.104
30	N CO/Byron	.171+/-	.085	59	N Rel Hum	93.100+/-	.686
31	N 74' Temp	45.159+/-	3.778	60	S GND VER	.480+/-	.766
32	N CO2/Byron	388.231+/-	5.530	61	N Solar Rad	189.606+/-	43.216
35	N HA 74'	9.829+/-	3.533	64	S VA 55'	.504+/-	1.778

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.02+/-	3.48	325.6+/-	27.0	9.3+/-	24.0
02	17	19	21	5.08+/-	2.55	305.8+/-	37.3	8.8+/-	30.0
03	38	40	42	9.12+/-	2.64	316.0+/-	16.5	5.5+/-	10.3
04	41	43	45	4.08+/-	2.11	281.2+/-	40.2	3.5+/-	21.5
05	50	52	54	9.52+/-	2.73	322.1+/-	14.7	4.0+/-	8.9
06	56	58	60	6.48+/-	2.15	311.5+/-	19.4	5.4+/-	9.2

13:05:41 -- CH 3 RADAR LOOKS SUSPECT WILL INCREASE RANGE  
 13:14:07 -- ADJUSTMENT OF CH 3 RADAR APPEARS TO HAVE CORRECTED THE PROBLEM  
 13:20:06 -- BEGIN RECAL. NCO-2  
 13:33:36 -- END CALIB. NCO-2  
 13:33:52 -- BEGIN CAL. NCO-3 GRD  
 13:46:32 -- END CAL. NCO-3  
 13:46:46 -- BEGIN CAL. NCO-4

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1990 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	58.8	48	49.0	82	58.0	64	57.1	47	50.8
Cat2	94	60.6	134	51.0	166	59.1	90	57.2	52	49.4
Cat3	10	61.7	25	57.0	21	58.7	16	56.1	8	48.9
Cat4	12	63.8	13	58.5	10	60.7	5	59.7	4	43.9
Cat5	4	63.5	3	58.1	3	57.1	2	52.8	1	34.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	63.8	58	57.2	80	58.4	59	56.1	35	45.5
Cat2	183	65.3	147	59.3	116	59.7	93	58.2	36	45.0
Cat3	18	67.1	28	59.1	29	59.9	11	57.1	2	45.0
Cat4	13	69.5	16	61.1	11	59.6	1	62.7	0	.0
Cat5	4	67.7	7	58.2	6	62.7	2	58.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	594	29.8	58.2	1111	55.8	58.8	168	8.4	61.3	85	4.3	60.4	32	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.972+/-	3.606	37	N VA 102'	.145+/-	1.794
12	N Dasibi CO	.443+/-	.126	38	S BOT PER	-6.632+/-	2.336
13	N TOP PAR	3.686+/-	3.121	39	N VA 74'	.227+/-	1.976
14	N Dasibi O3	.023+/-	.001	40	S BOT PAR	5.199+/-	2.961
15	N TOP VER	.330+/-	1.859	41	N GND PER	-.283+/-	1.869
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.558+/-	1.358
17	N BOT PER	-2.835+/-	2.793	43	N GND PAR	2.537+/-	2.513
19	N BOT PAR	3.005+/-	2.602	45	N GND VER	.198+/-	1.229
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.241+/-	2.000	50	S TOP PER	-7.733+/-	2.328
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	1.002+/-	.298
23	N HA 102'	13.510+/-	4.156	52	S TOP PAR	5.119+/-	2.624
24	N THC/Byron	1.982+/-	.064	53	N Ecolyzer-3	.524+/-	.282
25	N WV 102'	326.386+/-	14.302	54	S TOP VER	.423+/-	1.249
26	N NMHC/Byro	1.567+/-	.154	55	N Ecolyzer-4	.405+/-	.233
27	N Gnd Temp	45.719+/-	2.934	56	S GND PER	-4.471+/-	1.891
28	N CH4/Byron	1.275+/-	.078	57	N Ecolyzer-5	.337+/-	.572
29	N WV 74'	318.761+/-	19.709	58	S GND PAR	3.909+/-	1.956
30	N CO/Byron	.189+/-	.087	59	N Rel Hum	92.985+/-	.432
31	N 74' Temp	46.214+/-	3.286	60	S GND VER	.529+/-	.737
32	N CO2/Byron	392.037+/-	5.384	61	N Solar Rad	124.485+/-	20.680
35	N HA 74'	11.060+/-	3.569	64	S VA 55'	.358+/-	1.884

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.75+/- 3.88	328.9+/- 25.0	7.3+/- 20.0
02	17 19 21	5.36+/- 2.67	310.6+/- 34.0	9.5+/- 29.7
03	38 40 42	8.97+/- 2.60	323.1+/- 18.3	5.5+/- 10.8
04	41 43 45	3.76+/- 1.93	280.8+/- 45.1	3.6+/- 20.2
05	50 52 54	9.69+/- 2.42	326.8+/- 14.8	3.2+/- 8.3
06	56 58 60	6.31+/- 1.92	319.6+/- 18.0	5.6+/- 8.0

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 1794 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	18	49.7	82	57.9	66	56.0	38	50.1
Cat2	****	****	169	52.0	137	55.6	104	57.2	58	50.7
Cat3	****	****	36	54.8	27	59.1	12	57.0	4	51.0
Cat4	****	****	20	58.3	16	56.7	10	59.6	1	46.4
Cat5	****	****	18	59.4	3	60.5	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	64.8	71	57.7	64	58.6	48	56.2	26	46.6
Cat2	179	67.2	137	59.2	116	59.3	100	57.6	30	46.5
Cat3	18	70.0	29	59.3	17	59.5	4	60.0	1	51.0
Cat4	5	67.8	15	62.1	16	61.2	5	55.0	0	.0
Cat5	2	65.7	4	64.1	3	63.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	487	27.1	58.1	1040	58.0	59.1	149	8.3	59.9	88	4.9	61.0	30	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.521+/-	3.555	37	N VA 102'	.121+/-	1.967
12	N Dasibi CO	.459+/-	.107	38	S BOT PER	-5.912+/-	2.788
13	N TOP PAR	4.660+/-	2.897	39	N VA 74'	-.219+/-	1.735
14	N Dasibi O3	.021+/-	.002	40	S BOT PAR	6.815+/-	2.788
15	N TOP VER	.126+/-	1.970	41	N GND PER	-.122+/-	2.308
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.914+/-	1.192
17	N BOT PER	-2.347+/-	3.030	43	N GND PAR	3.796+/-	2.572
19	N BOT PAR	4.154+/-	2.561	45	N GND VER	.255+/-	1.219
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.152+/-	2.094	50	S TOP PER	-6.869+/-	2.628
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	13.119+/-	4.318	52	S TOP PAR	6.611+/-	2.459
24	N THC/Byron	1.925+/-	.082	53	N Ecolyzer-3	.684+/-	.276
25	N WV 102'	316.504+/-	14.919	54	S TOP VER	.655+/-	1.058
26	N NMHC/Byro	1.762+/-	.266	55	N Ecolyzer-4	.378+/-	.190
27	N Gnd Temp	45.927+/-	3.591	56	S GND PER	-4.131+/-	2.022
28	N CH4/Byron	1.321+/-	.112	57	N Ecolyzer-5	.472+/-	.638
29	N WV 74'	308.873+/-	19.567	58	S GND PAR	5.114+/-	1.975
30	N CO/Byron	.145+/-	.070	59	N Rel Hum	92.916+/-	.260
31	N 74' Temp	43.713+/-	4.008	60	S GND VER	.523+/-	.770

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.91+/- 3.82	319.6+/- 21.7	6.6+/- 21.2
02	17 19 21	5.78+/- 3.03	291.8+/- 29.6	7.2+/- 26.4
03	38 40 42	9.49+/- 3.03	310.8+/- 15.7	5.7+/- 8.6
04	41 43 45	4.77+/- 2.35	274.6+/- 36.5	6.5+/- 20.0
05	50 52 54	9.84+/- 2.91	315.9+/- 12.2	4.5+/- 7.0
06	56 58 60	6.89+/- 2.14	308.6+/- 15.5	5.8+/- 8.0

Average for 15 minute period ending at 13:45:00  
Traffic Data  
 Total Traffic = 1805 vehicles averaging 58.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	11	49.9	80	57.3	57	56.3	29	50.1
Cat2	****	****	178	51.9	182	58.8	87	57.6	58	50.7
Cat3	****	****	33	53.4	17	57.7	9	58.1	1	50.9
Cat4	****	****	28	57.3	15	58.7	5	61.1	2	48.2
Cat5	****	****	18	58.5	2	57.4	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	65.8	75	57.8	71	59.3	54	57.4	31	46.1
Cat2	197	66.9	146	60.4	104	60.9	87	59.7	27	48.0
Cat3	16	66.3	25	60.8	25	60.8	6	61.7	2	45.5
Cat4	10	68.0	15	61.9	19	64.0	3	59.2	0	0
Cat5	4	69.3	6	61.4	0	0	1	57.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	477	26.4	58.8	1066	59.1	58.8	134	7.4	60.7	97	5.4	60.3	31	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-6.248+/- 3.563	mph	37	N VA 102'	.042+/- 1.942	mph
12	N Dasibi CO	.433+/- .105	ppm	38	S BOT PAR	-7.426+/- 3.090	mph
13	N TDP PAR	5.420+/- 3.027	mph	39	N VA 74'	-.022+/- 1.854	mph
14	N Dasibi O3	.023+/- .001	ppm	40	S BOT PAR	9.403+/- 2.676	mph
15	N TDP VER	.108+/- 2.133	mph	41	N GND PER	-.065+/- 2.373	mph
16	N NDK/TECO	*****	ppm	42	S BOT VER	.717+/- 1.315	mph
17	N BDT PER	-2.382+/- 2.890	mph	43	N GND PAR	4.167+/- 3.091	mph
19	N BOT PAR	3.980+/- 2.588	mph	45	N GND VER	-1.224+/- 1.463	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.090+/- 2.125	mph	50	S TOP PER	-8.393+/- 3.283	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	.976+/- .070	ppm
23	N HA 102'	16.175+/- 3.394	mph	52	S TOP PAR	8.584+/- 3.141	mph
24	N THC/Byron	1.881+/- .070	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	317.759+/- 11.307	DEGR AZ	54	S TOP VER	.448+/- 1.222	mph
26	N NMHC/Byro	1.472+/- .269	ppm	55	N Ecolyzer-4	.308+/- .195	ppm
27	N Gnd Temp	46.891+/- 2.694	DEGR F	56	S GND PER	-5.439+/- 2.830	mph
28	N CH4/Byron	1.379+/- .079	ppm	57	N Ecolyzer-5	.384+/- .694	ppm
29	N WV 74'	307.832+/- 19.692	DEGR AZ	58	S GND PAR	6.517+/- 2.233	mph
30	N CO/Byron	.155+/- .083	ppm	59	N Rel Hum	94.040+/- 6.495	%
31	N 74' Temp	43.999+/- 2.828	DEGR F	60	S GND VER	.688+/- .869	mph
32	N CO2/Byron	395.884+/- 5.945	ppm	61	N Solar Rad	145.013+/- 4.747	W/m**2
35	N HA 74'	12.446+/- 3.708	mph	64	S VA 55'	.246+/- 1.863	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.93+/- 3.83	317.8+/- 17.6	6.7+/- 18.5
02	17 19 21	5.65+/- 3.05	293.8+/- 31.4	8.7+/- 25.7
03	38 40 42	12.42+/- 2.32	307.7+/- 13.2	4.1+/- 7.0
04	41 43 45	5.32+/- 2.80	289.9+/- 37.2	3.2+/- 17.5
05	50 52 54	12.33+/- 3.80	314.3+/- 12.0	3.5+/- 6.5
06	56 58 60	8.97+/- 2.52	308.4+/- 17.8	5.0+/- 6.3

Average for 15 minute period ending at 14:00:00  
Traffic Data  
 Total Traffic = 1907 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	44	50.5	79	57.0	68	55.3	35	47.9
Cat2	****	****	178	52.0	171	58.1	85	56.4	64	50.3
Cat3	****	****	28	55.4	31	59.1	10	57.5	5	49.7
Cat4	****	****	20	57.5	11	56.2	6	60.4	2	48.3
Cat5	****	****	11	63.5	2	61.6	0	0	1	53.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	65.5	73	57.6	71	58.7	58	57.3	25	46.3
Cat2	207	67.6	157	59.8	107	60.1	107	59.0	35	48.4
Cat3	20	66.8	39	59.8	23	59.2	8	58.1	1	35.8
Cat4	12	67.0	21	62.3	13	60.0	3	61.1	0	0
Cat5	3	70.2	2	62.2	6	59.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	517	27.1	58.5	1111	58.3	58.9	166	8.7	60.5	88	4.6	62.8	25	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.847+/- 3.788	mph	37	N VA 102'	-.059+/- 2.078	mph
12	N Dasibi CO	.424+/- .079	ppm	38	S BOT PAR	-8.200+/- 3.350	mph
13	N TOP PAR	5.367+/- 3.183	mph	39	N VA 74'	-.053+/- 2.073	mph
14	N Dasibi O3	.024+/- .001	ppm	40	S BOT PAR	8.674+/- 3.426	mph
15	N TDP VER	-.029+/- 2.094	mph	41	N GND PER	-.343+/- 2.832	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	-.691+/- 1.445	mph
17	N BOT PER	-3.736+/- 3.231	mph	43	N GND PAR	3.711+/- 2.816	mph
19	N BOT PAR	4.484+/- 3.024	mph	45	N GND VER	-.278+/- 1.588	mph
20	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	-.290+/- 2.296	mph	50	S TOP PER	-8.803+/- 2.699	mph
22	N NO/TECO	*****	ppm	51	N Ecolyzer-2	.958+/- .061	ppm
23	N HA 102'	16.629+/- 3.539	mph	52	S TOP PAR	8.426+/- 3.055	mph

24	N THC/Byron	1.878+/-	.078	ppm	53	N Ecolyzer-3	.873+/-	.286	ppm
25	N WV 102'	319.257+/-	12.639	DEGR AZ	54	S TOP VER	.374+/-	1.346	ppm
26	N NMHC/Byro	1.936+/-	.240	ppm	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	45.511+/-	3.640	DEGR F	56	S GND PER	-5.701+/-	2.718	ppm
28	N CH4/Byron	1.301+/-	.063	ppm	57	N Ecolyzer-5	.324+/-	.588	ppm
29	N WV 74'	310.861+/-	20.337	DEGR AZ	58	S GND PAR	6.284+/-	2.211	ppm
30	N CO/Byron	.192+/-	.089	ppm	59	N Rel Hum	92.558+/-	.350	%
31	N 74' Temp	44.494+/-	2.776	DEGR F	60	S GND VER	.531+/-	.841	ppm
32	N CO2/Byron	388.780+/-	4.472	ppm	61	N Solar Rad	111.587+/-	10.523	W/m**2
35	N HA 74'	13.381+/-	4.024	mph	64	S VA 55'	.122+/-	2.157	ppm

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11 13 15	9.40+/-	4.11	321.8+/-	18.4	2.7+/-	17.7
02	17 19 21	5.84+/-	3.47	305.6+/-	27.8	2.2+/-	23.1
03	38 40 42	12.46+/-	3.54	313.6+/-	14.8	4.1+/-	7.1
04	41 43 45	5.16+/-	2.55	279.0+/-	40.9	8.2+/-	24.0
05	50 52 54	12.60+/-	3.12	316.8+/-	12.0	2.7+/-	6.4
06	56 58 60	8.84+/-	2.72	311.4+/-	14.8	5.0+/-	7.9

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 7317 Vehicles averaging 58.1 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	Spd	No.	Spd	No.	Spd	No.	Spd	No.	Spd	
Cat1	****	****	121	43.7	323	57.6	255	56.2	150	49.8
Cat2	****	****	659	51.8	656	58.7	386	57.1	242	50.3
Cat3	****	****	122	55.0	96	58.8	47	57.0	18	49.7
Cat4	****	****	81	57.8	52	59.0	26	60.1	9	46.1
Cat5	****	****	50	58.9	10	58.1	2	52.8	2	43.9

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	Spd	No.	Spd	No.	Spd	No.	Spd	No.	Spd	
Cat1	268	65.0	277	57.6	286	58.8	219	56.8	117	46.1
Cat2	766	66.8	587	59.7	443	60.0	387	58.6	128	46.3
Cat3	73	67.5	121	59.7	94	59.9	29	58.8	6	44.6
Cat4	40	68.2	67	61.9	59	61.5	12	58.2	0	.0
Cat5	13	68.4	19	60.9	15	61.7	3	65.2	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
55.7	2016	27.6	58.3	4234	57.9	58.9	607	8.3	60.5	346	4.7	60.9	114	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.147+/-	3.645	37	N VA 102'	.092+/-	1.944
12	N Dasibi CO	.440+/-	.108	38	S BOT PER	-7.042+/-	3.028
13	N TOP PAR	4.781+/-	3.126	39	N VA 74'	.010+/-	1.917
14	N Dasibi O3	.023+/-	.002	40	S BOT PAR	7.523+/-	3.389
15	N TOP VER	.148+/-	2.016	41	N GND PER	-.203+/-	2.383
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.720+/-	1.334
17	N BOT PER	-2.825+/-	3.030	43	N GND PAR	3.553+/-	2.813
19	N BOT PAR	3.908+/-	2.770	45	N GND VER	.263+/-	1.382
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.048+/-	2.137	50	S TOP PER	-7.975+/-	2.849
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	.983+/-	.202
23	N HA 102'	14.858+/-	4.159	52	S TOP PAR	7.185+/-	3.162
24	N THC/Byron	1.916+/-	.083	53	N Ecolyzer-3	.650+/-	.282
25	N WV 102'	319.968+/-	13.848	54	S TOP VER	.475+/-	1.227
26	N NMHC/Byro	1.684+/-	.293	55	N Ecolyzer-4	.369+/-	.210
27	N Gnd Temp	46.012+/-	3.202	56	S GND PER	-4.936+/-	2.507
28	N CH4/Byron	1.318+/-	.091	57	N Ecolyzer-5	.379+/-	.627
29	N WV 74'	311.778+/-	20.187	58	S GND PAR	5.459+/-	2.335
30	N CO/Byron	.170+/-	.083	59	N Rel Hum	93.120+/-	3.226
31	N 74' Temp	44.605+/-	3.325	60	S GND VER	.588+/-	.808
32	N CO2/Byron	391.996+/-	5.391	61	N Solar Rad	123.645+/-	18.767
35	N HA 74'	11.889+/-	3.977	64	S VA 55'	.328+/-	1.943

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11 13 15	8.50+/-	3.96	321.9+/-	21.2	5.8+/-	19.4
02	17 19 21	5.91+/-	3.11	300.4+/-	31.4	6.9+/-	28.4
03	38 40 42	10.83+/-	3.43	313.7+/-	16.5	4.9+/-	8.5
04	41 43 45	4.75+/-	2.41	275.7+/-	40.2	6.4+/-	20.6
05	50 52 54	11.12+/-	3.37	318.5+/-	13.6	3.5+/-	7.1
06	56 58 60	7.75+/-	2.61	312.0+/-	17.1	5.3+/-	7.6

14:00:58 -- END CAL. NCD-4  
 14:14:03 -- END CAL. NCD-5  
 14:35:35 -- HAVE JUST RECALIBRATED PSYCHROMETER.

Average for 15 minute period ending at 14:15:00  
Traffic Data  
 Total Traffic = 1964 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	58.6	45	50.8	93	57.5	63	56.7	33	50.6
Cat2	94	60.6	165	51.5	150	59.1	85	58.3	45	49.1
Cat3	13	60.0	29	56.1	32	55.1	10	53.8	3	46.6
Cat4	11	62.5	19	59.6	13	61.2	1	54.6	0	.0
Cat5	5	66.6	3	60.2	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	66.0	89	58.1	83	58.8	59	57.9	28	46.7
Cat2	214	67.5	141	60.1	89	61.2	88	59.4	33	48.6
Cat3	8	69.7	25	59.7	20	58.8	9	57.9	1	47.5
Cat4	13	68.9	21	62.6	12	60.5	0	.0	0	.0
Cat5	1	65.4	3	61.4	1	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	607	30.9	59.3	1104	56.2	58.5	150	7.6	62.3	90	4.6	63.5	13	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.386+/-	3.692	37	N VA 102'	.109+/-	2.084
12	N Dasibi CD	.449+/-	.160	38	S BOT PER	-7.469+/-	3.033
13	N TOP PAR	4.710+/-	3.178	39	N VA 74'	.139+/-	2.152
14	N Dasibi D3	.026+/-	.002	40	S BOT PAR	6.659+/-	3.768
15	N TOP VER	.031+/-	2.419	41	N GND PER	-.049+/-	2.557
16	N ND/TECO	*****+/-*****		42	S BOT VER	1.453+/-	1.382
17	N BOT PER	-3.243+/-	2.985	43	N GND PAR	3.221+/-	2.568
18	N BOT PAR	3.642+/-	2.705	44	N GND VER	.379+/-	1.659
19	N ND2/TECO	*****+/-*****		45	N EcoLyzer-1	*****+/-*****	
20	N BOT VER	.139+/-	2.380	46	S TOP PER	-8.737+/-	3.388
21	N ND/TECO	*****+/-*****		47	N EcoLyzer-2	.964+/-	.056
22	N HA 102'	15.418+/-	3.683	48	S TOP PAR	6.983+/-	3.186
23	N THC/Byron	1.881+/-	.078	49	N EcoLyzer-3	.738+/-	.296
24	N WV 102'	324.128+/-	13.485	50	S TOP VER	.299+/-	1.288
25	N NMHC/Byro	2.047+/-	.258	51	N EcoLyzer-4	.542+/-	.191
26	N Gnd Temp	45.667+/-	2.854	52	S GND PER	-4.990+/-	2.842
27	N CH4/Byron	1.388+/-	.057	53	N EcoLyzer-5	*****+/-*****	
28	N WV 74'	316.257+/-	22.436	54	S GND PAR	5.161+/-	2.328
29	N CD/Byron	1.151+/-	.095	55	N Rel Hum	91.972+/-	.480
30	N 74' Temp	43.921+/-	2.531	56	S GND VER	.557+/-	.821
31	N CD2/Byron	392.688+/-	4.305	57	N Solar Rad	136.288+/-	11.735
32	N HA 74'	12.658+/-	3.948	58	S VA 55'	.206+/-	2.124
33				59			
34				60			
35				61			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.82+/- 3.85	322.1+/- 25.1	7.3+/- 21.9
02	17 19 21	6.06+/- 3.09	307.5+/- 33.8	8.7+/- 29.5
03	38 40 42	10.61+/- 3.62	319.5+/- 17.4	2.9+/- 9.4
04	41 43 45	4.77+/- 2.23	272.6+/- 40.0	5.1+/- 24.7
05	50 52 54	11.60+/- 3.75	321.6+/- 13.7	2.5+/- 7.3
06	56 58 60	7.63+/- 2.64	313.2+/- 18.9	5.1+/- 8.5

Average for 15 minute period ending at 14:30:00  
Traffic Data  
 Total Traffic = 2111 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	56.7	34	49.8	97	56.8	60	55.0	36	49.1
Cat2	127	58.8	183	50.8	167	58.4	85	57.1	58	49.3
Cat3	18	61.0	31	54.2	30	58.2	14	55.7	7	47.6
Cat4	9	62.4	23	57.8	10	58.2	3	56.5	3	46.2
Cat5	3	68.0	3	59.6	3	62.7	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	66.5	88	57.6	82	58.4	57	57.8	31	46.2
Cat2	190	67.2	139	59.3	108	60.7	88	58.0	41	47.4
Cat3	12	69.4	32	59.7	25	59.6	7	58.7	2	42.7
Cat4	13	69.4	15	63.6	16	61.1	4	52.2	0	.0
Cat5	2	69.7	6	63.0	6	64.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	628	29.7	58.1	1188	56.2	57.9	178	8.4	60.7	96	4.5	64.2	23	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.327+/-	4.018	37	N VA 102'	-.149+/-	2.125
12	N Dasibi CD	.407+/-	.089	38	S BOT PER	-7.478+/-	3.020
13	N TOP PAR	4.904+/-	3.085	39	N VA 74'	.049+/-	2.217
14	N Dasibi D3	.027+/-	.001	40	S BOT PAR	7.818+/-	3.771
15	N TOP VER	.162+/-	2.290	41	N GND PER	-.157+/-	2.727
16	N ND/TECO	*****+/-*****		42	S BOT VER	.790+/-	1.569
17	N BOT PER	-2.981+/-	2.977	43	N GND PAR	3.595+/-	2.997
18	N BOT PAR	4.214+/-	2.795	44	N GND VER	.414+/-	1.453
19	N ND2/TECO	*****+/-*****		45	N EcoLyzer-1	*****+/-*****	
20	N BOT VER	.047+/-	2.290	46	S TOP PER	-8.792+/-	2.957
21	N ND/TECO	*****+/-*****		47	N EcoLyzer-2	.901+/-	.078
22	N HA 102'	16.151+/-	4.346	48	S TOP PAR	7.322+/-	3.195
23	N THC/Byron	1.848+/-	.087	49	N EcoLyzer-3	.725+/-	.280
24	N WV 102'	321.467+/-	12.782	50	S TOP VER	.488+/-	1.294
25	N NMHC/Byro	1.677+/-	.244	51	N EcoLyzer-4	.417+/-	.193
26	N Gnd Temp	45.787+/-	4.007	52	S GND PER	-5.208+/-	2.321
27	N CH4/Byron	1.426+/-	.095	53	N EcoLyzer-5	.468+/-	.597
28	N WV 74'	311.634+/-	20.281	54	S GND PAR	5.929+/-	2.101
29	N CD/Byron	1.151+/-	.063	55	N Rel Hum	90.344+/-	2.960
30	N 74' Temp	44.182+/-	3.332	56	S GND VER	.540+/-	.957
31	N CD2/Byron	390.879+/-	4.047	57	N Solar Rad	177.986+/-	33.695
32	N HA 74'	12.848+/-	3.831	58	S VA 55'	.487+/-	2.049
33				59			
34				60			
35				61			

UVW Vector Calculations							
UVW	Channels		Vector Sum (mph)		Bearing Deg A2	Elevation Angle (Deg)	
01	11	13 15	8.84+/- 4.15		320.7+/- 19.9	7.0+/- 22.9	
02	17	19 21	6.27+/- 3.08		301.6+/- 29.8	8.9+/- 26.2	
03	38	40 42	11.46+/- 3.85		314.5+/- 16.5	4.5+/- 8.6	
04	41	43 45	5.04+/- 2.44		272.9+/- 43.2	5.4+/- 23.4	
05	50	52 54	11.81+/- 3.45		320.8+/- 12.9	3.0+/- 6.7	
06	56	58 60	8.16+/- 2.54		311.0+/- 12.7	5.0+/- 7.0	

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2050 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	57.8	99	51.6	85	57.6	52	56.9	34	50.6
Cat2	102	60.7	100	53.0	155	58.8	92	57.2	56	50.6
Cat3	25	63.1	31	55.9	38	58.0	8	59.3	4	53.1
Cat4	12	62.4	17	57.9	10	59.9	7	57.7	0	.0
Cat5	3	58.0	5	57.7	3	56.8	2	62.7	1	51.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	64.5	84	57.6	85	58.3	71	58.4	32	46.5
Cat2	206	66.7	136	58.6	131	59.5	85	59.1	32	46.5
Cat3	16	68.6	40	59.5	30	58.4	6	59.9	1	42.4
Cat4	8	67.6	16	59.8	13	60.1	4	60.0	0	.0
Cat5	5	67.3	7	59.8	2	59.1	2	70.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	639	31.2	58.2	1095	53.4	59.6	199	9.7	60.4	87	4.2	60.8	30	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.908+/- 4.137	mph	37	N VA 102'	-1.185+/- 1.768	mph
12	N Dasibi CD	.462+/- .083	ppm	38	S BDT PER	-7.536+/- 3.399	ppm
13	N TOP PAR	3.984+/- 3.394	mph	39	N VA 74'	-1.001+/- 1.932	mph
14	N Dasibi Q3	.028+/- .002	ppm	40	S BDT PAR	5.642+/- 3.659	ppm
15	N TOP VER	.074+/- 1.980	mph	41	N GND PER	-1.232+/- 2.447	ppm
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	.662+/- 1.378	mph
17	N BDT PER	-4.407+/- 3.404	mph	43	N GND PAR	2.104+/- 2.863	ppm
18	N BDT PAR	3.220+/- 2.804	ppm	45	N GND VER	1.111+/- 1.784	ppm
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	-.005+/- 1.979	ppm	50	S TOP PER	-8.930+/- 3.310	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.847+/- .074	ppm
23	N HA 102'	15.171+/- 3.404	mph	52	S TOP PAR	5.678+/- 3.304	ppm
24	N THC/Byron	1.881+/- .055	ppm	53	N Ecolyzer-3	.848+/- .261	ppm
25	N WV 102'	328.784+/- 16.079	DEGR AZ	54	S TOP VER	.590+/- 1.352	ppm
26	N NMHC/Byro	1.612+/- .385	ppm	55	N Ecolyzer-4	.408+/- .163	ppm
27	N Gnd Temp	44.703+/- 3.848	DEGR F	56	S GND PER	-4.704+/- 2.209	ppm
28	N CH4/Byron	1.339+/- .066	ppm	57	N Ecolyzer-5	.561+/- .599	ppm
29	N WV 74'	321.052+/- 21.275	DEGR AZ	58	S GND PAR	4.001+/- 2.519	ppm
30	N CD/Byron	.192+/- .092	ppm	59	N Rel Hum	79.938+/- .458	%
31	N 74' Temp	45.068+/- 3.450	DEGR F	60	S GND VER	.523+/- .857	ppm
32	N CO2/Byron	398.958+/- 5.515	ppm	61	N Solar Rad	128.800+/- 25.501	W/m=2
35	N HA 74'	12.612+/- 3.876	mph	64	S VA 55'	.841+/- 1.953	mph

UVW Vector Calculations							
UVW	Channels		Vector Sum (mph)		Bearing Deg A2	Elevation Angle (Deg)	
01	11	13 15	9.66+/- 4.13		332.5+/- 21.5	4.4+/- 15.5	
02	17	19 21	6.55+/- 3.19		319.6+/- 31.2	3.9+/- 19.1	
03	38	40 42	10.23+/- 3.31		322.7+/- 20.0	5.5+/- 8.5	
04	41	43 45	4.23+/- 2.24		308.4+/- 48.3	1.8+/- 26.9	
05	50	52 54	11.18+/- 3.43		327.7+/- 15.6	5.0+/- 8.3	
06	56	58 60	6.68+/- 2.37		318.8+/- 21.2	5.3+/- 8.2	

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2049 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	59.0	101	51.6	82	58.4	66	56.6	36	49.8
Cat2	121	60.1	92	53.6	184	58.9	87	57.0	56	50.8
Cat3	27	61.8	28	59.4	22	58.6	10	58.5	9	48.6
Cat4	5	66.9	6	60.0	8	60.1	3	58.9	4	51.0
Cat5	6	65.7	2	63.2	0	.0	0	.0	1	44.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	65.5	73	56.8	65	57.8	55	57.7	37	47.3
Cat2	195	67.2	161	59.3	134	59.0	86	58.6	42	48.0
Cat3	16	71.0	40	57.9	24	59.2	8	60.4	1	51.1
Cat4	11	69.2	7	60.9	9	61.0	4	60.1	0	.0
Cat5	1	68.5	9	62.2	3	58.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	627	30.6	59.2	1158	56.5	59.7	185	9.0	62.0	57	2.8	62.2	22	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.320+/- 3.244	mph	37	N VA 102'	.309+/- 1.714	mph
12	N Dasibi CD	.658+/- .462	ppm	38	S BDT PER	-5.782+/- 2.135	ppm
13	N TOP PAR	3.779+/- 2.821	mph	39	N VA 74'	.406+/- 1.814	mph
14	N Dasibi Q3	.021+/- .002	ppm	40	S BDT PAR	6.592+/- 2.974	ppm
15	N TOP VER	.150+/- 1.883	mph	41	N GND PER	.542+/- 2.259	ppm
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	.827+/- 1.170	ppm
17	N BDT PER	-2.430+/- 2.811	mph	43	N GND PAR	3.333+/- 2.313	ppm
19	N BDT PAR	2.939+/- 2.387	ppm	45	N GND VER	1.233+/- 1.357	ppm
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.102+/- 1.845	ppm	50	S TOP PER	-7.005+/- 2.302	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.942+/- .110	ppm
23	N HA 102'	11.472+/- 3.222	mph	52	S TOP PAR	6.145+/- 2.718	ppm
24	N THC/Byron	1.811+/- .058	ppm	53	N Ecolyzer-3	.846+/- .304	ppm
25	N WV 102'	322.343+/- 15.604	DEGR AZ	54	S TOP VER	.660+/- 1.161	ppm
26	N NMHC/Byro	2.040+/- .049	ppm	55	N Ecolyzer-4	.595+/- .290	ppm
27	N Gnd Temp	45.250+/- 3.098	DEGR F	56	S GND PER	-3.983+/- 2.217	ppm

28	N CH4/Byron	1.275+/-	.063	ppm	57	N Ecolyzer-5	.593+/-	.633	ppm
29	N WV 74'	317.351+/-	22.995	DEGR AZ	58	S GND PAR	4.671+/-	2.005	mph
30	N CO/Byron	.158+/-	.061	ppm	59	N Rel Hum	80.785+/-	.325	%
31	N 74' Temp	44.338+/-	4.284	DEGR F	60	S GND VER	.473+/-	.781	mph
32	N CO2/Byron	392.119+/-	4.827	ppm	61	N Solar Rad	97.781+/-	9.908	W/m**2
35	N HA 74'	9.863+/-	3.882	mph	64	S VA 55'	.553+/-	1.757	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.23+/- 3.42	322.9+/- 24.2	5.9+/- 18.7		
02	17 19 21	4.85+/- 2.77	300.3+/- 39.3	10.4+/- 31.6		
03	38 40 42	9.22+/- 2.69	312.9+/- 16.1	5.6+/- 9.5		
04	41 43 45	4.28+/- 2.25	282.8+/- 35.9	5.9+/- 20.2		
05	50 52 54	9.66+/- 2.82	319.9+/- 13.7	5.0+/- 8.1		
06	56 58 60	6.55+/- 2.10	309.1+/- 20.9	6.0+/- 10.7		

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8174 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	212	58.0	279	51.3	357	57.8	241	56.3	139	50.0
Cat2	444	60.0	540	51.8	656	58.8	349	57.4	215	50.0
Cat3	83	61.8	119	56.3	122	57.9	42	56.6	23	48.8
Cat4	37	63.0	65	58.5	41	59.9	14	57.5	7	48.9
Cat5	17	65.0	13	59.5	6	59.8	2	62.7	2	47.9

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	272	65.7	314	57.6	315	58.4	244	57.4	128	46.7
Cat2	805	67.2	577	59.3	462	60.0	347	59.0	148	48.1
Cat3	52	69.7	137	59.1	99	59.3	30	59.2	5	45.3
Cat4	45	68.9	59	61.9	50	60.7	12	57.4	0	.0
Cat5	9	67.8	25	61.6	12	62.1	2	70.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	2501	30.6	58.9	4543	55.6	59.0	712	8.7	61.3	330	4.0	82.4	88	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.485+/-	3.884	37	N VA 102'	.021+/-	1.934
12	N Dasibi CD	.494+/-	.270	38	S BDT PER	-7.067+/-	3.015
13	N TOP PAR	4.339+/-	3.145	39	N VA 74'	.142+/-	2.038
14	N Dasibi D3	.028+/-	.002	40	S BDT PAR	6.703+/-	3.635
15	N TOP VER	.107+/-	2.150	41	N GND PER	-2.224+/-	2.574
16	N NDX/TECO	*****+/-*****		42	S BDT VER	.683+/-	1.387
17	N BDT PER	-3.265+/-	3.124	43	N GND PAR	3.063+/-	2.747
19	N BDT PAR	3.504+/-	2.710	45	N GND VER	.284+/-	1.582
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.071+/-	2.131	50	S TOP PER	-8.366+/-	3.109
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.913+/-	.093
23	N HA 102'	14.553+/-	4.088	52	S TOP PAR	6.531+/-	3.164
24	N THC/Byron	1.855+/-	.075	53	N Ecolyzer-3	.789+/-	.291
25	N WV 102'	324.168+/-	14.781	54	S TOP VER	.512+/-	1.280
26	N NMHC/Byro	1.844+/-	.327	55	N Ecolyzer-4	.490+/-	.230
27	N Gnd Temp	45.354+/-	3.423	56	S GND PER	-4.722+/-	2.389
28	N CH4/Byron	1.356+/-	.090	57	N Ecolyzer-5	.541+/-	.598
29	N WV 74'	316.583+/-	21.952	58	S GND PAR	4.940+/-	2.346
30	N CO/Byron	.168+/-	.079	59	N Rel Hum	85.780+/-	5.683
31	N 74' Temp	44.377+/-	3.394	60	S GND VER	.523+/-	.880
32	N CO2/Byron	333.686+/-	5.559	61	N Solar Rad	135.204+/-	36.218
35	N HA 74'	11.995+/-	4.085	64	S VA 55'	.472+/-	1.978

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.64+/- 3.98	324.6+/- 23.1	6.2+/- 19.9		
02	17 19 21	5.93+/- 3.09	307.4+/- 34.2	8.0+/- 27.0		
03	38 40 42	10.38+/- 3.42	317.4+/- 17.9	4.6+/- 9.0		
04	41 43 45	4.58+/- 2.31	276.4+/- 43.5	4.5+/- 23.9		
05	50 52 54	11.05+/- 3.47	322.5+/- 14.3	3.9+/- 7.7		
06	56 58 60	7.26+/- 2.50	313.3+/- 19.1	5.5+/- 8.7		



Average for 15 minute period ending at 15:15:00  
Traffic Data  
 Total Traffic = 2003 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	55.1	97	52.9	82	57.7	71	55.9	43	50.7
Cat2	113	60.5	61	54.3	158	59.3	78	57.4	65	51.3
Cat3	21	60.3	23	58.1	23	56.4	8	60.3	4	50.8
Cat4	13	64.3	5	58.9	13	59.8	5	58.7	3	49.1
Cat5	5	64.7	0	.0	1	61.6	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	65.4	57	58.0	83	57.6	71	56.8	31	45.3
Cat2	204	67.3	163	59.3	136	59.8	72	57.1	51	46.4
Cat3	12	68.2	27	59.1	25	59.2	11	56.2	0	.0
Cat4	11	67.9	16	59.4	17	58.4	6	52.6	0	.0
Cat5	3	68.8	11	62.7	4	62.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	641	31.9	59.3	1101	54.8	59.1	154	7.7	60.4	89	4.4	63.8	24	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.302+/-	3.309	37	N VA 102'	-.022+/-	1.667
12	N Dasibi CO	.554+/-	.118	38	S BOT PER	-6.398+/-	2.463
13	N TOP PAR	3.248+/-	3.048	39	N VA 74'	-.082+/-	1.699
14	N Dasibi O3	-.029+/-	.002	40	S BOT PAR	5.747+/-	3.422
15	N TOP VER	.176+/-	2.003	41	N GND PER	-.210+/-	2.565
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.770+/-	1.283
17	N BOT PER	-2.750+/-	2.691	43	N GND PAR	2.284+/-	2.917
19	N BOT PAR	3.071+/-	2.975	45	N GND VER	-.057+/-	1.044
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.130+/-	1.951	50	S TOP PER	-7.864+/-	2.629
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.069+/-	.088
23	N HA 102'	13.581+/-	4.277	52	S TOP PAR	5.357+/-	2.870
24	N THC/Byron	1.869+/-	.057	53	N Ecolyzer-3	.667+/-	.317
25	N WV 102'	327.087+/-	14.653	54	S TOP VER	.563+/-	1.234
26	N NMHC/Byro	2.075+/-	.330	55	N Ecolyzer-4	.605+/-	.299
27	N Gnd Temp	45.354+/-	2.738	56	S GND PER	-3.988+/-	2.062
28	N CH4/Byron	1.259+/-	.056	57	N Ecolyzer-5	.703+/-	.643
29	N WV 74'	320.932+/-	20.765	58	S GND PAR	4.486+/-	2.568
30	N CO/Byron	.125+/-	.083	59	N Rel Hum	80.964+/-	.244
31	N 74' Temp	44.051+/-	2.291	60	S GND VER	.533+/-	.953
32	N CO2/Byron	393.340+/-	2.863	61	N Solar Rad	79.751+/-	7.349
35	N HA 74'	10.753+/-	3.720	64	S VA 55'	.406+/-	1.853

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.80+/- 3.64	332.3+/- 20.1	4.7+/- 20.4
02	17 19 21	5.33+/- 2.95	308.8+/- 36.2	8.9+/- 28.3
03	38 40 42	9.15+/- 3.18	319.8+/- 17.8	6.4+/- 8.5
04	41 43 45	3.88+/- 2.44	286.3+/- 50.3	2.0+/- 18.3
05	50 52 54	9.92+/- 3.01	328.4+/- 13.7	4.5+/- 8.0
06	56 58 60	6.46+/- 2.49	314.1+/- 20.3	6.4+/- 9.2

Average for 15 minute period ending at 15:30:00  
Traffic Data  
 Total Traffic = 2213 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	56.4	76	50.8	98	58.3	55	56.3	40	49.6
Cat2	105	59.9	147	52.9	155	60.3	81	56.8	60	50.5
Cat3	25	61.9	26	56.5	27	58.0	9	58.1	7	48.9
Cat4	9	66.6	14	58.8	17	59.3	7	59.1	3	39.1
Cat5	3	64.8	5	59.2	2	64.6	1	64.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	64.1	90	57.0	90	56.3	71	56.0	36	47.0
Cat2	199	66.0	181	58.2	168	58.5	86	58.9	40	48.5
Cat3	12	63.4	38	59.1	25	57.9	13	57.3	1	48.4
Cat4	17	66.8	20	58.2	9	58.1	3	54.9	0	.0
Cat5	3	69.8	7	59.7	5	56.4	1	52.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	682	30.8	58.5	1222	55.2	58.7	183	8.3	60.1	99	4.5	60.9	27	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.425+/-	3.758	37	N VA 102'	-.130+/-	2.085
12	N Dasibi CO	.560+/-	.233	38	S BOT PER	-7.408+/-	2.903
13	N TOP PAR	5.535+/-	3.707	39	N VA 74'	-.087+/-	2.059
14	N Dasibi O3	-.029+/-	.002	40	S BOT PAR	8.690+/-	3.419
15	N TOP VER	.403+/-	2.333	41	N GND PER	-.053+/-	2.262
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.834+/-	1.315
17	N BOT PER	-2.805+/-	3.042	43	N GND PAR	4.028+/-	3.204
19	N BOT PAR	4.500+/-	3.117	45	N GND VER	.453+/-	1.235
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.185+/-	2.234	50	S TOP PER	-8.440+/-	2.660
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.237+/-	.156
23	N HA 102'	15.614+/-	3.983	52	S TOP PAR	8.279+/-	3.227
24	N THC/Byron	2.000+/-	.128	53	N Ecolyzer-3	.614+/-	.333
25	N WV 102'	318.282+/-	12.278	54	S TOP VER	.463+/-	1.400
26	N NMHC/Byro	1.876+/-	.254	55	N Ecolyzer-4	.635+/-	.347
27	N Gnd Temp	44.599+/-	3.374	56	S GND PER	-5.094+/-	2.419
28	N CH4/Byron	1.381+/-	.067	57	N Ecolyzer-5	.935+/-	1.383
29	N WV 74'	313.244+/-	19.485	58	S GND PAR	5.922+/-	1.978
30	N CO/Byron	.713+/-	.673	59	N Rel Hum	80.736+/-	.242
31	N 74' Temp	42.228+/-	3.150	60	S GND VER	.603+/-	.883
32	N CO2/Byron	394.724+/-	4.998	61	N Solar Rad	66.126+/-	4.203
35	N HA 74'	12.153+/-	4.092	64	S VA 55'	.370+/-	1.973

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	9.46+/-	4.15	319.9+/-	21.6	8.8+/-	23.6
02	17	19	21	6.51+/-	3.19	296.8+/-	30.5	8.5+/-	27.7
03	38	40	42	11.90+/-	3.42	310.8+/-	13.9	5.8+/-	7.9
04	41	43	45	5.01+/-	2.84	272.7+/-	38.0	9.0+/-	17.7
05	50	52	54	12.14+/-	3.50	318.2+/-	10.7	4.5+/-	7.8
06	56	58	60	8.14+/-	2.36	308.7+/-	15.2	5.1+/-	7.1

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2508 vehicles averaging 57.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	58.5	83	50.4	100	56.2	70	55.1	42	49.3
Cat2	154	59.7	148	51.6	181	57.6	101	57.1	49	50.7
Cat3	17	61.9	32	57.0	30	57.9	10	55.9	11	50.6
Cat4	25	63.0	27	56.7	12	59.1	10	59.6	1	42.4
Cat5	9	64.5	11	59.5	2	54.9	1	62.1	1	51.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	64.4	86	55.5	91	56.8	69	56.2	37	46.0
Cat2	229	66.5	209	58.3	177	58.2	121	59.5	63	46.3
Cat3	17	67.4	43	59.5	30	57.4	11	58.4	3	42.3
Cat4	7	65.7	20	59.7	24	58.5	1	57.4	0	0
Cat5	4	69.3	10	60.2	4	57.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
55.4	703	28.0	58.2	1432	57.1	58.5	204	8.1	59.8	127	5.1	61.1	42	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.061+/-	3.765	37	N VA 102'	-2.224+/-	1.937
12	N Dasibi CO	.590+/-	.178	38	S BOT PER	-6.884+/-	2.587
13	N TOP PAR	4.062+/-	2.699	39	N VA 74'	-0.074+/-	1.893
14	N Dasibi O3	.027+/-	.002	40	S BOT PAR	6.428+/-	2.794
15	N TOP VER	-.001+/-	1.886	41	N GND PER	-3.18+/-	2.475
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.572+/-	1.413
17	N BOT PER	-2.946+/-	2.822	43	N GND PAR	2.786+/-	2.309
19	N BOT PAR	3.704+/-	2.730	45	N GND VER	.141+/-	1.538
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	-.044+/-	1.698	50	S TOP PER	-7.788+/-	2.477
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.182+/-	.188
23	N HA 102'	13.725+/-	3.476	52	S TOP PAR	5.474+/-	2.776
24	N THC/Byron	1.855+/-	.095	53	N Ecolyzer-3	.732+/-	.311
25	N WV 102'	325.591+/-	12.800	54	S TOP VER	.435+/-	1.238
26	N NMHC/Byro	1.301+/-	.288	55	N Ecolyzer-4	.642+/-	.192
27	N Gnd Temp	44.286+/-	3.215	56	S GND PER	-4.432+/-	2.211
28	N CH4/Byron	1.397+/-	.089	57	N Ecolyzer-5	.883+/-	.587
29	N WV 74'	318.300+/-	20.513	58	S GND PAR	4.721+/-	2.056
30	N CO/Byron	.339+/-	.472	59	N Rel Hum	80.997+/-	.317
31	N 74' Temp	43.008+/-	2.882	60	S GND VER	.562+/-	.840
32	N CO2/Byron	397.655+/-	3.884	61	N Solar Rad	55.135+/-	5.003
35	N HA 74'	11.203+/-	3.774	64	S VA 55'	.376+/-	1.871

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)			
		Vector Sum (mph)	Bearing Deg AZ				
01	11 13 15	7.88+/-	3.92	324.4+/-	20.5	4.9+/-	16.7
02	17 19 21	5.62+/-	3.01	303.0+/-	31.0	6.3+/-	23.3
03	38 40 42	9.80+/-	2.64	316.8+/-	16.3	4.6+/-	10.3
04	41 43 45	4.14+/-	1.99	275.1+/-	43.7	1.9+/-	25.0
05	50 52 54	9.91+/-	2.78	325.5+/-	14.6	3.5+/-	7.2
06	56 58 60	6.86+/-	2.21	312.7+/-	17.9	5.8+/-	11.5

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2477 vehicles averaging 56.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	58.5	110	50.9	107	57.2	88	56.4	52	48.7
Cat2	126	59.8	120	52.3	167	59.3	92	57.4	64	49.7
Cat3	30	61.9	29	56.7	25	58.8	7	57.2	9	52.2
Cat4	12	63.3	9	58.5	17	60.8	3	63.0	3	47.3
Cat5	9	66.7	6	59.6	1	57.7	1	58.1	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	64.1	100	55.7	112	56.1	96	55.8	56	43.9
Cat2	203	65.2	219	57.9	193	57.2	100	58.0	67	45.1
Cat3	13	64.2	36	58.7	18	58.4	13	58.3	5	43.5
Cat4	6	63.8	15	58.1	21	58.4	1	56.2	0	0
Cat5	4	64.0	6	57.4	5	59.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
54.9	812	32.8	57.7	1381	54.9	58.1	185	7.5	59.6	87	3.5	61.5	32	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.620+/-	3.597	37	N VA 102'	.361+/-	1.785
12	N Dasibi CO	.578+/-	.113	38	S BOT PER	-5.892+/-	2.558
13	N TOP PAR	3.912+/-	2.797	39	N VA 74'	.444+/-	1.700
14	N Dasibi O3	.024+/-	.002	40	S BOT PAR	7.037+/-	3.082
15	N TOP VER	.351+/-	1.690	41	N GND PER	.561+/-	2.516
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.618+/-	1.032
17	N BOT PER	-1.859+/-	2.481	43	N GND PAR	3.564+/-	2.623
19	N BOT PAR	3.060+/-	2.645	45	N GND VER	.056+/-	1.052
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.394+/-	1.752	50	S TOP PER	-7.290+/-	2.844
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.331+/-	3.043
23	N HA 102'	12.658+/-	3.443	52	S TOP PAR	6.478+/-	2.535
24	N THC/Byron	1.871+/-	.061	53	N Ecolyzer-3	.814+/-	.297
25	N WV 102'	320.429+/-	14.691	54	S TOP VER	.809+/-	1.152
26	N NMHC/Byro	1.299+/-	.344	55	N Ecolyzer-4	.885+/-	.194
27	N Gnd Temp	44.416+/-	3.681	56	S GND PER	-3.981+/-	2.054
28	N CH4/Byron	1.329+/-	.054	57	N Ecolyzer-5	.819+/-	.602
29	N WV 74'	312.879+/-	23.915	58	S GND PAR	5.204+/-	1.728
30	N CO/Byron	.155+/-	.080	59	N Rel Hum	81.208+/-	.304

31	N 74' Temp	41.602+/-	4.496	DEGR F	60	S GND VER	.506+/-	.769	mph
32	N CO2/Byron	394.317+/-	3.417	ppm	61	N Solar Rad	40.829+/-	4.350	W/m**2
35	N HA 74'	9.412+/-	3.894	mph	64	S VA 55'	.690+/-	1.683	mph

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)		
01	11	13	15	6.80+/-	3.78	317.0+/-	28.8	9.9+/-	22.6	
02	17	19	21	4.52+/-	2.80	291.1+/-	35.4	13.2+/-	31.6	
03	38	40	42	9.88+/-	2.86	310.8+/-	16.8	5.5+/-	7.4	
04	41	43	45	4.66+/-	2.38	263.6+/-	38.3	1.3+/-	16.8	
05	50	52	54	10.10+/-	3.05	317.9+/-	12.5	4.9+/-	8.2	
06	56	58	60	6.92+/-	1.75	306.4+/-	17.9	4.2+/-	7.5	

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 9207 vehicles averaging 57.7 mph

Westbound Traffic											
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	220	58.1	366	51.3	387	57.3	264	55.9	177	49.5	
Cat2	508	60.0	476	52.5	661	59.1	352	57.2	238	50.6	
Cat3	93	61.5	110	57.6	105	57.8	34	57.8	31	50.7	
Cat4	59	63.9	55	57.7	59	59.8	25	59.7	10	44.9	
Cat5	26	65.3	22	58.4	6	59.7	3	61.5	1	51.3	

Eastbound Traffic											
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	248	64.5	333	56.4	376	56.6	307	56.2	160	45.4	
Cat2	835	66.2	772	58.4	674	58.3	379	58.5	221	46.4	
Cat3	54	65.9	144	58.6	98	58.2	48	57.6	9	43.6	
Cat4	41	66.4	71	58.9	71	59.0	11	54.0	0	.0	
Cat5	14	67.8	34	60.4	18	58.7	1	52.0	0	.0	

Vehicle Classification Summary														
Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total		Total		Total		Total		Total		Total	
55.6	2838	30.8	58.4	5116	55.6	58.6	726	7.9	60.0	402	4.4	61.7	125	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.852+/-	3.688	37	N VA 102'	.061+/-	1.883
12	N Desibi CD	.568+/-	.168	38	S BOT PER	-6.595+/-	2.679
13	N TOP PAR	4.189+/-	3.187	39	N VA 74'	.135+/-	1.851
14	N Desibi O3	.027+/-	.003	40	S BOT PAR	6.975+/-	3.359
15	N TOP VER	.232+/-	1.994	41	N GND PER	.022+/-	2.471
16	N NOX/TECD	*****+/-	*****	42	S BOT VER	.699+/-	1.270
17	N BOT PER	-2.540+/-	2.803	43	N GND PAR	3.165+/-	2.853
19	N BOT PAR	3.584+/-	2.921	45	N GND VER	.177+/-	1.242
20	N NO2/TECD	*****+/-	*****	48	N EcoLyzer-1	*****+/-	*****
21	N BOT VER	.166+/-	1.923	50	S TOP PER	-7.848+/-	2.676
22	N NO/TECD	*****+/-	*****	51	N EcoLyzer-2	1.455+/-	1.609
23	N HA 102'	13.894+/-	3.940	52	S TOP PAR	6.397+/-	3.082
24	N THC/Byron	1.899+/-	.106	53	N EcoLyzer-3	.707+/-	.323
25	N WV 102'	322.841+/-	14.065	54	S TOP VER	.518+/-	1.259
26	N MMHC/Byro	1.638+/-	.458	55	N EcoLyzer-4	.637+/-	.287
27	N Gnd Temp	44.664+/-	3.213	56	S GND PAR	-8.374+/-	2.229
28	N CH4/Byron	1.341+/-	.086	57	N EcoLyzer-5	.785+/-	.876
29	N WV 74'	316.354+/-	21.435	58	S GND VER	5.083+/-	2.167
30	N CO/Byron	.333+/-	.468	59	N Rel Hum	80.976+/-	.318
31	N 74' Temp	42.723+/-	3.349	60	S GND VER	.551+/-	.883
32	N CO2/Byron	395.009+/-	4.111	61	N Solar Rad	60.460+/-	15.342
35	N HA 74'	10.880+/-	3.981	64	S VA 55'	.660+/-	1.849

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)		
01	11	13	15	7.98+/-	3.98	323.5+/-	23.0	7.1+/-	21.0	
02	17	19	21	5.50+/-	3.06	289.9+/-	33.7	9.2+/-	28.1	
03	38	40	42	10.13+/-	3.21	314.5+/-	16.6	5.6+/-	8.6	
04	41	43	45	4.42+/-	2.46	273.2+/-	43.4	3.6+/-	19.9	
05	50	52	54	10.52+/-	3.23	321.5+/-	13.6	4.4+/-	7.8	
06	56	58	60	7.10+/-	2.30	310.7+/-	18.1	5.4+/-	9.0	

16:03:45 -- BEGIN CAL. NCO-2  
 16:15:44 -- END CAL. NCO-2  
 16:16:34 -- BEGIN CAL. NCO-3  
 16:28:43 -- END CAL. NCO-3  
 16:28:58 -- BEGIN CAL. NCO-4  
 16:43:36 -- END CAL. NCO-4  
 16:44:24 -- BEGIN CAL. NCO-5  
 16:59:08 -- END CALIB CH 57

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2439 vehicles averaging 57.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	58.6	88	51.7	99	57.6	52	55.5	48	50.2
Cat2	147	59.5	144	52.3	175	58.5	70	56.9	60	52.1
Cat3	23	62.5	25	56.2	25	57.1	11	58.1	3	46.7
Cat4	11	64.6	17	59.2	8	60.5	3	57.1	1	43.2
Cat5	9	64.9	6	58.5	2	60.9	2	64.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	64.7	101	56.3	110	56.1	86	56.1	46	43.9
Cat2	205	66.2	226	57.9	165	58.4	121	57.6	72	45.8
Cat3	20	66.2	39	60.1	30	57.5	8	56.7	1	44.6
Cat4	11	67.8	16	59.5	11	57.3	0	.0	0	.0
Cat5	2	73.9	12	61.1	4	62.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	754	30.9	57.9	1385	56.8	59.1	185	7.6	60.8	78	3.2	62.6	37	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.627+/-	3.236	37	N VA 102'	.064+/-	1.831
12	N Dasibi CO	.553+/-	.118	38	S BDT PER	-6.658+/-	2.857
13	N TOP PAR	3.896+/-	2.829	39	N VA 74'	-.063+/-	1.941
14	N Dasibi O3	.023+/-	.001	40	S BDT PAR	6.322+/-	3.085
15	N TOP VER	-.055+/-	1.970	41	N GND PER	-.636+/-	2.804
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.569+/-	1.325
17	N BDT PER	-2.808+/-	2.710	43	N GND PAR	2.691+/-	2.729
18	N BDT PAR	3.188+/-	2.523	45	N GND VER	.198+/-	1.373
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BDT VER	-.083+/-	2.001	50	S TOP PER	-7.851+/-	2.831
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	*****+/-*****	
23	N HA 102'	13.502+/-	3.756	52	S TOP PAR	6.144+/-	3.119
24	N THC/Byron	1.801+/-	.075	53	N EcoLyzr-3	.886+/-	.314
25	N WV 102'	328.653+/-	16.429	54	S TOP VER	.367+/-	1.368
26	N NMHC/Byro	1.410+/-	.312	55	N EcoLyzr-4	.677+/-	.197
27	N Gnd Temp	43.296+/-	2.052	56	S GND PER	-4.422+/-	2.291
28	N CH4/Byron	1.277+/-	.064	57	N EcoLyzr-5	.843+/-	.535
29	N WV 74'	321.040+/-	23.166	58	S GND PAR	4.484+/-	2.180
30	N CO/Byron	.174+/-	.082	59	N Rel Hum	81.208+/-	.275
31	N 74' Temp	44.208+/-	3.404	60	S GND VER	.481+/-	.797
32	N CO2/Byron	399.039+/-	4.853	61	N Solar Rad	33.381+/-	2.761
35	N HA 74'	11.586+/-	3.606	64	S VA 55'	.194+/-	1.769

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.46+/- 3.11	327.7+/- 20.5	3.0+/- 16.9
02	17 19 21	5.30+/- 2.59	303.0+/- 34.3	1.8+/- 26.7
03	38 40 42	9.75+/- 2.98	317.0+/- 17.6	4.8+/- 8.0
04	41 43 45	4.30+/- 2.51	281.1+/- 45.8	6.3+/- 22.3
05	50 52 54	10.43+/- 3.23	322.9+/- 15.3	3.4+/- 8.0
06	56 58 60	6.78+/- 2.12	313.8+/- 21.4	5.9+/- 8.5

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2350 vehicles averaging 57.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	59.0	95	50.4	94	56.7	67	56.2	53	48.6
Cat2	139	59.7	116	52.9	172	58.4	85	57.4	68	49.8
Cat3	20	62.3	25	58.1	36	59.4	5	58.0	0	.0
Cat4	17	63.9	8	58.6	9	57.9	2	45.5	1	51.2
Cat5	5	66.3	7	57.1	2	57.7	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	64.3	96	56.0	100	56.9	71	56.9	53	45.8
Cat2	163	66.6	231	57.8	145	57.9	115	57.4	50	45.5
Cat3	12	66.3	37	58.4	23	60.1	6	58.2	3	43.4
Cat4	7	66.6	11	57.1	17	57.8	4	52.6	0	.0
Cat5	4	68.7	5	59.3	4	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	796	33.9	57.8	1284	54.6	59.5	167	7.1	59.3	76	3.2	61.7	27	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-8.683+/-	4.502	37	N VA 102'	-.480+/-	1.744
12	N Dasibi CO	.582+/-	.198	38	S BDT PER	-8.231+/-	3.725
13	N TOP PAR	2.993+/-	2.753	39	N VA 74'	-.048+/-	2.032
14	N Dasibi O3	.026+/-	.002	40	S BDT PAR	3.922+/-	3.146
15	N TOP VER	.001+/-	2.026	41	N GND PER	-1.091+/-	2.615
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.444+/-	1.327
17	N BDT PER	-4.238+/-	3.869	43	N GND PAR	.896+/-	2.448
19	N BDT PAR	2.671+/-	2.447	45	N GND VER	.002+/-	1.295
20	N NO2/TECO	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BDT VER	.041+/-	1.988	50	S TOP PER	-9.360+/-	3.949
22	N NO/TECO	*****+/-*****		51	N EcoLyzr-2	1.209+/-	.081
23	N HA 102'	14.333+/-	4.240	52	S TOP PAR	3.920+/-	2.706
24	N THC/Byron	1.868+/-	.075	53	N EcoLyzr-3	*****+/-*****	
25	N WV 102'	335.437+/-	14.264	54	S TOP VER	.195+/-	1.367
26	N NMHC/Byro	1.519+/-	.173	55	N EcoLyzr-4	.783+/-	.520
27	N Gnd Temp	44.989+/-	2.658	56	S GND PER	-4.891+/-	2.485
28	N CH4/Byron	1.337+/-	.085	57	N EcoLyzr-5	.786+/-	.683
29	N WV 74'	329.448+/-	18.927	58	S GND PAR	3.108+/-	2.150
30	N CO/Byron	.176+/-	.052	59	N Rel Hum	80.915+/-	.312

31	N 74' Temp	43.843+/-	3.600	DEGR F	60	S GND VER	.317+/-	1.086	mph
32	N CD2/Byron	394.480+/-	3.462	ppm	61	N Solar Rad	26.160+/-	3.345	W/m**2
35	N HA 74'	12.910+/-	4.798	mph	64	S VA 55'	.290+/-	1.687	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.77+/- 4.44	339.6+/- 20.2	2.7+/- 14.1
02	17 19 21	6.16+/- 3.51	317.3+/- 39.6	7.8+/- 28.3
03	38 40 42	9.85+/- 3.37	333.4+/- 20.4	4.4+/- 8.8
04	41 43 45	3.59+/- 1.90	331.1+/- 53.1	1.4+/- 24.9
05	50 52 54	10.65+/- 3.76	336.2+/- 16.2	4.3+/- 9.7
06	56 58 60	6.37+/- 2.28	326.1+/- 23.0	4.5+/- 14.5

Average for 15 minute period ending at 16:45:00  
Traffic Data  
 Total Traffic = 2462 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	58.2	125	51.9	107	57.5	56	55.8	51	50.1
Cat2	158	60.3	71	51.9	195	58.6	75	58.9	47	50.6
Cat3	29	61.1	18	58.2	31	58.1	8	55.4	1	49.3
Cat4	14	66.0	12	60.7	8	56.1	5	55.9	5	51.6
Cat5	6	60.1	7	60.3	0	.0	1	63.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	63.6	95	55.8	123	56.8	60	55.3	61	43.9
Cat2	223	64.0	200	57.2	181	57.6	80	56.9	91	44.7
Cat3	11	66.3	45	59.0	22	58.6	14	58.9	2	38.0
Cat4	9	67.4	17	57.8	13	55.5	6	54.9	1	48.9
Cat5	0	.0	13	62.3	3	53.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	840	34.1	57.7	1321	53.7	59.1	181	7.4	59.2	90	3.7	60.6	30	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.513+/-	3.778	37	N VA 102'	-1.381+/-	1.707
12	N Desibi CO	.853+/-	.170	38	S BOT PER	-6.889+/-	2.905
13	N TOP PAR	2.851+/-	2.899	39	N VA 74'	-.153+/-	1.813
14	N Desibi O3	-.020+/-	.002	40	S BOT PAR	3.694+/-	2.506
15	N TOP VER	.280+/-	1.986	41	N GND PER	-.554+/-	2.878
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.438+/-	1.047
17	N BOT PER	-3.002+/-	2.622	43	N GND PAR	1.386+/-	2.539
19	N BOT PAR	2.502+/-	2.671	45	N GND VER	.349+/-	1.449
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.135+/-	1.899	50	S TOP PER	-8.490+/-	2.782
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.239+/-	.115
23	N HA 102'	12.438+/-	3.614	52	S TOP PAR	3.671+/-	2.444
24	N THC/Byron	1.902+/-	.045	53	N Ecolyzer-3	1.121+/-	.301
25	N WV 102'	337.640+/-	14.133	54	S TOP VER	.398+/-	1.105
26	N MMHC/Byro	1.391+/-	.080	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	42.957+/-	3.988	56	S GND PER	-4.244+/-	1.841
28	N CH4/Byron	1.376+/-	.088	57	N Ecolyzer-5	.672+/-	.875
29	N WV 74'	331.962+/-	19.910	58	S GND PAR	2.851+/-	2.002
30	N CD/Byron	.161+/-	.083	59	N Rel Hum	81.387+/-	.336
31	N 74' Temp	42.436+/-	2.213	60	S GND VER	.341+/-	.749
32	N CD2/Byron	390.572+/-	4.528	61	N Solar Rad	19.256+/-	3.052
35	N HA 74'	10.978+/-	3.991	64	S VA 55'	.359+/-	1.814

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.88+/- 3.92	336.8+/- 20.9	7.9+/- 19.1
02	17 19 21	5.05+/- 2.84	318.0+/- 37.3	8.8+/- 27.2
03	38 40 42	8.30+/- 2.83	330.7+/- 18.2	3.9+/- 8.2
04	41 43 45	3.64+/- 2.42	296.5+/- 53.3	4.3+/- 26.5
05	50 52 54	9.60+/- 2.90	338.7+/- 14.3	3.3+/- 7.4
06	56 58 60	5.50+/- 1.87	326.7+/- 20.4	5.5+/- 9.0

Average for 15 minute period ending at 17:00:00  
Traffic Data  
 Total Traffic = 2533 vehicles averaging 56.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	58.2	139	51.8	99	58.0	55	57.1	63	48.9
Cat2	173	60.6	80	54.1	179	59.0	77	58.7	66	49.6
Cat3	26	61.8	22	57.5	29	60.0	14	58.8	7	47.2
Cat4	13	63.4	8	58.5	10	58.1	1	58.0	2	48.5
Cat5	3	63.1	8	58.0	0	.0	1	60.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	63.1	84	54.6	118	55.4	84	55.1	57	44.8
Cat2	208	65.0	256	56.3	166	55.3	106	56.4	77	45.7
Cat3	9	65.9	45	58.0	35	56.8	14	55.4	0	.0
Cat4	10	62.6	17	58.2	18	58.1	3	55.1	1	45.8
Cat5	0	.0	8	58.1	8	59.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.7	835	33.0	57.5	1388	54.8	58.4	201	7.9	58.6	83	3.3	59.2	26	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.074+/-	3.280	37	N VA 102'	-.295+/-	1.877
12	N Desibi CO	.560+/-	.148	38	S BOT PER	-6.509+/-	3.140
13	N TOP PAR	3.183+/-	3.110	39	N VA 74'	.034+/-	2.120
14	N Desibi O3	-.020+/-	.002	40	S BOT PAR	4.962+/-	3.124
15	N TOP VER	.042+/-	1.983	41	N GND PER	-.122+/-	2.416
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.486+/-	1.217
17	N BOT PER	-2.731+/-	2.360	43	N GND PAR	2.304+/-	2.873
19	N BOT PAR	2.654+/-	2.520	45	N GND VER	.226+/-	1.295
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.091+/-	1.877	50	S TOP PER	-8.049+/-	2.984
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.281+/-	.097

23	N HA 102'	13.684+/-	3.715	mph	52	S TOP PAR	4.820+/-	3.166	mph
24	N THC/Byron	1.853+/-	.058	ppm	53	N Ecolyzer-3	1.185+/-	.303	ppm
25	N WV 102'	333.144+/-	14.924	DEGR AZ	54	S TOP VER	.341+/-	1.343	mph
26	N NMHC/Byro	1.698+/-	.192	ppm	55	N Ecolyzer-4	.871+/-	.215	ppm
27	N Gnd Temp	42.514+/-	3.236	DEGR F	56	S GND PER	-4.130+/-	1.701	mph
28	N CH4/Byron	1.466+/-	.086	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	328.225+/-	20.542	DEGR AZ	58	S GND PAR	3.685+/-	2.572	mph
30	N CD/Byron	.180+/-	.057	ppm	59	N Rel Hum	81.563+/-	.244	%
31	N 74' Temp	42.254+/-	2.883	DEGR F	60	S GND VER	.514+/-	.856	mph
32	N CD2/Byron	392.651+/-	5.158	ppm	61	N Solar Rad	11.944+/-	2.372	W/m**2
35	N HA 74'	11.805+/-	4.217	mph	64	S VA 55'	.411+/-	1.913	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.46+/-	3.61	336.4+/-	21.7	3.8+/-	17.0
02	17	19	21	4.86+/-	2.55	312.2+/-	34.4	4.2+/-	25.1
03	38	40	42	8.82+/-	3.23	322.6+/-	18.8	4.5+/-	8.9
04	41	43	45	3.89+/-	2.49	286.3+/-	48.8	4.2+/-	23.0
05	50	52	54	9.76+/-	3.41	330.9+/-	15.4	3.8+/-	9.5
06	56	58	60	6.04+/-	2.15	320.0+/-	24.1	6.8+/-	10.9

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic : 9784 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	306	58.2	447	51.5	399	57.5	240	56.2	215	49.4
Cat2	617	60.1	411	52.8	721	58.6	307	58.0	241	50.5
Cat3	98	61.8	90	57.4	121	58.7	38	57.8	11	47.2
Cat4	55	64.4	45	59.4	35	58.1	11	54.5	9	49.9
Cat5	23	63.7	28	58.5	4	59.3	4	63.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	273	63.9	376	55.6	451	56.3	301	55.9	217	44.6
Cat2	798	65.3	913	57.3	657	57.3	422	57.1	290	45.4
Cat3	52	66.2	166	58.9	110	58.0	42	57.2	6	41.8
Cat4	37	66.1	61	57.7	59	57.3	13	54.2	2	47.4
Cat5	6	70.4	36	60.8	19	59.7	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%			
55.2	3225	33.0	57.7	5378	55.0	59.0	734	7.5	58.5	327	3.3	61.1	120	1.2

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	-7.235+/-	3.815	mph	37	N VA 102'	-7.273+/-	1.799	mph
12	N Dasibi CD	.612+/-	.167	ppm	38	S BOT PER	-7.072+/-	3.235	mph
13	N TOP PAR	3.233+/-	2.918	ppm	39	N VA 74'	.052+/-	1.978	mph
14	N Dasibi D3	.022+/-	.003	ppm	40	S BOT PAR	4.725+/-	3.137	mph
15	N TOP VER	.067+/-	1.991	ppm	41	N GND PER	-6.501+/-	2.655	mph
16	N NDX/TECO	*****+/-*****		ppm	42	S BOT VER	-4.884+/-	1.233	mph
17	N BOT PER	-3.195+/-	2.998	mph	43	N GND PAR	1.814+/-	2.737	mph
18	N BOT PAR	2.754+/-	2.544	ppm	45	N GND VER	.194+/-	1.357	ppm
20	N N02/TECO	*****+/-*****		ppm	48	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.001+/-	1.940	ppm	50	S TOP PER	-8.440+/-	3.211	ppm
22	N N0/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	1.821+/-	2.157	ppm
23	N HA 102'	13.489+/-	3.883	mph	52	S TOP PAR	4.589+/-	3.020	ppm
24	N THC/Byron	1.856+/-	.073	ppm	53	N Ecolyzer-3	1.049+/-	.330	ppm
25	N WV 102'	333.734+/-	15.275	DEGR AZ	54	S TOP VER	.325+/-	1.300	ppm
26	N NMHC/Byro	1.505+/-	.236	ppm	55	N Ecolyzer-4	.779+/-	.346	ppm
27	N Gnd Temp	43.439+/-	3.130	DEGR F	56	S GND PER	-4.422+/-	2.115	ppm
28	N CH4/Byron	1.384+/-	.105	ppm	57	N Ecolyzer-5	.839+/-	.644	ppm
29	N WV 74'	327.714+/-	21.000	DEGR AZ	58	S GND PAR	3.532+/-	2.323	ppm
30	N CD/Byron	.168+/-	.089	ppm	59	N Rel Hum	81.273+/-	.373	%
31	N 74' Temp	43.185+/-	3.114	DEGR F	60	S GND VER	4.413+/-	.884	ppm
32	N CD2/Byron	394.235+/-	5.421	ppm	61	N Solar Rad	22.685+/-	8.514	W/m**2
35	N HA 74'	11.820+/-	4.216	mph	64	S VA 55'	.313+/-	1.786	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.84+/-	3.85	335.1+/-	21.2	4.3+/-	16.9
02	17	19	21	5.34+/-	2.83	312.7+/-	36.7	5.7+/-	27.1
03	38	40	42	9.18+/-	3.16	325.9+/-	19.7	4.4+/-	8.5
04	41	43	45	3.85+/-	2.35	295.3+/-	51.2	4.5+/-	25.8
05	50	52	54	10.11+/-	3.35	331.7+/-	16.2	3.8+/-	8.7
06	56	58	60	6.17+/-	2.17	321.7+/-	22.7	5.7+/-	11.0

17:00:14 -- WILL TOUCH UP RANGE ON RADAR #3  
 17:39:02 -- TRAFFIC STARTED TO BACK UP ON 610 EAST ABOUT 1720 HRS.  
 Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2690 vehicles averaging 53.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	58.1	88	51.6	123	57.5	81	55.1	43	50.6
Cat2	145	60.0	162	52.6	168	59.2	86	58.2	64	49.8
Cat3	30	61.6	32	59.4	29	58.6	4	66.8	6	51.6
Cat4	24	62.9	12	61.6	13	64.0	3	58.3	2	44.5
Cat5	6	63.2	9	59.4	3	64.9	0	60.0	0	60.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	56.5	82	52.4	97	52.7	83	51.1	59	47.8
Cat2	212	60.1	236	49.5	224	47.3	170	49.9	60	43.9
Cat3	12	58.9	43	52.2	37	49.8	11	50.0	2	42.8
Cat4	10	62.5	26	52.9	21	51.2	4	54.7	0	60.0
Cat5	3	62.3	10	57.8	12	49.4	1	48.5	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.8	798	29.7	53.4	1527	56.8	55.5	206	7.7	57.7	115	4.3	57.2	44	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.847+/-	3.372	37	N VA 102'	.124+/-	1.621
12	N Dasibi CO	.700+/-	.192	38	S BOT PER	-5.769+/-	2.719
13	N TOP PAR	2.776+/-	2.812	39	N VA 74'	.232+/-	1.704
14	N Dasibi O3	.020+/-	.002	40	S BOT PAR	4.438+/-	2.527
15	N TOP VER	.372+/-	1.887	41	N GND PER	.285+/-	2.718
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.605+/-	1.234
17	N BOT PER	-2.234+/-	2.489	43	N GND PAR	1.802+/-	2.777
19	N BOT PAR	1.922+/-	2.176	45	N GND VER	.175+/-	1.222
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.174+/-	1.800	50	S TOP PER	-7.262+/-	2.825
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.385+/-	.086
23	N HA 102'	12.308+/-	3.498	52	S TOP PAR	3.881+/-	2.450
24	N THC/Byron	1.860+/-	.095	53	N EcoLyzer-3	1.293+/-	.230
25	N WV 102'	334.089+/-	14.371	54	S TOP VER	.599+/-	1.141
26	N NMHC/Byro	1.679+/-	.577	55	N EcoLyzer-4	.913+/-	.223
27	N Gnd Temp	45.278+/-	4.810	56	S GND PER	-3.765+/-	1.973
28	N CH4/Byron	1.430+/-	.092	57	N EcoLyzer-5	.998+/-	.689
29	N WV 74'	328.573+/-	20.416	58	S GND PAR	3.388+/-	1.831
30	N CO/Byron	.181+/-	.069	59	N Rel Hum	81.681+/-	.766
31	N 74' Temp	43.895+/-	3.122	60	S GND VER	.375+/-	.781
32	N CO2/Byron	396.352+/-	6.340	61	N Solar Rad	8.674+/-	3.673
35	N HA 74'	10.215+/-	3.845	64	S VA 55'	.641+/-	1.530

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.17+/- 3.61	335.9+/- 19.7	8.5+/- 20.5
02	17 19 21	4.06+/- 2.51	314.3+/- 43.9	9.8+/- 31.4
03	38 40 42	7.84+/- 2.84	322.7+/- 20.1	6.4+/- 12.0
04	41 43 45	3.78+/- 2.44	261.2+/- 49.1	8.4+/- 21.3
05	50 52 54	8.68+/- 2.88	331.8+/- 15.6	6.2+/- 9.8
06	56 58 60	5.44+/- 1.99	317.5+/- 22.2	5.8+/- 10.5

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2866 vehicles averaging 43.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	56.8	64	50.5	156	56.5	82	55.2	57	49.1
Cat2	187	58.3	226	51.4	185	57.4	97	56.8	72	50.6
Cat3	22	60.4	30	56.8	28	58.3	3	54.9	5	50.9
Cat4	25	62.6	24	56.8	9	58.0	7	55.2	3	48.6
Cat5	5	62.6	6	58.8	1	63.1	2	60.2	0	60.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	38.0	14	32.7	16	30.2	81	36.5	69	35.0
Cat2	264	38.2	256	28.3	306	28.5	234	37.7	68	37.0
Cat3	15	38.5	27	31.1	25	31.3	24	38.3	1	36.9
Cat4	7	37.2	19	29.8	12	30.5	3	34.6	0	60.0
Cat5	2	29.3	4	31.5	5	33.1	0	60.0	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
48.2	657	22.9	41.9	1895	68.1	45.8	180	6.3	48.4	109	3.8	48.0	25	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.829+/-	3.810	37	N VA 102'	-.293+/-	1.935
12	N Dasibi CO	.721+/-	.171	38	S BOT PER	-8.120+/-	3.153
13	N TOP PAR	2.222+/-	2.541	39	N VA 74'	.265+/-	1.787
14	N Dasibi O3	.018+/-	.002	40	S BOT PAR	2.670+/-	2.530
15	N TOP VER	.309+/-	1.801	41	N GND PER	-.850+/-	2.570
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.401+/-	1.084
17	N BOT PER	-3.302+/-	3.096	43	N GND PAR	1.125+/-	2.094
19	N BOT PAR	2.055+/-	2.458	45	N GND VER	.073+/-	1.311
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.371+/-	1.903	50	S TOP PER	-9.549+/-	3.775
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	1.406+/-	.082
23	N HA 102'	13.510+/-	3.601	52	S TOP PAR	3.166+/-	2.379
24	N THC/Byron	1.920+/-	.052	53	N EcoLyzer-3	1.331+/-	-.276
25	N WV 102'	340.732+/-	13.214	54	S TOP VER	.281+/-	1.219
26	N NMHC/Byro	1.394+/-	.160	55	N EcoLyzer-4	.957+/-	-.210
27	N Gnd Temp	42.801+/-	3.283	56	S GND PER	-4.430+/-	2.197
28	N CH4/Byron	1.340+/-	.089	57	N EcoLyzer-5	.982+/-	-.717
29	N WV 74'	338.491+/-	18.349	58	S GND PAR	2.437+/-	1.947
30	N CO/Byron	.156+/-	.077	59	N Rel Hum	81.908+/-	.327
31	N 74' Temp	41.707+/-	3.285	60	S GND VER	.282+/-	.936
32	N CO2/Byron	395.864+/-	2.841	61	N Solar Rad	4.678+/-	2.344
35	N HA 74'	12.275+/-	3.989	64	S VA 55'	.143+/-	1.789

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.72+/- 3.73	344.2+/- 17.5	6.0+/- 18.0
02	17 19 21	5.11+/- 2.94	322.0+/- 40.7	9.0+/- 31.4
03	38 40 42	9.02+/- 3.09	341.7+/- 17.5	3.2+/- 8.6
04	41 43 45	3.37+/- 1.74	309.4+/- 52.2	.0+/- 25.4
05	50 52 54	10.41+/- 3.79	341.5+/- 13.3	3.7+/- 8.4
06	56 58 60	5.44+/- 2.33	331.6+/- 21.0	5.5+/- 13.6

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2426 vehicles averaging 53.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	56.9	16	48.8	115	56.3	71	54.3	30	48.2
Cat2	189	58.4	228	51.1	156	56.8	73	56.0	55	49.3
Cat3	17	58.8	37	53.5	18	56.2	4	56.9	5	51.3
Cat4	20	61.3	30	55.9	11	57.2	3	55.6	2	52.1
Cat5	4	61.5	19	58.6	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	60.3	90	52.6	112	52.9	83	51.8	59	40.5
Cat2	171	61.4	228	52.5	177	51.2	90	51.5	73	41.8
Cat3	8	66.1	31	53.6	25	54.7	6	49.8	0	.0
Cat4	3	63.7	17	55.0	15	51.9	1	56.8	0	.0
Cat5	1	76.9	8	55.9	6	55.4	1	45.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.2	714	29.4	53.8	1420	58.5	55.2	151	6.2	56.5	102	4.2	58.0	39	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.551+/- 4.327	mph	37	N VA 102'	-.101+/- 2.189	mph
12	N Dasibi CD	.595+/- .154	ppm	38	S BOT PER	-7.609+/- 2.972	mph
13	N TOP PAR	3.546+/- 3.092	mph	39	N VA 74'	.428+/- 2.009	mph
14	N Dasibi D3	.022+/- .004	ppm	40	S BOT PAR	6.029+/- 3.302	mph
15	N TOP VER	.578+/- 2.167	mph	41	N GND PER	-.052+/- 2.439	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.748+/- 1.467	mph
17	N BDT PER	-2.466+/- 3.010	mph	43	N GND PAR	2.375+/- 2.779	mph
19	N BDT PAR	2.719+/- 2.335	mph	45	N GND VER	.108+/- 1.312	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	.682+/- 2.241	mph	50	S TOP PER	-8.351+/- 3.281	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	1.387+/- .136	ppm
23	N HA 102'	14.080+/- 3.843	mph	52	S TOP PAR	5.484+/- 2.718	ppm
24	N THC/Byron	1.847+/- .095	ppm	53	N EcoLyzer-3	1.280+/- .295	ppm
25	N WV 102'	327.717+/- 15.147	DEGR AZ	54	S TOP VER	.725+/- 1.387	ppm
26	N NMHC/Byro	1.443+/- .172	ppm	55	N EcoLyzer-4	.842+/- .212	ppm
27	N Gnd Temp	44.807+/- 2.414	DEGR F	56	S GND PER	-6.972+/- 2.308	ppm
28	N CH4/Byron	1.249+/- .085	ppm	57	N EcoLyzer-5	.831+/- .858	ppm
29	N WV 74'	323.484+/- 23.449	DEGR AZ	58	S GND PAR	4.426+/- 2.128	mph
30	N CO/Byron	-.185+/- .083	ppm	59	N Rel Hum	60.848+/- .520	%
31	N 74' Temp	43.061+/- 1.826	DEGR F	60	S GND VER	-.432+/- 1.135	mph
32	N CO2/Byron	393.910+/- 3.942	ppm	61	N Solar Rad	5.359+/- 3.256	W/m**2
35	N HA 74'	11.534+/- 4.535	mph	64	S VA 55'	.780+/- 2.065	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.42+/- 4.24	329.5+/- 25.4	8.4+/- 18.7
02	17 19 21	5.05+/- 2.84	301.1+/- 40.0	13.9+/- 35.7
03	38 40 42	10.35+/- 3.10	322.1+/- 18.1	5.1+/- 9.7
04	41 43 45	4.05+/- 2.15	272.9+/- 49.8	4.5+/- 23.3
05	50 52 54	10.46+/- 3.26	326.0+/- 14.6	5.3+/- 9.0
06	56 58 60	7.15+/- 2.11	318.4+/- 20.2	4.0+/- 12.5

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2145 vehicles averaging 55.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	58.4	12	49.3	102	55.7	62	54.3	33	50.0
Cat2	137	58.2	221	50.8	156	56.4	69	56.0	39	49.8
Cat3	14	61.8	49	53.1	15	54.8	4	57.0	3	45.9
Cat4	15	60.5	26	57.2	4	52.9	2	54.5	0	.0
Cat5	6	62.4	18	57.7	1	57.8	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	62.4	100	55.0	100	55.4	70	54.7	37	44.6
Cat2	152	64.2	196	56.1	160	56.2	76	56.3	43	45.9
Cat3	9	66.8	16	59.5	23	57.2	3	46.7	1	43.2
Cat4	6	63.0	7	55.8	9	56.4	3	60.7	0	.0
Cat5	0	.0	2	62.4	2	51.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.0	656	30.6	55.9	1251	58.3	56.3	137	6.4	58.0	72	3.4	58.5	29	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.520+/- 4.088	mph	37	N VA 102'	-.302+/- 1.697	mph
12	N Dasibi CD	.491+/- .096	ppm	38	S BOT PER	-7.107+/- 3.735	mph
13	N TOP PAR	2.328+/- 2.607	mph	39	N VA 74'	.151+/- 2.108	mph
14	N Dasibi D3	.024+/- .001	ppm	40	S BOT PAR	4.205+/- 3.317	mph
15	N TOP VER	.230+/- 1.935	mph	41	N GND PER	-1.133+/- 2.894	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.474+/- 1.261	mph
17	N BDT PER	-3.452+/- 3.048	mph	43	N GND PAR	1.567+/- 2.815	mph
19	N BDT PAR	2.243+/- 2.202	mph	45	N GND VER	.283+/- 1.493	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	.152+/- 1.854	mph	50	S TOP PER	-8.373+/- 3.806	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	1.259+/- .078	ppm
23	N HA 102'	13.801+/- 4.205	mph	52	S TOP PAR	4.230+/- 2.760	ppm
24	N THC/Byron	1.755+/- .063	ppm	53	N EcoLyzer-3	1.185+/- .294	ppm
25	N WV 102'	336.234+/- 15.303	DEGR AZ	54	S TOP VER	.352+/- 1.472	mph
26	N NMHC/Byro	1.585+/- .481	ppm	55	N EcoLyzer-4	.807+/- .193	ppm
27	N Gnd Temp	43.192+/- 2.695	DEGR F	56	S GND PER	-4.344+/- 2.090	mph
28	N CH4/Byron	1.290+/- .085	ppm	57	N EcoLyzer-5	.724+/- .612	ppm



29	N WV 74'	330.801+/-	19.742	DEGR AZ	58	S GND PAR	3.387+/-	2.424	mph
30	N CD/Byron	.137+/-	.077	ppm	59	N Rel Hum	80.587+/-	.341	%
31	N 74' Temp	41.841+/-	3.523	DEGR F	60	S GND VER	.341+/-	.777	mph
32	N CD2/Byron	381.956+/-	3.846	ppm	61	N Solar Rad	3.879+/-	2.646	W/m**2
35	N HA 74'	11.724+/-	4.345	mph	64	S VA 55'	.419+/-	1.956	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle [Deg]		
01	11 13 15	7.94+/- 3.97	337.3+/- 27.1	6.3+/- 18.7		
02	17 19 21	5.07+/- 2.92	317.8+/- 37.1	8.4+/- 28.1		
03	38 40 42	9.07+/- 3.54	327.8+/- 22.2	4.4+/- 9.5		
04	41 43 45	3.98+/- 2.15	297.9+/- 50.1	7.9+/- 24.2		
05	50 52 54	9.86+/- 3.69	332.8+/- 14.6	4.0+/- 11.0		
06	56 58 60	5.95+/- 2.40	323.5+/- 22.2	5.0+/- 10.9		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10127 vehicles averaging 51.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	305	57.0	180	50.8	496	56.6	296	54.8	163	49.5
Cat 2	638	58.7	837	51.4	867	57.5	325	56.8	230	49.9
Cat 3	83	60.7	148	55.3	90	57.4	15	59.2	19	50.5
Cat 4	84	62.0	92	57.2	37	59.3	15	55.8	7	48.8
Cat 5	21	62.5	52	58.4	5	63.1	2	60.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	233	56.5	286	52.4	325	52.5	317	48.4	224	40.4
Cat 2	799	53.3	916	45.7	867	43.4	570	46.0	244	41.7
Cat 3	44	54.3	117	48.7	110	48.2	44	43.9	4	41.4
Cat 4	26	55.9	68	47.3	57	47.8	11	51.0	0	.0
Cat 5	6	53.7	24	53.2	25	47.7	2	47.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
52.6	2825	27.9	50.4	6093	60.2	53.0	874	6.7	54.9	398	3.9	56.0	137	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-6.762+/- 3.964	mph	37	N VA 102'	-.092+/- 1.881	mph
12	N Desib1 CD	.627+/- .182	ppm	38	S BOT PER	-7.151+/- 3.273	mph
13	N TOP PAR	2.718+/- 2.808	ppm	39	N VA 74'	-.289+/- 1.909	mph
14	N Desib1 Q3	.021+/- .003	ppm	40	S BOT PAR	4.335+/- 3.166	ppm
15	N TDP VER	.372+/- 1.952	mph	41	N GND PER	-.438+/- 2.711	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.557+/- 1.273	mph
17	N BOT PER	-2.863+/- 2.951	mph	43	N GND PAR	1.717+/- 2.610	mph
19	N BOT PAR	2.235+/- 2.306	ppm	45	N GND VER	.160+/- 1.338	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.344+/- 1.965	ppm	50	S TOP PER	-8.384+/- 3.472	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.360+/- .114	ppm
23	N HA 102'	13.425+/- 3.792	mph	52	S TOP PAR	4.188+/- 2.703	ppm
24	N THC/Byron	1.845+/- .097	ppm	53	N EcoLyzer-3	1.267+/- .295	ppm
25	N WV 102'	334.707+/- 15.191	DEGR AZ	54	S TDP VER	.490+/- 1.321	ppm
26	N NMHC/Byro	1.520+/- .399	ppm	55	N EcoLyzer-4	.880+/- .218	ppm
27	N Gnd Temp	44.019+/- 3.502	DEGR F	56	S GND PER	-4.378+/- 2.180	ppm
28	N CH4/Byron	1.327+/- .109	ppm	57	N EcoLyzer-5	.884+/- .679	ppm
29	N WV 74'	330.404+/- 21.149	DEGR AZ	58	S GND PAR	3.409+/- 2.202	ppm
30	N CD/Byron	.165+/- .077	ppm	59	N Rel Hum	81.306+/- .718	%
31	N 74' Temp	42.851+/- 3.066	DEGR F	60	S GND VER	.358+/- .919	mph
32	N CD2/Byron	384.520+/- 4.660	ppm	61	N Solar Rad	5.588+/- 3.501	W/m**2
35	N HA 74'	11.437+/- 4.233	mph	64	S VA 55'	.486+/- 1.863	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle [Deg]		
01	11 13 15	8.06+/- 3.93	336.8+/- 23.3	7.3+/- 19.0		
02	17 19 21	4.82+/- 2.83	313.8+/- 40.8	10.3+/- 31.7		
03	38 40 42	9.07+/- 3.22	328.6+/- 20.9	4.8+/- 10.1		
04	41 43 45	3.79+/- 2.14	284.0+/- 51.0	4.7+/- 23.7		
05	50 52 54	9.85+/- 3.49	333.0+/- 15.4	4.8+/- 8.6		
06	56 58 60	6.00+/- 2.31	322.7+/- 22.0	5.1+/- 11.9		

18:13:51 -- BEGIN END CALIBRATION NCO-2 GRD  
 18:18:43 -- BEGIN END CALIBRATION NCO-3 GRD  
 18:21:59 -- END OF END CAL. NCO-2  
 18:24:59 -- BEGIN END CAL. NCO-4  
 18:25:30 -- NCO-3 OFF LINE  
 18:29:35 -- BEGIN END CALIB. NCO-5  
 18:30:09 -- NCO-4 OFF LINE  
 18:35:50 -- NCO-5 OFF LINE  
 18:40:57 -- DRIFT CHECK ON DASIBI CD AND BYRON 401  
 Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 1962 vehicles averaging 55.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	57.4	89	51.0	114	55.8	46	53.5	36	49.0
Cat2	114	58.5	159	52.4	121	57.1	63	54.6	49	49.9
Cat3	17	59.3	22	59.1	13	59.0	7	54.8	6	52.8
Cat4	7	61.2	7	56.6	7	57.7	1	52.7	1	39.9
Cat5	1	64.3	5	59.1	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	62.5	99	54.0	93	55.1	56	54.1	38	43.8
Cat2	152	63.6	158	55.9	139	55.9	79	54.1	38	44.9
Cat3	7	64.3	22	55.4	14	57.4	6	48.7	2	38.5
Cat4	2	64.2	15	57.2	17	56.7	0	.0	1	36.5
Cat5	0	.0	2	60.6	2	61.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
54.3	706	36.0	56.0	1072	54.6	57.1	116	5.9	57.0	58	3.0	60.3	10	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.314+/-	3.434 mph	37	N VA 102'	-.060+/-	1.770 mph
12	N Dasibi CD	.544+/-	.111 ppm	38	S BOT PER	-6.951+/-	2.852 mph
13	N TOP PAR	2.819+/-	2.411 mph	39	N VA 74'	.324+/-	1.857 mph
14	N Dasibi 03	.023+/-	.001 ppm	40	S BOT PAR	3.724+/-	2.755 mph
15	N TDP VER	.295+/-	2.081 mph	41	N GND PER	-.168+/-	2.831 mph
16	N ND/TECD	*****+/-	***** ppm	42	S BOT VER	.550+/-	1.346 mph
17	N BOT PER	-3.518+/-	2.646 mph	43	N GND PAR	1.521+/-	2.392 mph
19	N BOT PAR	2.382+/-	2.055 mph	45	N GND VER	.178+/-	1.364 mph
20	N NO2/TECD	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BOT VER	.239+/-	1.693 mph	50	S TOP PER	-8.318+/-	3.165 mph
22	N ND/TECD	*****+/-	***** ppm	51	N Ecolyzer-2	1.238+/-	.064 ppm
23	N HA 102'	13.584+/-	3.458 mph	52	S TOP PAR	3.739+/-	2.641 mph
24	N THC/Byron	1.848+/-	.053 ppm	53	N Ecolyzer-3	1.162+/-	.303 ppm
25	N WV 102'	.335.902+/-	15.097 DEGR AZ	54	S TDP VER	.571+/-	1.451 mph
26	N NMHC/Byro	1.674+/-	.285 ppm	55	N Ecolyzer-4	.899+/-	.221 ppm
27	N Gnd Temp	42.592+/-	3.136 DEGR F	56	S GND PER	-8.513+/-	2.472 ppm
28	N CH4/Byron	1.248+/-	.079 ppm	57	N Ecolyzer-5	-.861+/-	.605 ppm
29	N WV 74'	332.248+/-	20.652 DEGR AZ	58	S GND PAR	2.909+/-	1.990 mph
30	N CD/Byron	.137+/-	.065 ppm	58	N Rel Hum	80.703+/-	.343 %
31	N 74' Temp	41.993+/-	3.172 DEGR F	60	S GND VER	.360+/-	.974 mph
32	N CO2/Byron	398.434+/-	9.878 ppm	61	N Solar Rad	2.861+/-	1.653 W/m**2
35	N HA 74'	11.855+/-	3.583 mph	64	S VA 55'	.577+/-	1.769 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	8.55+/-	3.31	338.9+/- 17.7
02	17 19 21	5.19+/-	2.29	323.9+/- 34.2
03	38 40 42	8.47+/-	2.86	331.4+/- 18.4
04	41 43 45	3.63+/-	2.08	282.2+/- 52.4
05	50 52 54	9.62+/-	3.17	335.6+/- 15.6
06	56 58 60	5.88+/-	2.30	325.8+/- 22.7

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1871 vehicles averaging 56.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	56.1	40	51.1	112	55.9	52	55.1	25	50.7
Cat2	124	58.2	190	51.6	134	56.8	48	57.3	43	50.7
Cat3	11	61.5	22	55.7	15	55.9	0	.0	3	50.5
Cat4	7	63.4	19	59.6	3	55.9	0	.0	1	41.0
Cat5	1	57.3	1	58.2	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	63.4	92	55.6	105	55.9	53	56.3	36	43.1
Cat2	163	64.9	157	56.3	112	56.5	72	55.8	25	45.6
Cat3	7	67.0	14	56.4	13	55.6	6	53.3	1	38.7
Cat4	8	66.2	10	59.0	9	58.8	2	57.5	1	38.3
Cat5	0	.0	1	61.7	2	61.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
55.4	646	34.5	56.6	1088	57.1	58.9	92	4.9	59.8	60	3.2	60.1	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-5.845+/-	3.222 mph	37	N VA 102'	.031+/-	1.950 mph
12	N Dasibi CD	.522+/-	.087 ppm	38	S BOT PER	-5.997+/-	2.347 mph
13	N TOP PAR	2.758+/-	2.461 mph	39	N VA 74'	.288+/-	1.799 mph
14	N Dasibi 03	.023+/-	.001 ppm	40	S BOT PAR	5.312+/-	2.649 mph
15	N TOP VER	.305+/-	1.675 mph	41	N GND PER	-.183+/-	2.652 mph
16	N ND/TECD	*****+/-	***** ppm	42	S BOT VER	.843+/-	1.389 mph
17	N BOT PER	-2.400+/-	2.424 mph	43	N GND PAR	1.579+/-	2.703 mph
19	N BOT PAR	2.619+/-	2.235 mph	45	N GND VER	.139+/-	1.194 mph
20	N NO2/TECD	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BOT VER	.070+/-	1.813 mph	50	S TOP PER	-7.119+/-	2.539 mph
22	N ND/TECD	*****+/-	***** ppm	51	N Ecolyzer-2	*****+/-	***** ppm
23	N HA 102'	12.446+/-	3.222 mph	52	S TOP PAR	4.553+/-	2.469 mph
24	N THC/Byron	1.829+/-	.082 ppm	53	N Ecolyzer-3	*****+/-	***** ppm
25	N WV 102'	330.302+/-	14.490 DEGR AZ	54	S TDP VER	.714+/-	1.388 mph
26	N NMHC/Byro	1.842+/-	.197 ppm	55	N Ecolyzer-4	*****+/-	***** ppm
27	N Gnd Temp	44.078+/-	2.787 DEGR F	56	S GND PER	-4.024+/-	1.930 mph
28	N CH4/Byron	1.287+/-	.064 ppm	57	N Ecolyzer-5	.704+/-	.749 ppm
29	N WV 74'	321.785+/-	22.930 DEGR AZ	58	S GND PAR	3.957+/-	2.079 mph

30	N CD/Byron	.241+/-	.089	ppm	59	N Rel Hum	79.938+/-	.327	%
31	N 74' Temp	42.410+/-	2.825	DEGR F	60	S GND VER	.554+/-	.726	mph
32	N CD2/Byron	408.484+/-	3.322	ppm	61	N Solar Rad	8.811+/-	4.559	W/m**2
35	N HA 74'	10.080+/-	4.281	mph	64	S VA 55'	.570+/-	2.120	mph

UUV Vector Calculations									
UUV	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		7.13+/- 3.11	333.4+/- 26.6	6.2+/-	20.3	
02	17	19	21		4.64+/- 2.26	305.8+/- 38.4	8.9+/-	30.8	
03	38	40	42		8.49+/- 2.61	319.4+/- 18.1	7.1+/-	11.0	
04	41	43	45		3.53+/- 2.29	292.5+/- 53.7	2.9+/-	21.4	
05	50	52	54		8.91+/- 2.61	327.4+/- 15.6	6.1+/-	9.8	
06	56	58	60		5.89+/- 2.14	316.3+/- 20.9	6.0+/-	7.9	

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 1701 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	56.9	93	50.4	107	56.1	34	54.9	25	50.3
Cat2	113	58.3	158	52.4	114	57.0	34	56.6	32	49.4
Cat3	8	60.9	15	56.2	12	57.7	2	59.8	4	53.4
Cat4	7	62.6	9	56.2	5	56.0	1	58.7	1	47.3
Cat5	3	61.0	3	62.3	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	63.2	91	57.5	82	56.7	54	56.4	14	43.5
Cat2	183	64.9	123	57.4	102	58.2	48	57.5	14	45.2
Cat3	7	63.7	16	58.2	12	59.0	6	58.9	0	.0
Cat4	5	65.5	11	58.2	10	62.3	1	54.6	0	.0
Cat5	1	69.3	2	60.4	1	62.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	640	37.6	57.7	921	54.1	58.6	80	4.7	59.5	50	2.9	62.2	10	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-8.558+/- 3.287	mph	37	N VA 102'	-4.403+/- 1.930	mph
12	N Dasibi CD	.589+/- .128	ppm	38	S BOT PER	-6.572+/- 2.515	mph
13	N TOP PAR	3.263+/- 2.376	mph	39	N VA 74'	-.164+/- 1.711	mph
14	N Dasibi D3	.023+/- .001	ppm	40	S BOT PAR	4.078+/- 2.531	mph
15	N TOP VER	-.213+/- 1.818	mph	41	N GND PER	.079+/- 2.552	mph
16	N NDX/TECD	*****	ppm	42	S BOT VER	1.320+/- 1.226	mph
17	N BOT PER	-2.937+/- 2.699	mph	43	N GND PAR	1.298+/- 1.599	mph
19	N BOT PAR	2.707+/- 1.933	ppm	45	N GND VER	1.07+/- 1.076	mph
20	N ND2/TECD	*****	ppm	48	N Ecolyzer-1	*****	ppm
21	N BOT VER	-.333+/- 1.625	mph	50	S TOP PER	-7.319+/- 2.522	ppm
22	N ND/TECD	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	11.217+/- 2.838	mph	52	S TOP PAR	3.981+/- 2.127	mph
24	N THC/Byron	1.874+/- .046	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	332.115+/- 11.805	DEGR AZ	54	S TOP VER	.157+/- 1.284	mph
26	N NMHC/Byro	1.288+/- .262	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	41.837+/- 3.766	DEGR F	56	S GND PER	-3.975+/- 2.007	mph
28	N CH4/Byron	1.451+/- .070	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	327.522+/- 16.627	DEGR AZ	58	S GND PAR	3.045+/- 1.786	mph
30	N CD/Byron	.171+/- .095	ppm	59	N Rel Hum	79.059+/- .588	%
31	N 74' Temp	43.192+/- 3.116	DEGR F	60	S GND VER	.440+/- .831	mph
32	N CD2/Byron	403.232+/- 3.160	ppm	61	N Solar Rad	11.263+/- 7.737	W/m**2
35	N HA 74'	10.291+/- 3.700	mph	64	S VA 55'	-.039+/- 1.496	mph

UUV Vector Calculations									
UUV	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		7.88+/- 3.38	334.8+/- 21.0	3.6+/-	17.7	
02	17	19	21		4.78+/- 2.62	309.1+/- 33.6	5.0+/-	27.8	
03	38	40	42		8.23+/- 2.53	328.0+/- 17.9	2.1+/-	9.2	
04	41	43	45		2.08+/- 1.61	287.8+/- 52.1	3.2+/-	27.1	
05	50	52	54		8.72+/- 2.41	330.5+/- 14.9	1.9+/-	9.0	
06	56	58	60		5.36+/- 2.09	322.2+/- 19.7	5.5+/-	10.0	

Average for 15 minute period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 1554 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	57.5	89	51.6	85	56.9	39	56.3	22	50.4
Cat2	102	59.0	119	52.7	118	57.2	45	57.7	36	50.3
Cat3	12	60.8	25	57.6	9	58.6	3	58.5	0	.0
Cat4	4	63.9	6	58.7	8	56.3	1	53.7	1	40.4
Cat5	1	67.1	0	.0	1	60.8	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	63.7	89	56.3	84	56.9	50	55.3	15	46.2
Cat2	131	65.7	118	57.4	93	58.8	45	57.0	12	44.5
Cat3	6	64.9	19	58.2	7	62.4	2	59.3	1	48.3
Cat4	5	65.7	5	60.1	3	57.1	1	74.8	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	615	39.6	57.9	819	52.7	59.2	84	5.4	59.6	34	2.2	63.9	2	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.519+/- 3.017	mph	37	N VA 102'	-.113+/- 1.548	mph
12	N Dasibi CD	*****	ppm	38	S BOT PER	-5.073+/- 2.080	mph
13	N TOP PAR	1.325+/- 2.147	mph	39	N VA 74'	.280+/- 1.420	mph
14	N Dasibi D3	.017+/- .002	ppm	40	S BOT PAR	2.513+/- 1.851	mph
15	N TOP VER	.188+/- 1.365	mph	41	N GND PER	.180+/- 2.109	mph
16	N NDX/TECD	*****	ppm	42	S BOT VER	.542+/- .927	mph
17	N BOT PER	-2.140+/- 2.041	mph	43	N GND PAR	1.133+/- 1.831	mph
19	N BOT PAR	1.397+/- 1.362	ppm	45	N GND VER	.232+/- .922	mph
20	N ND2/TECD	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.245+/- 1.388	mph	50	S TOP PER	-6.127+/- 2.168	mph

22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.967+/- 2.469	mph	52	S TOP PAR	2.409+/- 1.783	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	340.235+/- 16.068	DEGR AZ	54	S TDP VER	556+/- 1.044	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	43.895+/- 3.889	DEGR F	56	S GND PER	-2.182+/- 1.435	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	334.998+/- 22.383	DEGR AZ	58	S GND PAR	2.107+/- 1.415	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	79.352+/- .367	mph
31	N 74' Temp	42.540+/- 3.723	DEGR F	60	S GND VER	307+/- .757	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	11.890+/- 8.559	W/m <sup>2</sup>
35	N HA 74'	7.662+/- 3.254	mph	64	S VA 55'	.469+/- 1.415	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.40+/- 2.91	339.5+/- 31.2	10.2+/- 24.9		
02	17 19 21	3.36+/- 1.72	315.0+/- 40.3	11.9+/- 29.3		
03	38 40 42	6.08+/- 2.00	333.1+/- 18.3	6.5+/- 12.5		
04	41 43 45	2.64+/- 1.71	277.9+/- 51.7	6.7+/- 29.5		
05	50 52 54	6.91+/- 2.17	338.2+/- 14.8	5.9+/- 10.5		
06	56 58 60	3.89+/- 1.40	323.5+/- 24.6	7.0+/- 12.0		

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 7088 vehicles averaging 56.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	287	57.0	311	51.0	418	56.1	171	54.9	108	50.0
Cat2	453	58.5	626	52.2	487	57.0	190	58.4	160	50.1
Cat3	48	60.4	84	57.3	49	57.7	12	58.6	13	52.4
Cat4	25	62.6	41	58.2	23	58.6	3	55.0	4	42.1
Cat5	6	62.0	9	60.1	1	60.8	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	257	63.3	371	55.3	364	56.1	217	55.5	103	43.8
Cat2	629	64.8	556	56.7	446	57.2	244	55.8	89	45.1
Cat3	27	65.0	71	57.2	46	58.1	18	53.7	4	41.0
Cat4	20	65.7	41	58.2	39	58.6	4	61.1	2	37.4
Cat5	1	69.3	5	60.7	5	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	2607	36.8	57.0	3880	54.7	57.8	372	5.2	58.9	202	2.8	61.2	27	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.059+/- 3.390	mph	37	N VA 102'	-.080+/- 1.814	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	-6.148+/- 2.554	mph
13	N TOP PAR	2.541+/- 2.453	mph	39	N VA 74'	.177+/- 1.713	mph
14	N Dasibi 03	.022+/- .003	ppm	40	S BOT PAR	3.907+/- 2.656	mph
15	N TOP VER	.144+/- 1.763	mph	41	N GND PER	-.023+/- 2.544	ppm
16	N ND/TECD	*****+/-*****	ppm	42	S BOT VER	.564+/- 1.247	mph
17	N BDT PER	-2.749+/- 2.512	mph	43	N GND PAR	1.383+/- 2.174	ppm
19	N BDT PAR	2.277+/- 1.986	mph	45	N GND VER	.164+/- 1.149	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.056+/- 1.646	mph	50	S TDP PER	-7.220+/- 2.726	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	11.553+/- 3.465	mph	52	S TDP PAR	3.671+/- 2.402	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	334.618+/- 14.887	DEGR AZ	54	S TOP VER	500+/- 1.315	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	43.100+/- 3.412	DEGR F	56	S GND PER	-3.823+/- 2.087	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	329.142+/- 21.281	DEGR AZ	58	S GND PAR	3.005+/- 1.942	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	79.783+/- .754	mph
31	N 74' Temp	42.534+/- 3.172	DEGR F	60	S GND VER	.415+/- .831	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	8.731+/- 6.564	W/m <sup>2</sup>
35	N HA 74'	9.972+/- 4.000	mph	64	S VA 55'	.394+/- 1.737	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.24+/- 3.38	336.6+/- 24.8	6.5+/- 20.9		
02	17 18 21	4.49+/- 2.34	313.5+/- 37.1	7.5+/- 27.9		
03	38 40 42	7.82+/- 2.70	328.0+/- 18.3	5.4+/- 10.9		
04	41 43 45	3.21+/- 1.97	279.5+/- 52.4	4.8+/- 26.7		
05	50 52 54	8.54+/- 2.79	332.9+/- 15.7	4.8+/- 10.1		
06	56 58 60	5.28+/- 2.17	321.9+/- 22.2	6.1+/- 10.3		

Average for 15 minute period ending at 19:15:00
Traffic Data
Total Traffic = 1438 Vehicles averaging 57.5 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows for Cat 1 through Cat 5, showing No. and Spd.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows for Cat 1 through Cat 5, showing No. and Spd.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows for Spd., Total, %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their values.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows vector calculations for channels 01-06.

Average for 15 minute period ending at 19:30:00
Traffic Data
Total Traffic = 1365 Vehicles averaging 57.8 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows for Cat 1 through Cat 5, showing No. and Spd.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows for Cat 1 through Cat 5, showing No. and Spd.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows for Spd., Total, %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various radar channels and their values.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows vector calculations for channels 01-06.

01	11	13	15	5.83+/-	2.81	335.2+/-	23.6	6.7+/-	20.3
02	17	19	21	3.51+/-	2.01	315.0+/-	40.6	6.3+/-	30.6
03	38	40	42	6.81+/-	2.17	329.8+/-	19.5	4.7+/-	10.0
04	41	43	45	3.24+/-	2.10	251.8+/-	54.1	3.5+/-	24.4
05	50	52	54	7.32+/-	2.26	336.0+/-	16.4	4.6+/-	9.4
06	58	58	60	4.22+/-	1.55	319.4+/-	21.1	6.3+/-	10.5

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1242 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	55.9	96	51.8	81	57.6	33	56.7	24	51.2
Cat2	62	58.5	88	53.4	89	56.1	34	56.7	37	50.7
Cat3	8	57.1	6	55.8	10	59.7	2	74.6	0	0
Cat4	2	63.2	3	54.9	3	52.7	0	0	0	0
Cat5	1	94.3	0	0	2	66.3	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	64.4	78	56.6	71	56.9	36	55.9	14	45.7
Cat2	157	66.4	90	57.7	49	58.8	35	57.9	9	44.5
Cat3	4	66.6	10	56.2	3	59.4	0	0	1	42.6
Cat4	4	73.0	7	58.3	3	56.3	0	0	0	0
Cat5	0	0	3	61.5	1	52.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	519	41.8	58.8	650	52.3	59.3	44	3.5	59.9	22	1.8	66.2	7	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.034+/-	2.570	37	N VA 102'	.202+/-	1.809
12	N Dcs1d1 CO	*****		38	S BOT PER	-4.201+/-	1.610
13	N TOP PAR	2.298+/-	1.706	39	N VA 74'	.313+/-	1.289
14	N Dcs1d1 D3	.018+/-	1.002	40	S BOT PAR	3.747+/-	1.950
15	N TOP VER	.271+/-	1.429	41	N GND PER	.599+/-	1.840
16	N ND/TECD	*****		42	S BOT VER	.547+/-	.789
17	N BOT PER	-1.122+/-	1.911	43	N GND PAR	1.346+/-	1.844
18	N BOT PAR	1.788+/-	1.588	45	N GND VER	.070+/-	.857
20	N NO2/TECD	*****		49	N EcoLyzer-1	*****	
21	N BOT VER	.089+/-	1.271	50	S TOP PER	-4.954+/-	2.042
22	N NO/TECD	*****		51	N EcoLyzer-2	*****	
23	N HA 102'	8.134+/-	2.225	52	S TOP PAR	3.334+/-	1.622
24	N THC/Byron	*****		53	N EcoLyzer-3	*****	
25	N WV 102'	328.846+/-	17.284	54	S TOP VER	.618+/-	.946
26	N NMHC/Byro	*****		55	N EcoLyzer-4	*****	
27	N Gnd Temp	43.530+/-	2.578	56	S GND PER	-2.610+/-	1.882
28	N CH4/Byron	*****		57	N EcoLyzer-5	*****	
29	N WV 74'	320.778+/-	24.182	58	S GND PAR	2.728+/-	1.485
30	N CO/Byron	*****		59	N Rel Hum	79.873+/-	.471
31	N 74' Temp	40.847+/-	2.883	60	S GND VER	.442+/-	.529
32	N CO2/Byron	*****		61	N Solar Rad	8.588+/-	6.317
35	N HA 74'	6.394+/-	2.978	64	S VA 55'	.541+/-	1.353

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	5.19+/-	2.55	327.5+/-	22.0
02	17 19 21	2.98+/-	1.92	289.3+/-	42.6
03	38 40 42	5.97+/-	1.78	319.7+/-	17.4
04	41 43 45	2.58+/-	1.38	249.1+/-	49.5
05	50 52 54	6.28+/-	2.24	326.4+/-	14.6
06	58 58 60	4.13+/-	1.61	313.1+/-	23.0

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1074 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	56.5	71	52.1	71	56.9	29	54.8	25	50.6
Cat2	56	58.7	79	53.2	72	58.2	33	55.7	26	47.5
Cat3	2	58.8	11	56.2	9	57.2	1	54.0	1	44.4
Cat4	4	62.1	6	59.3	5	56.0	1	56.7	0	0
Cat5	0	0	1	58.2	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	65.0	58	58.0	53	59.2	22	57.5	12	46.7
Cat2	120	68.2	75	58.9	48	59.8	34	58.3	7	42.5
Cat3	2	67.7	11	59.5	6	68.1	0	0	1	47.0
Cat4	3	67.4	4	68.1	4	58.7	0	0	0	0
Cat5	0	0	1	60.7	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	450	41.9	58.7	551	51.3	59.0	44	4.1	60.2	27	2.5	59.5	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.174+/-	2.943	37	N VA 102'	.285+/-	1.750
12	N Dcs1d1 CO	*****		38	S BOT PER	-5.111+/-	2.320
13	N TOP PAR	2.203+/-	2.198	39	N VA 74'	.478+/-	1.522
14	N Dcs1d1 D3	.022+/-	1.001	40	S BOT PAR	4.887+/-	2.434
15	N TOP VER	.385+/-	1.784	41	N GND PER	1.037+/-	2.062
16	N ND/TECD	*****		42	S BOT VER	.498+/-	.971
17	N BOT PER	-1.288+/-	1.847	43	N GND PAR	2.150+/-	1.813
18	N BOT PAR	1.905+/-	2.152	45	N GND VER	.389+/-	1.186
20	N NO2/TECD	*****		49	N EcoLyzer-1	*****	
21	N BOT VER	.249+/-	1.618	50	S TOP PER	-6.086+/-	2.522
22	N NO/TECD	*****		51	N EcoLyzer-2	*****	
23	N HA 102'	8.983+/-	3.378	52	S TOP PAR	4.139+/-	2.339
24	N THC/Byron	*****		53	N EcoLyzer-3	*****	
25	N WV 102'	329.974+/-	15.016	54	S TOP VER	.330+/-	1.099
26	N NMHC/Byro	*****		55	N EcoLyzer-4	*****	
27	N Gnd Temp	43.296+/-	3.056	56	S GND PER	-3.048+/-	1.894
28	N CH4/Byron	*****		57	N EcoLyzer-5	*****	
29	N WV 74'	322.048+/-	24.914	58	S GND PAR	3.290+/-	1.753

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	80.150+/-	.422	%
31	N 74' Temp	42.254+/- 3.645	DEGR F	60	S GND VER	.434+/-	.665	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	9.447+/-	6.851	W/m**2
35	N HA 74'	7.078+/- 3.962	mph	64	S VA 55'	.139+/-	1.465	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	5.58+/- 2.81	330.3+/- 33.5	10.9+/- 25.6		
02	17	19	21	3.38+/- 2.14	295.2+/- 44.2	16.4+/- 35.5		
03	38	40	42	7.39+/- 2.38	317.8+/- 18.1	5.3+/- 8.3		
04	41	43	45	3.30+/- 2.04	248.7+/- 41.1	3.7+/- 24.1		
05	50	52	54	7.77+/- 2.60	325.6+/- 17.1	3.5+/- 9.0		
06	56	58	60	4.83+/- 1.99	312.8+/- 22.1	5.5+/- 8.9		

Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 5119 Vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	215	56.6	358	52.0	352	57.3	138	55.0	88	50.5
Cat 2	244	58.6	352	53.5	371	58.2	146	55.9	126	50.0
Cat 3	28	58.8	44	56.9	36	58.5	4	63.6	4	45.7
Cat 4	12	63.0	13	55.7	14	57.2	3	56.2	1	54.6
Cat 5	4	69.2	5	80.1	2	66.3	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	224	64.4	290	57.0	281	57.7	143	56.6	81	44.5
Cat 2	573	66.0	389	58.3	256	59.2	145	57.7	39	44.2
Cat 3	16	65.7	51	58.6	22	61.7	8	59.9	3	42.7
Cat 4	15	68.4	21	80.1	12	58.9	0	0	0	0
Cat 5	1	65.8	8	62.3	1	52.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	2150	42.0	58.7	2641	51.6	58.8	216	4.2	60.2	91	1.8	63.2	21	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.526+/- 2.753	mph	37	N VA 102'	.186+/- 1.719	mph
12	N Das1bi CD	*****+/-*****	ppm	38	S BOT PER	-4.840+/- 2.172	mph
13	N TOP PAR	2.121+/- 1.304	mph	39	N VA 74'	.376+/- 1.473	mph
14	N Das1bi D3	.018+/- .003	ppm	40	S BOT PAR	3.502+/- 2.291	mph
15	N TOP VER	.289+/- 1.495	mph	41	N GND PER	.568+/- 2.251	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.517+/- .907	mph
17	N BOT PER	-1.871+/- 2.102	mph	43	N GND PAR	1.479+/- 1.915	mph
19	N BOT PAR	1.800+/- 1.915	mph	45	N GND VER	.249+/- 1.089	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.128+/- 1.381	mph	50	S TOP PER	-5.807+/- 2.342	mph
22	N NO/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	8.815+/- 2.718	mph	52	S TOP PAR	3.065+/- 2.221	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	333.259+/- 17.954	DEGR AZ	54	S TOP VER	.473+/- 1.055	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	43.433+/- 3.069	DEGR F	56	S GND PER	-2.753+/- 1.686	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	325.870+/- 23.640	DEGR AZ	58	S GND PAR	2.728+/- 1.589	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	79.893+/- .417	%
31	N 74' Temp	41.407+/- 3.605	DEGR F	60	S GND VER	.401+/- .610	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	10.139+/- 7.047	W/m**2
35	N HA 74'	7.214+/- 3.551	mph	64	S VA 55'	.347+/- 1.387	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	5.82+/- 2.84	333.1+/- 26.1	8.4+/- 20.8		
02	17	19	21	3.42+/- 2.09	304.8+/- 42.8	9.9+/- 31.4		
03	38	40	42	6.49+/- 2.15	324.3+/- 20.2	5.8+/- 10.2		
04	41	43	45	2.97+/- 1.87	254.9+/- 50.5	5.7+/- 24.7		
05	50	52	54	7.00+/- 2.40	332.1+/- 17.8	5.1+/- 10.2		
06	56	58	60	4.24+/- 1.72	315.5+/- 22.8	6.6+/- 10.4		

Average for 15 minute period ending at 20:15:00  
 Traffic Data  
 Total Traffic : 954 Vehicles averaging 57.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	55.9	81	51.9	72	56.6	23	57.1	16	50.3
Cat2	38	57.4	49	53.6	71	58.0	31	56.3	23	48.0
Cat3	4	57.8	10	55.6	8	60.3	1	56.6	0	.0
Cat4	1	61.1	1	55.8	4	56.7	0	.0	0	.0
Cat5	0	.0	1	62.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	65.1	68	58.0	52	57.9	25	57.0	17	46.1
Cat2	82	66.1	64	58.1	50	58.2	34	58.9	9	44.4
Cat3	3	67.2	5	59.8	4	59.8	2	61.5	0	.0
Cat4	6	69.1	5	60.9	5	60.9	0	.0	1	43.7
Cat5	1	61.8	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	441	46.2	58.1	451	47.3	59.1	37	3.9	61.3	23	2.4	61.9	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.067+/-	3.195	37	N VA 102'	.060+/-	1.536
12	N DaSibi CO	*****+/-	*****	38	S BDT PER	-5.724+/-	2.448
13	N TOP PAR	1.985+/-	2.172	39	N VA 74'	.190+/-	1.592
14	N DaSibi 03	.023+/-	.001	40	S BDT PAR	3.998+/-	2.584
15	N TDP VER	.091+/-	1.739	41	N GND PER	.699+/-	2.838
16	N NDX/TECO	*****+/-	*****	42	S BDT VER	.502+/-	.882
17	N BDT PER	-1.859+/-	2.017	43	N GND PAR	1.935+/-	1.744
19	N BDT PAR	1.725+/-	1.875	45	N GND VER	.286+/-	1.168
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	.062+/-	1.731	50	S TOP PER	-6.429+/-	2.781
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	9.808+/-	3.338	52	S TOP PAR	3.303+/-	2.011
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WY 102'	330.921+/-	14.299	54	S TOP VER	.458+/-	1.046
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	42.438+/-	3.163	56	S GND PER	-3.542+/-	1.688
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WY 74'	328.344+/-	22.523	58	S GND PAR	3.053+/-	1.907
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	79.759+/-	.846
31	N 74' Temp	42.879+/-	3.083	60	S GND VER	.358+/-	.662
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	13.307+/-	11.746
35	N HA 74'	8.038+/-	4.415	64	S VA 55'	.461+/-	1.383

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.07+/- 3.19	337.5+/- 26.5	4.1+/- 20.4
02	17 19 21	3.48+/- 2.14	310.9+/- 36.4	3.7+/- 29.3
03	38 40 42	7.47+/- 2.58	325.2+/- 18.8	4.6+/- 8.0
04	41 43 45	3.63+/- 1.98	254.8+/- 45.8	5.8+/- 23.4
05	50 52 54	7.59+/- 2.80	332.2+/- 15.5	4.2+/- 9.4
06	56 58 60	5.12+/- 1.65	320.0+/- 22.1	5.5+/- 9.4

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic : 1026 Vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	56.2	73	51.5	79	56.8	32	56.0	21	50.4
Cat2	57	57.9	78	52.6	72	57.9	26	56.2	19	47.1
Cat3	1	58.9	14	56.4	3	56.7	1	53.3	1	49.4
Cat4	2	67.5	6	56.3	2	51.2	1	54.4	2	44.5
Cat5	0	.0	1	60.5	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	66.2	62	57.5	50	57.5	24	55.7	9	45.2
Cat2	91	68.1	92	59.7	33	60.5	29	59.3	12	46.7
Cat3	6	70.3	5	58.5	4	60.2	1	52.0	0	.0
Cat4	1	70.1	4	59.2	4	63.7	2	56.3	0	.0
Cat5	0	.0	1	68.7	1	65.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	454	44.2	58.7	509	49.6	59.1	36	3.5	58.0	24	2.3	64.9	3	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-5.128+/-	3.339	37	N VA 102'	.012+/-	1.928
12	N DaSibi CO	*****+/-	*****	38	S BDT PER	-5.831+/-	2.280
13	N TOP PAR	2.781+/-	2.571	39	N VA 74'	.395+/-	1.826
14	N DaSibi 03	.024+/-	.001	40	S BDT PAR	5.630+/-	3.377
15	N TDP VER	.191+/-	1.846	41	N GND PER	.538+/-	2.514
16	N NDX/TECO	*****+/-	*****	42	S BDT VER	.584+/-	1.035
17	N BDT PER	-2.198+/-	2.657	43	N GND PAR	2.384+/-	2.091
19	N BDT PAR	2.481+/-	2.453	45	N GND VER	.382+/-	1.106
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	.084+/-	1.658	50	S TOP PER	-6.723+/-	2.216
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	11.415+/-	3.681	52	S TOP PAR	5.086+/-	3.217
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WY 102'	326.443+/-	16.855	54	S TOP VER	.485+/-	1.166
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	43.791+/-	3.041	56	S GND PER	-3.848+/-	2.299
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WY 74'	320.983+/-	22.212	58	S GND PAR	3.829+/-	2.104
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	79.645+/-	.564
31	N 74' Temp	43.426+/-	4.122	60	S GND VER	.498+/-	.667
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	10.400+/-	6.697
35	N HA 74'	9.200+/-	4.761	64	S VA 55'	.347+/-	1.730

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	6.72+/-	3.25	327.5+/-	27.8	6.9+/-	24.0
02	17	19	21	4.51+/-	2.58	302.9+/-	39.4	6.0+/-	33.4
03	38	40	42	8.55+/-	3.23	318.8+/-	17.0	5.0+/-	7.9
04	41	43	45	3.85+/-	1.71	259.7+/-	47.3	5.8+/-	21.8
05	50	52	54	8.86+/-	3.09	324.9+/-	15.8	4.5+/-	8.6
06	56	58	60	5.76+/-	2.56	316.5+/-	18.5	6.7+/-	10.0

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 937 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	55.2	74	51.2	69	56.9	25	55.0	20	48.6
Cat2	35	58.0	77	52.9	95	57.1	25	57.8	16	51.9
Cat3	3	62.9	10	59.2	2	60.6	1	52.0	0	.0
Cat4	0	.0	0	.0	2	57.3	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	64.9	54	58.0	40	59.2	21	57.1	10	47.9
Cat2	104	67.3	78	59.7	39	59.4	17	58.2	3	43.7
Cat3	4	65.5	5	55.5	3	67.2	1	57.1	1	46.2
Cat4	5	88.5	0	.0	3	64.4	0	59.0	0	.0
Cat5	1	79.8	1	69.6	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	405	43.2	59.1	489	52.2	59.9	30	3.2	64.5	11	1.2	74.8	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-5.260+/- 3.476	mph	37	N VA 102'	-.086+/- 1.853	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	-6.325+/- 2.684	mph
13	N TDP PAR	2.929+/- 2.354	mph	39	N VA 74'	.315+/- 1.839	mph
14	N Dasibi D3	.025+/- .001	ppm	40	S BOT PAR	4.094+/- 2.265	mph
15	N TDP VER	.008+/- 1.878	mph	41	N GND PER	.755+/- 2.576	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.586+/- 1.029	mph
17	N BOT PER	-2.068+/- 2.290	mph	43	N GND PAR	1.474+/- 1.985	mph
19	N BOT PAR	2.156+/- 1.939	mph	45	N GND VER	.277+/- 1.112	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.102+/- 1.643	mph	50	S TDP PER	-7.101+/- 2.889	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	11.942+/- 3.561	mph	52	S TDP PAR	4.184+/- 2.064	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	328.134+/- 13.813	DEGR AZ	54	S TDP VER	.703+/- 1.049	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	43.374+/- 3.374	DEGR F	56	S GND PER	-3.678+/- 1.757	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	319.904+/- 22.762	DEGR AZ	58	S GND PAR	2.833+/- 1.658	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	79.106+/- .512	%
31	N 74' Temp	42.176+/- 4.052	DEGR F	60	S GND VER	.396+/- .712	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	11.082+/- 6.973	W/m**2
35	N HA 74'	9.719+/- 4.441	mph	64	S VA 55'	.533+/- 1.561	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.76+/- 3.39	330.9+/- 28.7	7.3+/- 24.1
02	17 19 21	3.94+/- 2.28	307.4+/- 38.8	11.0+/- 33.1
03	38 40 42	8.00+/- 2.54	326.4+/- 17.2	5.1+/- 9.3
04	41 43 45	3.29+/- 1.85	254.8+/- 50.5	4.8+/- 26.0
05	50 52 54	8.58+/- 2.82	328.6+/- 13.9	5.7+/- 8.2
06	56 58 60	5.05+/- 1.67	322.2+/- 22.4	5.6+/- 8.6

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TDP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TDP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TDP PER	*****+/-*****	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TDP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	-15.8+/- 10.6	34.6+/-*****
02	17 19 21	*****+/-*****	-18.8+/- 17.5	189.7+/-*****
03	38 40 42	*****+/-*****	-19.1+/- 14.1	161.0+/-*****
04	41 43 45	94.76+/-*****	-11.8+/- 11.7	315.9+/-*****
05	50 52 54	*****+/-*****	-17.7+/- 11.7	128.6+/-*****
06	56 58 60	*****+/-*****	-19.0+/- 15.7	166.7+/-*****

Average for hourly period ending at 21:00:00  
Traffic Data  
 Total Traffic = 3212 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	151	55.8	253	51.7	242	56.9	91	55.9	60	49.9
Cat 2	146	57.7	228	53.0	257	57.6	88	56.7	62	49.0
Cat 3	10	59.7	35	56.8	13	59.5	4	52.4	1	49.4
Cat 4	3	65.4	8	56.6	8	55.5	1	54.4	2	44.5
Cat 5	0	.0	2	61.3	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	162	65.4	209	58.0	158	58.2	79	56.8	39	46.3
Cat 2	309	67.3	249	59.3	132	59.2	89	58.9	27	45.8
Cat 3	13	68.1	16	58.9	11	62.0	4	58.0	1	46.2
Cat 4	12	68.9	12	60.7	15	62.8	4	58.1	1	43.7
Cat 5	2	70.8	2	69.2	1	65.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	1444	45.0	58.7	1587	49.4	59.4	108	3.4	60.8	66	2.1	66.8	7	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.148+/- 3.320	mph	37	N VA 102'	.033+/- 1.775	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	-5.965+/- 2.460	mph
13	N TDP PAR	2.678+/- 2.492	mph	39	N VA 74'	.288+/- 1.705	mph
14	N Dasibi D3	.024+/- .002	ppm	40	S BDT PAR	4.706+/- 2.857	mph
15	N TDP VER	.060+/- 1.787	mph	41	N GND PER	.754+/- 2.605	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.551+/- .998	mph
17	N BDT PER	-2.030+/- 2.367	mph	43	N GND PAR	1.894+/- 1.962	mph
19	N BDT PAR	2.170+/- 2.200	mph	45	N GND VER	.294+/- 1.136	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.085+/- 1.656	mph	50	S TDP PER	-6.723+/- 2.588	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	11.080+/- 3.574	mph	52	S TDP PAR	4.289+/- 2.528	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	328.039+/- 14.862	DEGR AZ	54	S TDP VER	.527+/- 1.113	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	43.200+/- 3.174	DEGR F	56	S GND PER	-3.698+/- 1.945	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	322.557+/- 22.239	DEGR AZ	58	S GND PAR	3.347+/- 1.992	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	79.504+/- .703	%
31	N 74' Temp	42.827+/- 3.734	DEGR F	60	S GND VER	.434+/- .684	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	11.595+/- 8.673	W/m <sup>2</sup>
35	N HA 74'	8.983+/- 4.482	mph	64	S VA 55'	.430+/- 1.589	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.94+/- 3.37	331.2+/- 27.0	5.6+/- 22.5
02	17 19 21	4.00+/- 2.47	306.2+/- 38.2	6.9+/- 32.1
03	38 40 42	8.09+/- 2.80	322.7+/- 17.8	5.0+/- 8.3
04	41 43 45	3.57+/- 1.86	252.9+/- 47.9	6.0+/- 24.3
05	50 52 54	8.36+/- 2.88	327.7+/- 15.0	4.7+/- 8.7
06	56 58 60	5.40+/- 2.02	318.8+/- 21.8	5.9+/- 9.3

Daily Hourly Average Maximums for each Active Channel

<u>channel</u>	<u>Time</u>	<u>Value</u>
01	08:00:00	1155 vehicles
02	08:00:00	1214 vehicles
03	18:00:00	1309 vehicles
04	17:00:00	1552 vehicles
05	18:00:00	1285 vehicles
06	18:00:00	1384 vehicles
07	08:00:00	1059 vehicles
08	08:00:00	968 vehicles
09	08:00:00	508 vehicles
10	17:00:00	515 vehicles
11	00:00:00	.000 mph
12	09:00:00	.896 ppm
13	14:00:00	4.781 mph
14	15:00:00	.028 ppm
15	18:00:00	.372 mph
16	00:00:00	.000 ppm
17	00:00:00	.000 mph
18	14:00:00	3.908 mph
20	00:00:00	.000 ppm
21	18:00:00	.344 mph
22	00:00:00	.000 ppm
23	14:00:00	14.858 mph
24	10:00:00	2.018 ppm
25	09:00:00	358.537 DEGR AZ
26	15:00:00	1.844 ppm
27	13:00:00	46.716 DEGR F
28	08:00:00	1.401 ppm
29	09:00:00	351.507 DEGR AZ
30	08:00:00	.412 ppm
31	13:00:00	45.159 DEGR F
32	10:00:00	395.681 ppm
35	15:00:00	11.995 mph
37	13:00:00	.240 mph
38	00:00:00	.000 mph
39	20:00:00	.376 mph
40	14:00:00	7.523 mph
41	21:00:00	.754 mph
42	13:00:00	.723 mph
43	14:00:00	3.553 mph
45	21:00:00	.294 mph
49	00:00:00	.000 ppm
50	00:00:00	.000 mph
51	17:00:00	1.821 ppm
52	14:00:00	7.185 mph
53	08:00:00	1.320 ppm
54	21:00:00	.527 mph
55	09:00:00	1.120 ppm
56	00:00:00	.000 mph
57	09:00:00	1.373 ppm
58	14:00:00	5.459 mph
59	08:00:00	98.718 %
60	14:00:00	.568 mph
61	12:00:00	173.569 W/m=*2
64	13:00:00	.504 mph

NDTE: All times in the maximums are ending times for the interval

Data for Dec. 06, 1984  
 12:35:13 -- 12/06/84  
 12:35:14 -- Data run of 12/06/84. This is the 6th file of tape ZX1320. Operators are Michael  
 12:35:15 -- Hlavinka and Guy Donaldson. Winds are northerly and sky is pt. cldy. to cl  
 12:35:16 -- ear. Will try to have all instruments are north side of road up today. Cylinder  
 12:35:17 -- span concentrations are as follow: NO=100ppm; DASIBI CO=6.5 ppm; ECOLYZER=10  
 12:35:18 -- .4 ppm; BYRON--THC=134-135 ppm, NMHC=75 ppm, (CO2=80 ppm, CH4=75 ppm,  
 12:35:19 -- and CO=76 ppm.  
 12:35:25 -- Begin calib of DASIBI CO  
 12:36:24 -- BEGIN READING THE ZERDS ON ECOLYZER  
 12:39:04 -- DISREGARD ANY DRIFT DATA FOR CH 51 ABOVE  
 12:49:35 -- END CALIBRATIN NCO-2  
 12:51:11 -- BEGIN CALIBRATION NCO-3

Average for 15 minute period ending at 12:15:00  
 Average for 15 minute period ending at 12:30:00  
 Average for 15 minute period ending at 12:45:00

Traffic Data  
 Total Traffic = 0 Vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
.0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2052 Vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	59.3	14	52.4	60	59.7	55	60.4	11	52.8
Cat2	125	62.7	181	54.9	174	59.9	117	60.4	101	51.1
Cat3	17	64.3	39	56.9	28	59.7	11	61.4	10	50.5
Cat4	7	67.1	27	61.3	13	57.2	4	62.5	5	49.2
Cat5	2	69.1	10	63.8	3	58.1	1	61.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	62.3	61	59.5	76	59.0	55	57.9	24	45.0
Cat2	155	63.8	153	60.2	122	60.5	95	60.3	47	48.9
Cat3	16	64.4	35	59.2	29	58.5	12	57.4	2	42.7
Cat4	13	64.8	14	62.8	17	60.3	2	59.7	0	0
Cat5	3	64.9	9	61.4	9	59.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
58.6	446	21.7	58.9	1270	61.9	59.1	197	9.6	61.1	102	5.0	62.1	37	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.385+/- 3.712	mph	37	N VA 102'	-.071+/- 1.875	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	-7.132+/- 2.977	mph
13	N TOP PAR	2.328+/- 3.100	mph	39	N VA 74'	.089+/- 2.137	mph
14	N Dasibi O3	.041+/- .003	ppm	40	S BOT PAR	3.566+/- 2.801	ppm
15	N TOP VER	.014+/- 2.310	mph	41	N GND PER	-1.967+/- 2.256	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.619+/- 1.194	mph
17	N BOT PER	-4.623+/- 3.318	mph	43	N GND PAR	1.307+/- 2.949	mph
19	N BOT PAR	2.280+/- 2.939	mph	45	N GND VER	.076+/- 1.135	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.179+/- 2.125	mph	50	S TOP PER	-8.099+/- 3.240	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	12.628+/- 3.307	mph	52	S TOP PAR	3.212+/- 2.880	mph

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	337.948+/- 17.879	DEGR AZ	54	S TOP VER	.556+/- 1.272	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	55.932+/- 3.020	DEGR F	56	S GND PER	-4.107+/- 1.750	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	335.559+/- 21.459	DEGR AZ	58	S GND PAR	2.683+/- 1.921	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	44.374+/- .286	%
31	N 74' Temp	51.112+/- 2.579	DEGR F	60	S GND VER	.512+/- .892	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	587.775+/- 2.652	W/m**2
35	N HA 74'	11.506+/- 4.176	mph	64	S VA 55'	.527+/- 1.749	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	8.67+/-	3.62	342.4+/-	24.9	4.8+/-	20.5
02	17 19 21	6.43+/-	3.05	331.9+/-	36.2	7.2+/-	23.9
03	38 40 42	8.56+/-	2.96	333.8+/-	19.5	6.1+/-	11.5
04	41 43 45	3.95+/-	2.24	329.7+/-	47.4	4.6+/-	20.3
05	50 52 54	9.27+/-	3.25	339.7+/-	18.4	5.1+/-	13.7
06	56 58 60	5.30+/-	1.93	328.7+/-	22.0	6.9+/-	14.1

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	*****+/-*****		*****+/-*****		*****+/-*****	
02	17 19 21	*****+/-*****		*****+/-*****		*****+/-*****	
03	38 40 42	*****+/-*****		*****+/-*****		*****+/-*****	
04	41 43 45	*****+/-*****		*****+/-*****		*****+/-*****	
05	50 52 54	*****+/-*****		*****+/-*****		*****+/-*****	
06	56 58 60	*****+/-*****		*****+/-*****		*****+/-*****	

13:16:05 -- DASIBI CO IS ONLINE  
 13:16:15 -- READING BYRON 401 SPANS  
 13:36:34 -- IGNORE THE PREVIOUS SPAN FOR NCO-4  
 13:41:33 -- IGNORE EVERYTHING 50 FAR ON CH. 55  
 13:56:36 -- Stop teading BYRON spans

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 2050 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	60.5	4	52.1	64	57.9	45	58.4	10	53.5
Cat2	109	62.0	182	54.6	172	59.2	131	58.5	76	51.2
Cat3	16	63.1	50	55.8	36	58.9	11	59.5	7	53.2
Cat4	13	64.7	26	61.8	15	59.8	5	59.9	6	51.3
Cat5	8	69.2	20	63.6	6	57.3	3	57.2	1	46.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	62.6	61	57.8	61	60.6	55	59.6	24	47.7
Cat2	166	64.0	146	60.5	125	60.9	98	60.1	47	48.0
Cat3	13	63.7	26	60.4	36	59.2	10	62.3	1	51.5
Cat4	14	65.4	28	61.6	15	63.0	4	59.6	0	.0
Cat5	0	.0	5	66.3	6	64.7	1	67.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	416	20.3	58.8	1252	61.1	59.0	206	10.0	61.7	126	6.1	63.5	50	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-10.831+/-	3.382	37	N VA 102'	-1.026+/-	1.521
12	N Dasibi CO	*****+/-	*****	38	S BDT PER	-8.498+/-	2.848
13	N TDP PAR	.682+/-	2.928	39	N VA 74'	-.102+/-	1.975
14	N Dasibi O3	.044+/-	.002	40	S BDT PAR	2.261+/-	2.987
15	N TDP VER	-.292+/-	1.885	41	N GND PER	-3.370+/-	2.267
16	N ND/TECO	*****+/-	*****	42	S BDT VER	3.379+/-	1.232
17	N BDT PER	-6.865+/-	3.535	43	N GND PAR	-.029+/-	2.624
19	N BDT PAR	1.038+/-	2.770	45	N GND VER	-.023+/-	1.445
20	N ND2/TECO	*****+/-	*****	48	N EcoLyzer-1	*****+/-	*****
21	N BDT VER	-.111+/-	1.894	50	S TDP PER	-9.652+/-	3.098
22	N ND/TECO	*****+/-	*****	51	N EcoLyzer-2	.846+/-	.077
23	N HA 102'	15.303+/-	2.598	52	S TDP PAR	1.621+/-	2.971
24	N THC/Byron	*****+/-	*****	53	N EcoLyzer-3	*****+/-	*****
25	N WV 102'	354.314+/-	12.796	54	S TDP VER	-.329+/-	1.409
26	N NMHC/Byro	*****+/-	*****	55	N EcoLyzer-4	*****+/-	*****
27	N Gnd Temp	55.828+/-	4.476	56	S GND PER	-4.656+/-	2.012
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzer-5	*****+/-	*****
29	N WV 74'	350.429+/-	13.146	58	S GND PAR	2.231+/-	2.239
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	43.739+/-	.374
31	N 74' Temp	51.399+/-	4.162	60	S GND VER	-.301+/-	1.142
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	571.334+/-	6.522
35	N HA 74'	14.706+/-	3.331	64	S VA 55'	.192+/-	1.760

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.42+/- 3.32	356.9+/- 15.8	.5+/- 11.5
02	17 19 21	7.79+/- 3.34	351.1+/- 29.0	2.9+/- 18.0
03	38 40 42	8.38+/- 2.82	346.3+/- 19.1	3.9+/- 10.1
04	41 43 45	4.54+/- 2.18	358.2+/- 39.1	3.4+/- 23.2
05	50 52 54	10.34+/- 3.06	352.3+/- 18.0	3.4+/- 9.2
06	56 58 60	5.71+/- 2.11	335.1+/- 24.8	3.6+/- 16.6

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2077 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	61.7	16	54.7	31	59.2	53	58.9	10	51.0
Cat2	114	62.5	176	56.0	173	60.3	120	60.2	60	51.8
Cat3	15	63.5	28	59.3	41	60.3	15	57.4	8	51.3
Cat4	12	68.3	21	62.7	14	60.0	4	57.5	3	54.4
Cat5	5	70.8	14	65.5	7	60.9	1	64.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	61.7	61	57.5	68	59.7	60	58.3	33	47.5
Cat2	172	63.2	147	59.5	138	59.4	93	59.8	50	46.7
Cat3	14	66.0	29	57.6	33	59.8	16	62.1	3	45.0
Cat4	8	65.2	26	60.1	26	61.5	5	62.6	0	.0
Cat5	3	68.8	9	61.6	4	62.5	1	57.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	449	21.8	59.0	1263	60.8	59.7	202	9.7	62.0	119	5.7	64.3	44	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-9.621+/-	3.520	37	N VA 102'	-.670+/-	1.854
12	N Dasibi CO	.465+/-	.193	38	S BDT PER	-7.609+/-	2.833
13	N TDP PAR	.036+/-	3.046	39	N VA 74'	.201+/-	1.805
14	N Dasibi O3	.043+/-	.002	40	S BDT PAR	1.237+/-	3.377
15	N TOP VER	-.115+/-	1.965	41	N GND PER	-3.247+/-	2.201
16	N ND/TECO	*****+/-	*****	42	S BDT VER	-.334+/-	1.191
17	N BDT PER	-5.739+/-	3.081	43	N GND PAR	-.181+/-	2.704
19	N BDT PAR	.885+/-	2.594	45	N GND VER	-.184+/-	1.204
20	N ND2/TECO	*****+/-	*****	48	N EcoLyzer-1	*****+/-	*****
21	N BDT VER	-.108+/-	1.840	50	S TDP PER	-9.028+/-	2.794
22	N ND/TECO	*****+/-	*****	51	N EcoLyzer-2	.897+/-	.134
23	N HA 102'	13.734+/-	2.841	52	S TDP PAR	.819+/-	3.273
24	N THC/Byron	*****+/-	*****	53	N EcoLyzer-3	*****+/-	*****
25	N WV 102'	352.796+/-	20.947	54	S TDP VER	1.584+/-	1.345
26	N NMHC/Byro	*****+/-	*****	55	N EcoLyzer-4	*****+/-	*****
27	N Gnd Temp	55.750+/-	2.235	56	S GND PER	-3.902+/-	2.017
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzer-5	*****+/-	*****
29	N WV 74'	348.201+/-	22.083	58	S GND PAR	1.186+/-	2.272
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	43.413+/-	.252
31	N 74' Temp	52.154+/-	3.193	60	S GND VER	-.144+/-	1.023
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	545.311+/-	8.604
35	N HA 74'	12.927+/-	3.285	64	S VA 55'	-.089+/-	1.617

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	10.39+/- 3.17	359.8+/- 21.0	2.0+/- 16.3		
02	17 18 21	8.78+/- 2.62	350.5+/- 33.4	2.6+/- 21.6		
03	38 40 42	8.50+/- 2.83	351.9+/- 22.6	4.1+/- 10.5		
04	41 43 45	4.41+/- 2.16	3.7+/- 39.4	1.0+/- 20.3		
05	50 52 54	9.77+/- 2.70	354.5+/- 18.8	2.4+/- 9.7		
06	56 58 60	4.72+/- 2.14	345.6+/- 27.5	4.5+/- 18.0		

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2051 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	59.9	9	51.4	4	58.7	48	58.7	11	54.3
Cat2	137	63.2	204	55.5	169	60.0	113	59.6	80	51.8
Cat3	18	63.9	32	57.0	50	60.6	14	59.9	1	54.1
Cat4	13	68.0	15	60.4	29	60.7	8	58.7	1	51.2
Cat5	4	67.3	16	64.4	18	61.2	2	64.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	62.9	46	58.8	68	59.3	57	56.6	12	48.8
Cat2	166	64.9	178	60.4	141	60.9	119	60.5	34	49.3
Cat3	11	66.6	30	61.3	30	60.5	12	58.4	0	0
Cat4	9	67.7	18	60.8	10	62.8	7	59.4	0	0
Cat5	3	66.9	4	60.0	5	63.1	2	53.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	358	17.4	59.7	1341	65.1	60.5	188	9.6	62.0	110	5.3	62.8	54	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.621+/- 4.042	mph	37	N VA 102'	-0.020+/- 1.902	mph
12	N Dasibi CD	.431+/- .133	ppm	38	S BOT PER	-7.719+/- 2.917	mph
13	N TOP PAR	2.473+/- 3.067	mph	39	N VA 74'	.264+/- 1.944	mph
14	N Dasibi D3	.042+/- .001	ppm	40	S BOT PAR	4.392+/- 3.411	mph
15	N TOP VER	.099+/- 2.040	mph	41	N GND PER	-1.971+/- 2.468	mph
16	N ND/TECD	*****	ppm	42	S BOT VER	6.617+/- 1.237	mph
17	N BOT PER	-4.229+/- 3.500	mph	43	N GND PAR	1.589+/- 2.884	mph
19	N BOT PAR	2.355+/- 2.908	mph	45	N GND VER	.129+/- 1.260	ppm
20	N ND2/TECD	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	-.024+/- 1.858	mph	50	S TOP PER	-8.905+/- 3.028	mph
22	N ND/TECD	*****	ppm	51	N Ecolyzer-2	.922+/- .086	ppm
23	N HA 102'	13.737+/- 3.939	mph	52	S TOP PAR	4.095+/- 3.299	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	.738+/- .255	ppm
25	N WV 102'	336.829+/- 18.515	DEGR A2	54	S TOP VER	.481+/- 1.403	mph
26	N NMNC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	56.818+/- 3.907	DEGR F	56	S GND PER	-4.528+/- 2.148	ppm
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	332.483+/- 23.471	DEGR A2	58	S GND PAR	3.374+/- 2.270	mph
30	N CD/Byron	*****	ppm	59	N Rel Hum	43.120+/- .181	%
31	N 74' Temp	54.004+/- 2.751	DEGR F	60	S GND VER	.406+/- 1.001	mph
32	N CD2/Byron	*****	ppm	61	N Solar Rad	521.694+/- 7.116	W/m^2
35	N HA 74'	12.262+/- 4.403	mph	64	S VA 55'	.336+/- 1.994	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	8.86+/- 3.94	340.1+/- 23.5	6.4+/- 19.9		
02	17 18 21	6.13+/- 3.22	328.3+/- 40.1	7.7+/- 28.3		
03	38 40 42	9.61+/- 2.90	331.0+/- 20.8	4.9+/- 8.4		
04	41 43 45	4.04+/- 2.46	321.1+/- 48.2	7.4+/- 24.1		
05	50 52 54	10.38+/- 3.24	325.9+/- 16.7	6.4+/- 8.3		
06	56 58 60	6.14+/- 2.26	324.5+/- 21.9	4.4+/- 10.5		

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2094 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	60.0	6	53.2	2	57.9	53	59.4	7	53.0
Cat2	149	62.5	193	54.9	168	60.5	109	59.9	73	51.5
Cat3	22	63.9	42	58.2	50	60.1	13	60.4	3	45.2
Cat4	12	66.7	20	61.3	28	61.3	5	65.0	1	39.7
Cat5	9	69.0	13	64.2	23	61.2	4	58.1	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	62.1	62	56.5	68	59.4	68	58.8	20	46.4
Cat2	187	63.9	163	59.7	135	60.2	94	61.1	47	46.2
Cat3	21	66.1	36	58.1	36	60.1	8	61.5	0	0
Cat4	7	65.5	16	61.8	13	62.5	7	58.9	1	43.2
Cat5	3	65.5	6	60.0	9	64.1	1	74.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	387	17.5	59.3	1318	62.9	60.4	231	11.0	62.1	110	5.3	63.3	68	3.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.584+/- 3.350	mph	37	N VA 102'	.054+/- 2.056	mph
12	N Dasibi CD	.447+/- .213	ppm	38	S BOT PER	-7.064+/- 2.726	mph
13	N TOP PAR	3.058+/- 3.321	mph	39	N VA 74'	.188+/- 1.713	mph
14	N Dasibi D3	.042+/- .002	ppm	40	S BOT PAR	3.901+/- 3.136	mph
15	N TOP VER	.056+/- 2.013	mph	41	N GND PER	-1.725+/- 2.349	mph
16	N ND/TECD	*****	ppm	42	S BOT VER	.430+/- 1.115	mph
17	N BOT PER	-3.945+/- 2.940	mph	43	N GND PAR	.903+/- 2.168	mph
19	N BOT PAR	2.450+/- 2.796	mph	45	N GND VER	.231+/- 1.243	ppm
20	N ND2/TECD	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	-.119+/- 1.935	mph	50	S TOP PER	-8.134+/- 2.748	mph
22	N ND/TECD	*****	ppm	51	N Ecolyzer-2	3.898+/- 3.081	ppm
23	N HA 102'	13.117+/- 3.701	mph	52	S TOP PAR	1.648+/- .276	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	333.273+/- 15.704	DEGR A2	54	S TOP VER	.546+/- 1.243	mph

26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	55.089+/- 3.609	DEGR F	56	S GND PER	-3.913+/- 1.793	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	.518+/- .596	ppm
29	N WV 74'	331.168+/- 23.200	DEGR AZ	58	S GND PAR	3.034+/- 2.093	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	42.827+/- .388	%
31	N 74' Temp	52.571+/- 2.833	DEGR F	60	S GND VER	.394+/- .884	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	492.219+/- 11.203	W/m**2
35	N HA 74'	11.938+/- 3.826	mph	64	S VA 55'	.355+/- 1.716	mph

UVW Vector Calculations

UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.98+/-	3.54	339.9+/-	20.8
02	17 19 21	5.80+/-	2.84	326.2+/-	36.1
03	38 40 42	8.67+/-	2.94	332.5+/-	19.5
04	41 43 45	3.49+/-	1.84	331.3+/-	49.6
05	50 52 54	9.52+/-	2.84	336.6+/-	18.3
06	56 58 60	5.45+/-	1.82	324.1+/-	23.3

Average for hourly period ending at 14:00:00  
Traffic Data  
 Total Traffic = 8282 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	111	60.5	35	53.3	101	58.4	199	59.1	36	53.0
Cat2	509	62.7	755	55.2	682	60.0	473	59.8	309	51.6
Cat3	71	63.6	152	57.4	177	60.1	53	59.2	19	51.2
Cat4	50	67.1	82	61.7	86	60.6	22	60.2	11	51.1
Cat5	26	69.1	63	64.3	54	60.7	10	59.7	1	46.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	282	62.3	230	57.6	265	59.7	240	58.8	89	47.5
Cat2	691	64.0	634	60.0	539	60.3	404	60.4	178	47.9
Cat3	59	65.7	121	59.6	135	59.9	46	61.1	4	46.7
Cat4	38	65.9	88	61.0	64	62.5	23	60.0	1	43.2
Cat5	9	67.1	24	61.9	24	63.8	5	61.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	1590	19.2	59.2	5174	62.5	59.9	837	10.1	62.0	465	5.6	63.4	216	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-8.914+/- 3.834	mph	37	N VA 102'	-.415+/- 1.848	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	-7.722+/- 2.872	mph
13	N TOP PAR	1.557+/- 3.329	mph	39	N VA 74'	.137+/- 1.864	mph
14	N Desibi O3	.043+/- .002	ppm	40	S BOT PAR	2.948+/- 3.485	mph
15	N TOP VER	-.063+/- 1.979	mph	41	N GND PER	-2.579+/- 2.433	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.440+/- 1.197	mph
17	N BOT PER	-5.195+/- 3.470	mph	43	N GND PAR	.576+/- 2.699	mph
19	N BOT PAR	1.632+/- 2.872	mph	45	N GND VER	.043+/- 1.297	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.090+/- 1.888	mph	50	S TOP PER	-8.930+/- 2.964	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.898+/- .103	ppm
23	N HA 102'	13.973+/- 3.388	mph	52	S TOP PAR	2.583+/- 3.429	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	344.300+/- 19.400	DEGR AZ	54	S TOP VER	.382+/- 1.357	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	56.121+/- 3.582	DEGR F	56	S GND PER	-4.250+/- 2.022	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	340.749+/- 22.450	DEGR AZ	58	S GND PAR	2.456+/- 2.370	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	43.275+/- .457	%
31	N 74' Temp	52.532+/- 3.338	DEGR F	60	S GND VER	.311+/- 1.020	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	532.639+/- 30.608	W/m**2
35	N HA 74'	12.958+/- 3.882	mph	64	S VA 55'	.198+/- 1.782	mph

UVW Vector Calculations

UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.91+/-	3.66	349.2+/-	22.1
02	17 19 21	6.63+/-	3.11	339.7+/-	36.2
03	38 40 42	9.04+/-	2.90	340.4+/-	22.1
04	41 43 45	4.12+/-	2.21	346.0+/-	45.5
05	50 52 54	10.00+/-	2.98	344.8+/-	19.9
06	56 58 60	5.51+/-	2.15	332.1+/-	25.7



Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2066 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	31	60.9	7	61.8	6	48.4	52	60.1	17	50.7
Cat 2	121	63.1	193	55.3	133	59.8	118	59.4	80	52.6
Cat 3	24	65.5	49	58.1	52	60.1	13	60.5	6	51.1
Cat 4	15	64.2	27	61.6	32	60.6	11	58.2	2	59.2
Cat 5	10	67.0	24	61.9	24	60.1	0	.0	1	50.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	60	60.3	44	57.3	68	59.3	53	57.7	30	48.4
Cat 2	194	62.3	153	58.6	136	60.5	102	60.1	37	48.2
Cat 3	11	63.6	31	59.8	28	60.7	11	58.2	1	47.7
Cat 4	4	61.9	16	59.3	20	59.6	5	59.0	0	.0
Cat 5	0	.0	5	63.6	9	63.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	388	17.8	58.9	1267	61.3	60.1	226	10.9	60.7	132	6.4	62.2	73	3.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.341+/-	3.126	37	N VA 102'	.123+/-	1.620
12	N Desibi CO	.488+/-	.143	38	S BOT PER	-6.109+/-	2.389
13	N TOP PAR	2.446+/-	2.847	39	N VA 74'	.376+/-	1.654
14	N Desibi O3	.041+/-	.002	40	S BOT PAR	3.798+/-	3.033
15	N TOP VER	.330+/-	1.935	41	N GND PER	-1.351+/-	1.848
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.823+/-	.974
17	N BOT PER	-3.417+/-	2.655	43	N GND PAR	1.474+/-	2.221
19	N BOT PAR	1.858+/-	2.493	45	N GND VER	.182+/-	1.265
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.451+/-	1.879	50	S TOP PER	-7.356+/-	2.356
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.988+/-	.096
23	N HA 102'	11.737+/-	3.394	52	S TOP PAR	3.371+/-	3.117
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.555+/-	.279
25	N WV 102'	333.804+/-	16.874	54	S TOP VER	.540+/-	1.186
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	.680+/-	.257
27	N Gnd Temp	58.772+/-	3.782	56	S GND PER	-3.831+/-	1.997
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	.547+/-	.823
29	N WV 74'	330.955+/-	21.512	58	S GND PAR	3.181+/-	2.132
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	42.501+/-	.320
31	N 74' Temp	54.968+/-	3.045	60	S GND VER	.387+/-	.758
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	456.341+/-	10.806
35	N HA 74'	10.787+/-	3.831	64	S VA 55'	.562+/-	1.700

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.57+/-	3.26	339.9+/- 22.9
02	17 19 21	5.03+/-	2.60	330.8+/- 36.9
03	38 40 42	7.74+/-	2.82	331.3+/- 20.2
04	41 43 45	3.28+/-	1.79	316.4+/- 48.0
05	50 52 54	8.66+/-	2.73	337.6+/- 19.1
06	56 58 60	5.37+/-	2.28	321.4+/- 22.6

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2215 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	24	59.4	16	52.3	5	50.4	57	60.2	13	53.3
Cat 2	158	62.5	168	55.1	134	59.1	117	61.1	93	51.3
Cat 3	20	63.3	47	58.3	73	58.7	12	58.3	5	49.6
Cat 4	16	65.9	31	61.0	32	61.5	3	61.0	5	50.5
Cat 5	7	67.6	19	62.8	23	61.9	2	65.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	74	61.3	58	56.6	68	59.2	76	58.5	26	48.7
Cat 2	186	62.7	174	58.8	154	59.9	85	59.1	52	48.6
Cat 3	23	63.9	42	59.4	37	60.5	14	58.0	2	45.2
Cat 4	13	63.6	14	60.7	15	62.4	4	58.6	0	.0
Cat 5	1	64.9	10	59.8	9	63.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	417	18.8	58.7	1319	59.5	59.4	275	12.4	61.6	133	6.0	62.8	71	3.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-8.010+/-	3.307	37	N VA 102'	-.199+/-	1.284
12	N Desibi CO	.436+/-	.147	38	S BOT PER	-7.475+/-	2.821
13	N TOP PAR	1.224+/-	2.296	39	N VA 74'	.392+/-	1.461
14	N Desibi O3	.044+/-	.002	40	S BOT PAR	2.237+/-	1.981
15	N TOP VER	.204+/-	1.549	41	N GND PER	-1.991+/-	1.982
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.291+/-	1.167
17	N BOT PER	-4.815+/-	3.017	43	N GND PAR	.543+/-	1.988
19	N BOT PAR	1.265+/-	1.993	45	N GND VER	.198+/-	1.180
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.264+/-	1.561	50	S TOP PER	-8.926+/-	3.346
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	.899+/-	.109
23	N HA 102'	12.099+/-	3.359	52	S TOP PAR	2.218+/-	1.985
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	.572+/-	.265
25	N WV 102'	342.981+/-	18.614	54	S TOP VER	.187+/-	1.237
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	.686+/-	.232
27	N Gnd Temp	57.209+/-	4.063	56	S GND PER	-4.022+/-	1.676
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	.523+/-	.667
29	N WV 74'	341.581+/-	20.292	58	S GND PAR	1.825+/-	1.849
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	42.176+/-	.316
31	N 74' Temp	53.978+/-	3.794	60	S GND VER	.231+/-	.983
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	390.033+/-	70.552
35	N HA 74'	11.612+/-	3.334	64	S VA 55'	.112+/-	1.594

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	8.61+/-	3.21	350.9+/-	17.4	3.3+/-	13.6
02	17	19	21	5.74+/-	2.72	341.3+/-	33.6	6.0+/-	21.9
03	38	40	42	8.20+/-	2.64	342.2+/-	16.2	3.7+/-	9.9
04	41	43	45	3.20+/-	1.82	343.6+/-	46.1	7.3+/-	24.6
05	50	52	54	9.53+/-	3.24	345.2+/-	13.4	2.8+/-	9.6
06	56	58	60	4.87+/-	1.72	338.2+/-	21.7	4.5+/-	12.2

Average for 15 minute period ending at 14:45:00  
Traffic Data  
 Total Traffic = 2240 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	60.9	24	52.6	3	50.7	56	59.5	8	51.1
Cat2	130	62.9	200	55.6	144	60.7	113	61.3	86	51.4
Cat3	17	62.5	40	58.0	67	59.8	17	63.4	7	52.6
Cat4	7	66.4	20	61.7	24	60.1	2	62.7	4	65.5
Cat5	12	70.2	9	63.2	24	60.0	3	64.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	61.4	63	58.7	65	59.0	56	58.4	34	48.0
Cat2	211	63.9	174	60.3	172	60.6	104	60.3	59	47.8
Cat3	17	64.3	32	61.1	32	58.9	21	58.4	2	47.8
Cat4	19	64.6	20	61.2	18	61.5	7	59.5	1	38.3
Cat5	3	68.0	8	62.3	5	63.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.0	409	18.3	59.5	1393	62.2	59.9	252	11.2	62.0	122	5.4	63.5	64	2.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.554+/-	2.963	37	N VA 102'	-.096+/-	1.645
12	N Dasibi CO	.401+/-	.051	38	S BOT PER	-5.801+/-	2.370
13	N TOP PAR	.881+/-	2.985	39	N VA 74'	-.494+/-	1.794
14	N Dasibi O3	.042+/-	.002	40	S BOT PAR	1.274+/-	3.795
15	N TOP VER	.279+/-	1.789	41	N GND PER	-1.560+/-	1.814
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.528+/-	1.076
17	N BOT PER	-4.000+/-	2.554	43	N GND PAR	-.642+/-	2.404
19	N BOT PAR	1.060+/-	2.514	45	N GND VER	.233+/-	1.005
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.239+/-	1.802	50	S TOP PER	-7.198+/-	2.473
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.854+/-	.084
23	N HA 102'	11.183+/-	2.908	52	S TOP PAR	.835+/-	3.758
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.569+/-	.253
25	N WV 102'	351.796+/-	20.292	54	S TOP VER	.326+/-	1.242
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.688+/-	.226
27	N Gnd Temp	56.401+/-	1.890	56	S GND PER	-3.375+/-	1.519
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.493+/-	.913
29	N WV 74'	345.544+/-	24.016	58	S GND PAR	1.389+/-	2.563
30	N CO/Byron	*****+/-*****		59	N Rel Hum	41.638+/-	.291
31	N 74' Temp	53.170+/-	3.554	60	S GND VER	.391+/-	.767
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	382.830+/-	14.070
35	N HA 74'	10.156+/-	3.115	64	S VA 55'	.264+/-	1.622

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.53+/- 2.82	354.8+/- 25.7	5.9+/- 17.1
02	17 19 21	5.28+/- 2.31	344.3+/- 37.7	8.1+/- 24.3
03	38 40 42	7.11+/- 2.46	347.2+/- 29.4	6.6+/- 13.1
04	41 43 45	3.14+/- 1.76	343.0+/- 48.4	6.9+/- 24.4
05	50 52 54	8.21+/- 2.64	353.0+/- 24.6	4.1+/- 11.3
06	56 58 60	4.48+/- 1.68	339.5+/- 31.3	5.8+/- 12.2

Average for 15 minute period ending at 15:00:00  
Traffic Data  
 Total Traffic = 2282 vehicles averaging 58.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	61.8	26	53.1	4	52.1	59	60.7	12	52.9
Cat2	146	63.1	181	54.9	138	59.9	133	60.9	98	51.7
Cat3	17	63.0	35	58.6	64	60.1	19	59.5	8	48.0
Cat4	15	68.5	22	61.2	32	60.4	9	63.3	6	48.8
Cat5	11	68.1	14	62.7	29	61.8	2	61.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	61.6	59	57.0	74	57.9	75	56.1	28	45.1
Cat2	194	63.0	191	58.2	182	58.9	94	56.2	49	46.2
Cat3	21	63.5	37	58.9	29	56.7	12	58.2	2	50.0
Cat4	7	63.2	21	59.8	15	57.8	3	52.7	1	37.4
Cat5	2	68.5	8	58.5	4	58.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.3	431	18.9	58.5	1406	61.6	59.2	244	10.7	60.3	131	5.7	62.6	70	3.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-9.477+/-	3.041	37	N VA 102'	-.506+/-	1.488
12	N Dasibi CO	.401+/-	.068	38	S BOT PER	-7.514+/-	2.896
13	N TOP PAR	-.216+/-	2.300	39	N VA 74'	-.315+/-	1.646
14	N Dasibi O3	.043+/-	.002	40	S BOT PAR	.887+/-	2.504
15	N TOP VER	-.040+/-	1.542	41	N GND PER	-2.618+/-	1.846
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.331+/-	1.225
17	N BOT PER	-6.523+/-	2.949	43	N GND PAR	-.150+/-	2.199
19	N BOT PAR	.388+/-	2.104	45	N GND VER	.051+/-	.991
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.004+/-	1.382	50	S TOP PER	-8.827+/-	3.030
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.828+/-	.092
23	N HA 102'	12.906+/-	2.306	52	S TOP PAR	.383+/-	2.662
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.615+/-	.257
25	N WV 102'	358.807+/-	13.931	54	S TOP VER	.153+/-	1.166
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.621+/-	.316
27	N Gnd Temp	56.766+/-	3.507	56	S GND PER	-3.870+/-	2.114
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.442+/-	.843
29	N WV 74'	354.168+/-	12.506	58	S GND PAR	1.101+/-	1.911
30	N CO/Byron	*****+/-*****		59	N Rel Hum	41.247+/-	.380

31	N 74' Temp	53.249+/-	2.562	DEGR F	60	S GND VER	.183+/-	1.023	mph
32	N CD2/Byron	*****+/-*****		ppm	61	N Solar Rad	338.713+/-	13.145	W/m**2
35	N HA 74'	11.923+/-	2.910	mph	64	S VA 55'	.010+/-	1.555	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15		9.90+/- 2.96	1.4+/- 14.4	1.9+/- 11.1	
02	17 19 21		7.12+/- 2.65	355.2+/- 27.9	4.1+/- 18.5	
03	38 40 42		8.09+/- 2.81	354.3+/- 19.0	4.8+/- 12.3	
04	41 43 45		3.58+/- 1.81	2.4+/- 38.5	4.3+/- 19.0	
05	50 52 54		9.34+/- 2.91	359.3+/- 17.8	3.2+/- 11.0	
06	56 58 60		4.55+/- 2.17	343.8+/- 27.4	6.0+/- 19.5	

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8603 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	118	60.6	73	52.7	18	50.1	224	60.1	50	52.0
Cat2	555	62.9	740	55.2	549	59.8	481	60.7	357	51.7
Cat3	78	63.7	171	58.2	256	59.6	61	60.2	26	50.3
Cat4	53	65.7	100	61.3	120	60.7	25	60.8	17	55.4
Cat5	40	68.4	66	62.5	100	61.0	7	63.7	1	50.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	265	61.2	224	57.4	275	58.8	260	57.6	118	46.9
Cat2	785	63.0	692	59.0	644	59.9	385	59.0	197	47.2
Cat3	72	63.8	142	59.7	126	59.3	58	58.2	7	47.7
Cat4	43	63.8	71	60.3	68	60.3	19	58.1	2	37.9
Cat5	6	67.6	31	60.7	27	63.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	1625	18.5	58.8	5385	61.2	59.6	897	11.3	61.1	518	5.9	62.8	278	3.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.598+/-	3.352	37	N VA 102'	-1.169+/-	1.532
12	N Desibi CD	.426+/-	.120	38	S BOT PER	-6.725+/-	2.737
13	N TOP PAR	1.083+/-	2.787	39	N VA 74'	.394+/-	1.642
14	N Desibi O3	.042+/-	.002	40	S BOT PAR	2.044+/-	3.112
15	N TOP VER	.193+/-	1.714	41	N GND PER	-1.880+/-	1.932
16	N ND/TECO	*****+/-*****		42	S BOT VER	.443+/-	1.121
17	N BOT PER	-4.689+/-	3.030	43	N GND PAR	.627+/-	2.278
19	N BOT PAR	1.142+/-	2.343	45	N GND VER	.186+/-	1.116
20	N ND2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.239+/-	1.672	50	S TOP PER	-8.077+/-	2.936
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	.894+/-	.116
23	N HA 102'	11.981+/-	3.082	52	S TOP PAR	1.702+/-	3.173
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.578+/-	.264
25	N WV 102'	346.881+/-	19.694	54	S TOP VER	.301+/-	1.215
26	N NMHC/Byrd	*****+/-*****		55	N Ecolyzer-4	.659+/-	.251
27	N Gnd Temp	57.287+/-	3.446	56	S GND PER	-3.774+/-	1.854
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.501+/-	.722
29	N WV 74'	343.442+/-	21.550	58	S GND PAR	1.874+/-	2.273
30	N CO/Byron	*****+/-*****		59	N Rel Hum	41.891+/-	.881
31	N 74' Temp	53.841+/-	3.271	60	S GND VER	.298+/-	.694
32	N CD2/Byron	*****+/-*****		61	N Solar Rad	391.929+/-	55.618
35	N HA 74'	11.119+/-	3.380	64	S VA 55'	.237+/-	1.631

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15		8.40+/- 3.21	351.9+/- 21.8	4.7+/- 16.4	
02	17 19 21		5.79+/- 2.89	343.3+/- 35.0	7.5+/- 24.3	
03	38 40 42		7.79+/- 2.71	343.7+/- 23.2	5.3+/- 11.5	
04	41 43 45		3.30+/- 1.80	342.6+/- 46.2	5.5+/- 24.0	
05	50 52 54		8.93+/- 2.93	348.7+/- 20.6	3.7+/- 10.3	
06	56 58 60		4.82+/- 2.01	335.0+/- 27.1	5.4+/- 16.6	

Average for 15 minute period ending at 15:15:00  
Traffic Data  
Total Traffic = 2245 vehicles averaging 58.9 mph

Westbound Traffic

Table with 8 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1 through CAT 5, including 'Spd.', 'Total', and '%'.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units. Lists various instruments like 'N TOP PER', 'N Dasibi CO', etc., with their values and units.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector data for channels 01 through 06.

Average for 15 minute period ending at 15:30:00  
Traffic Data  
Total Traffic = 2377 vehicles averaging 59.0 mph

Westbound Traffic

Table with 5 columns: Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns: Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Each column has 'No.' and 'Spd.' sub-columns. Rows include Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1 through CAT 5, including 'Spd.', 'Total', and '%'.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units. Lists various instruments like 'N TOP PER', 'N Dasibi CO', etc., with their values and units.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector data for channels 01 through 06.

01	11	13	15	7.19+/-	3.37	355.6+/-	20.0	5.2+/-	15.5
02	17	19	21	4.86+/-	2.84	344.8+/-	44.5	9.1+/-	25.6
03	38	40	42	6.77+/-	2.78	347.5+/-	21.1	8.0+/-	13.2
04	41	43	45	3.17+/-	1.71	329.8+/-	48.1	7.0+/-	21.8
05	50	52	54	7.65+/-	2.64	354.3+/-	19.2	6.7+/-	12.3
06	56	58	60	3.92+/-	1.76	335.2+/-	26.8	7.5+/-	14.5

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2538 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	60.6	22	52.1	6	56.5	54	59.8	7	51.7
Cat2	157	62.4	184	54.4	180	59.9	126	60.4	130	50.7
Cat3	24	64.3	37	58.1	48	60.1	14	60.1	8	54.2
Cat4	11	68.0	35	59.7	29	61.5	5	59.6	3	47.2
Cat5	16	68.5	19	64.9	35	61.6	3	56.4	1	45.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.0	63	58.2	82	58.8	65	57.9	22	47.6
Cat2	202	65.0	231	59.9	216	60.4	123	59.8	85	48.0
Cat3	30	64.3	49	59.1	35	60.6	14	58.9	3	44.2
Cat4	16	66.2	23	61.2	20	62.1	3	57.5	0	0
Cat5	0	0	5	62.2	7	63.9	1	54.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	408	16.1	58.9	1634	64.4	60.2	262	10.3	61.7	145	5.7	63.4	87	3.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.353+/-	2.963	37	N VA 102'	-.262+/-	1.331
12	N Dasibi CO	.668+/-	.280	38	S BOT PER	-6.176+/-	2.230
13	N TOP PAR	.698+/-	2.358	39	N VA 74'	.304+/-	1.461
14	N Dasibi O3	.036+/-	.002	40	S BOT PAR	1.464+/-	2.914
15	N TOP VER	.122+/-	1.450	41	N GND PER	-2.204+/-	1.821
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.312+/-	.918
17	N BOT PER	-4.707+/-	2.772	43	N GND PAR	.466+/-	2.123
19	N BOT PAR	.965+/-	2.053	45	N GND VER	.060+/-	.901
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.096+/-	1.586	50	S TOP PER	-7.844+/-	2.426
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	.874+/-	.100
23	N HA 102'	11.141+/-	2.901	52	S TOP PAR	.670+/-	3.081
24	N THC/Byron	1.808+/-	.049	53	N Ecolyzer-3	.559+/-	.259
25	N WV 102'	351.087+/-	16.993	54	S TOP VER	.042+/-	.992
26	N NMHC/Byro	1.006+/-	.384	55	N Ecolyzer-4	.875+/-	.279
27	N Gnd Temp	56.349+/-	3.403	56	S GND PER	-3.505+/-	1.686
28	N CH4/Byron	1.282+/-	.131	57	N Ecolyzer-5	.835+/-	1.046
29	N WV 74'	346.357+/-	15.825	58	S GND PAR	1.533+/-	2.034
30	N CO/Byron	.181+/-	.081	59	N Rel Hum	40.808+/-	.339
31	N 74' Temp	54.473+/-	3.665	60	S GND VER	.309+/-	.877
32	N CO2/Byron	380.394+/-	6.687	61	N Solar Rad	204.738+/-	17.885
35	N HA 74'	10.282+/-	3.576	64	S VA 55'	.078+/-	1.318

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.88+/- 2.98	354.9+/- 17.0	3.0+/- 12.7
02	17 19 21	5.53+/- 2.62	347.4+/- 31.6	6.1+/- 23.0
03	38 40 42	7.03+/- 2.28	345.3+/- 23.1	3.8+/- 9.2
04	41 43 45	3.29+/- 1.69	350.0+/- 43.3	4.4+/- 21.1
05	50 52 54	8.27+/- 2.59	354.5+/- 19.9	1.5+/- 7.6
06	56 58 60	4.36+/- 1.84	337.2+/- 24.5	4.9+/- 15.7

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2685 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	60.3	10	50.9	5	52.4	65	59.2	12	52.4
Cat2	163	62.6	208	54.8	183	59.5	122	60.4	154	51.2
Cat3	23	65.1	41	57.1	56	59.8	10	62.9	9	49.8
Cat4	23	68.4	25	62.3	35	61.4	3	61.0	1	46.6
Cat5	7	68.5	20	62.2	20	61.5	1	61.3	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	62.4	67	56.6	77	57.7	89	56.5	50	46.2
Cat2	197	64.5	252	59.2	227	58.3	126	58.5	95	46.8
Cat3	17	65.0	50	59.1	39	57.9	12	58.1	3	45.0
Cat4	6	64.8	23	59.8	28	60.2	2	50.4	0	0
Cat5	2	66.8	12	62.5	17	59.4	1	58.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	470	17.5	58.2	1727	64.3	59.3	260	9.7	62.1	148	5.5	62.1	80	3.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-6.889+/-	3.094	37	N VA 102'	.124+/-	1.954
12	N Dasibi CO	.524+/-	.124	38	S BOT PER	-6.556+/-	2.810
13	N TOP PAR	1.176+/-	2.466	39	N VA 74'	.479+/-	1.627
14	N Dasibi O3	.040+/-	.003	40	S BOT PAR	2.384+/-	2.934
15	N TOP VER	.409+/-	1.556	41	N GND PER	-1.688+/-	1.814
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.307+/-	1.091
17	N BOT PER	-3.980+/-	2.910	43	N GND PAR	.648+/-	1.943
19	N BOT PAR	1.231+/-	2.166	45	N GND VER	.257+/-	1.033
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.318+/-	1.323	50	S TOP PER	-7.870+/-	2.699
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.022+/-	.092
23	N HA 102'	11.022+/-	3.329	52	S TOP PAR	1.906+/-	2.752
24	N THC/Byron	1.827+/-	.110	53	N Ecolyzer-3	.481+/-	.247
25	N WV 102'	344.192+/-	20.509	54	S TOP VER	.240+/-	1.057
26	N NMHC/Byro	1.487+/-	.205	55	N Ecolyzer-4	.831+/-	.311
27	N Gnd Temp	57.498+/-	3.070	56	S GND PER	-3.762+/-	2.145
28	N CH4/Byron	1.298+/-	.071	57	N Ecolyzer-5	1.519+/-	.761
29	N WV 74'	340.348+/-	21.960	58	S GND PAR	2.131+/-	1.974

30	N CD/Byron	.285+/-	.157	ppm	59	N Rel Hum	40.840+/-	.295	%
31	N 74' Temp	54.135+/-	2.445	DEGR F	60	S GND VER	.327+/-	.893	mph
32	N CD2/Byron	377.056+/-	3.341	ppm	61	N Solar Rad	82.385+/-	43.723	W/m <sup>2</sup>
35	N HA 74'	10.346+/-	3.611	mph	64	S VA 55'	.150+/-	1.431	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	7.64+/- 2.94	347.6+/- 21.4	6.5+/- 17.1			
02	17	19	21	5.02+/- 2.65	336.0+/- 37.2	10.1+/- 25.6			
03	38	40	42	7.67+/- 2.76	338.6+/- 22.4	4.0+/- 9.2			
04	41	43	45	2.95+/- 1.85	337.9+/- 44.7	8.4+/- 25.1			
05	50	52	54	8.61+/- 2.90	346.2+/- 17.9	3.2+/- 9.2			
06	56	58	60	4.86+/- 2.12	330.3+/- 24.8	5.7+/- 12.1			

Average for hourly period ending at 16:00:00  
Traffic Data  
 Total Traffic = 9843 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	114	60.5	94	52.1	17	53.0	212	58.7	41	52.8
Cat 2	602	62.5	789	54.7	840	59.7	471	60.1	507	51.5
Cat 3	98	64.4	154	57.8	224	60.3	54	61.1	38	51.0
Cat 4	70	66.8	105	61.1	142	61.3	24	58.5	12	49.4
Cat 5	34	67.4	58	62.4	101	61.0	10	58.4	1	45.9

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	273	62.3	259	57.5	293	58.6	275	57.5	119	46.6
Cat 2	788	64.3	867	59.3	796	59.4	464	59.3	310	47.6
Cat 3	79	64.1	177	59.4	148	59.1	43	59.7	8	45.3
Cat 4	48	65.6	86	60.9	91	61.2	14	58.9	0	.0
Cat 5	10	65.8	31	63.6	47	60.9	4	58.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	1697	17.2	58.8	6234	63.3	59.8	1023	10.4	61.8	592	6.0	62.3	297	3.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-7.370+/- 3.375	mph	37	N VA 102'	- .080+/- 1.636	mph
12	N Dasibi CD	.527+/- .191	ppm	38	S BDT PER	-6.418+/- 2.784	mph
13	N TDP PAR	.798+/- 2.523	mph	39	N VA 74'	.398+/- 1.657	mph
14	N Dasibi D3	.040+/- .003	ppm	40	S BDT PAR	1.720+/- 2.768	mph
15	N TDP VER	.158+/- 1.640	mph	41	N GND PER	-2.065+/- 1.977	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.400+/- 1.051	mph
17	N BDT PER	-4.395+/- 3.207	mph	43	N GND PAR	.605+/- 2.087	mph
19	N BDT PAR	1.039+/- 2.118	mph	45	N GND VER	.172+/- 1.095	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.154+/- 1.584	mph	50	S TDP PER	-7.692+/- 2.826	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	.914+/- .120	ppm
23	N HA 102'	11.358+/- 3.228	mph	52	S TDP PAR	1.143+/- 2.791	mph
24	N THC/Byron	1.845+/- .091	ppm	53	N Ecolyzer-3	.484+/- .262	ppm
25	N WV 102'	349.155+/- 18.929	DEGR AZ	54	S TDP VER	.261+/- 1.106	mph
26	N NMHC/Byro	1.312+/- .319	ppm	55	N Ecolyzer-4	.771+/- .289	ppm
27	N Gnd Temp	57.144+/- 3.514	DEGR F	56	S GND PER	-3.578+/- 1.926	mph
28	N CH4/Byron	1.320+/- .094	ppm	57	N Ecolyzer-5	.610+/- .804	ppm
29	N WV 74'	344.821+/- 19.698	DEGR AZ	58	S GND PAR	1.724+/- 2.031	mph
30	N CD/Byron	.206+/- .111	ppm	59	N Rel Hum	40.946+/- .323	%
31	N 74' Temp	54.148+/- 3.514	DEGR F	60	S GND VER	.300+/- .873	mph
32	N CD2/Byron	374.735+/- 6.730	ppm	61	N Solar Rad	208.864+/- 84.274	W/m <sup>2</sup>
35	N HA 74'	10.626+/- 3.751	mph	64	S VA 55'	.186+/- 1.517	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	8.02+/- 3.32	353.3+/- 20.0	4.3+/- 15.3			
02	17	19	21	5.41+/- 2.90	342.5+/- 38.3	8.1+/- 25.0			
03	38	40	42	7.29+/- 2.78	344.3+/- 21.8	5.1+/- 10.6			
04	41	43	45	3.31+/- 1.79	341.8+/- 44.4	6.7+/- 23.5			
05	50	52	54	8.32+/- 2.88	351.7+/- 18.5	3.7+/- 10.1			
06	56	58	60	4.50+/- 2.04	334.7+/- 25.6	5.6+/- 14.2			

16:11:43 -- BEGIN CAL NCO 3 GRD  
 16:21:24 -- BEGIN CAL. NCO-4 GRD  
 16:21:38 -- END CAL. NCO-2  
 16:31:26 -- DISREGARD DATA FROM 16:20 5 MIN. AV. FOR NCO 3 GRD  
 16:46:23 -- END CAL. NCO-4  
 16:46:42 -- BEG CAL. NCO-5  
 16:54:17 -- END CAL. NCO-5 GRD

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2725 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	60.3	22	53.7	2	58.2	82	59.3	23	51.2
Cat2	168	62.8	215	54.6	179	59.2	131	59.4	152	49.8
Cat3	32	64.2	40	57.7	56	59.1	12	58.2	11	51.1
Cat4	19	67.0	26	61.5	35	60.2	5	57.7	6	50.5
Cat5	6	73.0	19	63.8	28	63.8	0	.0	1	47.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	62.7	54	57.4	75	58.2	80	57.1	47	47.2
Cat2	199	64.1	244	58.6	236	58.2	128	58.2	88	46.9
Cat3	14	65.8	39	59.4	41	58.6	19	58.1	4	43.8
Cat4	13	65.0	20	60.2	32	60.7	6	59.6	0	.0
Cat5	4	79.4	19	63.3	10	67.6	3	77.7	1	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	464	17.0	57.8	1740	63.9	59.2	268	9.8	61.2	162	5.9	66.2	91	3.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-7.933+/-	3.321	37	N VA 102'	-0.099+/-	1.370
12	N Desibi CO	.533+/-	.106	38	S BOT PER	-7.136+/-	3.176
13	N TOP PAR	1.419+/-	2.605	39	N VA 74'	.248+/-	1.570
14	N Desibi O3	-.041+/-	-.002	40	S BOT PAR	2.699+/-	2.543
15	N TOP VER	-.022+/-	1.355	41	N GND PER	-2.210+/-	1.966
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.285+/-	1.173
17	N BOT PER	-4.098+/-	3.653	43	N GND PAR	.479+/-	1.864
19	N BOT PAR	1.406+/-	2.338	45	N GND VER	.107+/-	.944
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	-.079+/-	1.443	50	S TOP PER	-8.283+/-	3.156
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	12.216+/-	2.898	52	S TOP PAR	2.314+/-	2.507
24	N THC/Byron	1.747+/-	.071	53	N Ecolyzer-3	.499+/-	.276
25	N WV 102'	343.300+/-	16.454	54	S TOP VER	.184+/-	1.212
26	N NMHC/Byro	1.202+/-	.180	55	N Ecolyzer-4	.970+/-	.248
27	N Gnd Temp	56.297+/-	2.254	56	S GND PER	-4.012+/-	2.137
28	N CH4/Byron	1.350+/-	.053	57	N Ecolyzer-5	.448+/-	.754
29	N WV 74'	341.148+/-	16.409	58	S GND PAR	1.991+/-	1.872
30	N CO/Byron	.207+/-	.158	59	N Rel Hum	40.547+/-	.261
31	N 74' Temp	50.305+/-	2.885	60	S GND VER	.319+/-	.818
32	N CO2/Byron	377.219+/-	4.226	61	N Solar Rad	43.054+/-	2.835
35	N HA 74'	11.428+/-	3.401	64	S VA 55'	.048+/-	1.670

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.60+/- 3.26	349.4+/- 18.7	1.6+/- 10.7
02	17 19 21	5.30+/- 3.40	338.7+/- 44.5	4.0+/- 26.4
03	38 40 42	8.21+/- 3.00	338.7+/- 21.0	3.8+/- 9.7
04	41 43 45	3.32+/- 1.64	348.9+/- 42.8	4.4+/- 19.9
05	50 52 54	9.06+/- 3.09	344.3+/- 17.4	3.0+/- 8.8
06	56 58 60	5.00+/- 1.98	332.6+/- 25.7	4.5+/- 10.7

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2758 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	58.7	6	53.2	2	50.8	62	58.6	22	50.8
Cat2	208	61.6	220	54.0	172	57.8	149	58.0	163	50.3
Cat3	31	63.8	82	56.3	58	58.2	16	56.6	10	52.9
Cat4	17	67.1	29	60.5	43	59.5	13	58.6	5	48.3
Cat5	11	67.3	22	61.4	29	58.4	2	57.2	2	40.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	63.8	84	57.9	80	58.5	78	57.8	31	45.6
Cat2	176	65.0	252	58.3	220	57.8	134	58.1	99	46.0
Cat3	7	68.2	38	57.9	32	59.5	6	54.7	2	42.0
Cat4	10	64.7	24	61.0	16	57.3	3	61.3	0	.0
Cat5	0	.0	5	62.1	6	62.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	470	17.0	57.2	1791	64.9	58.3	280	9.4	60.4	160	5.8	60.9	77	2.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.788+/-	2.665	37	N VA 102'	-0.066+/-	1.321
12	N Desibi CO	.518+/-	.115	38	S BOT PER	-5.360+/-	1.887
13	N TOP PAR	2.619+/-	2.525	39	N VA 74'	-.012+/-	1.373
14	N Desibi O3	-.037+/-	-.002	40	S BOT PAR	4.179+/-	2.727
15	N TOP VER	-.064+/-	1.382	41	N GND PER	-.994+/-	1.679
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.683+/-	.988
17	N BOT PER	-2.869+/-	2.438	43	N GND PAR	1.813+/-	2.339
19	N BOT PAR	2.320+/-	2.104	45	N GND VER	.179+/-	1.063
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	-.112+/-	1.301	50	S TOP PER	-6.308+/-	1.986
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.035+/-	.823
23	N HA 102'	10.661+/-	2.989	52	S TOP PAR	3.797+/-	2.726
24	N THC/Byron	1.837+/-	.085	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	334.506+/-	16.961	54	S TOP VER	.441+/-	.981
26	N NMHC/Byro	1.400+/-	.232	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	54.421+/-	3.489	56	S GND PER	-3.424+/-	1.615
28	N CH4/Byron	1.228+/-	.098	57	N Ecolyzer-5	.615+/-	.888
29	N WV 74'	329.202+/-	19.234	58	S GND PAR	3.166+/-	1.847
30	N CO/Byron	.202+/-	.093	59	N Rel Hum	40.791+/-	.320
31	N 74' Temp	52.936+/-	3.847	60	S GND VER	.416+/-	.662

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	6.90+/- 2.80	335.3+/- 22.2	2.4+/- 13.9
02	17	18	21	4.47+/- 2.39	315.9+/- 39.1	3.7+/- 22.4
03	38	40	42	7.23+/- 2.51	324.3+/- 17.3	6.7+/- 8.6
04	41	43	45	3.18+/- 1.90	307.7+/- 46.6	6.2+/- 24.3
05	50	52	54	7.79+/- 2.46	330.4+/- 17.0	4.7+/- 8.9
06	56	58	60	4.99+/- 1.85	318.7+/- 19.8	5.7+/- 9.0

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2656 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	34	58.8	11	51.5	2	51.5	69	58.4	13	50.2
Cat 2	189	61.8	203	53.6	183	58.2	137	59.6	144	50.4
Cat 3	23	63.9	47	56.5	51	58.5	9	60.5	8	54.3
Cat 4	18	65.2	37	59.9	36	59.7	3	55.1	5	50.6
Cat 5	12	67.5	25	62.3	24	58.9	2	57.5	1	53.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	84	53.8	34	57.6	95	56.2	67	57.8	53	48.3
Cat 2	166	64.8	224	58.3	223	57.8	122	58.2	78	48.6
Cat 3	15	65.6	36	58.0	32	59.7	12	58.3	3	47.4
Cat 4	6	64.1	18	58.6	20	59.8	6	53.4	1	32.4
Cat 5	1	****	7	57.7	9	65.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	522	19.7	57.6	1669	62.8	58.9	236	8.9	59.6	148	5.6	62.7	81	3.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.099+/-	3.071	37	N VA 102'	-.145+/-	1.470
12	N Dasibi CD	.534+/-	.098	38	S BOT PER	-5.389+/-	2.058
13	N TOP PAR	3.770+/-	2.506	39	N VA 74'	-.002+/-	1.474
14	N Dasibi O3	.036+/-	.003	40	S BOT PAR	5.194+/-	1.934
15	N TOP VER	.061+/-	1.735	41	N GND PER	-.872+/-	1.835
16	N ND/TECD	*****+/-	*****	42	S BOT VER	.637+/-	.897
17	N BOT PER	-2.121+/-	2.449	43	N GND PAR	2.104+/-	2.082
18	N BOT PAR	3.083+/-	2.274	44	N GND VER	-.473+/-	1.157
19	N ND2/TECD	*****+/-	*****	45	N Ecolyzer-1	*****+/-	*****
20	N BOT VER	-.015+/-	1.553	50	S TOP PER	-6.475+/-	2.064
21	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	-.995+/-	.152
22	N HA 102'	11.735+/-	2.483	52	S TOP PAR	4.958+/-	1.832
23	N THC/Byron	1.823+/-	.092	53	N Ecolyzer-3	1.016+/-	.248
24	N WV 102'	322.758+/-	11.596	54	S TOP VER	-.302+/-	1.032
25	N MMHC/Byro	1.443+/-	.077	55	N Ecolyzer-4	*****+/-	*****
26	N Gnd Temp	51.190+/-	3.662	56	S GND PER	-3.631+/-	1.810
27	N CH4/Byron	1.353+/-	.078	57	N Ecolyzer-5	-.605+/-	.898
28	N WV 74'	317.720+/-	19.129	58	S GND PAR	3.867+/-	1.532
29	N CD/Byron	.700+/-	.454	58	N Rel Hum	42.178+/-	.377
30	N 74' Temp	51.112+/-	2.924	60	S GND VER	-.498+/-	.671
31	N CD2/Byron	377.951+/-	4.498	61	N Solar Rad	37.514+/-	5.068
32	N HA 74'	9.749+/-	3.501	64	S VA 55'	.162+/-	1.432
35							

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.03+/- 3.13	322.8+/- 23.4	6.0+/- 22.8
02	17	18	21	4.89+/- 2.36	299.2+/- 34.0	5.6+/- 26.4
03	38	40	42	7.81+/- 1.98	315.8+/- 14.8	5.6+/- 7.2
04	41	43	45	3.40+/- 1.69	291.1+/- 42.8	12.2+/- 26.3
05	50	52	54	8.37+/- 2.30	322.5+/- 10.8	3.2+/- 7.6
06	56	58	60	5.60+/- 1.74	312.7+/- 17.1	6.0+/- 8.2

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2725 vehicles averaging 57.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	33	59.4	9	51.8	8	51.2	57	58.3	12	52.7
Cat 2	207	60.2	198	53.4	171	58.4	138	59.5	143	49.7
Cat 3	24	61.3	48	55.8	62	58.4	12	59.8	12	49.2
Cat 4	18	64.3	32	59.8	31	61.1	6	62.3	3	49.1
Cat 5	6	66.5	25	62.2	22	59.0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	89	61.6	78	56.0	98	57.2	81	56.5	53	45.9
Cat 2	188	63.6	237	57.2	228	57.6	129	56.6	104	45.7
Cat 3	10	64.8	46	58.5	35	56.8	14	57.8	2	44.8
Cat 4	8	65.2	24	58.8	33	58.8	9	59.1	1	38.7
Cat 5	1	60.0	10	55.7	12	58.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	496	18.2	56.7	1723	63.2	57.8	265	9.7	60.2	165	6.1	60.2	76	2.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-4.481+/-	2.722	37	N VA 102'	-.259+/-	1.463
12	N Dasibi CD	.542+/-	.101	38	S BOT PER	-4.954+/-	2.087
13	N TOP PAR	3.053+/-	2.305	39	N VA 74'	.103+/-	1.465
14	N Dasibi O3	.034+/-	.003	40	S BOT PAR	5.214+/-	2.045
15	N TOP VER	.102+/-	1.453	41	N GND PER	-.715+/-	1.506
16	N ND/TECD	*****+/-	*****	42	S BOT VER	-.679+/-	.954
17	N BOT PER	-1.504+/-	2.119	43	N GND PAR	2.214+/-	2.137
18	N BOT PAR	2.229+/-	1.810	45	N GND VER	.252+/-	.950
19	N ND2/TECD	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
20	N BOT VER	-.147+/-	1.398	50	S TOP PER	-8.068+/-	2.132
21	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	-.967+/-	.054
22	N HA 102'	10.881+/-	3.358	52	S TOP PAR	4.690+/-	2.053
23							



24	N THC/Byron	1.845+/-	.055	ppm	53	N Ecolyzer-3	.993+/-	.252	ppm
25	N WV 102'	324.741+/-	13.494	DEGR AZ	54	S TOP VER	.554+/-	1.079	mph
26	N NMHC/Byro	1.746+/-	.198	ppm	55	N Ecolyzer-4	.783+/-	1.254	ppm
27	N Gnd Temp	52.523+/-	3.877	DEGR F	56	S GND PER	-3.366+/-	1.760	mph
28	N CH4/Byron	1.343+/-	.076	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	321.220+/-	19.543	DEGR AZ	58	S GND PAR	3.896+/-	1.740	mph
30	N CO/Byron	.192+/-	.084	ppm	59	N Rel Hum	43.006+/-	.594	%
31	N 74' Temp	50.852+/-	2.368	DEGR F	60	S GND VER	.332+/-	.614	mph
32	N CO2/Byron	375.590+/-	2.985	ppm	61	N Solar Rad	26.932+/-	2.819	W/m**2
35	N HA 74'	8.974+/-	3.655	mph	64	S VA 55'	.496+/-	1.451	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.97+/-	2.93	324.3+/-	26.5	7.2+/- 21.6
02	17 19 21	3.52+/-	2.13	293.3+/-	36.2	10.2+/- 31.4
03	38 40 42	7.58+/-	2.03	313.1+/-	15.7	6.4+/- 8.5
04	41 43 45	3.14+/-	1.83	292.2+/-	41.3	7.2+/- 21.9
05	50 52 54	7.99+/-	2.29	322.3+/-	13.2	5.5+/- 9.1
06	56 58 60	5.46+/-	1.80	310.2+/-	18.8	4.6+/- 8.0

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10864 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	128	59.3	48	52.8	14	52.2	250	58.6	70	51.1
Cat 2	770	61.5	836	53.9	705	58.4	555	59.1	602	50.1
Cat 3	110	63.4	197	56.5	227	58.5	49	58.5	41	51.6
Cat 4	70	65.9	124	60.4	145	60.1	27	58.9	19	49.7
Cat 5	35	68.2	91	62.4	103	60.4	4	57.4	4	45.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	296	63.1	308	57.2	348	58.0	306	57.3	184	46.3
Cat 2	705	64.4	957	58.1	907	57.9	513	57.8	369	46.3
Cat 3	46	65.9	157	58.5	140	58.6	51	57.7	11	44.7
Cat 4	37	68.8	86	59.7	101	59.3	24	58.1	2	35.5
Cat 5	8	66.1	41	60.3	37	63.3	3	77.7	1	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	1952	18.0	57.3	8923	63.7	58.5	1029	9.5	60.4	635	5.8	62.7	325	3.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-5.822+/-	3.224	37	N VA 102'	-.008+/-	1.413
12	N Dasibi CO	.532+/-	.106	38	S BOT PER	-5.705+/-	2.500
13	N TOP PAR	2.715+/-	2.525	39	N VA 74'	.084+/-	1.474
14	N Dasibi O3	.037+/-	.004	40	S BOT PAR	4.321+/-	2.556
15	N TOP VER	.019+/-	1.487	41	N GND PER	-1.188+/-	1.849
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.571+/-	1.015
17	N BOT PER	-2.848+/-	2.893	43	N GND PAR	1.652+/-	2.241
18	N BOT PAR	2.259+/-	2.218	45	N GND VER	.253+/-	1.039
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	-.015+/-	1.427	50	S TOP PER	-6.784+/-	2.535
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	1.003+/-	.470
23	N HA 102'	11.318+/-	2.974	52	S TOP PAR	3.940+/-	2.523
24	N THC/Byron	1.838+/-	.098	53	N Ecolyzer-3	.847+/-	.335
25	N WV 102'	331.242+/-	16.747	54	S TOP VER	.370+/-	1.086
26	N NMHC/Byro	1.448+/-	.264	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	53.633+/-	3.819	56	S GND PER	-3.609+/-	1.854
28	N CH4/Byron	1.319+/-	.082	57	N Ecolyzer-5	.573+/-	.859
29	N WV 74'	327.363+/-	20.430	58	S GND PAR	3.230+/-	1.913
30	N CO/Byron	.325+/-	.326	59	N Rel Hum	41.630+/-	1.092
31	N 74' Temp	51.301+/-	3.136	60	S GND VER	.391+/-	.698
32	N CO2/Byron	376.343+/-	4.207	61	N Solar Rad	39.750+/-	11.954
35	N HA 74'	8.977+/-	3.588	64	S VA 55'	.241+/-	1.479

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.13+/-	3.17	333.1+/-	24.9	4.3+/- 18.1
02	17 19 21	4.49+/-	2.89	310.2+/-	40.4	5.9+/- 26.9
03	38 40 42	7.71+/-	2.44	322.8+/-	19.7	5.6+/- 8.6
04	41 43 45	3.28+/-	1.77	309.2+/-	45.9	7.5+/- 23.3
05	50 52 54	8.30+/-	2.59	329.8+/-	17.1	4.1+/- 8.7
06	56 58 60	5.28+/-	1.86	318.3+/-	22.1	5.2+/- 9.0

17:07:04 -- ADJUSTED RANGES ON CH 3 AND 5 RADARS GRD  
 17:12:40 -- WILL ADJUST CH 3 FURTHER ALSO CH 1 CH 5 LOOKS OK GRD  
 17:23:42 -- CH3 AND CH 5 RADARS APPEAR TO BE ALL RIGHT NOW GRD  
 Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2841 Vehicles averaging 55.8 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	55.5	15	51.0	67	55.9	77	57.9	14	51.3
Cat2	216	60.0	226	52.5	206	56.9	153	58.6	125	49.6
Cat3	30	62.2	39	54.9	59	57.3	4	60.7	8	50.1
Cat4	19	64.0	35	60.7	19	59.0	8	57.7	3	50.4
Cat5	9	64.8	27	59.4	7	59.2	2	54.9	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	59.8	79	54.9	87	55.0	73	54.7	54	44.1
Cat2	196	61.2	254	54.2	243	53.7	117	56.7	84	46.6
Cat3	8	61.1	40	54.1	47	56.4	9	60.6	2	45.8
Cat4	10	66.8	20	57.2	27	54.6	3	57.9	0	0
Cat5	1	59.5	9	58.8	10	57.9	1	58.4	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	565	19.9	55.5	1820	64.1	56.8	246	8.7	59.3	144	5.1	59.7	66	2.3

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TDP PER	-4.725+/-	2.679	37	N VA 102'	-.098+/-	1.346							
12	N Dasibi CD	.720+/-	.370	38	S BDT PER	-4.689+/-	1.937							
13	N TDP PAR	3.057+/-	2.105	39	N VA 74'	-.029+/-	1.396							
14	N Dasibi D3	-.033+/-	.003	40	S BDT PAR	4.293+/-	2.076							
15	N TOP VER	-.083+/-	1.425	41	N GND PER	-.401+/-	1.626							
16	N NDX/TECD	*****+/-*****		42	S BDT VER	-.664+/-	.900							
17	N BDT PER	-1.760+/-	2.260	43	N GND PAR	2.143+/-	1.785							
19	N BDT PAR	2.272+/-	1.830	45	N GND VER	-.338+/-	.969							
20	N ND2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****								
21	N BDT VER	-.026+/-	1.421	50	S TOP PER	-5.389+/-	1.924							
22	N ND/TECD	*****+/-*****		51	N Ecolyzer-2	1.078+/-	.104							
23	N HA 102'	10.716+/-	2.751	52	S TOP PAR	3.957+/-	1.989							
24	N THC/Byron	1.891+/-	.089	53	N Ecolyzer-3	1.105+/-	.331							
25	N WV 102'	326.747+/-	13.301	54	S TOP VER	-.552+/-	.951							
26	N NMHC/Byro	1.355+/-	.364	55	N Ecolyzer-4	-.825+/-	.319							
27	N Gnd Temp	49.054+/-	4.275	56	S GND PER	-2.853+/-	1.458							
28	N CH4/Byron	1.391+/-	.106	57	N Ecolyzer-5	-.858+/-	.923							
29	N WV 74'	321.437+/-	18.281	58	S GND PAR	3.424+/-	1.545							
30	N CD/Byron	-.225+/-	.070	59	N Rel Hum	44.211+/-	.380							
31	N 74' Temp	48.324+/-	3.669	60	S GND VER	-.310+/-	.530							
32	N CD2/Byron	382.348+/-	5.275	61	N Solar Rad	18.938+/-	3.197							
35	N HA 74'	9.213+/-	3.226	84	S VA 55'	.500+/-	1.273							

UVW Vector Calculations									
UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)					
01	11 13 15	6.08+/- 2.85	326.5+/- 24.4	4.6+/- 19.5					
02	17 19 21	3.75+/- 2.18	301.9+/- 37.3	6.5+/- 30.4					
03	38 40 42	6.73+/- 2.10	317.8+/- 16.2	6.5+/- 8.9					
04	41 43 45	3.08+/- 1.43	280.7+/- 39.1	7.8+/- 21.5					
05	50 52 54	6.99+/- 2.20	324.0+/- 13.5	5.7+/- 8.6					
06	56 58 60	4.70+/- 1.63	309.9+/- 18.6	4.7+/- 8.3					

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 3007 vehicles averaging 55.2 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	117	56.6	56	50.7	71	56.9	89	58.3	15	50.4
Cat2	177	58.2	196	51.1	211	56.7	145	59.0	141	49.8
Cat3	33	59.6	35	54.6	53	57.1	8	56.6	8	50.8
Cat4	13	59.8	33	54.9	15	57.2	8	60.1	6	52.1
Cat5	14	60.8	22	59.4	6	60.6	1	64.8	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	59.5	79	54.8	81	55.1	87	55.4	58	44.9
Cat2	223	61.3	277	54.6	252	53.3	139	55.7	93	46.0
Cat3	11	62.8	47	55.1	41	54.2	9	56.4	4	42.3
Cat4	6	65.3	29	55.8	25	52.1	1	49.9	1	46.0
Cat5	3	61.8	7	55.0	9	54.0	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.0	705	23.4	55.1	1854	61.7	56.0	249	8.3	55.8	137	4.6	58.8	62	2.1

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TOP PER	-4.325+/-	2.463	37	N VA 102'	-.128+/-	1.349							
12	N Dasibi CD	-.709+/-	.170	38	S BDT PER	-5.177+/-	1.886							
13	N TOP PAR	2.905+/-	2.120	39	N VA 74'	-.109+/-	1.246							
14	N Dasibi D3	-.029+/-	.003	40	S BDT PAR	4.753+/-	1.845							
15	N TOP VER	-.201+/-	1.410	41	N GND PER	-.182+/-	1.439							
16	N NDX/TECD	*****+/-*****		42	S BDT VER	-.602+/-	.915							
17	N BDT PER	-1.380+/-	1.860	43	N GND PAR	2.021+/-	2.057							
19	N BDT PAR	2.409+/-	1.890	45	N GND VER	-.281+/-	.934							
20	N ND2/TECD	*****+/-*****		49	N Ecolyzer-1	*****+/-*****								
21	N BDT VER	-.121+/-	1.404	50	S TOP PER	-5.795+/-	1.875							
22	N ND/TECD	*****+/-*****		51	N Ecolyzer-2	1.103+/-	.095							
23	N HA 102'	10.838+/-	2.453	52	S TOP PAR	4.419+/-	1.753							
24	N THC/Byron	1.842+/-	.087	53	N Ecolyzer-3	1.122+/-	.238							
25	N WV 102'	324.089+/-	10.231	54	S TOP VER	-.384+/-	.957							
26	N NMHC/Byro	1.208+/-	.169	55	N Ecolyzer-4	-.989+/-	.290							
27	N Gnd Temp	48.898+/-	3.695	56	S GND PER	-3.504+/-	1.760							
28	N CH4/Byron	1.363+/-	.082	57	N Ecolyzer-5	-.953+/-	.667							
29	N WV 74'	317.644+/-	17.720	58	S GND PAR	3.618+/-	1.324							
30	N CD/Byron	-.161+/-	.110	59	N Rel Hum	45.090+/-	.431							
31	N 74' Temp	47.569+/-	3.592	60	S GND VER	-.372+/-	.657							
32	N CD2/Byron	379.091+/-	3.349	61	N Solar Rad	9.719+/-	2.380							
35	N HA 74'	8.666+/-	3.430	84	S VA 55'	-.148+/-	1.432							

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.69+/- 2.70	326.8+/- 22.7	5.8+/- 19.1
02	17	19	21	3.49+/- 2.12	284.3+/- 33.3	6.7+/- 30.2
03	38	40	42	7.33+/- 1.84	317.4+/- 14.0	5.5+/- 6.1
04	41	43	45	3.00+/- 1.53	276.8+/- 44.7	8.8+/- 24.5
05	50	52	54	7.51+/- 2.58	322.8+/- 11.1	4.0+/- 8.6
06	56	58	60	5.33+/- 1.55	312.6+/- 17.2	4.8+/- 7.1

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2559 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	56.7	39	51.0	70	56.1	57	57.5	13	51.5
Cat2	147	58.4	216	51.6	239	56.7	140	58.7	130	50.2
Cat3	27	61.3	27	55.7	26	58.8	7	59.4	6	44.9
Cat4	16	62.9	23	57.7	15	59.7	5	59.4	3	50.4
Cat5	4	64.4	13	60.4	5	64.1	1	63.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	63.1	91	57.1	106	58.0	74	58.0	47	45.8
Cat2	164	65.4	214	59.1	184	59.2	84	59.1	82	46.6
Cat3	7	67.7	35	60.2	27	59.4	7	58.3	1	39.4
Cat4	4	66.0	11	60.5	14	58.7	4	56.3	0	0
Cat5	0	0	3	58.6	3	60.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	685	26.0	56.9	1600	62.5	58.8	170	6.6	59.5	95	3.7	61.3	29	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.196+/- 2.072	mph	37	N VA 102'	.137+/- 1.079	mph
12	N Dasibi CO	.809+/- .183	ppm	38	S BOT PER	-3.635+/- 1.250	mph
13	N TOP PAR	2.119+/- 1.535	mph	39	N VA 74'	.133+/- .917	mph
14	N Dasibi O3	.024+/- .003	ppm	40	S BOT PAR	3.845+/- 1.449	mph
15	N TOP VER	.019+/- 1.048	mph	41	N GND PER	-.107+/- 1.285	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.750+/- .706	mph
17	N BOT PER	-.930+/- 1.502	mph	43	N GND PAR	1.692+/- 1.427	mph
19	N BOT PAR	1.679+/- 1.230	mph	45	N GND VER	.148+/- .633	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.061+/- .982	mph	50	S TOP PER	-4.207+/- 1.475	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	1.215+/- .108	ppm
23	N HA 102'	7.882+/- 2.041	mph	52	S TOP PAR	3.307+/- 1.173	mph
24	N THC/Byron	2.008+/- .109	ppm	53	N EcoLyzr-3	1.035+/- .284	ppm
25	N WV 102'	324.890+/- 10.580	DEGR AZ	54	S TOP VER	.395+/- .888	mph
26	N NMHC/Byro	1.464+/- .187	ppm	55	N EcoLyzr-4	1.124+/- .334	ppm
27	N Gnd Temp	45.867+/- 3.366	DEGR F	56	S GND PER	-2.449+/- 1.241	ppm
28	N CHA/Byron	1.425+/- .089	ppm	57	N EcoLyzr-5	1.153+/- .624	ppm
29	N WV 74'	317.414+/- 16.226	DEGR AZ	58	S GND PAR	3.145+/- 1.101	mph
30	N CO/Byron	.202+/- .076	ppm	59	N Rel Hum	46.670+/- .566	%
31	N 74' Temp	46.787+/- 3.285	DEGR F	60	S GND VER	.406+/- .421	mph
32	N CO2/Byron	378.440+/- 6.411	ppm	61	N Solar Rad	3.270+/- 1.570	W/m**2
35	N HA 74'	6.408+/- 2.599	mph	64	S VA 55'	.245+/- .951	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	4.20+/- 2.19	324.4+/- 26.4	5.4+/- 19.1
02	17	19	21	2.49+/- 1.50	290.0+/- 35.3	10.2+/- 29.2
03	38	40	42	5.62+/- 1.39	313.1+/- 13.6	8.3+/- 7.8
04	41	43	45	2.32+/- 1.27	279.0+/- 41.4	5.0+/- 19.4
05	50	52	54	5.52+/- 1.53	321.3+/- 11.0	5.0+/- 7.8
06	56	58	60	4.18+/- 1.21	307.3+/- 15.8	6.8+/- 7.1

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2369 vehicles averaging 56.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	57.5	105	50.9	64	56.4	56	59.2	11	50.8
Cat2	126	59.1	164	52.2	187	57.1	114	58.8	114	50.2
Cat3	15	60.9	17	57.3	30	57.3	14	58.1	2	48.9
Cat4	8	63.8	12	59.5	13	56.6	2	56.3	2	46.9
Cat5	2	68.2	8	61.9	5	56.0	1	62.0	2	41.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	62.2	98	56.6	104	57.1	58	55.4	51	46.4
Cat2	168	64.0	195	58.0	195	57.9	88	58.0	73	45.9
Cat3	7	63.9	27	58.6	27	57.7	3	60.5	3	40.5
Cat4	10	62.1	18	59.6	15	58.5	6	58.5	0	0
Cat5	1	68.0	5	57.1	2	62.6	1	54.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	687	29.0	56.8	1424	60.1	58.0	145	6.1	59.2	86	3.6	58.8	27	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.820+/- 1.978	mph	37	N VA 102'	-.077+/- 1.173	mph
12	N Dasibi CO	.731+/- .127	ppm	38	S BOT PER	-3.791+/- 1.346	mph
13	N TOP PAR	2.590+/- 1.883	mph	39	N VA 74'	-.037+/- 1.071	mph
14	N Dasibi O3	.023+/- .001	ppm	40	S BOT PAR	3.774+/- 1.410	mph
15	N TOP VER	.072+/- 1.177	mph	41	N GND PER	-.634+/- 1.379	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.863+/- .804	mph
17	N BOT PER	-1.289+/- 1.872	mph	43	N GND PAR	1.034+/- 1.212	mph
19	N BOT PAR	1.974+/- 1.545	mph	45	N GND VER	.205+/- .735	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	*****+/-*****	ppm
21	N BOT VER	.101+/- 1.238	mph	50	S TOP PER	-4.630+/- 1.545	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	1.301+/- .079	ppm
23	N HA 102'	8.910+/- 1.909	mph	52	S TOP PAR	3.350+/- 1.159	mph
24	N THC/Byron	1.981+/- .086	ppm	53	N EcoLyzr-3	1.138+/- .237	ppm
25	N WV 102'	326.672+/- 9.926	DEGR AZ	54	S TOP VER	.349+/- .805	ppm
26	N NMHC/Byro	1.226+/- .329	ppm	55	N EcoLyzr-4	1.210+/- .323	ppm
27	N Gnd Temp	49.419+/- 4.785	DEGR F	58	S GND PER	-2.209+/- 1.171	mph

28	N CH4/Byron	1.285+/-	.095	ppm	57	N Ecolyzer-5	1.219+/-	.519	ppm
29	N WV 74'	320.941+/-	16.478	DEGR AZ	58	S GND PAR	2.818+/-	1.138	mph
30	N CD/Byron	.274+/-	.107	ppm	59	N Rel Hum	48.184+/-	.492	%
31	N 74' Temp	48.950+/-	2.774	DEGR F	60	S GND VER	2.343+/-	.510	mph
32	N CD2/Byron	383.488+/-	5.225	ppm	61	N Solar Rad	2.589+/-	1.788	W/m <sup>2</sup>
35	N HA 74'	7.534+/-	2.563	mph	64	S VA 55'	.054+/-	1.094	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.97+/- 2.16	326.3+/- 19.9	5.0+/- 16.9		
02	17 19 21	3.12+/- 1.80	293.6+/- 36.4	7.5+/- 31.4		
03	38 40 42	5.60+/- 1.45	315.3+/- 13.4	7.5+/- 8.7		
04	41 43 45	2.07+/- 1.08	294.8+/- 47.5	9.0+/- 22.8		
05	50 52 54	5.90+/- 1.57	323.2+/- 11.6	4.4+/- 8.5		
06	56 58 60	3.83+/- 1.08	308.0+/- 19.5	6.1+/- 8.4		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10776 vehicles averaging 56.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	332	56.9	215	50.8	272	56.3	258	58.2	53	51.0
Cat2	686	59.0	802	51.9	843	56.8	552	58.8	510	49.9
Cat3	105	61.0	115	55.3	168	57.4	33	58.3	24	48.9
Cat4	56	62.7	103	58.0	82	58.2	23	58.8	14	50.6
Cat5	29	63.0	70	59.9	23	60.0	5	60.1	2	41.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	264	61.1	348	55.9	378	56.4	282	55.9	210	45.3
Cat2	751	62.8	940	56.2	874	55.7	428	57.1	332	46.3
Cat3	33	63.7	149	56.7	142	56.6	28	58.7	10	42.2
Cat4	30	64.8	78	57.7	81	55.3	14	57.1	1	46.0
Cat5	5	62.2	24	57.1	24	57.2	2	58.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	2622	24.3	56.0	6698	62.2	57.2	810	7.5	58.3	462	4.3	59.5	184	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	-4.017+/- 2.380	mph	37	N VA 102'	.072+/- 1.242	mph
12	N Dasibi CD	.742+/- .235	ppm	38	S BDT PER	-4.323+/- 1.745	mph
13	N TDP PAR	2.668+/- 1.909	mph	39	N VA 74'	-.059+/- 1.171	mph
14	N Dasibi O3	.027+/- .005	ppm	40	S BDT PAR	4.181+/- 1.754	mph
15	N TDP VER	.052+/- 1.277	mph	41	N GND PER	-.331+/- 1.449	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	-.670+/- .835	mph
17	N BDT PER	-1.340+/- 1.912	mph	43	N GND PAR	1.723+/- 1.704	mph
19	N BDT PAR	2.083+/- 1.665	mph	45	N GND VER	.243+/- .831	mph
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.077+/- 1.271	mph	50	S TDP PER	-5.008+/- 1.831	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.174+/- .133	ppm
23	N HA 102'	9.612+/- 2.610	mph	52	S TDP PAR	3.761+/- 1.625	ppm
24	N THC/Byron	1.925+/- .108	ppm	53	N Ecolyzer-3	1.100+/- .273	ppm
25	N WV 102'	325.542+/- 11.128	DEGR AZ	54	S TDP VER	.420+/- .854	mph
26	N NMHC/Byro	1.311+/- .289	ppm	55	N Ecolyzer-4	1.057+/- .337	ppm
27	N Gnd Temp	48.259+/- 4.244	DEGR F	56	S GND PER	-2.754+/- 1.505	mph
28	N CH4/Byron	1.366+/- .105	ppm	57	N Ecolyzer-5	1.048+/- .733	ppm
29	N WV 74'	318.351+/- 17.750	DEGR AZ	58	S GND PAR	3.251+/- 1.322	mph
30	N CD/Byron	.215+/- .099	ppm	59	N Rel Hum	46.039+/- 1.600	%
31	N 74' Temp	47.908+/- 3.363	DEGR F	60	S GND VER	.358+/- .536	mph
32	N CD2/Byron	380.842+/- 5.463	ppm	61	N Solar Rad	8.629+/- 7.001	W/m <sup>2</sup>
35	N HA 74'	7.955+/- 3.163	mph	64	S VA 55'	.237+/- 1.210	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.24+/- 2.58	326.0+/- 23.5	5.2+/- 18.6		
02	17 19 21	3.21+/- 1.97	294.9+/- 35.7	7.7+/- 30.3		
03	38 40 42	6.32+/- 1.90	315.8+/- 14.5	7.0+/- 8.4		
04	41 43 45	2.62+/- 1.41	282.3+/- 43.6	7.7+/- 22.2		
05	50 52 54	6.48+/- 2.03	322.8+/- 11.9	4.8+/- 8.4		
06	56 58 60	4.51+/- 1.49	309.5+/- 17.9	5.5+/- 7.8		

18:32:39 -- SHUT DOWN PROCEDURE START WITH ECOL. GRD  
 18:32:58 -- BEGIN END CAL. NCD-2 GRD  
 18:41:20 -- SHUT DOWN COMPLETE DF NCD-2 GRD  
 18:41:41 -- BEGIN END CALIBRATION NCD-3 GRD  
 18:46:42 -- SHUT DOWN NCD-3 COMPLETE GRD  
 18:46:58 -- BEGIN SHUTDOWN NCD4  
 18:51:37 -- BEGIN SHUTDOWN NCD-5  
 18:53:10 -- END SHUT DOWN NCD-4  
 18:57:55 -- SHUT DOWN ECOL. COMPLETE GRD

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2110 vehicles averaging 56.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	90	57.3	109	51.5	63	56.6	48	59.1	13	51.2
Cat2	92	60.1	119	52.1	166	57.9	120	58.3	102	50.7
Cat3	17	62.0	27	56.5	27	56.5	6	61.7	9	49.3
Cat4	10	62.8	9	60.5	15	57.5	5	58.9	4	52.0
Cat5	3	60.8	6	61.2	1	55.3	0	60.0	0	60.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	60.7	74	56.3	82	56.8	51	54.6	38	44.3
Cat2	124	62.5	194	57.4	179	56.5	75	57.1	55	45.5
Cat3	11	62.0	22	58.6	23	58.0	10	63.1	0	60.0
Cat4	6	61.6	7	56.9	8	58.1	2	53.5	0	60.0
Cat5	0	60.0	8	56.9	4	62.8	0	60.0	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	634	30.0	56.7	1236	58.6	58.3	152	7.2	58.8	66	3.1	59.6	22	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-3.541+/-	2.559 mph	37	N VA 102'	-.025+/-	1.166 mph
12	N Desibi CD	.697+/-	.110 ppm	38	S BOT PER	-3.856+/-	1.617 ppm
13	N TOP PAR	2.480+/-	1.695 mph	39	N VA 74'	.016+/-	1.164 mph
14	N Desibi D3	.022+/-	.001 ppm	40	S BOT PAR	3.671+/-	1.413 ppm
15	N TOP VER	.094+/-	1.279 mph	41	N GND PER	-.103+/-	1.289 mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.624+/-	.833 ppm
17	N BOT PER	-1.042+/-	1.670 mph	43	N GND PAR	2.131+/-	1.305 ppm
18	N BOT PAR	1.762+/-	1.333 mph	45	N GND VER	-.229+/-	.860 ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.138+/-	1.227 mph	50	S TOP PER	-4.867+/-	1.774 ppm
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.347+/-	.085 ppm
23	N HA 102'	8.964+/-	1.989 mph	52	S TOP PAR	3.558+/-	1.315 ppm
24	N THC/Byron	2.019+/-	.070 ppm	53	N Ecolyzer-3	1.104+/-	.248 ppm
25	N WV 102'	326.315+/-	11.333 DEGR AZ	54	S TOP VER	.281+/-	.805 ppm
26	N NMHC/Byro	1.713+/-	.267 ppm	55	N Ecolyzer-4	1.207+/-	.326 ppm
27	N Gnd Temp	47.673+/-	2.931 DEGR F	56	S GND PER	-2.244+/-	1.239 ppm
28	N CH4/Byron	1.545+/-	.075 ppm	57	N Ecolyzer-5	1.098+/-	.585 ppm
29	N WV 74'	317.887+/-	20.752 DEGR AZ	58	S GND PAR	2.662+/-	1.135 ppm
30	N CD/Byron	.185+/-	.132 ppm	59	N Rel Hum	49.259+/-	.364 %
31	N 74' Temp	46.787+/-	4.716 DEGR F	60	S GND VER	.385+/-	.402 ppm
32	N CO2/Byron	364.628+/-	3.111 ppm	61	N Solar Rad	3.315+/-	2.198 W/m^2
35	N HA 74'	7.413+/-	2.754 mph	64	S VA 55'	.112+/-	1.053 ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.79+/- 2.61	320.2+/- 26.3	9.3+/- 24.3
02	17 19 21	2.74+/- 1.65	288.5+/- 36.7	13.2+/- 33.8
03	38 40 42	5.70+/- 1.52	318.7+/- 15.0	7.2+/- 9.1
04	41 43 45	2.64+/- 1.16	271.1+/- 34.5	7.4+/- 18.2
05	50 52 54	6.22+/- 1.82	323.3+/- 11.5	4.1+/- 8.6
06	56 58 60	3.73+/- 1.15	309.8+/- 19.4	6.5+/- 7.9

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 2035 vehicles averaging 56.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	57.3	106	51.6	54	56.9	38	59.2	7	50.8
Cat2	96	58.9	121	51.7	170	57.7	101	58.3	83	50.4
Cat3	13	60.5	27	57.6	25	57.3	2	64.9	1	55.6
Cat4	6	66.0	14	60.3	10	65.4	2	64.7	0	60.0
Cat5	2	66.4	5	62.0	2	59.1	3	53.8	0	60.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	61.1	87	55.8	96	57.2	59	55.8	37	46.3
Cat2	184	62.7	182	57.9	153	58.0	65	57.7	45	45.6
Cat3	10	62.0	19	58.6	27	59.2	4	53.4	0	60.0
Cat4	4	61.7	10	58.7	7	59.4	2	59.2	1	35.0
Cat5	2	73.5	2	58.8	3	61.5	1	61.5	0	60.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	681	32.0	57.1	1180	58.0	58.6	128	6.3	59.4	56	2.8	61.6	20	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.691+/-	1.646 mph	37	N VA 102'	.217+/-	1.045 mph
12	N Desibi CD	.707+/-	.090 ppm	38	S BOT PER	-3.120+/-	1.136 ppm
13	N TOP PAR	1.738+/-	1.274 mph	39	N VA 74'	.254+/-	.784 mph
14	N Desibi D3	.020+/-	.001 ppm	40	S BOT PAR	3.357+/-	1.188 ppm
15	N TOP VER	.281+/-	.951 mph	41	N GND PER	-.018+/-	.612 ppm
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	-.801+/-	.633 ppm
17	N BOT PER	-.459+/-	1.073 mph	43	N GND PAR	1.212+/-	.633 ppm
19	N BOT PAR	1.283+/-	1.035 mph	45	N GND VER	.196+/-	.449 ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	-.112+/-	.833 mph	50	S TOP PER	-3.458+/-	1.111 ppm
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	1.338+/-	.086 ppm
23	N HA 102'	7.861+/-	1.440 mph	52	S TOP PAR	2.874+/-	1.048 ppm
24	N THC/Byron	1.900+/-	.069 ppm	53	N Ecolyzer-3	1.152+/-	.220 ppm
25	N WV 102'	326.427+/-	9.918 DEGR AZ	54	S TOP VER	.473+/-	.634 ppm
26	N NMHC/Byro	1.466+/-	.179 ppm	55	N Ecolyzer-4	1.169+/-	.369 ppm
27	N Gnd Temp	46.970+/-	5.309 DEGR F	56	S GND PER	-1.697+/-	1.177 ppm
28	N CH4/Byron	1.378+/-	.126 ppm	57	N Ecolyzer-5	1.248+/-	.599 ppm
29	N WV 74'	318.769+/-	16.005 DEGR AZ	58	S GND PAR	2.425+/-	1.060 ppm

30	N CO/Byron	.249+/-	.133	ppm	59	N Rel Hum	50.220+/-	.441	%
31	N 74' Temp	45.927+/-	2.249	DEGR F	60	S GND VER	.311+/-	.383	mph
32	N CO2/Byron	383.162+/-	4.084	ppm	61	N Solar Rad	3.134+/-	2.151	W/m**2
35	N HA 74'	6.263+/-	2.231	mph	64	S VA 55'	.289+/-	.905	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	3.61+/-	1.60	324.7+/-	26.3	9.3+/-	20.5
02	17	19	21	1.86+/-	1.14	279.4+/-	37.2	8.5+/-	29.1
03	38	40	42	4.84+/-	1.16	313.2+/-	14.1	10.1+/-	9.4
04	41	43	45	1.57+/-	.79	270.9+/-	37.8	10.0+/-	16.6
05	50	52	54	4.66+/-	1.21	320.1+/-	11.5	7.0+/-	8.9
06	56	58	60	3.18+/-	1.17	302.8+/-	21.0	7.3+/-	10.1

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 1850 vehicles averaging 56.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	57.7	105	52.2	70	56.1	45	59.3	11	52.1
Cat2	75	58.4	89	52.4	158	57.4	93	59.7	79	51.6
Cat3	6	61.0	16	58.5	26	58.0	3	59.7	3	47.8
Cat4	5	62.9	12	60.4	8	59.6	4	59.8	1	51.4
Cat5	1	60.5	3	62.1	1	60.7	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	61.1	79	56.5	90	56.5	59	55.5	20	44.7
Cat2	170	61.5	157	57.0	134	58.0	66	58.1	32	44.9
Cat3	7	61.8	24	59.0	19	58.8	3	57.5	1	46.3
Cat4	2	61.5	11	56.9	12	58.5	2	55.3	0	.0
Cat5	3	69.2	2	55.0	2	56.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	618	33.4	57.2	1053	56.9	58.1	110	5.9	59.1	57	3.1	61.5	12	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.908+/-	1.535	37	N VA 102'	.143+/-	.945
12	N Dasibi CO	.739+/-	.086	38	S BOT PER	-2.815+/-	.927
13	N TOP PAR	1.955+/-	1.175	39	N VA 74'	.072+/-	.611
14	N Dasibi O3	.018+/-	.001	40	S BOT PAR	2.538+/-	1.276
15	N TOP VER	.084+/-	.779	41	N GND PER	-.217+/-	1.024
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.737+/-	.577
17	N BOT PER	-.673+/-	1.357	43	N GND PAR	1.172+/-	1.182
19	N BOT PAR	1.348+/-	.981	45	N GND VER	.131+/-	.480
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.172+/-	.712	50	S TOP PER	-3.380+/-	.913
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	7.955+/-	1.430	52	S TOP PAR	2.558+/-	.914
24	N THC/Byron	2.037+/-	.069	53	N EcoLyzer-3	1.193+/-	.217
25	N WV 102'	328.762+/-	9.130	54	S TOP VER	.388+/-	.604
26	N NMHC/Byro	1.282+/-	.361	55	N EcoLyzer-4	1.194+/-	.302
27	N Gnd Temp	45.146+/-	3.908	56	S GND PER	-1.571+/-	1.031
28	N CH4/Byron	1.400+/-	.089	57	N EcoLyzer-5	1.315+/-	.648
29	N WV 74'	320.505+/-	15.665	58	S GND PAR	2.327+/-	.828
30	N CO/Byron	.272+/-	.129	59	N Rel Hum	51.409+/-	.684
31	N 74' Temp	46.527+/-	4.819	60	S GND VER	.372+/-	.320
32	N CO2/Byron	395.294+/-	6.895	61	N Solar Rad	3.951+/-	2.248
35	N HA 74'	6.405+/-	2.104	64	S VA 55'	.180+/-	.749

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	3.82+/-	1.44	324.9+/-	24.8	4.9+/-	17.4
02	17	19	21	2.03+/-	1.22	283.8+/-	36.8	11.3+/-	26.1
03	38	40	42	4.09+/-	1.02	319.3+/-	17.4	11.3+/-	9.5
04	41	43	45	1.73+/-	1.03	280.3+/-	43.9	6.8+/-	21.3
05	50	52	54	4.38+/-	.97	323.1+/-	11.3	6.0+/-	8.9
06	56	58	60	3.01+/-	.80	301.8+/-	20.1	8.2+/-	8.1

Average for 15 minute period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 1713 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	59.0	108	52.1	60	57.1	50	60.2	17	51.1
Cat2	71	60.1	83	53.8	171	58.6	74	59.8	85	50.9
Cat3	17	60.4	13	58.3	15	56.8	2	58.1	3	45.9
Cat4	4	66.7	9	61.4	5	60.2	3	63.5	3	44.1
Cat5	1	64.3	1	62.2	0	.0	1	65.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	62.1	98	57.6	83	58.4	53	55.9	22	46.7
Cat2	181	64.1	137	58.2	107	59.3	57	58.0	20	47.7
Cat3	5	68.1	14	60.3	15	59.8	4	58.2	2	46.5
Cat4	4	64.4	5	60.7	6	60.5	3	59.9	0	.0
Cat5	0	.0	0	.0	1	67.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	631	36.8	58.6	946	55.2	58.8	90	5.3	60.6	42	2.5	64.9	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.405+/-	1.383	37	N VA 102'	.327+/-	.890
12	N Dasibi CO	.944+/-	.429	38	S BOT PER	-2.240+/-	.929
13	N TOP PAR	1.429+/-	.997	39	N VA 74'	.174+/-	.632
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	1.635+/-	1.186
15	N TOP VER	.233+/-	.853	41	N GND PER	.210+/-	.944
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.790+/-	.601
17	N BOT PER	-.322+/-	.873	43	N GND PAR	1.009+/-	.787
19	N BOT PAR	.960+/-	.875	45	N GND VER	.184+/-	.351
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.157+/-	.728	50	S TOP PER	-2.910+/-	1.013

22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.988+/- 1.169	mph	52	S TOP PAR	2.178+/- .703	mph
24	N THC/Byron	2.014+/- .073	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	329.912+/- 9.885	DEGR AZ	54	S TOP VER	.395+/- .574	mph
26	N NMHC/Byro	1.383+/- .131	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	46.396+/- 4.213	DEGR F	56	S GND PER	-1.119+/- .774	mph
28	N CH4/Byron	1.379+/- .081	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	323.905+/- 16.422	DEGR AZ	58	S GND PAR	1.787+/- .823	mph
30	N CO/Byron	.221+/- .132	ppm	59	N Re1 Hum	52.874+/- .625	%
31	N 74' Temp	46.501+/- 5.030	DEGR F	60	S GND VER	.297+/- .262	mph
32	N CO2/Byron	392.281+/- 2.079	ppm	61	N Solar Rad	4.632+/- 2.349	W/m**2
35	N HA 74'	5.459+/- 1.946	mph	64	S VA 55'	.234+/- .644	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	3.13+/-	1.31	327.7+/-	25.2	9.6+/-	22.0
02	17 19 21	1.49+/-	.95	277.6+/-	41.5	11.3+/-	32.6
03	38 40 42	3.13+/-	1.06	326.6+/-	20.7	16.3+/-	13.1
04	41 43 45	1.47+/-	.75	257.7+/-	43.4	8.9+/-	16.7
05	50 52 54	3.78+/-	.87	322.3+/-	11.7	7.3+/-	9.8
06	56 58 60	2.28+/-	.83	301.2+/-	22.3	9.9+/-	11.2

Average for hourly period ending at 19:00:00  
Traffic Data  
 Total Traffic = 7708 vehicles averaging 57.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	316	57.7	426	51.9	257	56.6	182	59.5	48	51.3
Cat2	334	59.4	412	52.4	665	57.9	388	59.2	329	50.9
Cat3	53	61.0	85	57.5	93	57.2	13	61.2	16	48.8
Cat4	25	64.2	44	60.6	38	57.8	14	61.0	8	49.0
Cat5	7	62.9	15	61.7	4	58.5	4	56.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	264	61.3	339	56.6	351	57.2	232	55.4	117	45.4
Cat2	629	62.9	670	57.6	573	57.8	263	57.7	152	45.7
Cat3	33	63.2	79	59.1	84	58.4	21	59.5	3	46.4
Cat4	16	62.3	33	58.0	33	59.0	9	57.3	1	35.0
Cat5	5	70.9	12	56.9	10	61.7	1	61.5	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
56.0	2534	32.9	4415	57.3	480	58.5	221	61.1	58

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-2.888+/- 1.884	mph	37	N VA 102'	.165+/- 1.046	mph
12	N Desibi CO	.771+/- .250	ppm	38	S BOT PER	-3.036+/- 1.337	mph
13	N TOP PAR	1.902+/- 1.364	ppm	39	N VA 74'	.129+/- .833	mph
14	N Desibi O3	.019+/- .003	ppm	40	S BOT PAR	2.806+/- 1.482	mph
15	N TOP VER	.175+/- .987	ppm	41	N GND PER	-.033+/- 1.036	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.738+/- .685	mph
17	N BOT PER	-.625+/- 1.307	mph	43	N GND PAR	1.382+/- 1.133	mph
19	N BOT PAR	1.340+/- 1.105	mph	45	N GND VER	.180+/- .498	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.145+/- .899	mph	50	S TOP PER	-3.856+/- 1.446	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.948+/- 1.687	mph	52	S TOP PAR	2.794+/- 1.138	mph
24	N THC/Byron	1.993+/- .087	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	327.848+/- 10.193	DEGR AZ	54	S TOP VER	.387+/- .652	mph
26	N NMHC/Byro	1.461+/- .297	ppm	56	S GND PER	-1.860+/- 1.142	mph
27	N Gnd Temp	46.546+/- 4.175	DEGR F	57	N Ecolyzer-5	1.229+/- .819	ppm
28	N CH4/Byron	1.428+/- .113	ppm	58	S GND PAR	2.302+/- 1.021	mph
29	N WV 74'	320.267+/- 17.452	DEGR AZ	59	N Re1 Hum	50.940+/- 1.463	%
30	N CO/Byron	.234+/- .131	ppm	60	S GND VER	.341+/- .348	mph
31	N 74' Temp	46.435+/- 4.149	DEGR F	61	N Solar Rad	3.758+/- 2.259	W/m**2
32	N CO2/Byron	388.841+/- 6.726	ppm	64	S VA 55'	.204+/- .654	mph
35	N HA 74'	6.389+/- 2.379	mph				

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	3.84+/-	1.91	324.4+/-	25.7	8.3+/-	21.2
02	17 19 21	2.03+/-	1.34	282.5+/-	38.2	11.1+/-	30.5
03	38 40 42	4.45+/-	1.53	318.8+/-	17.6	11.2+/-	10.9
04	41 43 45	1.86+/-	1.06	270.1+/-	40.5	8.2+/-	18.3
05	50 52 54	4.78+/-	1.57	322.2+/-	11.5	6.1+/-	9.1
06	56 58 60	3.05+/-	1.15	303.9+/-	21.0	8.0+/-	9.5

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	18:00:00	1188 vehicles
02	16:00:00	1198 vehicles
03	18:00:00	1308 vehicles
04	17:00:00	1549 vehicles
05	18:00:00	1368 vehicles
06	17:00:00	1533 vehicles
07	17:00:00	885 vehicles
08	17:00:00	887 vehicles
09	17:00:00	736 vehicles
10	17:00:00	567 vehicles
11	00:00:00	.000 mph
12	19:00:00	.771 ppm
13	17:00:00	2.715 mph
14	14:00:00	.043 ppm
15	15:00:00	.193 mph
16	00:00:00	.000 ppm
17	00:00:00	.000 mph
19	17:00:00	2.259 mph
20	00:00:00	.000 ppm
21	15:00:00	.238 mph
22	00:00:00	.000 ppm
23	14:00:00	13.973 mph
24	18:00:00	1.893 ppm
25	16:00:00	349.155 DEGR AZ
26	19:00:00	1.461 ppm
27	15:00:00	57.287 DEGR F
28	19:00:00	1.426 ppm
29	16:00:00	344.621 DEGR AZ
30	17:00:00	.325 ppm
31	16:00:00	54.148 DEGR F
32	19:00:00	388.841 ppm
35	14:00:00	12.958 mph
37	19:00:00	.165 mph
38	00:00:00	.000 mph
39	16:00:00	.398 mph
40	17:00:00	4.321 mph
41	00:00:00	.000 mph
42	19:00:00	.738 mph
43	18:00:00	1.723 mph
45	17:00:00	.253 mph
49	00:00:00	.000 ppm
50	00:00:00	.000 mph
51	18:00:00	1.174 ppm
52	17:00:00	3.940 mph
53	18:00:00	1.100 ppm
54	18:00:00	.420 mph
55	18:00:00	1.150 ppm
56	00:00:00	.000 mph
57	19:00:00	1.229 ppm
58	18:00:00	3.251 mph
59	19:00:00	50.940 %
60	17:00:00	.391 mph
61	14:00:00	532.639 W/m*2
64	17:00:00	.241 mph

NOTE: All times in the maximums are ending times for the interval



Data for Dec. 07, 1988  
 09:39:28 -- 12/07/88  
 09:39:29 -- Data run of 12/07/88. Operators are Michael Hlavinka and Guy Donaldson. Winds at  
 09:39:30 -- e light and variable primarily from the south. Sky is clear but hazy. This is th  
 09:39:31 -- e 7th file of 2X1320. Will not recalibrate BYRON or DASIBI CD today.  
 09:39:47 -- Placing BYRON 401 and DASIBI CD online.  
 09:41:04 -- BEGIN READING ALL EECOL. ZEROS GRD  
 09:45:36 -- BEGIN CAL. = BEFIN SPAN AND CAL. NCD-5  
 09:53:15 -- END CALIBRATION NCD-5 GRD  
 09:53:39 -- BEGIN INITIAL CAL. NCD-4

Average for 15 minute period ending at 09:15:00  
 Average for 15 minute period ending at 09:30:00  
 Average for 15 minute period ending at 09:45:00

Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	ppm	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	ppm	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	ppm	43	N GND VER	*****+/-*****	ppm
19	N BOT PAR	*****+/-*****	ppm	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	ppm	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	ppm
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	W/m**2
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	mph
35	N HA 74'	*****+/-*****	ppm	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 10:00:00

Traffic Data  
 Total Traffic : 1988 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	59.0	82	55.3	54	58.2	35	61.5	9	52.2
Cat2	68	61.7	124	56.5	171	59.4	124	61.0	100	52.2
Cat3	12	61.5	29	60.9	35	58.8	18	60.0	10	52.3
Cat4	13	68.2	19	62.5	21	60.1	7	58.2	1	50.7
Cat5	1	73.9	5	64.4	3	61.9	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	63.5	61	58.5	60	59.0	53	59.3	9	44.9
Cat2	157	66.2	147	60.9	106	60.3	88	59.5	59	47.8
Cat3	12	67.7	22	59.8	33	60.9	9	57.5	0	.0
Cat4	9	64.1	18	61.9	18	61.6	2	58.5	0	.0
Cat5	0	.0	3	65.6	2	61.1	1	57.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	542	27.3	59.4	1142	57.4	60.1	180	9.1	61.9	109	5.5	63.8	15	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.918+/- 1.183	mph	37	N VA 102'	.258+/- 1.140	mph
12	N Dasibi CD	3.537+/- .635	ppm	38	S BOT PER	1.236+/- .917	ppm
13	N TOP PAR	.201+/- 1.682	ppm	39	N VA 74'	-.066+/- .943	ppm
14	N Dasibi D3	.018+/- .001	ppm	40	S BOT PAR	-.880+/- 1.339	ppm
15	N TOP VER	.347+/- .986	ppm	41	N GND PER	1.694+/- 1.342	ppm
16	N NOX/TECO	*****+/-*****	ppm	42	N GND VER	1.268+/- .353	ppm
17	N BOT PER	.817+/- .981	ppm	43	N GND PAR	-1.795+/- 1.894	ppm
19	N BOT PAR	-.359+/- 1.658	ppm	45	N GND VER	.068+/- .799	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.348+/- .853	ppm	50	S TOP PER	1.274+/- 1.045	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	3.245+/- .902	ppm	52	S TOP PAR	-.799+/- 1.377	ppm
24	N THC/Byron	3.408+/- .077	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	174.419+/- 32.936	DEGR AZ	54	S TOP VER	.573+/- .658	ppm
26	N NMHC/Byro	2.369+/- .088	ppm	55	N Ecolyzer-4	*****+/-*****	ppm

27	N Gnd Temp	48.819+/-	3.762	DEGR F	56	S GND PER	.454+/-	.635	mph
28	N CH4/Byron	2.006+/-	.135	ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	169.938+/-	32.705	DEGR AZ	58	S GND PAR	.058+/-	.491	mph
30	N CO/Byron	3.255+/-	.539	ppm	59	N Rel Hum	48.477+/-	.877	%
31	N 74' Temp	45.641+/-	3.394	DEGR F	60	S GND VER	.243+/-	.390	mph
32	N CO2/Byron	452.384+/-	11.622	ppm	61	N Solar Rad	383.256+/-	13.956	W/m**2
35	N HA 74'	2.850+/-	1.892	mph	64	S VA 55'	.819+/-	.861	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.77+/- 1.13	188.2+/- 39.0	10.9+/- 25.0		
02	17 19 21	2.00+/- 1.16	177.9+/- 50.6	12.8+/- 31.9		
03	38 40 42	1.82+/- 1.07	168.8+/- 41.8	13.2+/- 16.6		
04	41 43 45	3.14+/- 1.49	138.1+/- 39.0	1.1+/- 21.9		
05	50 52 54	2.25+/- .98	156.7+/- 42.9	24.5+/- 28.5		
06	56 58 60	.78+/- .67	200.0+/- 36.9	27.0+/- 32.7		

Average for hourly period ending at 10:00:00  
 Total Traffic = Traffic Data  
 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
.0	0	.0	0	.0	0	.0	0	.0	0
****	****	****	****	****	****	****	****	****	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Das101 CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Das101 O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	ppm	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		

10:05:38 -- END CALIBRATION NCO-4  
 10:05:59 -- BEGIN CALIBRATION N CO-3 GRD  
 10:17:59 -- END CALIBRATION NCO-3  
 10:18:11 -- BEGIN CAL. NCO-2 GRD  
 10:21:06 -- WHEN TOP TEX ELECT WIND VANE WENT OUT OF RANGE, FLIPPED POWER SWITCH TO SOLVE.  
 10:30:30 -- BEGIN CAL. NCO-1. GRD  
 10:41:05 -- END CAL. NCO-1 ALL NORTH ECOL. ONLINE GRD

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1898 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	59.3	66	54.8	34	56.9	37	52.4	8	53.3
Cat2	65	62.0	158	56.5	168	59.3	111	60.4	66	51.4
Cat3	21	62.2	37	60.6	46	59.4	26	60.0	4	51.8
Cat4	15	65.5	14	61.2	24	59.5	7	57.6	1	40.3
Cat5	2	64.4	6	63.7	12	60.4	4	60.2	1	53.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	62.7	67	58.1	58	59.8	46	58.2	17	46.1
Cat2	170	66.1	127	59.5	115	61.3	91	60.2	28	50.1
Cat3	17	65.2	29	59.6	21	59.7	9	61.1	2	43.9
Cat4	10	66.0	16	62.3	15	63.7	2	52.3	0	.0
Cat5	3	68.0	5	61.9	4	60.2	1	45.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	446	23.5	59.8	1098	57.9	60.3	212	11.2	61.6	104	5.5	61.3	38	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.859+/-	2.080	37	N VA 102'	.557+/-	1.280
12	N Dasibi CO	2.438+/-	.309	38	S BOT PER	1.561+/-	1.192
13	N TOP PAR	.479+/-	.975	39	N VA 74'	.263+/-	1.101
14	N Dasibi O3	.017+/-	.002	40	S BOT PAR	-.399+/-	1.438
15	N TOP VER	.442+/-	1.100	41	N GND PER	1.151+/-	1.563
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.287+/-	.568
17	N BOT PER	.792+/-	1.359	43	N GND PAR	-1.842+/-	1.619
19	N BOT PAR	-.745+/-	.963	45	N GND VER	.168+/-	.694
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.377+/-	1.074	50	S TOP PER	1.711+/-	1.471
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	3.253+/-	1.514	53	S TOP PAR	-.490+/-	1.685
24	N THC/Byron	2.882+/-	.235	53	N EcoLyzer-3	*****+/-*****	
25	N WV 102'	169.787+/-	26.189	54	S TOP VER	.341+/-	.758
26	N NMHC/Byro	2.063+/-	.216	55	N EcoLyzer-4	*****+/-*****	
27	N Gnd Temp	52.493+/-	3.450	56	S GND PER	.627+/-	.773
28	N CH4/Byron	1.790+/-	.086	57	N EcoLyzer-5	3.185+/-	1.194
29	N WV 74'	145.972+/-	40.696	58	S GND PAR	-.085+/-	1.081
30	N CO/Byron	2.688+/-	.618	59	N Rel Hum	46.393+/-	.759
31	N 74' Temp	46.735+/-	3.428	60	S GND VER	-.138+/-	.548
32	N CO2/Byron	458.649+/-	5.087	61	N Solar Rad	421.961+/-	14.631
35	N HA 74'	2.995+/-	2.089	64	S VA 55'	.448+/-	.869

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.62+/- 1.85	158.5+/- 48.3	17.1+/- 34.9
02	17 19 21	1.80+/- 1.27	130.6+/- 47.8	11.3+/- 41.5
03	38 40 42	2.29+/- 1.12	172.7+/- 38.0	10.5+/- 20.2
04	41 43 45	2.77+/- 1.62	116.9+/- 43.1	5.2+/- 21.2
05	50 52 54	2.63+/- 1.39	162.1+/- 38.9	12.0+/- 25.5
06	56 58 60	1.24+/- .97	189.6+/- 43.6	12.9+/- 37.6

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 1935 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	56.0	61	52.3	38	57.3	43	60.1	5	53.2
Cat2	84	58.1	139	54.4	190	57.5	135	60.0	88	52.0
Cat3	10	59.8	32	57.9	38	56.1	19	59.2	6	53.7
Cat4	11	60.8	19	59.1	13	58.4	11	62.0	5	49.0
Cat5	4	64.2	13	63.1	5	52.7	2	59.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	64.3	66	59.7	63	59.4	55	58.5	13	46.5
Cat2	162	65.7	136	60.4	109	62.2	76	61.4	49	47.8
Cat3	17	65.6	25	61.4	26	59.8	8	60.6	1	46.5
Cat4	11	65.1	16	61.6	15	60.7	5	62.1	1	51.5
Cat5	0	.0	3	64.1	4	63.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	447	23.1	58.8	1168	60.4	59.1	182	9.4	60.3	107	5.5	61.4	31	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.240+/-	1.748	37	N VA 102'	.177+/-	1.096
12	N Dasibi CO	1.825+/-	.288	38	S BOT PER	1.300+/-	1.719
13	N TOP PAR	.678+/-	1.650	39	N VA 74'	-.120+/-	.801
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	.088+/-	1.320
15	N TOP VER	.021+/-	1.001	41	N GND PER	2.042+/-	1.488
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.324+/-	.480
17	N BOT PER	1.508+/-	1.556	43	N GND PAR	-.979+/-	1.894
19	N BOT PAR	.215+/-	1.605	45	N GND VER	.129+/-	.748
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.114+/-	.855	50	S TOP PER	1.713+/-	1.457
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	4.243+/-	1.289	52	S TOP PAR	.276+/-	1.249
24	N THC/Byron	2.443+/-	.113	53	N EcoLyzer-3	1.915+/-	.430
25	N WV 102'	187.975+/-	21.978	54	S TOP VER	.490+/-	.921
26	N NMHC/Byro	1.847+/-	.254	55	N EcoLyzer-4	2.172+/-	.491
27	N Gnd Temp	52.467+/-	3.707	56	S GND PER	.558+/-	.861
28	N CH4/Byron	1.625+/-	.082	57	N EcoLyzer-5	2.520+/-	.976
29	N WV 74'	174.804+/-	22.160	58	S GND PAR	-.038+/-	1.097
30	N CO/Byron	1.457+/-	.367	59	N Rel Hum	44.064+/-	.582
31	N 74' Temp	46.396+/-	3.373	60	S GND VER	.234+/-	.490

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.86+/- 1.89	190.6+/- 28.9	-1.0+/- 27.7
02	17 19 21	2.45+/- 1.45	184.0+/- 46.6	3.0+/- 30.4
03	38 40 42	2.25+/- 1.28	198.8+/- 48.9	15.1+/- 20.0
04	41 43 45	3.11+/- 1.35	150.4+/- 40.2	4.6+/- 17.9
05	50 52 54	2.54+/- 1.15	199.1+/- 40.8	16.0+/- 25.8
06	56 58 60	1.29+/- .94	200.6+/- 47.0	19.3+/- 32.1

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 2056 vehicles averaging 58.6 mph

**Westbound Traffic**

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	56.7	63	53.9	60	56.5	42	59.3	5	51.6
Cat2	79	58.8	154	55.9	184	57.7	147	60.3	80	51.1
Cat3	15	60.3	35	57.9	39	58.2	26	59.3	12	50.3
Cat4	8	64.4	24	58.3	14	58.5	4	59.6	6	47.6
Cat5	3	64.9	6	64.2	5	58.6	2	67.3	0	0

**Eastbound Traffic**

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	62.6	69	58.3	74	59.7	58	56.9	18	48.7
Cat2	155	64.6	135	60.4	131	60.3	101	59.7	48	47.6
Cat3	20	66.0	30	59.5	24	61.9	11	57.6	3	43.3
Cat4	8	67.0	19	63.0	8	60.9	5	58.8	0	0
Cat5	0	0	1	65.6	4	58.4	0	0	0	0

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	510	24.8	58.7	1214	59.0	59.1	215	10.5	60.1	96	4.7	62.2	21	1.0

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.719+/- 1.830	mph	37	N VA 102'	.297+/- 1.414	mph
12	N DesIbi CO	2.232+/- .447	ppm	38	S BOT PER	2.366+/- 1.338	mph
13	N TOP PAR	-.257+/- 1.890	mph	39	N VA 74'	-.010+/- 1.187	mph
14	N DesIbi O3	.019+/- .002	ppm	40	S BOT PAR	-.478+/- 1.165	mph
15	N TOP VER	-.184+/- 1.229	mph	41	N GND PER	1.780+/- 1.284	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	-.195+/- .487	mph
17	N BOT PER	1.377+/- 1.475	mph	43	N GND PAR	-1.931+/- 2.189	mph
19	N BOT PAR	-.607+/- 1.881	mph	45	N GND VER	-.101+/- .710	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.249+/- 1.032	mph	50	S TOP PER	2.786+/- 1.494	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	4.104+/- .231	ppm
23	N HA 102'	4.342+/- 1.427	mph	52	S TOP PAR	-.695+/- 1.470	mph
24	N THC/Byron	2.434+/- .112	ppm	53	N Ecolyzer-3	2.488+/- .675	ppm
25	N WV 102'	176.624+/- 31.802	DEGR AZ	54	S TOP VER	.466+/- .876	mph
26	N NMHC/Byro	1.868+/- .118	ppm	55	N Ecolyzer-4	2.623+/- .699	ppm
27	N Gnd Temp	52.832+/- 2.386	DEGR F	56	S GND PER	1.062+/- 1.221	mph
28	N CH4/Byron	1.607+/- .066	ppm	57	N Ecolyzer-5	3.154+/- 1.066	ppm
29	N WV 74'	160.811+/- 32.186	DEGR AZ	58	S GND PAR	-.431+/- .892	mph
30	N CO/Byron	.857+/- .167	ppm	59	N Rel Hum	42.957+/- .401	%
31	N 74' Temp	46.448+/- 3.281	DEGR F	60	S GND VER	2.45+/- .546	mph
32	N CO2/Byron	417.196+/- 6.590	ppm	61	N Solar Rad	486.678+/- 9.033	W/m**2
35	N HA 74'	3.897+/- 2.008	mph	64	S VA 55'	.457+/- 1.041	mph

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.70+/- 1.49	170.9+/- 38.4	6.1+/- 27.8
02	17 19 21	2.70+/- 1.34	151.5+/- 46.1	6.7+/- 26.9
03	38 40 42	2.76+/- 1.29	171.7+/- 29.0	5.8+/- 14.6
04	41 43 45	3.38+/- 1.55	135.9+/- 37.0	2.1+/- 17.4
05	50 52 54	3.50+/- 1.20	169.3+/- 33.2	11.8+/- 21.4
06	56 58 60	1.82+/- 1.16	177.1+/- 39.6	20.3+/- 30.7

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 2026 vehicles averaging 59.7 mph

**Westbound Traffic**

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	60.2	86	55.4	84	58.8	30	61.9	7	52.9
Cat2	81	61.9	129	57.6	177	58.3	142	61.7	91	52.9
Cat3	18	63.6	42	62.1	47	58.8	18	63.1	9	52.7
Cat4	13	67.5	22	62.0	10	60.1	12	62.4	3	52.7
Cat5	1	67.2	6	63.3	4	59.1	4	65.9	1	56.1

**Eastbound Traffic**

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.0	65	58.6	64	59.6	56	57.6	11	48.4
Cat2	157	64.8	148	60.0	120	60.4	60	60.4	57	46.8
Cat3	13	65.8	27	60.5	26	61.3	12	61.0	2	50.1
Cat4	9	65.9	14	59.6	18	64.0	5	58.9	2	50.1
Cat5	3	73.7	9	67.1	3	67.7	2	75.7	1	74.6

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	507	25.0	59.5	1162	57.4	60.9	214	10.6	62.5	109	5.4	66.2	34	1.7

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.621+/- 2.041	mph	37	N VA 102'	.185+/- .964	mph
12	N DesIbi CO	2.022+/- .351	ppm	38	S BOT PER	1.462+/- 1.382	mph
13	N TOP PAR	1.380+/- 1.485	mph	39	N VA 74'	.089+/- .925	mph
14	N DesIbi O3	.020+/- .006	ppm	40	S BOT PAR	.721+/- 1.024	mph
15	N TOP VER	-.124+/- 1.089	mph	41	N GND PER	1.601+/- 1.648	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	-.291+/- .430	mph
17	N BOT PER	1.592+/- 1.682	mph	43	N GND PAR	-.372+/- 1.707	mph
19	N BOT PAR	.821+/- 1.330	mph	45	N GND VER	-.143+/- .827	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.076+/- .267	ppm
21	N BOT VER	.195+/- 1.046	mph	50	S TOP PER	1.849+/- 1.459	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	3.468+/- .235	ppm
23	N HA 102'	4.482+/- 1.455	mph	52	S TOP PAR	1.005+/- 1.290	mph



11:10:19 -- READ ZEROS FOR TECO NOX  
 11:32:18 -- NCO2 APPEARS OUT OF LINE WILL RECALIBRATE GRD  
 11:38:55 -- BEGIN READING TECO SPANS  
 11:42:46 -- IGDRE FIRST SET OF TECO SPANS

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 2080 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	59.8	87	56.0	74	59.2	32	60.7	5	50.1
Cat2	76	61.5	142	57.8	158	60.3	135	62.1	81	52.5
Cat3	14	63.2	30	60.4	40	59.6	20	63.0	7	52.7
Cat4	6	66.2	21	62.6	22	60.0	14	63.1	5	53.4
Cat5	2	67.4	3	56.4	2	57.0	4	61.7	1	51.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.3	83	59.0	59	59.8	58	58.3	24	45.7
Cat2	198	68.3	163	61.0	126	59.8	83	58.7	52	48.3
Cat3	12	65.2	26	61.8	20	61.9	6	58.2	1	42.7
Cat4	13	67.5	21	61.8	14	63.1	1	63.1	0	.0
Cat5	2	68.5	3	61.0	8	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	558	26.7	60.2	1214	58.1	60.9	176	8.4	62.4	117	5.6	61.2	25	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.945+/-	1.429	37	N VA 102'	.697+/-	1.328
12	N Dasibi CO	2.097+/-	.430	38	S BOT PER	.665+/-	1.593
13	N TOP PAR	1.415+/-	1.344	39	N VA 74'	.450+/-	1.253
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	1.049+/-	1.449
15	N TOP VER	.650+/-	1.344	41	N GND PER	1.892+/-	1.404
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.388+/-	.565
17	N BOT PER	1.473+/-	1.295	43	N GND VER	-.215+/-	1.658
19	N BOT PAR	.899+/-	1.466	45	N GND VER	.129+/-	.388
20	N NO2/TECO	*****+/-*****		48	N EcoLyzer-1	2.090+/-	1.660
21	N BOT VER	.580+/-	1.256	50	S TOP PER	1.102+/-	1.660
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	2.902+/-	.119
23	N HA 102'	3.878+/-	1.443	52	S TOP PAR	1.164+/-	1.258
24	N THC/Byron	2.461+/-	.057	53	N EcoLyzer-3	2.311+/-	.647
25	N WV 102'	217.160+/-	28.431	54	S TOP VER	.541+/-	1.043
26	N MMHC/Byro	1.739+/-	.580	55	N EcoLyzer-4	2.618+/-	.550
27	N Gnd Temp	53.301+/-	3.211	56	S GND PER	.163+/-	.824
28	N CH4/Byron	1.624+/-	.065	57	N EcoLyzer-5	2.992+/-	.990
29	N WV 74'	203.674+/-	29.194	58	S GND PAR	.636+/-	1.096
30	N CO/Byron	1.609+/-	.632	59	N Rel Hum	41.537+/-	.319
31	N 74' Temp	49.106+/-	2.936	60	S GND VER	.292+/-	.475
32	N CO2/Byron	438.284+/-	5.400	61	N Solar Rad	536.818+/-	10.669
35	N HA 74'	3.049+/-	1.961	64	S VA 55'	.381+/-	1.194

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.19+/- 1.29	222.0+/- 31.1	13.3+/- 27.1
02	17 19 21	2.67+/- 1.26	215.7+/- 38.7	14.6+/- 29.4
03	38 40 42	2.08+/- 1.52	239.0+/- 45.8	18.1+/- 20.5
04	41 43 45	2.68+/- 1.43	182.1+/- 40.4	3.1+/- 24.7
05	50 52 54	2.43+/- 1.54	234.5+/- 37.9	22.5+/- 34.0
06	56 58 60	1.22+/- 1.06	235.6+/- 41.4	24.9+/- 33.2

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 2121 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	60.8	75	54.8	75	57.9	36	61.4	6	63.1
Cat2	79	61.4	160	57.5	171	58.4	148	61.8	86	52.6
Cat3	14	62.2	39	60.0	36	58.9	26	60.1	4	52.1
Cat4	15	65.9	16	65.2	17	60.1	10	62.2	1	51.1
Cat5	11	70.7	8	65.3	3	72.4	4	58.6	1	68.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	64.8	71	58.3	84	60.2	61	58.5	20	47.4
Cat2	176	65.3	152	61.0	104	61.6	92	60.0	48	48.9
Cat3	16	65.3	30	61.6	22	60.4	8	59.0	2	47.4
Cat4	11	66.3	18	60.5	25	62.8	6	60.4	0	.0
Cat5	2	60.2	1	66.9	4	63.1	1	49.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.0	554	26.1	59.8	1216	57.3	60.4	197	9.3	62.8	119	5.6	66.0	35	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.025+/-	1.789	37	N VA 102'	.303+/-	1.402
12	N Dasibi CO	1.891+/-	1.484	38	S BOT PER	.699+/-	1.426
13	N TOP PAR	2.269+/-	1.603	39	N VA 74'	.146+/-	1.304
14	N Dasibi O3	.021+/-	.004	40	S BOT PAR	1.120+/-	1.190
15	N TOP VER	.292+/-	1.131	41	N GND PER	1.703+/-	1.699
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.423+/-	.435
17	N BOT PER	1.462+/-	1.500	43	N GND VER	.014+/-	2.098
19	N BOT PAR	1.675+/-	1.846	45	N GND VER	.085+/-	.828
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	1.815+/-	.614
21	N BOT VER	.321+/-	.996	50	S TOP PER	1.141+/-	1.399
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	2.704+/-	.171
23	N HA 102'	4.492+/-	1.512	52	S TOP PAR	1.265+/-	.971
24	N THC/Byron	2.561+/-	.057	53	N EcoLyzer-3	1.918+/-	.863
25	N WV 102'	227.775+/-	29.878	54	S TOP VER	.412+/-	.706
26	N MMHC/Byro	1.690+/-	.271	55	N EcoLyzer-4	2.214+/-	.828
27	N Gnd Temp	59.958+/-	3.175	56	S GND PER	.434+/-	.885
28	N CH4/Byron	1.646+/-	.087	57	N EcoLyzer-5	2.742+/-	.883
29	N WV 74'	213.328+/-	33.258	58	S GND PAR	.465+/-	1.012
30	N CO/Byron	1.464+/-	.683	59	N Rel Hum	40.971+/-	.580
31	N 74' Temp	52.024+/-	4.083	60	S GND VER	.341+/-	.576
32	N CO2/Byron	447.891+/-	6.027	61	N Solar Rad	566.792+/-	9.438
35	N HA 74'	3.789+/-	1.983	64	S VA 55'	.371+/-	.857

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	3.85+/- 1.23	229.1+/- 31.3	5.7+/- 20.2
02	17	19	21	3.06+/- 1.27	225.0+/- 38.8	8.9+/- 25.3
03	38	40	42	2.07+/- 1.13	235.1+/- 42.6	17.3+/- 20.3
04	41	43	45	2.95+/- 1.47	192.2+/- 47.7	2.7+/- 23.5
05	50	52	54	2.21+/- 1.26	235.8+/- 29.6	16.0+/- 27.4
06	56	58	60	1.30+/- .98	224.0+/- 42.1	25.7+/- 31.7

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2136 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	61.0	87	55.4	85	58.7	28	61.3	1	54.9
Cat2	104	62.2	149	56.9	184	58.8	158	60.8	82	63.5
Cat3	11	64.7	24	60.7	37	58.4	25	57.1	10	53.8
Cat4	6	64.1	16	62.8	13	61.5	10	60.1	7	48.3
Cat5	7	67.8	9	63.7	6	60.2	5	62.7	1	54.2

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	64.0	75	57.7	65	58.9	46	59.4	11	47.9
Cat2	193	65.5	141	60.8	135	61.7	74	60.1	49	47.8
Cat3	22	64.6	25	60.7	29	61.6	14	56.4	2	44.5
Cat4	14	67.8	16	62.5	12	61.8	3	60.2	3	43.1
Cat5	4	67.0	9	65.5	7	64.0	0	.0	2	28.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	518	24.3	59.9	1269	59.4	59.8	199	9.3	61.3	100	4.7	62.8	50	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.778+/- 1.364	mph	37	N VA 102'	.289+/- 1.170	mph
12	N Dasibi CD	1.890+/- .597	ppm	38	S BOT PER	1.227+/- 1.681	mph
13	N TOP PAR	.411+/- 1.697	mph	39	N VA 74'	.157+/- 1.119	mph
14	N Dasibi O3	.023+/- .004	ppm	40	S BOT PAR	.477+/- 1.727	mph
15	N TOP VER	.325+/- 1.189	mph	41	N GND PER	1.219+/- 1.690	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.365+/- .434	mph
17	N BOT PER	.939+/- 1.203	mph	43	N GND PAR	.994+/- 2.082	mph
19	N BOT PAR	.069+/- 1.712	mph	45	N GND VER	.230+/- .799	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzar-1	1.624+/- .399	ppm
21	N BOT VER	.236+/- .968	mph	50	S TOP PER	1.408+/- 1.538	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzar-2	*****+/-*****	ppm
23	N HA 102'	3.702+/- 1.137	mph	52	S TOP PAR	.332+/- 1.793	mph
24	N THC/Byron	2.589+/- .072	ppm	53	N EcoLyzar-3	1.750+/- .791	ppm
25	N WV 102'	191.306+/- 32.842	DEGR AZ	54	S TOP VER	.488+/- .885	mph
26	N NMHC/Byro	1.568+/- .088	ppm	55	N EcoLyzar-4	2.017+/- .776	ppm
27	N Gnd Temp	56.848+/- 3.494	DEGR F	56	S GND PER	.509+/- .846	mph
28	N CH4/Byron	1.726+/- .148	ppm	57	N EcoLyzar-5	2.565+/- 1.083	ppm
29	N WV 74'	179.121+/- 37.694	DEGR AZ	58	S GND PAR	3.68+/- 1.261	mph
30	N CO/Byron	.827+/- .213	ppm	59	N Rel Hum	40.026+/- .411	%
31	N 74' Temp	52.441+/- 2.932	DEGR F	60	S GND VER	.120+/- .677	mph
32	N CO2/Byron	431.200+/- 10.819	ppm	61	N Solar Rad	583.887+/- 3.556	W/m^2
35	N HA 74'	2.953+/- 1.976	mph	64	S VA 55'	.504+/- 1.103	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	2.84+/- 1.20	195.8+/- 42.5	8.2+/- 30.2
02	17	19	21	2.18+/- 1.21	198.0+/- 51.2	7.9+/- 35.8
03	38	40	42	2.38+/- 1.48	209.7+/- 46.6	14.3+/- 19.3
04	41	43	45	2.79+/- 1.60	141.1+/- 51.7	5.0+/- 26.5
05	50	52	54	2.54+/- 1.50	207.4+/- 45.4	16.0+/- 31.3
06	56	58	60	1.36+/- 1.15	212.9+/- 44.7	11.9+/- 38.5

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2208 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	60.7	69	55.0	65	58.7	42	61.0	2	50.3
Cat2	91	62.1	149	57.8	181	59.1	138	61.3	98	52.9
Cat3	11	62.0	32	60.8	25	60.7	21	60.3	10	54.1
Cat4	17	67.8	22	61.9	21	59.7	13	64.1	8	52.7
Cat5	2	66.0	7	63.0	4	59.7	0	.0	1	51.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	63.5	67	59.8	70	59.3	66	57.4	27	46.2
Cat2	205	66.0	159	61.0	136	60.2	88	59.4	47	48.9
Cat3	20	65.5	38	61.1	42	62.2	7	60.5	3	48.8
Cat4	15	69.5	18	62.5	20	63.4	6	60.4	0	.0
Cat5	0	.0	3	61.3	6	59.3	1	53.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	542	24.5	60.0	1293	58.6	61.2	209	9.5	63.0	140	6.3	60.7	24	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.483+/- 1.748	mph	37	N VA 102'	.433+/- 1.454	mph
12	N Dasibi CD	1.520+/- .631	ppm	38	S BOT PER	1.594+/- 1.407	mph
13	N TOP PAR	2.706+/- 1.377	mph	39	N VA 74'	.115+/- 1.241	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	.543+/- 1.240	mph
15	N TOP VER	.209+/- 1.310	mph	41	N GND PER	1.383+/- 1.610	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.408+/- .507	mph
17	N BOT PER	.926+/- 1.222	mph	43	N GND PAR	1.829+/- 2.333	mph
19	N BOT PAR	2.323+/- 1.684	mph	45	N GND VER	.055+/- .850	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzar-1	1.472+/- .341	ppm
21	N BOT VER	.319+/- 1.162	mph	50	S TOP PER	1.988+/- 1.556	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzar-2	*****+/-*****	ppm
23	N HA 102'	4.545+/- 1.498	mph	52	S TOP PAR	.865+/- 1.426	mph
24	N THC/Byron	2.682+/- .066	ppm	53	N EcoLyzar-3	1.675+/- .787	ppm
25	N WV 102'	230.135+/- 24.572	DEGR AZ	54	S TOP VER	.437+/- .863	mph
26	N NMHC/Byro	1.529+/- .165	ppm	55	N EcoLyzar-4	1.919+/- .719	ppm

27	N Gnd Temp	56.688+/-	3.034	DEGR F	56	S GND PER	.622+/-	.839	mph
28	N CH4/Byron	1.860+/-	.057	ppm	57	N EcoLyzr-5	2.480+/-	.805	ppm
29	N WV 74'	222.323+/-	28.089	DEGR AZ	58	S GND PAR	.202+/-	1.060	mph
30	N CO/Byron	.886+/-	.202	ppm	59	N Rel Hum	39.684+/-	.182	%
31	N 74' Temp	51.190+/-	2.813	DEGR F	60	S GND VER	.248+/-	.648	mph
32	N CO2/Byron	431.933+/-	6.827	ppm	61	N Solar Rad	591.272+/-	8.944	W/m**2
35	N HA 74'	4.087+/-	2.216	mph	64	S VA 55'	.409+/-	1.120	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	3.77+/- 1.41	245.7+/- 26.4	6.4+/- 26.2			
02	17	19	21	3.18+/- 1.39	248.5+/- 31.5	8.7+/- 30.0			
03	38	40	42	2.27+/- 1.29	202.6+/- 37.8	15.4+/- 20.4			
04	41	43	45	3.40+/- 1.57	229.9+/- 42.3	1.5+/- 20.9			
05	50	52	54	2.85+/- 1.43	208.5+/- 35.3	14.6+/- 27.8			
06	56	58	60	1.43+/- .83	210.5+/- 40.6	19.2+/- 38.5			

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8555 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	255	60.5	318	55.3	304	58.6	138	61.1	14	51.8
Cat2	350	61.8	600	57.5	694	59.1	579	61.5	347	52.9
Cat3	50	63.0	125	60.4	138	59.3	92	60.0	31	53.4
Cat4	44	66.5	75	63.0	73	60.2	47	62.6	21	51.3
Cat5	22	69.1	27	63.2	15	62.1	13	61.2	4	56.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	286	64.1	276	58.6	258	59.5	241	58.3	82	46.9
Cat2	772	65.8	615	61.0	501	60.8	338	59.5	196	48.5
Cat3	70	65.4	119	61.3	113	61.7	35	58.1	8	46.5
Cat4	53	67.9	73	61.8	71	62.9	16	60.5	3	43.1
Cat5	8	65.7	16	64.0	25	62.0	2	51.8	2	28.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	2172	25.4	60.0	4992	58.4	60.8	781	9.1	62.5	476	5.6	63.0	134	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.807+/- 1.604	mph	37	N VA 102'	.431+/- 1.350	mph
12	N Oasibi CO	1.800+/- .583	ppm	38	S BDT PER	1.046+/- 1.576	mph
13	N TDP PAR	1.700+/- 1.746	mph	39	N VA 74'	.217+/- 1.236	mph
14	N Oasibi O3	.021+/- .004	ppm	40	S BDT PAR	.787+/- 1.444	mph
15	N TDP VER	.389+/- 1.251	mph	41	N GND PER	1.552+/- 1.623	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.396+/- .488	mph
17	N BDT PER	1.200+/- 1.335	mph	43	N GND PAR	.158+/- 2.298	mph
19	N BDT PAR	1.241+/- 1.833	mph	45	N GND VER	.120+/- .856	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzr-1	1.750+/- .504	ppm
21	N BDT VER	.364+/- 1.107	mph	50	S TDP PER	1.404+/- 1.576	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzr-2	*****+/-*****	ppm
23	N HA 102'	4.154+/- 1.450	mph	52	S TDP PAR	.907+/- 1.438	mph
24	N THC/Byron	2.573+/- .101	ppm	53	N EcoLyzr-3	1.913+/- .809	ppm
25	N WV 102'	217.206+/- 31.793	DEGR AZ	54	S TDP VER	.472+/- .907	mph
26	N NMHC/Byro	1.632+/- .336	ppm	55	N EcoLyzr-4	2.192+/- .773	ppm
27	N Gnd Temp	55.724+/- 3.470	DEGR F	58	S GND PER	.432+/- .864	ppm
28	N CH4/Byron	1.714+/- .137	ppm	57	N EcoLyzr-5	2.695+/- .987	ppm
29	N WV 74'	205.521+/- 34.761	DEGR AZ	58	S GND PAR	.418+/- 1.120	mph
30	N CO/Byron	1.185+/- .589	ppm	59	N Rel Hum	40.559+/- .846	%
31	N 74' Temp	51.190+/- 3.405	DEGR F	60	S GND VER	.250+/- .603	mph
32	N CO2/Byron	437.327+/- 9.884	ppm	61	N Solar Rad	569.642+/- 22.697	W/m**2
35	N HA 74'	3.470+/- 2.089	mph	64	S VA 55'	.416+/- 1.075	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	3.41+/- 1.35	225.3+/- 36.2	8.4+/- 26.3			
02	17	19	21	2.77+/- 1.34	225.5+/- 43.1	10.0+/- 30.4			
03	38	40	42	2.20+/- 1.37	221.3+/- 44.6	15.3+/- 20.2			
04	41	43	45	2.95+/- 1.54	190.9+/- 49.0	3.1+/- 24.0			
05	50	52	54	2.50+/- 1.45	222.6+/- 39.1	17.3+/- 30.4			
06	56	58	60	1.33+/- 1.01	220.9+/- 42.7	20.4+/- 36.0			



12:00:40 -- END RECALIBRATION NCD-2 GRD  
 12:16:18 -- RECALIBRATION OF NCD-2 DIDNOT APPEAR TO CHANGE ANYTHING GRD  
 12:17:20 -- R BEGIN RECALIBRATION NCD-5 GRD  
 12:30:30 -- END CAL NCD-5  
 12:30:39 -- BEGIN CAL NCD-4  
 12:41:10 -- END CAL NCD-4  
 12:41:22 -- BEGIN CAL NCD-3  
 12:51:36 -- END CALIBRATION NCD-3  
 12:51:57 -- BEGIN CALIBRATION NCD-1

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 2202 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	60.0	81	58.2	73	59.1	15	61.3	4	55.1
Cat2	94	62.3	143	57.1	193	59.7	160	61.4	94	52.0
Cat3	7	62.9	34	60.9	34	59.9	16	62.0	10	54.2
Cat4	8	67.9	18	62.2	17	57.3	10	62.7	3	51.4
Cat5	4	68.9	8	66.6	1	60.6	3	64.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	64.1	66	58.6	73	60.6	55	58.6	18	47.1
Cat2	230	66.8	162	60.4	126	61.0	89	60.7	58	47.0
Cat3	16	67.3	27	61.8	29	62.4	9	60.8	4	44.5
Cat4	20	68.7	23	63.6	20	64.4	2	61.4	1	43.5
Cat5	1	69.1	5	62.6	5	66.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	518	23.5	60.2	1349	61.3	61.1	186	8.4	63.0	122	5.5	65.8	27	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	1.089+/-	1.244	mph	37	N VA 102'	.060+/-	1.047	mph
12	N Dasibi CD	1.463+/-	.526	ppm	38	S BOT PER	.239+/-	1.731	mph
13	N TOP PAR	2.982+/-	1.315	mph	39	N VA 74'	.223+/-	.888	mph
14	N Dasibi 03	.023+/-	.003	ppm	40	S BOT PAR	2.218+/-	1.919	mph
15	N TOP VER	.043+/-	.925	mph	41	N GND PER	.761+/-	1.904	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.506+/-	.589	mph
17	N BOT PER	.819+/-	1.266	mph	43	N GND PAR	1.789+/-	1.636	mph
18	N BOT PAR	2.859+/-	1.420	mph	45	N GND VER	.082+/-	.786	mph
20	N NO2/TECO	*****+/-*****		ppm	48	N EcoLyzer-1	1.213+/-	.244	ppm
21	N BOT VER	.040+/-	.830	mph	50	S TOP PER	.529+/-	1.169	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	2.293+/-	.159	ppm
23	N HA 102'	4.608+/-	1.289	mph	52	S TOP PAR	2.140+/-	1.764	mph
24	N THC/Byron	2.698+/-	.078	ppm	53	N EcoLyzer-3	1.349+/-	.622	ppm
25	N WV 102'	241.556+/-	16.747	DEGR AZ	54	S TOP VER	.586+/-	.902	mph
26	N NMHC/Byro	1.811+/-	.217	ppm	55	N EcoLyzer-4	1.361+/-	.559	ppm
27	N Gnd Temp	57.417+/-	3.428	DEGR F	56	S GND PER	.017+/-	1.322	mph
28	N CH4/Byron	1.980+/-	.097	ppm	57	N EcoLyzer-5	1.462+/-	.895	ppm
29	N WV 74'	228.917+/-	19.173	DEGR AZ	58	S GND PAR	.988+/-	1.454	mph
30	N CO/Byron	.622+/-	.261	ppm	59	N Rel Hum	39.228+/-	.303	%
31	N 74' Temp	52.649+/-	3.238	DEGR F	60	S GND VER	.277+/-	.692	mph
32	N CO2/Byron	426.386+/-	2.952	ppm	61	N Solar Rad	592.952+/-	11.447	W/m**2
35	N HA 74'	3.870+/-	2.032	mph	64	S VA 55'	.543+/-	1.077	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.51+/- 1.35	250.5+/- 19.4	.6+/- 18.0
02	17 19 21	3.20+/- 1.34	251.6+/- 24.6	.8+/- 20.0
03	38 40 42	3.18+/- 1.46	259.9+/- 41.6	11.6+/- 16.9
04	41 43 45	2.97+/- 1.32	242.6+/- 42.7	2.4+/- 17.4
05	50 52 54	2.97+/- 1.29	253.7+/- 32.8	17.3+/- 25.4
06	56 58 60	1.86+/- 1.39	245.7+/- 43.3	16.1+/- 33.8

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 2135 vehicles averaging 60.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	60.1	85	56.4	89	58.8	47	60.5	2	51.3
Cat2	73	62.3	155	58.3	172	59.8	126	61.3	113	52.7
Cat3	15	61.8	35	60.9	24	59.2	14	62.5	7	55.6
Cat4	4	65.8	11	60.9	7	62.4	7	57.0	3	48.0
Cat5	2	68.8	2	63.9	2	66.2	4	61.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	64.9	59	58.5	86	60.6	53	59.7	23	47.1
Cat2	222	67.5	146	60.5	127	61.9	93	61.2	47	48.5
Cat3	14	67.0	39	60.6	24	61.0	13	60.3	2	53.2
Cat4	13	67.0	22	61.9	17	63.1	4	57.3	0	0
Cat5	2	67.5	6	62.8	7	65.8	1	54.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	555	26.0	60.6	1274	59.7	61.0	187	8.8	61.2	93	4.4	64.3	26	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	1.441+/-	1.880	mph	37	N VA 102'	1.008+/-	1.419	mph
12	N Dasibi CD	1.546+/-	.538	ppm	38	S BOT PER	2.265+/-	1.648	mph
13	N TOP PAR	3.103+/-	1.905	mph	39	N VA 74'	.404+/-	1.036	mph
14	N Dasibi 03	.022+/-	.004	ppm	40	S BOT PAR	.369+/-	1.478	mph
15	N TOP VER	.371+/-	.946	mph	41	N GND PER	1.273+/-	1.900	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.307+/-	.429	mph
17	N BOT PER	1.114+/-	1.659	mph	43	N GND PAR	1.250+/-	2.323	mph
18	N BOT PAR	2.908+/-	1.999	mph	45	N GND VER	.281+/-	.909	mph
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	1.486+/-	.374	ppm
21	N BOT VER	.360+/-	.908	mph	50	S TOP PER	2.818+/-	1.995	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	2.158+/-	.115	ppm
23	N HA 102'	5.155+/-	1.320	mph	52	S TOP PAR	.839+/-	1.588	mph
24	N THC/Byron	2.514+/-	.108	ppm	53	N EcoLyzer-3	1.802+/-	.749	ppm
25	N WV 102'	228.544+/-	32.549	DEGR AZ	54	S TOP VER	.319+/-	.978	mph
26	N NMHC/Byro	1.637+/-	.191	ppm	55	N EcoLyzer-4	1.700+/-	.678	ppm
27	N Gnd Temp	58.251+/-	4.227	DEGR F	56	S GND PER	1.028+/-	1.098	mph
28	N CH4/Byron	1.884+/-	.066	ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	217.848+/-	33.537	DEGR AZ	58	S GND PAR	.007+/-	1.062	mph

30	N CD/Byron	.917+/-	.571	ppm	59	N Rel Hum	38.951+/-	.401	%
31	N 74' Temp	53.040+/-	1.830	DEGR F	60	S GND VER	.182+/-	.614	mph
32	N CD2/Byron	428.490+/-	3.337	ppm	61	N Solar Rad	599.901+/-	3.333	W/m**2
35	N HA 74'	4.828+/-	1.866	mph	64	S VA 55'	.393+/-	1.184	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	4.19+/- 1.51	243.4+/- 30.5	7.6+/- 17.0			
02	17	19	21	3.82+/- 1.68	246.7+/- 34.1	8.0+/- 19.2			
03	38	40	42	2.83+/- 1.56	187.8+/- 35.6	10.3+/- 15.0			
04	41	43	45	3.28+/- 1.52	220.9+/- 47.7	6.1+/- 21.2			
05	50	52	54	3.57+/- 1.85	194.4+/- 34.4	10.3+/- 22.8			
06	56	58	60	1.57+/- 1.16	191.4+/- 39.7	12.7+/- 33.9			

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 2104 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	60.2	71	55.3	62	57.9	38	60.6	3	51.7
Cat2	97	62.3	136	56.9	152	59.6	137	61.1	86	52.9
Cat3	15	65.5	25	60.3	36	59.3	12	61.3	13	51.6
Cat4	6	66.2	16	63.2	11	62.2	8	64.3	7	50.3
Cat5	4	66.2	11	68.0	3	60.0	2	58.5	2	50.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	64.5	73	59.9	73	58.9	69	56.5	22	49.1
Cat2	219	65.9	146	60.7	144	60.9	80	60.6	56	48.7
Cat3	13	64.8	38	60.8	37	59.7	12	59.6	0	.0
Cat4	18	67.8	18	62.0	18	61.1	6	58.6	0	.0
Cat5	4	68.4	12	61.1	3	65.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	501	23.8	60.2	1253	59.6	60.2	201	9.6	62.5	108	5.1	63.7	41	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.871+/- 2.157	mph	37	N VA 102'	.702+/- 1.375	mph
12	N Dasibi CD	1.709+/- .448	ppm	38	S BDT PER	1.029+/- 1.612	mph
13	N TOP PAR	2.380+/- 1.891	mph	39	N VA 74'	.475+/- 1.241	mph
14	N Dasibi O3	.021+/- .002	ppm	40	S BDT PAR	1.132+/- 1.811	mph
15	N TDP VER	.451+/- 1.150	mph	41	N GND PER	1.719+/- 2.077	mph
16	N NDX/TECO	*****	ppm	42	S BDT VER	.410+/- .489	mph
17	N BDT PER	1.449+/- 1.861	mph	43	N GND PAR	.865+/- 2.211	mph
19	N BDT PAR	1.975+/- 1.729	mph	45	N GND VER	.059+/- .886	ppm
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	1.485+/- .389	ppm
21	N BDT VER	.422+/- .958	mph	50	S TOP PER	1.291+/- 1.549	ppm
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	2.347+/- .086	ppm
23	N HA 102'	4.503+/- 1.378	mph	52	S TOP PAR	1.291+/- 1.630	ppm
24	N THC/Byron	2.413+/- 1.177	ppm	53	N Ecolyzer-3	1.483+/- .574	ppm
25	N WY 102'	228.241+/- 37.834	DEGR AZ	54	S TOP VER	.408+/- .889	mph
26	N NMHC/Byro	1.998+/- .281	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	57.938+/- 2.348	DEGR F	56	S GND PER	.522+/- 1.193	mph
28	N CH4/Byron	1.822+/- .221	ppm	57	N Ecolyzer-5	1.988+/- .912	ppm
29	N WV 74'	214.375+/- 37.831	DEGR AZ	58	S GND PAR	.425+/- 1.167	mph
30	N CD/Byron	1.508+/- .749	ppm	59	N Rel Hum	38.958+/- .611	%
31	N 74' Temp	54.265+/- 2.322	DEGR F	60	S GND VER	.207+/- .601	mph
32	N CD2/Byron	432.340+/- 4.818	ppm	61	N Solar Rad	591.090+/- 6.239	W/m**2
35	N HA 74'	4.177+/- 2.168	mph	64	S VA 55'	.393+/- 1.069	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	4.07+/- 1.58	231.3+/- 39.5	8.0+/- 21.1			
02	17	19	21	3.36+/- 1.50	231.6+/- 39.9	9.4+/- 21.2			
03	38	40	42	2.62+/- 1.31	219.2+/- 44.7	13.9+/- 18.8			
04	41	43	45	3.34+/- 1.58	210.5+/- 48.7	2.2+/- 19.7			
05	50	52	54	2.78+/- 1.27	219.9+/- 45.5	13.2+/- 24.9			
06	56	58	60	1.57+/- 1.08	218.5+/- 43.6	13.6+/- 34.2			

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2163 vehicles averaging 60.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	59.5	67	56.5	80	57.8	60	59.6	6	54.7
Cat2	113	62.6	142	57.6	173	60.1	135	59.8	91	53.3
Cat3	10	63.9	32	62.9	31	59.6	12	60.0	16	58.6
Cat4	9	67.0	15	62.2	12	59.2	4	59.9	2	55.3
Cat5	5	70.0	9	65.9	3	62.7	4	68.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	65.3	67	59.2	69	60.5	54	59.4	25	47.3
Cat2	233	68.5	172	61.2	133	62.1	77	60.0	47	48.7
Cat3	19	67.0	34	62.1	25	60.7	17	62.7	1	40.1
Cat4	5	69.1	26	61.8	18	63.0	6	61.5	0	.0
Cat5	3	71.9	7	63.6	6	65.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	516	23.9	60.6	1316	60.8	61.4	197	9.1	62.4	97	4.5	66.5	37	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.804+/- 2.367	mph	37	N VA 102'	.756+/- 1.552	mph
12	N Dasibi CD	1.646+/- .427	ppm	38	S BDT PER	.651+/- 2.459	mph
13	N TOP PAR	1.105+/- 1.433	mph	39	N VA 74'	.690+/- 1.413	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BDT PAR	1.209+/- 2.488	mph
15	N TDP VER	.547+/- 1.116	mph	41	N GND PER	1.894+/- 1.778	mph
16	N NDX/TECO	*****	ppm	42	S BDT VER	.271+/- .347	mph
17	N BDT PER	1.451+/- 1.967	mph	43	N GND PAR	.507+/- 1.397	mph
19	N BDT PAR	.584+/- 1.396	mph	45	N GND VER	.096+/- .760	ppm
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BDT VER	.451+/- .989	mph	50	S TOP PER	1.121+/- 2.112	ppm

22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.411+/-	.770	ppm
23	N HA 102'	3.748+/- 1.644	mph	52	S TOP PAR	1.452+/-	2.498	ppm
24	N THC/Byron	2.234+/- .100	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	.235.487+/- 46.459	DEGR AZ	54	S TOP VER	.191+/-	.771	ppm
26	N NMHC/Byro	1.721+/- .071	ppm	55	N Ecolyzer-4	2.179+/-	.803	ppm
27	N Gnd Temp	58.355+/- 3.148	DEGR F	56	S GND PER	.024+/-	1.665	ppm
28	N CH4/Byron	1.503+/- .088	ppm	57	N Ecolyzer-5	2.006+/-	.954	ppm
29	N WV 74'	210.659+/- 46.732	DEGR AZ	58	S GND PAR	.773+/-	1.636	ppm
30	N CD/Byron	1.246+/- .414	ppm	59	N Rel Hum	38.121+/-	.407	%
31	N 74' Temp	54.499+/- 2.576	DEGR F	60	S GND VER	.193+/-	.514	ppm
32	N CD2/Byron	428.350+/- 9.532	ppm	61	N Solar Rad	580.145+/-	3.174	W/m**2
35	N HA 74'	3.562+/- 2.202	mph	64	S VA 55'	.208+/-	.977	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.16+/- 1.92	219.2+/- 43.1	17.7+/- 28.2		
02	17 19 21	2.67+/- 1.51	205.0+/- 48.9	16.3+/- 29.1		
03	38 40 42	3.53+/- 1.34	229.2+/- 53.8	5.1+/- 7.1		
04	41 43 45	2.70+/- 1.50	165.6+/- 43.2	2.8+/- 19.5		
05	50 52 54	3.62+/- 1.23	225.9+/- 51.2	5.1+/- 14.9		
06	56 58 60	2.23+/- 1.16	245.5+/- 54.7	7.9+/- 23.0		

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 8804 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	213	59.8	305	56.1	304	56.4	170	60.4	15	53.7
Cat2	377	82.4	576	57.5	690	59.8	558	60.9	384	52.7
Cat3	47	63.6	128	61.3	125	59.5	54	61.6	46	53.8
Cat4	27	66.9	60	62.2	47	59.7	29	61.4	20	50.0
Cat5	15	68.5	30	66.7	9	62.4	13	63.9	2	50.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	198	64.7	285	58.8	301	60.2	231	59.0	88	47.7
Cat2	904	66.7	626	60.7	530	61.5	339	60.6	208	48.2
Cat3	82	66.6	138	61.3	115	60.8	51	61.0	7	46.4
Cat4	56	68.0	89	62.3	73	62.9	18	58.5	1	43.5
Cat5	10	69.4	30	62.3	21	65.9	1	54.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	2090	24.3	60.4	5192	60.3	60.9	771	9.0	62.3	420	4.9	65.1	131	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.546+/- 1.975	mph	37	N VA 102'	.631+/- 1.402	ppm
12	N Dasibi CD	1.591+/- .496	ppm	38	S BOT PER	1.048+/- 2.037	ppm
13	N TOP PAR	2.395+/- 1.834	ppm	39	N VA 74'	.336+/- 1.208	ppm
14	N Dasibi D3	.021+/- .003	ppm	40	S BOT PAR	1.232+/- 2.062	ppm
15	N TOP VER	.353+/- 1.054	ppm	41	N GND PER	1.412+/- 1.963	ppm
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.373+/- .875	ppm
17	N BOT PER	1.209+/- 1.726	ppm	43	N GND PAR	.884+/- 2.106	ppm
19	N BOT PAR	2.031+/- 1.882	ppm	45	N GND VER	.130+/- .841	ppm
20	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	1.442+/- .757	ppm
21	N BOT VER	.318+/- .936	ppm	50	S TOP PER	1.440+/- 1.937	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.302+/- 4.111	ppm
23	N HA 102'	4.504+/- 1.498	mph	52	S TOP PAR	1.430+/- 1.958	ppm
24	N THC/Byron	2.485+/- .207	ppm	53	N Ecolyzer-3	1.553+/- .675	ppm
25	N WV 102'	233.786+/- 36.141	DEGR AZ	54	S TOP VER	.376+/- .898	ppm
26	N NMHC/Byro	1.792+/- .241	ppm	55	N Ecolyzer-4	1.837+/- .809	ppm
27	N Gnd Temp	57.991+/- 3.289	DEGR F	56	S GND PER	.398+/- 1.398	ppm
28	N CH4/Byron	1.797+/- .223	ppm	57	N Ecolyzer-5	1.785+/- .975	ppm
29	N WV 74'	219.028+/- 36.824	DEGR AZ	58	S GND PAR	.548+/- 1.397	ppm
30	N CD/Byron	1.073+/- .617	ppm	59	N Rel Hum	38.817+/- .605	%
31	N 74' Temp	53.613+/- 2.601	DEGR F	60	S GND VER	.215+/- .608	ppm
32	N CD2/Byron	428.144+/- 6.119	ppm	61	N Solar Rad	591.022+/- 9.820	W/m**2
35	N HA 74'	4.109+/- 2.119	mph	64	S VA 55'	.371+/- 1.084	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.73+/- 1.85	237.8+/- 36.0	8.5+/- 22.3		
02	17 19 21	3.26+/- 1.56	237.4+/- 40.5	8.6+/- 23.3		
03	38 40 42	3.04+/- 1.46	221.9+/- 48.1	10.2+/- 15.4		
04	41 43 45	3.07+/- 1.50	210.3+/- 48.2	3.4+/- 19.5		
05	50 52 54	3.23+/- 1.48	223.6+/- 45.1	11.5+/- 22.8		
06	56 58 60	1.81+/- 1.23	221.6+/- 48.3	12.6+/- 31.7		

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 2270 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	60.8	83	55.5	71	58.5	48	60.2	1	52.5
Cat2	97	62.9	154	57.8	181	58.9	129	59.7	26	53.1
Cat3	20	64.9	30	61.9	32	58.1	34	62.6	12	55.9
Cat4	14	67.1	25	61.7	19	58.7	7	57.1	5	48.3
Cat5	3	65.5	5	62.5	3	61.4	3	63.5	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	65.7	72	59.0	69	59.2	66	58.1	29	49.8
Cat2	249	67.3	166	60.1	140	60.8	96	60.0	46	47.3
Cat3	15	69.9	36	61.0	33	60.6	9	56.1	2	49.0
Cat4	24	69.2	22	62.0	21	62.9	2	60.9	1	42.8
Cat5	2	68.3	4	63.0	6	63.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	537	23.7	60.4	1344	59.2	61.3	223	9.8	62.5	140	6.2	63.6	26	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.607+/-	1.798	37	N VA 102'	.467+/-	1.136
12	N Dasibi CD	1.180+/-	.432	38	S BDT PER	-.709+/-	1.984
13	N TOP PAR	-1.644+/-	1.413	39	N VA 74'	.390+/-	1.132
14	N Dasibi 03	.025+/-	.005	40	S BDT PAR	-.140+/-	.860
15	N TDP VER	.424+/-	1.049	41	N GND PER	1.263+/-	1.257
16	N NDX/TECD	*****+/-*****		42	S BDT VER	-.291+/-	.380
17	N BDT PER	.283+/-	1.514	43	N GND PAR	-2.825+/-	1.324
19	N BDT PAR	-1.786+/-	1.284	45	N GND VER	-.209+/-	.714
20	N NO2/TECD	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BDT VER	.507+/-	.892	50	S TOP PER	-.268+/-	1.484
22	N NO/TECD	*****+/-*****		51	N EcoLyzr-2	2.335+/-	.116
23	N HA 102'	3.170+/-	1.225	52	S TOP PAR	-.428+/-	1.184
24	N THC/Byron	2.278+/-	.173	53	N EcoLyzr-3	1.598+/-	.583
25	N WV 102'	104.402+/-	40.266	54	S TOP VER	.322+/-	1.043
26	N NMHC/Byro	1.697+/-	.127	55	N EcoLyzr-4	1.518+/-	.657
27	N Gnd Temp	58.642+/-	2.376	56	S GND PER	.096+/-	1.040
28	N CH4/Byron	1.451+/-	.110	57	N EcoLyzr-5	1.415+/-	.795
29	N WV 74'	94.271+/-	42.198	58	S GND PAR	-.093+/-	.727
30	N CO/Byron	1.031+/-	.221	59	N Rel Hum	37.597+/-	.271
31	N 74' Temp	55.541+/-	3.199	60	S GND VER	.168+/-	.502
32	N CO2/Byron	413.858+/-	10.143	61	N Solar Rad	563.613+/-	6.753
35	N HA 74'	2.953+/-	1.752	64	S VA 55'	.303+/-	1.203

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.88+/- 1.13	105.3+/- 42.5	8.0+/- 26.4
02	17 19 21	2.67+/- 1.04	100.5+/- 40.3	11.1+/- 24.8
03	38 40 42	1.99+/- 1.20	352.8+/- 55.4	12.5+/- 18.1
04	41 43 45	3.42+/- 1.37	111.0+/- 23.8	3.7+/- 16.3
05	50 52 54	2.04+/- .90	73.7+/- 56.8	10.7+/- 42.1
06	56 58 60	1.05+/- .90	212.0+/- 53.8	14.3+/- 34.5

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2267 vehicles averaging 60.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	59.8	73	55.7	52	60.1	42	61.2	8	54.7
Cat2	94	62.6	151	57.6	198	59.3	149	61.5	102	52.0
Cat3	16	63.3	36	60.9	47	60.9	14	61.2	5	49.8
Cat4	12	67.3	23	63.3	19	59.2	11	63.9	6	52.1
Cat5	4	66.6	3	67.2	4	62.3	3	64.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	64.6	73	59.6	66	60.6	67	58.8	20	46.4
Cat2	222	66.5	175	60.8	146	61.6	99	61.0	52	48.5
Cat3	13	66.7	35	62.9	27	61.6	13	57.8	2	48.5
Cat4	20	68.2	15	63.2	19	62.5	4	65.2	1	48.8
Cat5	4	67.1	4	62.2	7	62.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	512	22.6	60.3	1388	61.2	61.3	208	9.2	63.2	130	5.7	64.3	29	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.202+/-	1.418	37	N VA 102'	.424+/-	1.109
12	N Dasibi CD	1.841+/-	.492	38	S BDT PER	1.895+/-	1.299
13	N TOP PAR	-.103+/-	1.782	39	N VA 74'	.099+/-	1.030
14	N Dasibi 03	.020+/-	.002	40	S BDT PAR	.072+/-	1.584
15	N TDP VER	.078+/-	1.191	41	N GND PER	1.706+/-	1.394
16	N NDX/TECD	*****+/-*****		42	S BDT VER	.318+/-	.415
17	N BDT PER	1.145+/-	1.333	43	N GND PAR	-1.705+/-	2.382
19	N BDT PAR	-.605+/-	1.838	45	N GND VER	.218+/-	.944
20	N NO2/TECD	*****+/-*****		49	N EcoLyzr-1	*****+/-*****	
21	N BDT VER	.051+/-	1.037	50	S TOP PER	2.143+/-	1.359
22	N NO/TECD	*****+/-*****		51	N EcoLyzr-2	2.262+/-	.156
23	N HA 102'	3.920+/-	1.289	52	S TOP PAR	.151+/-	1.848
24	N THC/Byron	2.371+/-	.232	53	N EcoLyzr-3	2.248+/-	.874
25	N WV 102'	177.557+/-	33.570	54	S TOP VER	.282+/-	.759
26	N NMHC/Byro	1.679+/-	.325	55	N EcoLyzr-4	2.199+/-	.833
27	N Gnd Temp	59.554+/-	2.620	56	S GND PER	.793+/-	1.093
28	N CH4/Byron	1.384+/-	.077	57	N EcoLyzr-5	2.213+/-	.958
29	N WV 74'	163.450+/-	33.102	58	S GND PAR	.123+/-	1.412
30	N CO/Byron	1.000+/-	.686	59	N Rel Hum	37.095+/-	.456
31	N 74' Temp	57.991+/-	3.211	60	S GND VER	.190+/-	.461
32	N CO2/Byron	398.876+/-	10.695	61	N Solar Rad	540.451+/-	9.047
35	N HA 74'	3.311+/-	2.104	64	S VA 55'	.334+/-	.944

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	3.10+/-	1.37	176.3+/-	38.8	1.2+/-	27.4
02	17	19	21	2.41+/-	1.45	155.9+/-	48.6	1.7+/-	32.5
03	38	40	42	2.58+/-	1.24	186.8+/-	38.6	8.9+/-	14.0
04	41	43	45	3.41+/-	1.85	139.5+/-	42.4	5.5+/-	21.0
05	50	52	54	2.99+/-	1.25	190.9+/-	39.2	6.2+/-	18.6
06	56	58	60	1.63+/-	1.19	189.1+/-	48.1	13.6+/-	27.1

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2255 vehicles averaging 60.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	60.6	94	56.2	8	58.2	54	61.6	7	53.7
Cat2	107	63.0	155	57.5	166	60.4	125	61.5	89	52.0
Cat3	12	59.5	31	60.8	52	60.4	9	59.9	9	53.3
Cat4	14	66.8	12	64.0	25	61.3	5	58.1	4	46.1
Cat5	4	74.8	6	67.3	11	61.8	1	72.1	2	47.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	64.9	71	58.9	78	59.3	65	57.9	23	47.4
Cat2	250	66.5	177	60.7	165	60.8	100	59.1	53	47.6
Cat3	21	69.2	30	62.1	32	62.0	11	61.2	3	43.8
Cat4	14	67.9	16	62.2	19	63.5	2	58.2	0	.0
Cat5	5	67.6	11	62.3	9	61.4	1	63.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	497	22.0	60.4	1387	61.5	61.3	210	9.3	62.9	111	4.9	63.8	50	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.386+/-	1.275	37	N VA 102'	.492+/-	1.121
12	N Dasibi CD	1.706+/-	.548	38	S BOT PER	.779+/-	1.427
13	N TOP PAR	.576+/-	1.981	39	N VA 74'	.415+/-	1.121
14	N Dasibi D3	.020+/-	.003	40	S BOT PAR	.247+/-	1.375
15	N TOP VER	.508+/-	.846	41	N GND PER	1.188+/-	1.473
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.214+/-	.439
17	N BOT PER	.937+/-	1.095	43	N GND PAR	-1.089+/-	2.360
19	N BOT PAR	.139+/-	2.097	45	N GND VER	.249+/-	.664
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.202+/-	.418
21	N BOT VER	.525+/-	1.017	50	S TOP PER	1.003+/-	1.446
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.353+/-	.156
23	N HA 102'	3.326+/-	1.024	52	S TOP PAR	.203+/-	1.678
24	N THC/Byron	2.417+/-	.162	53	N Ecolyzer-3	2.484+/-	.736
25	N WV 102'	218.574+/-	38.472	54	S TOP VER	.115+/-	.951
26	N MMHC/Byro	1.829+/-	.188	55	N Ecolyzer-4	2.338+/-	.753
27	N Gnd Temp	60.205+/-	2.244	58	S GND PER	.212+/-	.689
28	N CH4/Byron	1.503+/-	.068	57	N Ecolyzer-5	2.085+/-	.903
29	N WV 74'	196.666+/-	42.339	58	S GND PAR	.188+/-	.897
30	N CO/Byron	1.993+/-	.235	59	N Rel Hum	35.558+/-	.420
31	N 74' Temp	57.678+/-	2.832	60	S GND VER	.229+/-	.485
32	N CO2/Byron	422.818+/-	4.238	61	N Solar Rad	518.470+/-	4.373
35	N HA 74'	2.745+/-	1.930	64	S VA 55'	.047+/-	1.232

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.77+/-	1.12	203.9+/- 46.2
02	17 19 21	2.51+/-	1.21	189.8+/- 52.2
03	38 40 42	1.88+/-	1.14	205.4+/- 52.4
04	41 43 45	2.87+/-	1.54	145.8+/- 51.6
05	50 52 54	2.22+/-	1.26	192.1+/- 52.4
06	56 58 60	1.01+/-	.78	213.8+/- 48.0

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2283 vehicles averaging 60.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	60.9	75	56.4	5	57.7	49	60.9	8	55.6
Cat2	100	63.0	151	58.2	145	60.7	129	61.5	89	52.3
Cat3	26	64.4	35	62.0	48	60.9	15	63.5	6	50.6
Cat4	14	65.3	15	63.7	43	60.0	8	62.7	3	50.8
Cat5	4	66.4	11	63.2	17	60.1	4	65.8	1	47.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	65.0	67	57.6	59	59.3	72	57.2	20	47.0
Cat2	252	66.3	177	60.4	181	60.9	96	58.5	44	48.1
Cat3	22	68.8	51	61.1	47	61.6	10	58.5	0	.0
Cat4	12	65.2	23	61.0	30	61.0	6	61.5	0	.0
Cat5	2	67.6	7	60.8	6	62.7	2	55.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	469	20.5	60.6	1344	58.9	62.0	282	11.5	61.6	154	6.7	61.9	54	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.798+/-	1.712	37	N VA 102'	.313+/-	1.281
12	N Dasibi CD	1.871+/-	.587	38	S BOT PER	1.507+/-	1.373
13	N TOP PAR	2.019+/-	1.303	39	N VA 74'	-.077+/-	.996
14	N Dasibi D3	.021+/-	.005	40	S BOT PAR	.485+/-	.973
15	N TOP VER	-.001+/-	.872	41	N GND PER	1.896+/-	1.586
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.336+/-	.418
17	N BOT PER	1.642+/-	1.574	43	N GND PAR	.119+/-	1.454
19	N BOT PAR	1.587+/-	1.268	45	N GND VER	.230+/-	.660
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	.746+/-	.296
21	N BOT VER	.137+/-	.776	50	S TOP PER	1.563+/-	1.362
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.431+/-	.105
23	N HA 102'	4.390+/-	1.311	52	S TOP PAR	.953+/-	1.138
24	N THC/Byron	2.294+/-	.080	53	N Ecolyzer-3	1.765+/-	.699
25	N WV 102'	209.864+/-	28.452	54	S TOP VER	.207+/-	.824
26	N MMHC/Byro	1.755+/-	.259	55	N Ecolyzer-4	2.096+/-	.877
27	N Gnd Temp	63.254+/-	2.597	58	S GND PER	.733+/-	1.012
28	N CH4/Byron	1.482+/-	.078	57	N Ecolyzer-5	2.031+/-	.936
29	N WV 74'	198.790+/-	27.395	58	S GND PAR	.013+/-	.847

30	N CO/Byron	985+/-	.208	ppm	59	N Rel Hum	35.216+/-	.688	%
31	N 74' Temp	56.584+/-	3.837	DEGR F	60	S GND VER	.185+/-	.321	mph
32	N CO2/Byron	414.021+/-	11.029	ppm	61	N Solar Rad	490.493+/-	11.400	W/m <sup>2</sup>
35	N HA 74'	3.930+/-	2.155	mph	64	S VA 55'	.193+/-	.874	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.80+/- 1.68	220.1+/- 25.1	-1.1+/- 20.8		
02	17 19 21	2.71+/- 1.60	230.2+/- 35.9	5.2+/- 25.5		
03	38 40 42	2.17+/- .94	204.7+/- 42.4	11.2+/- 14.9		
04	41 43 45	2.65+/- 1.33	186.3+/- 43.2	6.1+/- 24.4		
05	50 52 54	2.49+/- 1.02	216.2+/- 38.3	8.3+/- 22.8		
06	56 58 60	1.14+/- 1.05	201.7+/- 39.2	16.5+/- 29.8		

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 9075 vehicles averaging 60.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	254	60.5	325	56.0	136	59.1	191	61.0	24	54.6
Cat 2	398	62.9	611	57.8	690	59.8	532	61.1	366	52.3
Cat 3	74	63.5	132	61.4	179	60.3	72	62.2	34	53.1
Cat 4	54	66.6	75	63.0	106	59.9	31	61.1	18	49.5
Cat 5	15	68.5	25	64.5	35	61.0	11	65.3	3	47.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	162	65.0	283	58.8	272	59.6	270	58.0	96	47.8
Cat 2	973	66.7	695	60.5	612	61.0	391	59.9	195	47.9
Cat 3	71	68.7	152	61.7	139	61.5	43	58.5	7	46.7
Cat 4	70	68.0	76	62.0	69	62.3	14	62.0	2	45.7
Cat 5	13	67.6	26	62.0	28	62.5	3	57.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	2015	22.2	60.4	5463	60.2	61.5	903	10.0	62.5	535	5.9	63.2	159	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.748+/-	1.768	37	N VA 102'	.424+/-	1.164
12	N Desibi CO	1.650+/-	.586	38	S BOT PER	.668+/-	1.835
13	N TOP PAR	.212+/-	2.104	39	N VA 74'	.207+/-	1.089
14	N Desibi O3	.021+/-	.004	40	S BOT PAR	.156+/-	1.252
15	N TOP VER	.252+/-	1.043	41	N GND PER	1.514+/-	1.463
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.289+/-	.415
17	N BOT PER	1.002+/-	1.472	43	N GND PAR	-1.375+/-	2.218
19	N BOT PAR	-.166+/-	2.057	45	N GND VER	.228+/-	.848
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.305+/-	.959	50	S TOP PER	1.110+/-	1.669
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.346+/-	.148
23	N HA 102'	3.702+/-	1.309	52	S TOP PAR	.222+/-	1.540
24	N THC/Byron	2.340+/-	.176	53	N Ecolyzer-3	2.024+/-	.313
25	N WV 102'	184.896+/-	46.350	54	S TOP VER	.232+/-	.902
26	N NMHC/Byro	1.740+/-	.234	55	N Ecolyzer-4	2.038+/-	.844
27	N Gnd Temp	60.414+/-	2.968	56	S GND PER	.458+/-	1.017
28	N CH4/Byron	1.455+/-	.094	57	N Ecolyzer-5	1.939+/-	.951
29	N WV 74'	169.431+/-	46.275	58	S GND PAR	.058+/-	1.009
30	N CO/Byron	1.252+/-	.588	59	N Rel Hum	36.891+/-	.741
31	N 74' Temp	56.948+/-	3.349	60	S GND VER	.193+/-	.448
32	N CO2/Byron	412.382+/-	12.644	61	N Solar Rad	528.257+/-	28.429
35	N HA 74'	3.235+/-	2.038	64	S VA 55'	.219+/-	1.100

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.14+/- 1.40	183.3+/- 48.3	5.0+/- 25.8		
02	17 19 21	2.57+/- 1.34	170.8+/- 52.8	7.5+/- 28.6		
03	38 40 42	2.15+/- 1.16	201.6+/- 52.6	11.2+/- 17.5		
04	41 43 45	3.12+/- 1.51	141.7+/- 46.2	5.0+/- 20.2		
05	50 52 54	2.44+/- 1.17	197.6+/- 51.5	7.2+/- 31.9		
06	56 58 60	1.21+/- 1.02	205.7+/- 48.2	16.4+/- 31.6		

14:42:47 -- CH 5 RADAR RANGE IS TOO HIGH WILL ADJUST GRD.  
 Average for 15 minute period ending at 14:15:00  
Traffic Data  
 Total Traffic = 2318 vehicles averaging 60.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	61.5	79	55.6	4	51.5	30	62.7	3	50.6
Cat2	110	62.7	174	58.1	158	59.3	142	61.4	104	53.0
Cat3	15	64.5	28	59.2	55	59.9	25	59.8	15	53.2
Cat4	18	66.9	19	62.2	30	59.7	8	60.3	3	49.5
Cat5	2	68.8	7	65.6	24	62.0	2	60.9	1	48.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	65.1	64	58.5	68	60.7	67	57.5	18	47.5
Cat2	240	66.5	184	61.0	180	60.8	106	60.7	76	48.2
Cat3	22	67.7	38	61.9	33	61.1	7	57.1	2	39.1
Cat4	10	69.5	26	62.3	15	61.0	5	57.2	1	49.3
Cat5	1	62.5	5	61.6	4	60.6	1	70.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	420	18.1	60.3	1474	63.6	60.6	240	10.4	62.0	135	5.8	62.5	47	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.324+/-	1.779	37	N VA 102'	.115+/-	1.265
12	N Dasibi CD	1.228+/-	.595	38	S BDT PER	-.474+/-	2.007
13	N TDP PAR	1.434+/-	2.184	39	N VA 74'	-.015+/-	1.239
14	N Dasibi D3	.027+/-	.006	40	S BDT PAR	1.840+/-	1.932
15	N TDP VER	.202+/-	1.093	41	N GND PER	.236+/-	2.448
16	N ND/TECO	*****+/-*****		42	S BDT VER	.412+/-	.532
17	N BDT PER	.200+/-	1.590	43	N GND PAR	.378+/-	2.161
19	N BDT PAR	1.128+/-	2.093	45	N GND VER	.057+/-	.741
20	N ND2/TECO	*****+/-*****		49	N EcoLyzer-1	.954+/-	.457
21	N BDT VER	.346+/-	1.381	50	S TDP PER	-.043+/-	1.681
22	N ND/TECO	*****+/-*****		51	N EcoLyzer-2	2.268+/-	.126
23	N HA 102'	3.600+/-	1.538	52	S TDP PAR	1.395+/-	1.896
24	N THC/Byron	2.153+/-	.178	53	N EcoLyzer-3	1.436+/-	.780
25	N WV 102'	216.172+/-	56.035	54	S TDP VER	.498+/-	.887
26	N NMHC/Byro	1.957+/-	.598	55	N EcoLyzer-4	1.492+/-	.811
27	N Gnd Temp	62.472+/-	3.330	56	S GND PER	.025+/-	1.259
28	N CH4/Byron	1.607+/-	.151	57	N EcoLyzer-5	1.372+/-	.934
29	N WV 74'	255.043+/-	56.449	58	S GND PAR	.661+/-	1.388
30	N CD/Byron	1.394+/-	.860	59	N Rel Hum	35.743+/-	.341
31	N 74' Temp	58.407+/-	3.064	60	S GND VER	.273+/-	.457
32	N CD2/Byron	404.332+/-	18.147	61	N Solar Rad	458.475+/-	8.216
35	N HA 74'	3.546+/-	2.482	64	S VA 55'	.440+/-	1.076

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	2.93+/- 1.56	266.8+/- 53.1	3.8+/- 29.8
02	17 19 21	2.79+/- 1.56	289.8+/- 55.0	7.3+/- 28.7
03	38 40 42	2.92+/- 1.80	279.5+/- 30.3	11.8+/- 15.0
04	41 43 45	2.97+/- 1.61	288.8+/- 56.8	2.5+/- 20.1
05	50 52 54	2.71+/- 1.44	266.5+/- 51.2	14.0+/- 30.0
06	56 58 60	1.58+/- 1.32	242.0+/- 48.6	19.1+/- 30.6

Average for 15 minute period ending at 14:30:00  
Traffic Data  
 Total Traffic = 2330 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	60.3	88	55.7	6	49.0	39	61.0	6	52.7
Cat2	100	62.7	140	58.3	155	59.4	145	60.9	110	51.6
Cat3	15	63.1	33	61.7	58	58.0	20	61.0	7	47.2
Cat4	14	66.3	17	64.7	34	60.5	5	63.9	5	49.9
Cat5	6	66.6	7	60.5	21	62.4	4	61.1	1	48.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	65.4	71	59.0	77	59.2	65	57.4	29	48.0
Cat2	241	67.1	176	59.7	178	60.2	108	59.3	59	46.6
Cat3	19	68.6	46	60.3	44	61.6	10	58.3	1	41.7
Cat4	11	66.6	17	59.4	28	63.0	2	57.4	1	45.3
Cat5	3	65.7	5	61.4	9	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	477	20.5	60.0	1412	60.6	60.8	253	10.9	62.1	132	5.7	62.2	56	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.145+/-	1.345	37	N VA 102'	.266+/-	.940
12	N Dasibi CD	1.472+/-	.547	38	S BDT PER	.380+/-	1.919
13	N TDP PAR	3.031+/-	1.510	39	N VA 74'	.083+/-	1.163
14	N Dasibi D3	.023+/-	.005	40	S BDT PAR	2.512+/-	1.530
15	N TDP VER	.322+/-	1.100	41	N GND PER	1.135+/-	1.671
16	N ND/TECO	*****+/-*****		42	S BDT VER	.313+/-	.654
17	N BDT PER	.945+/-	1.147	43	N GND PAR	1.505+/-	1.969
19	N BDT PAR	2.874+/-	1.478	45	N GND VER	.136+/-	1.034
20	N ND2/TECO	*****+/-*****		49	N EcoLyzer-1	1.094+/-	.304
21	N BDT VER	.333+/-	.982	50	S TDP PER	1.018+/-	1.764
22	N ND/TECO	*****+/-*****		51	N EcoLyzer-2	2.247+/-	.092
23	N HA 102'	4.931+/-	1.587	52	S TDP PAR	2.752+/-	1.498
24	N THC/Byron	2.192+/-	.095	53	N EcoLyzer-3	1.692+/-	.748
25	N WV 102'	246.446+/-	22.202	54	S TDP VER	.256+/-	1.029
26	N NMHC/Byro	1.765+/-	.256	55	N EcoLyzer-4	1.911+/-	.748
27	N Gnd Temp	61.795+/-	3.584	56	S GND PER	.027+/-	1.014
28	N CH4/Byron	1.519+/-	.092	57	N EcoLyzer-5	1.575+/-	.779
29	N WV 74'	233.589+/-	29.474	58	S GND PAR	.964+/-	1.025
30	N CD/Byron	.677+/-	.742	59	N Rel Hum	35.271+/-	.355
31	N 74' Temp	58.981+/-	3.632	60	S GND VER	.175+/-	.568
32	N CD2/Byron	396.841+/-	10.161	61	N Solar Rad	392.213+/-	64.178
35	N HA 74'	4.038+/-	2.351	64	S VA 55'	.167+/-	1.185

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
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01	11	13	15	3.74+/- 1.38	249.4+/- 25.7	8.3+/- 23.2
02	17	19	21	3.30+/- 1.32	249.3+/- 26.0	8.6+/- 22.2
03	38	40	42	3.30+/- 1.44	258.6+/- 37.2	9.1+/- 16.6
04	41	43	45	3.08+/- 1.34	235.4+/- 45.4	3.2+/- 22.6
05	50	52	54	3.55+/- 1.57	249.5+/- 30.4	9.7+/- 23.1
06	56	58	60	1.49+/- 1.06	251.5+/- 39.9	12.9+/- 29.5

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2386 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	61.0	89	58.6	6	53.3	40	60.7	10	52.3
Cat2	116	63.3	152	58.1	136	59.2	140	61.2	105	53.1
Cat3	21	64.9	37	59.4	58	59.0	20	61.7	11	51.6
Cat4	13	66.7	19	63.1	33	61.1	17	62.8	1	46.0
Cat5	6	69.4	12	64.2	24	60.9	1	63.8	1	43.9

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	65.9	67	58.1	66	58.2	65	57.1	33	46.5
Cat2	246	66.2	203	59.9	181	58.0	115	58.2	57	48.5
Cat3	29	69.2	40	60.7	41	59.6	11	56.2	1	45.3
Cat4	15	71.3	28	61.3	26	59.2	6	62.7	1	42.1
Cat5	4	80.8	8	60.1	9	58.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	442	18.5	59.8	1451	60.8	60.7	269	11.3	62.5	159	6.7	62.9	65	2.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.976+/- 1.851	mph	37	N VA 102'	.319+/- 1.121	mph
12	N Dasibi CD	1.667+/- .671	ppm	38	S BOT PER	1.288+/- 2.092	mph
13	N TOP PAR	1.496+/- 1.548	mph	39	N VA 74'	.116+/- .900	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	1.383+/- 1.747	mph
15	N TOP VER	.447+/- 1.068	mph	41	N GND PER	1.357+/- 1.780	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.275+/- .470	mph
17	N BOT PER	1.273+/- 1.559	mph	43	N GND PAR	.158+/- 1.800	mph
19	N BOT PAR	1.083+/- 1.592	mph	45	N GND VER	.045+/- .773	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	1.073+/- .535	ppm
21	N BOT VER	.439+/- .860	mph	50	S TOP PER	1.671+/- 2.228	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	2.084+/- .093	ppm
23	N HA 102'	4.256+/- 1.303	mph	52	S TOP PAR	1.665+/- 1.763	mph
24	N THC/Byron	2.128+/- .123	ppm	53	N EcoLyzer-3	1.791+/- .888	ppm
25	N WV 102'	219.299+/- 31.980	DEGR AZ	54	S TOP VER	.338+/- .928	mph
26	N NMHC/Byro	1.286+/- .602	ppm	55	N EcoLyzer-4	1.945+/- .853	ppm
27	N Gnd Temp	61.847+/- 3.910	DEGR F	56	S GND PER	.448+/- 1.045	mph
28	N CH4/Byron	1.481+/- .081	ppm	57	N EcoLyzer-5	2.005+/- .975	ppm
29	N WV 74'	205.803+/- 32.979	DEGR AZ	58	S GND PAR	.528+/- 1.280	mph
30	N CD/Byron	2.272+/- 1.245	ppm	59	N Rel Hum	35.078+/- .317	%
31	N 76' Temp	57.548+/- 2.939	DEGR F	60	S GND VER	.105+/- .536	mph
32	N CO2/Byron	406.041+/- 19.583	ppm	61	N Solar Rad	385.037+/- 13.613	W/m**2
35	N HA 74'	3.650+/- 2.002	mph	64	S VA 55'	.420+/- 1.149	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.34+/- 1.47	225.6+/- 35.7	9.9+/- 20.1
02	17 19 21	2.55+/- 1.46	221.2+/- 42.1	13.0+/- 27.1
03	38 40 42	3.14+/- 1.18	223.9+/- 44.5	5.8+/- 10.4
04	41 43 45	2.62+/- 1.42	200.1+/- 50.3	2.9+/- 22.8
05	50 52 54	3.58+/- 1.34	225.3+/- 42.4	6.5+/- 18.2
06	56 58 60	1.53+/- 1.06	223.0+/- 46.1	11.4+/- 28.7

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2318 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	61.1	82	55.7	5	65.7	48	60.5	6	50.6
Cat2	111	63.1	134	57.5	191	60.0	122	61.4	110	52.8
Cat3	18	63.1	29	60.8	50	60.0	12	61.2	19	52.5
Cat4	20	67.2	22	63.5	34	61.0	7	60.3	4	50.2
Cat5	4	66.3	7	62.5	16	61.6	5	62.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	64.7	75	58.9	60	59.2	65	58.2	23	46.4
Cat2	201	66.7	203	61.0	154	59.8	105	58.3	74	46.1
Cat3	17	67.4	44	62.2	32	60.8	14	60.0	3	43.8
Cat4	16	69.5	22	61.6	25	60.7	6	59.7	1	41.2
Cat5	1	70.2	11	63.4	12	64.3	1	53.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	461	19.9	59.8	1405	60.8	60.6	236	10.3	62.6	157	6.8	63.0	57	2.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.674+/- 1.395	mph	37	N VA 102'	.107+/- .920	mph
12	N Dasibi CD	2.033+/- .446	ppm	38	S BOT PER	1.663+/- 1.411	mph
13	N TOP PAR	1.650+/- 1.504	mph	39	N VA 74'	-.011+/- .836	mph
14	N Dasibi O3	.018+/- .002	ppm	40	S BOT PAR	.310+/- .881	mph
15	N TOP VER	.120+/- .945	mph	41	N GND PER	2.119+/- 1.485	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.311+/- .261	mph
17	N BOT PER	1.855+/- 1.457	mph	43	N GND PAR	-.719+/- 1.851	mph
19	N BOT PAR	.951+/- 1.517	mph	45	N GND VER	.104+/- .828	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N EcoLyzer-1	1.013+/- .274	ppm
21	N BOT VER	.182+/- .823	mph	50	S TOP PER	1.861+/- 1.359	mph
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	2.267+/- .118	ppm
23	N HA 102'	4.319+/- 1.519	mph	52	S TOP PAR	.701+/- 1.119	mph
24	N THC/Byron	2.210+/- .046	ppm	53	N EcoLyzer-3	1.851+/- .738	ppm
25	N WV 102'	201.880+/- 24.525	DEGR AZ	54	S TOP VER	.302+/- .659	mph
26	N NMHC/Byro	1.713+/- .141	ppm	55	N EcoLyzer-4	2.161+/- .677	ppm
27	N Gnd Temp	63.097+/- 3.057	DEGR F	56	S GND PER	.619+/- .887	mph
28	N CH4/Byron	1.381+/- .060	ppm	57	N EcoLyzer-5	2.437+/- .842	ppm
29	N WV 74'	188.600+/- 23.797	DEGR AZ	58	S GND PAR	-.009+/- .762	mph



30	N CO/Byron	2.042+/-	.712	ppm	59	N Rel Hum	34.799+/-	.290	%
31	N 74' Temp	58.746+/-	3.150	DEGR F	60	S GND VER	.128+/-	.335	mph
32	N CO2/Byron	412.718+/-	22.728	ppm	61	N Solar Rad	337.578+/-	13.614	W/m**2
35	N HA 74'	3.473+/-	2.018	mph	64	S VA 55'	.249+/-	.714	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.54+/- 1.57	210.0+/- 25.5	3.3+/- 20.7
02	17 19 21	2.75+/- 1.38	206.5+/- 39.8	6.0+/- 22.1
03	38 40 42	2.11+/- 1.23	198.3+/- 38.2	12.4+/- 13.4
04	41 43 45	3.03+/- 1.46	160.9+/- 40.1	2.9+/- 22.7
05	50 52 54	2.47+/- 1.21	202.5+/- 35.1	11.8+/- 25.2
06	56 58 60	1.00+/- .93	200.2+/- 38.2	17.5+/- 31.2

Average for hourly period ending at 15:00:00  
Traffic Data  
 Total Traffic = 8350 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	213	61.0	321	55.9	21	54.7	160	61.1	25	51.8
Cat2	437	63.0	600	58.0	640	59.5	549	61.2	429	52.6
Cat3	69	64.0	127	60.3	221	59.5	77	60.8	52	51.8
Cat4	65	66.8	77	63.4	131	60.6	37	61.9	13	49.6
Cat5	18	67.7	33	63.3	85	61.7	12	61.8	3	47.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	156	65.3	277	58.6	271	58.3	252	57.5	104	47.1
Cat2	928	66.6	766	60.4	693	59.7	434	59.1	266	47.3
Cat3	87	66.3	168	61.3	150	60.8	42	58.1	7	42.4
Cat4	52	69.4	93	61.3	92	61.0	19	59.7	4	44.5
Cat5	9	72.6	29	61.8	34	61.6	2	62.1	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
58.4	1800	19.3	60.0	5742	61.4	60.7	1000	10.7	62.3	583	6.2	82.7	225	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.530+/- 1.831	mph	37	N VA 102'	.202+/- 1.073	mph
12	N Desibi CO	1.600+/- .642	ppm	38	S BOT PER	.718+/- 2.048	mph
13	N TOP PAR	1.903+/- 1.829	mph	39	N VA 74'	.043+/- 1.048	mph
14	N Desibi O3	.022+/- .006	ppm	40	S BOT PAR	1.461+/- 1.769	mph
15	N TOP VER	.273+/- 1.058	mph	41	N GND PER	1.212+/- 1.894	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.328+/- .501	mph
17	N BOT PER	1.068+/- 1.565	mph	43	N GND PAR	.331+/- 2.101	mph
19	N BOT PAR	1.454+/- 1.827	mph	46	N GND VER	.085+/- .851	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.033+/- .410	ppm
21	N BOT VER	.325+/- 1.038	mph	50	S TOP PER	1.126+/- 1.931	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	2.219+/- .131	ppm
23	N HA 102'	4.277+/- 1.561	mph	52	S TOP PAR	1.633+/- 1.757	mph
24	N THC/Byron	2.171+/- .122	ppm	53	N EcoLyzer-3	1.682+/- .806	ppm
25	N WV 102'	222.217+/- 41.865	DEGR AZ	54	S TOP VER	.348+/- .889	ppm
26	N NMHC/Byro	1.681+/- .501	ppm	55	N EcoLyzer-4	1.877+/- .811	ppm
27	N Gnd Temp	62.303+/- 3.437	DEGR F	56	S GND PER	.280+/- 1.049	mph
28	N CH4/Byron	1.492+/- .127	ppm	57	N EcoLyzer-5	1.847+/- .975	ppm
29	N WV 74'	211.625+/- 43.807	DEGR AZ	58	S GND PAR	.535+/- 1.186	mph
30	N CO/Byron	1.596+/- 1.089	ppm	58	N Rel Hum	35.222+/- .470	%
31	N 74' Temp	58.420+/- 3.172	DEGR F	60	S GND VER	.170+/- .486	mph
32	N CO2/Byron	404.983+/- 18.672	ppm	61	N Solar Rad	393.326+/- 54.481	W/m**2
35	N HA 74'	3.677+/- 2.229	mph	64	S VA 55'	.315+/- 1.052	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.39+/- 1.55	233.2+/- 41.2	6.3+/- 23.8
02	17 19 21	2.84+/- 1.46	232.0+/- 45.9	8.7+/- 25.5
03	38 40 42	2.87+/- 1.45	236.9+/- 47.2	9.8+/- 14.5
04	41 43 45	2.92+/- 1.47	201.2+/- 52.8	2.9+/- 22.0
05	50 52 54	3.08+/- 1.48	232.9+/- 44.2	10.5+/- 24.6
06	56 58 60	1.40+/- 1.12	228.4+/- 45.5	15.2+/- 30.1

15:31:03 -- ADJUSTMENT OF CH 5 RADAR IS INSUFFICIENT WILL FIRST CALIBRATE ECOL. THEN TRY AGAIN  
 15:31:05 -- GRD  
 15:32:12 --  
 15:32:12 -- THE FOLLOWING CAL. OF ECOL. WILL BE DONE VISUALLY INSTEAD OF WITH THE DVM GRD  
 15:32:27 -- BEGIN CAL. NCO-5  
 15:33:07 -- CORRECTION OF LAST COMMENT BEGIN CAL. NCO-2  
 15:41:34 -- END CAL. NCO-2 GRD  
 15:41:50 -- BEGIN CAL. NCO-5 GRD  
 15:55:46 -- END CAL. NCO-5 GRD  
 15:56:01 -- BEGIN CAL. NCO-4 GRD

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2313 vehicles averaging 60.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	59.7	88	55.2	6	57.2	58	50.9	3	50.9
Cat2	110	62.7	153	57.5	161	59.5	117	61.2	122	52.9
Cat3	13	61.2	30	62.4	52	56.8	17	61.5	20	53.0
Cat4	11	66.1	14	62.7	35	61.9	15	59.5	9	53.4
Cat5	3	69.2	8	66.3	20	63.7	4	64.0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	66.9	56	59.5	80	59.8	67	58.9	22	47.3
Cat2	229	67.3	201	60.6	153	60.9	94	60.0	52	47.9
Cat3	17	69.7	37	61.8	44	61.8	12	61.8	3	49.4
Cat4	13	69.6	16	62.0	22	63.1	3	58.3	0	0
Cat5	3	69.7	12	62.7	4	60.5	1	69.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	483	20.9	60.3	1392	60.2	60.8	245	10.6	62.3	138	6.0	64.4	55	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.243+/-	2.150	37	N VA 102'	.339+/-	1.109
12	N Dasibi CO	1.629+/-	.680	38	S BOT PER	.681+/-	1.444
13	N TOP PAR	2.429+/-	1.211	39	N VA 74'	-.068+/-	1.089
14	N Dasibi 03	.022+/-	.005	40	S BOT PAR	.991+/-	1.334
15	N TOP VER	.058+/-	1.006	41	N GND PER	1.179+/-	1.978
16	N NOX/TECO	*****+/-*****		42	S BOT VER	1.374+/-	.371
17	N BOT PER	1.542+/-	2.041	43	N GND PAR	.498+/-	1.402
19	N BOT PAR	2.055+/-	1.148	45	N GND VER	.105+/-	.629
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	1.272+/-	.590
21	N BOT VER	.172+/-	.767	50	S TOP PER	1.167+/-	1.237
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.406+/-	.130
23	N HA 102'	4.380+/-	1.935	52	S TOP PAK	.955+/-	1.613
24	N THC/Byron	2.224+/-	.083	53	N Ecolyzer-3	1.500+/-	.718
25	N WV 102'	217.980+/-	27.272	54	S TOP VER	.531+/-	.770
26	N MMHC/Byro	1.922+/-	.101	55	N Ecolyzer-4	1.600+/-	.799
27	N Gnd Temp	62.550+/-	2.046	56	S GND PER	.133+/-	.748
28	N CH4/Byron	1.309+/-	.116	57	N Ecolyzer-5	1.764+/-	.954
29	N WV 74'	207.275+/-	26.428	58	S GND PAR	.422+/-	.914
30	N CO/Byron	1.181+/-	.205	59	N Rel Hum	34.620+/-	.234
31	N 74' Temp	59.319+/-	4.443	60	S GND VER	.202+/-	.338
32	N CO2/Byron	392.933+/-	2.428	61	N Solar Rad	292.616+/-	12.182
35	N HA 74'	3.855+/-	2.393	64	S VA 55'	.520+/-	.933

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.81+/- 1.87	234.8+/- 25.4	2.7+/- 23.3
02	17 19 21	3.14+/- 1.69	242.2+/- 30.2	6.1+/- 21.6
03	38 40 42	2.07+/- 1.14	231.1+/- 44.9	15.1+/- 17.5
04	41 43 45	2.47+/- 1.45	220.0+/- 51.3	5.7+/- 21.6
05	50 52 54	2.45+/- 1.12	219.9+/- 45.0	18.7+/- 23.9
06	56 58 60	.97+/- .89	232.6+/- 41.4	21.2+/- 26.4

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2597 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	60.4	102	56.3	4	51.2	58	59.7	7	55.0
Cat2	115	62.1	161	57.7	173	59.7	147	61.2	133	53.0
Cat3	21	63.2	39	60.3	52	60.4	10	61.9	12	53.3
Cat4	21	65.2	20	68.1	27	61.0	11	65.7	2	53.3
Cat5	3	64.0	11	65.7	31	63.1	4	77.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	64.6	72	57.6	82	58.2	82	57.4	31	47.4
Cat2	209	67.1	205	59.8	212	58.9	109	59.0	97	48.2
Cat3	14	68.9	42	61.2	32	59.4	9	56.4	1	50.6
Cat4	13	64.8	30	62.6	27	61.3	6	60.7	1	49.3
Cat5	6	67.6	8	60.5	13	60.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	570	21.9	59.4	1561	60.1	60.7	232	8.9	63.3	158	6.1	64.6	76	2.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.733+/-	1.787	37	N VA 102'	.571+/-	1.416
12	N Dasibi CO	1.727+/-	.418	38	S BOT PER	1.064+/-	1.429
13	N TOP PAR	2.264+/-	2.059	39	N VA 74'	.534+/-	1.422
14	N Dasibi 03	.017+/-	.002	40	S BOT PAR	1.191+/-	1.308
15	N TOP VER	.530+/-	1.102	41	N GND PER	1.243+/-	1.632
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.307+/-	.387
17	N BOT PER	1.253+/-	1.373	43	N GND PAR	.562+/-	2.006
19	N BOT PAR	1.815+/-	1.948	45	N GND VER	.186+/-	.826
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.354+/-	.438
21	N BOT VER	.445+/-	.936	50	S TOP PER	1.196+/-	1.510
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.282+/-	.108
23	N HA 102'	4.861+/-	2.099	52	S TOP PAR	1.800+/-	1.617
24	N THC/Byron	2.073+/-	.083	53	N Ecolyzer-3	1.926+/-	.663
25	N WV 102'	237.017+/-	28.961	54	S TOP VER	.241+/-	.699
26	N MMHC/Byro	1.363+/-	.335	55	N Ecolyzer-4	2.052+/-	.686
27	N Gnd Temp	62.759+/-	2.487	56	S GND PER	.343+/-	.759
28	N CH4/Byron	1.412+/-	.066	57	N Ecolyzer-5	2.079+/-	.921

29	N WV 74'	214.597+/-	35.057	DEGR AZ	58	S GND PAR	.588+/-	.965	mph
30	N CD/Byron	1.084+/-	.588	ppm	59	N Rel Hum	34.689+/-	.791	%
31	N 74' Temp	59.840+/-	4.159	DEGR F	60	S GND VER	.084+/-	.502	mph
32	N CO2/Byron	396.678+/-	17.279	ppm	61	N Solar Rad	245.110+/-	7.542	W/m**2
35	N HA 74'	4.129+/-	2.346	mph	64	S VA 55'	.249+/-	.942	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.73+/- 1.78	230.3+/- 36.6	10.8+/- 21.6		
02	17 19 21	2.98+/- 1.64	231.7+/- 38.7	9.9+/- 26.0		
03	38 40 42	2.15+/- 1.38	226.1+/- 38.5	14.8+/- 18.8		
04	41 43 45	2.63+/- 1.53	207.9+/- 49.1	8.1+/- 25.7		
05	50 52 54	2.63+/- 1.79	236.2+/- 34.4	14.2+/- 27.5		
06	56 58 60	1.15+/- .95	230.7+/- 39.4	13.8+/- 31.6		

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2718 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	59.4	91	55.9	16	56.5	40	61.3	12	55.3
Cat2	143	62.1	172	57.1	230	59.5	160	62.1	115	52.8
Cat3	21	64.6	29	59.0	58	59.4	21	61.4	10	51.0
Cat4	11	66.8	18	61.7	31	62.4	14	61.6	6	51.6
Cat5	6	70.1	3	62.5	10	61.1	3	68.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	65.7	68	57.0	84	57.9	74	57.9	44	46.5
Cat2	247	67.1	244	59.9	214	58.3	135	59.8	83	47.5
Cat3	21	68.0	38	60.4	33	58.8	13	58.2	2	45.7
Cat4	15	66.6	26	61.3	30	60.5	4	60.7	0	.0
Cat5	5	68.8	12	60.9	14	60.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	521	19.2	59.7	1743	64.1	60.2	246	9.1	61.9	155	5.7	63.2	53	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.834+/- 1.817	mph	37	N VA 102'	.288+/- 1.017	mph
12	N Desibi CO	2.013+/- .760	ppm	38	S BOT PER	.313+/- 1.371	mph
13	N TOP PAR	3.128+/- 1.452	mph	39	N VA 74'	.169+/- .854	mph
14	N Desibi O3	.017+/- .002	ppm	40	S BOT PAR	1.417+/- 1.538	mph
15	N TOP VER	.113+/- .755	mph	41	N GND PER	1.491+/- 1.934	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	1.422+/- .407	mph
17	N BOT PER	1.248+/- 1.558	mph	43	N GND PAR	1.217+/- 1.912	mph
19	N BOT PAR	2.438+/- 1.292	mph	45	N GND VER	.094+/- 1.038	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.375+/- .839	ppm
21	N BOT VER	.157+/- .897	mph	50	S TOP PAR	1.839+/- 1.037	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.102+/- 1.666	mph	52	S TOP PAR	1.946+/- 1.651	ppm
24	N THC/Byron	2.158+/- .185	ppm	53	N Ecolyzer-3	2.142+/- .902	ppm
25	N WV 102'	235.116+/- 16.035	DEGR AZ	54	S TOP VER	3.112+/- .784	mph
26	N NMHC/Byro	1.387+/- .245	ppm	55	N Ecolyzer-4	2.423+/- .990	ppm
27	N Gnd Temp	61.326+/- 3.623	DEGR F	56	S GND PER	.079+/- 1.076	ppm
28	N CM4/Byron	1.413+/- .087	ppm	57	N Ecolyzer-5	2.562+/- 1.190	ppm
29	N WV 74'	222.907+/- 20.399	DEGR AZ	58	S GND PAR	.452+/- .964	mph
30	N CD/Byron	1.304+/- .432	ppm	59	N Rel Hum	34.343+/- .379	%
31	N 74' Temp	59.033+/- 3.526	DEGR F	60	S GND VER	.151+/- .417	mph
32	N CO2/Byron	420.841+/- 5.030	ppm	61	N Solar Rad	192.927+/- 25.818	W/m**2
35	N HA 74'	4.469+/- 2.176	mph	64	S VA 55'	.069+/- .849	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.00+/- 1.77	243.5+/- 21.6	2.7+/- 15.0		
02	17 19 21	3.19+/- 1.49	245.0+/- 26.3	4.3+/- 20.8		
03	38 40 42	2.12+/- 1.49	248.2+/- 40.3	17.0+/- 23.2		
04	41 43 45	3.12+/- 1.56	227.4+/- 47.6	4.8+/- 21.0		
05	50 52 54	2.58+/- 1.52	242.9+/- 31.5	11.0+/- 26.0		
06	56 58 60	1.03+/- 1.20	226.1+/- 39.1	20.3+/- 30.4		

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2780 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	59.6	81	54.8	13	58.4	54	61.0	6	46.3
Cat2	160	61.9	180	56.8	186	58.5	155	60.2	165	50.5
Cat3	15	62.9	42	60.5	58	58.1	20	59.9	14	52.4
Cat4	9	66.1	24	62.4	30	58.8	12	60.1	7	51.9
Cat5	13	65.8	9	65.1	16	57.7	2	69.1	2	49.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	64.2	64	58.0	70	58.2	66	57.5	36	44.8
Cat2	244	67.3	229	59.0	241	59.1	123	58.8	105	45.8
Cat3	19	66.5	80	60.1	46	59.9	12	58.5	4	40.0
Cat4	13	67.6	28	60.4	30	58.6	6	59.2	3	41.7
Cat5	1	61.9	9	61.6	12	60.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	496	17.8	58.7	1788	63.4	59.5	300	10.8	60.2	162	5.8	61.7	64	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.803+/- 1.505	mph	37	N VA 102'	.364+/- .998	mph
12	N Desibi CO	2.324+/- .581	ppm	38	S BOT PER	1.049+/- 1.424	mph
13	N TOP PAR	2.722+/- 1.736	mph	39	N VA 74'	.089+/- .836	mph
14	N Desibi O3	.017+/- .002	ppm	40	S BOT PAR	.685+/- 1.345	mph
15	N TOP VER	.171+/- .903	mph	41	N GND PER	2.076+/- 1.556	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.360+/- .380	mph
17	N BOT PER	1.609+/- 1.494	mph	43	N GND PAR	.394+/- 2.323	mph
19	N BOT PAR	2.074+/- 1.834	mph	45	N GND VER	.156+/- .790	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.223+/- .363	ppm

21	N BOT VER	.171+/-	.832	mph	50	S TOP PER	1.514+/-	1.499	mph
22	N ND/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	2.483+/-	.125	ppm
23	N HA 102'	5.721+/-	1.864	mph	52	S TOP PAR	1.137+/-	1.422	mph
24	N THC/Byron	2.601+/-	.098	ppm	53	N Ecolyzer-3	1.901+/-	.897	ppm
25	N WV 102'	214.588+/-	21.746	DEGR AZ	54	S TOP VER	.328+/-	.624	mph
26	N NMHC/Byro	1.904+/-	.379	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	60.778+/-	2.928	DEGR F	56	S GND PER	.282+/-	.731	mph
28	N CH4/Byron	1.552+/-	.072	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	202.223+/-	21.699	DEGR AZ	58	S GND PAR	.136+/-	.856	mph
30	N CO/Byron	3.029+/-	1.388	ppm	59	N Re1 Hum	34.555+/-	.290	%
31	N 74' Temp	57.339+/-	3.135	DEGR F	60	S GND VER	.101+/-	.406	mph
32	N CO2/Byron	404.739+/-	6.312	ppm	61	N Solar Rad	82.158+/-	25.683	W/m**2
35	N HA 74'	4.720+/-	2.182	mph	64	S VA 55'	.397+/-	.801	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.39+/- 1.44	222.9+/- 24.4	4.7+/- 15.4		
02	17 19 21	3.21+/- 1.70	229.3+/- 34.1	5.8+/- 24.3		
03	38 40 42	2.02+/- 1.26	209.2+/- 42.5	16.0+/- 19.3		
04	41 43 45	3.32+/- 1.36	188.3+/- 43.5	2.9+/- 15.8		
05	50 52 54	2.50+/- 1.45	218.3+/- 34.3	13.8+/- 27.5		
06	56 58 60	.85+/- .90	209.3+/- 40.5	19.7+/- 28.6		

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 10418 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	287	59.8	362	55.6	38	56.7	210	60.7	28	52.8
Cat2	528	62.2	646	57.3	750	59.3	579	61.2	535	52.2
Cat3	70	63.2	140	60.5	230	59.1	88	61.1	56	52.6
Cat4	52	65.9	76	63.8	123	61.1	52	61.5	24	52.5
Cat5	25	69.4	31	65.4	77	61.9	13	69.8	2	49.6

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	146	65.3	260	58.0	316	58.5	289	57.9	133	46.4
Cat2	929	67.2	879	59.8	820	59.2	461	59.4	337	47.2
Cat3	71	68.2	177	60.8	155	60.1	46	58.9	10	45.0
Cat4	54	67.1	100	61.5	109	60.7	19	59.8	4	43.6
Cat5	15	68.0	41	61.5	43	60.6	1	69.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	2070	19.9	59.5	6464	62.0	60.3	1023	9.8	61.9	613	5.9	63.5	248	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.153+/- 1.873	mph	37	N VA 102'	.391+/- 1.150	mph
12	N Dasibi CO	1.923+/- .679	ppm	38	S BOT PER	.777+/- 1.448	mph
13	N TOP PAR	2.636+/- 1.674	mph	39	N VA 74'	.183+/- 1.097	mph
14	N Dasibi D3	.018+/- .004	ppm	40	S BOT PAR	1.071+/- 1.407	mph
15	N TOP VER	.218+/- .966	mph	41	N GND PER	1.497+/- 1.815	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.366+/- .388	mph
17	N BOT PER	1.413+/- 1.641	mph	43	N GND PAR	.667+/- 1.962	mph
19	N BOT PAR	2.095+/- 1.605	mph	45	N GND VER	.136+/- .875	ppm
20	N ND/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.306+/- .503	ppm
21	N BOT VER	.236+/- .867	mph	50	S TOP PER	1.179+/- 1.354	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.387+/- .143	ppm
23	N HA 102'	5.016+/- 1.908	mph	52	S TOP PAR	1.459+/- 1.831	mph
24	N THC/Byron	2.264+/- .231	ppm	53	N Ecolyzer-3	1.857+/- .834	ppm
25	N WV 102'	226.180+/- 25.715	DEGR AZ	54	S TOP VER	.353+/- .723	ppm
26	N NMHC/Byro	1.644+/- .368	ppm	55	N Ecolyzer-4	2.048+/- .851	ppm
27	N Gnd Temp	61.853+/- 2.882	DEGR F	56	S GND PER	.210+/- .846	mph
28	N CH4/Byron	1.422+/- .122	ppm	57	N Ecolyzer-5	2.199+/- 1.090	ppm
29	N WV 74'	211.735+/- 27.576	DEGR AZ	58	S GND PAR	.400+/- .935	mph
30	N CO/Byron	1.652+/- 1.131	ppm	59	N Re1 Hum	34.547+/- .479	%
31	N 74' Temp	58.883+/- 3.868	DEGR F	60	S GND VER	.134+/- 4.422	mph
32	N CO2/Byron	403.823+/- 14.334	ppm	61	N Solar Rad	203.203+/- 81.282	W/m**2
35	N HA 74'	4.293+/- 2.295	mph	64	S VA 55'	.309+/- .897	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.98+/- 1.74	233.0+/- 28.5	5.2+/- 19.4		
02	17 19 21	3.13+/- 1.63	237.4+/- 33.2	6.5+/- 23.3		
03	38 40 42	2.09+/- 1.32	228.9+/- 42.6	15.7+/- 19.6		
04	41 43 45	2.88+/- 1.52	209.6+/- 48.8	5.3+/- 21.4		
05	50 52 54	2.54+/- 1.48	230.0+/- 37.8	14.4+/- 25.3		
06	56 58 60	1.00+/- 1.00	225.2+/- 40.6	18.7+/- 29.4		

16:10:32 -- END CAL. NCO-4  
 16:10:42 -- BEGIN CAL. NCO-3  
 16:26:03 -- END CAL. NCO-3  
 16:26:14 -- BEGIN CAL. NCO-1  
 16:42:56 -- END CAL. NCO-1 GRD  
 16:43:24 -- WILL NOW ADJUST RANGE ONCH. 5 RADAR GRD  
 16:50:56 -- CH 5 RADAR APPEARS TO BE BETTER ADJUSTED GRD  
 Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2753 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	60.3	96	55.9	5	55.5	64	60.4	10	52.4
Cat2	154	61.9	200	57.9	209	59.1	130	60.9	155	51.7
Cat3	21	63.4	37	61.0	57	59.5	11	62.9	16	51.2
Cat4	11	66.8	19	63.1	31	60.2	15	62.8	7	51.8
Cat5	9	67.3	13	65.0	13	61.2	1	44.6	1	54.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	66.1	89	58.1	100	58.1	75	57.6	39	48.1
Cat2	218	67.2	235	58.8	218	59.2	124	59.0	102	47.5
Cat3	13	66.9	29	60.1	34	60.3	6	58.2	5	45.0
Cat4	13	68.5	15	61.2	17	61.6	3	55.8	1	50.0
Cat5	1	64.9	7	60.5	8	61.7	1	****	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.9	603	21.8	59.0	1745	63.2	60.0	229	8.3	61.9	132	4.8	63.6	54	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.897+/-	1.282	37	N VA 102'	.244+/-	.934
12	N Dasibi CD	2.626+/-	.805	38	S BOT PER	.847+/-	1.028
13	N TOP PAR	1.738+/-	1.077	39	N VA 74'	.234+/-	.798
14	N Dasibi O3	.017+/-	.002	40	S BOT PAR	.640+/-	.868
15	N TOP VER	.220+/-	.777	41	N GND PER	1.499+/-	1.389
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.330+/-	.281
17	N BOT PER	1.177+/-	1.203	43	N GND PAR	-.443+/-	1.845
19	N BOT PAR	1.032+/-	1.235	45	N GND VER	.223+/-	.774
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.369+/-	.451
21	N BOT VER	.257+/-	.796	50	S TOP PER	1.010+/-	.837
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.851+/-	.415
23	N HA 102'	4.352+/-	1.187	52	S TOP PAR	1.132+/-	1.002
24	N THC/Byron	2.617+/-	.143	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	216.774+/-	18.872	54	S TOP VER	.362+/-	.533
26	N NMHC/Byro	1.488+/-	.258	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	61.821+/-	3.009	56	S GND PER	.127+/-	.393
28	N CH4/Byron	1.500+/-	.098	57	N Ecolyzer-5	3.303+/-	1.187
29	N WV 74'	204.964+/-	20.820	58	S GND PAR	3.252+/-	.451
30	N CO/Byron	2.775+/-	.271	59	N Rel Hum	34.538+/-	.274
31	N 74' Temp	58.564+/-	2.857	60	S GND VER	.159+/-	.322
32	N CO2/Byron	418.010+/-	8.386	61	N Solar Rad	48.232+/-	3.289
35	N HA 74'	3.239+/-	1.674	64	S VA 55'	.277+/-	.591

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	2.95+/- 1.17	224.8+/- 26.2	9.5+/- 22.7
02	17 19 21	2.20+/- 1.14	221.5+/- 41.0	14.0+/- 28.0
03	38 40 42	1.52+/- .92	217.0+/- 38.4	18.6+/- 17.9
04	41 43 45	2.68+/- 1.10	167.8+/- 47.1	5.0+/- 20.0
05	50 52 54	1.86+/- .98	227.5+/- 28.8	18.0+/- 27.7
06	56 58 60	.53+/- .54	228.7+/- 35.5	28.8+/- 23.5

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2652 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	98	59.9	88	54.8	7	56.6	45	58.2	6	52.9
Cat2	138	62.2	169	56.6	186	57.9	187	60.1	155	51.7
Cat3	16	63.6	41	60.1	66	58.8	11	60.5	14	51.2
Cat4	16	66.1	22	65.4	30	59.9	6	61.6	6	52.7
Cat5	5	67.7	5	66.1	20	59.3	2	61.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	65.3	68	57.3	87	57.5	82	55.8	35	47.5
Cat2	197	67.4	224	59.2	196	58.1	129	57.8	99	45.9
Cat3	16	66.8	37	58.3	44	58.0	8	57.8	3	40.4
Cat4	12	68.2	24	60.0	23	60.1	3	53.0	0	0
Cat5	2	67.2	3	65.5	10	60.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.0	547	20.6	58.4	1660	62.6	59.0	256	9.7	61.8	142	5.4	62.3	47	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.949+/-	1.165	37	N VA 102'	.375+/-	.902
12	N Dasibi CD	2.503+/-	.410	38	S BOT PER	1.349+/-	.997
13	N TOP PAR	2.176+/-	1.194	39	N VA 74'	.284+/-	.655
14	N Dasibi O3	.018+/-	.002	40	S BOT PAR	.773+/-	.889
15	N TOP VER	.373+/-	.789	41	N GND PER	1.645+/-	1.323
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.403+/-	.315
17	N BOT PER	1.112+/-	1.153	43	N GND PAR	-.365+/-	1.733
19	N BOT PAR	1.302+/-	1.201	45	N GND VER	.239+/-	.919
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.263+/-	.320
21	N BOT VER	.293+/-	.731	50	S TOP PER	1.856+/-	1.306
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.782+/-	.096
23	N HA 102'	4.777+/-	1.270	52	S TOP PAR	1.487+/-	1.069
24	N THC/Byron	2.659+/-	.140	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	221.202+/-	17.507	54	S TOP VER	.210+/-	.465
26	N NMHC/Byro	2.172+/-	.209	55	N Ecolyzer-4	3.173+/-	.743
27	N Gnd Temp	59.033+/-	3.498	56	S GND PER	.299+/-	.469
28	N CH4/Byron	1.436+/-	.063	57	N Ecolyzer-5	3.049+/-	.724
29	N WV 74'	208.185+/-	19.303	58	S GND PAR	.232+/-	.438
30	N CO/Byron	2.387+/-	.097	59	N Rel Hum	34.717+/-	.275
31	N 74' Temp	57.287+/-	2.714	60	S GND VER	.123+/-	.319

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.30+/- 1.08	228.7+/- 22.1	10.9+/- 22.5
02	17 19 21	2.23+/- 1.18	227.6+/- 35.4	10.8+/- 26.3
03	38 40 42	1.83+/- 1.06	209.9+/- 25.7	20.1+/- 20.4
04	41 43 45	2.69+/- 1.12	188.7+/- 43.7	7.3+/- 25.8
05	50 52 54	2.61+/- 1.39	223.0+/- 23.0	9.7+/- 18.6
06	56 58 60	.53+/- .63	218.3+/- 24.9	25.4+/- 24.4

Average for 15 minute period ending at 16:45:00  
Traffic Data  
 Total Traffic = 2643 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	91	59.8	99	55.1	9	58.0	46	60.1	6	54.5
Cat2	131	61.3	179	58.5	175	58.4	158	58.8	127	51.1
Cat3	18	61.7	33	62.0	56	58.1	18	59.4	6	54.8
Cat4	10	66.4	30	62.8	36	58.6	12	54.9	5	49.8
Cat5	11	69.9	8	68.7	23	60.5	2	70.1	1	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	66.1	82	57.9	98	58.9	71	56.0	34	46.0
Cat2	209	66.5	248	59.2	194	58.8	119	58.5	98	45.9
Cat3	8	69.3	32	58.5	25	59.9	8	56.6	4	41.9
Cat4	5	68.1	27	60.4	26	61.2	6	57.8	3	42.4
Cat5	1	68.7	4	63.3	7	61.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	580	21.9	58.5	1638	62.0	59.4	208	7.9	60.0	160	6.1	64.9	57	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.170+/- .927	mph	37	N VA 102'	.280+/- .799	mph
12	N Dasibi CD	2.185+/- .609	ppm	38	S BOT PER	.448+/- .620	mph
13	N TOP PAR	3.096+/- 1.638	mph	39	N VA 74'	.155+/- .756	mph
14	N Dasibi 03	.014+/- .001	ppm	40	S BOT PAR	.635+/- .792	mph
15	N TOP VER	.207+/- .832	mph	41	N GND PER	1.044+/- 1.289	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.410+/- .264	mph
17	N BOT PER	1.015+/- .902	mph	43	N GND PAR	1.267+/- 1.774	mph
19	N BOT PAR	2.629+/- 1.638	mph	45	N GND VER	.245+/- .759	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.241+/- .825	mph	50	S TOP PER	.493+/- .625	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	2.856+/- .114	ppm
23	N HA 102'	5.153+/- 1.334	mph	52	S TOP PAR	1.359+/- .799	mph
24	N THC/Byron	2.298+/- .213	ppm	53	N Ecolyzer-3	2.270+/- .987	ppm
25	N WV 102'	241.555+/- 9.727	DEGR AZ	54	S TOP VER	.207+/- .476	mph
26	N NMHC/Byro	1.979+/- .235	ppm	55	N Ecolyzer-4	2.974+/- .940	ppm
27	N Gnd Temp	58.590+/- 3.241	DEGR F	56	S GND PER	.125+/- .260	mph
28	N CH4/Byron	1.392+/- .074	ppm	57	N Ecolyzer-5	2.670+/- .827	ppm
29	N WV 74'	229.010+/- 14.950	DEGR AZ	58	S GND PAR	.185+/- .363	mph
30	N C0/Byron	2.210+/- .359	ppm	59	N Rsl Hum	34.857+/- .259	%
31	N 74' Temp	57.105+/- 3.416	DEGR F	60	S GND VER	.152+/- .281	mph
32	N C02/Byron	426.722+/- 5.748	ppm	61	N Solar Rad	39.875+/- 2.856	W/m**2
35	N HA 74'	4.707+/- 2.415	mph	64	S VA 55'	.111+/- .578	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.60+/- 1.49	247.6+/- 17.9	10.7+/- 26.3
02	17 19 21	3.23+/- 1.32	243.5+/- 31.4	10.0+/- 23.8
03	38 40 42	1.15+/- .73	223.2+/- 33.8	31.3+/- 23.7
04	41 43 45	2.62+/- 1.13	230.9+/- 45.9	9.3+/- 22.0
05	50 52 54	1.65+/- .82	249.8+/- 19.0	13.9+/- 23.1
06	56 58 60	.42+/- .40	223.1+/- 32.0	27.8+/- 21.9

Average for 15 minute period ending at 17:00:00  
Traffic Data  
 Total Traffic = 2826 vehicles averaging 57.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	59.5	101	54.0	109	56.6	44	58.5	9	52.3
Cat2	127	61.9	162	58.2	191	58.4	155	60.2	142	51.9
Cat3	19	63.0	31	61.4	30	57.8	13	60.5	5	56.2
Cat4	24	64.8	20	62.2	8	59.5	11	60.1	4	52.2
Cat5	2	69.7	9	64.8	2	54.8	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	63.1	71	56.3	83	56.7	92	55.7	50	46.8
Cat2	224	64.4	274	56.8	257	57.0	120	57.7	115	48.6
Cat3	19	64.3	46	58.4	26	58.0	12	57.9	2	47.9
Cat4	11	65.8	26	57.5	29	58.2	2	57.4	1	35.4
Cat5	5	62.5	9	58.7	12	59.0	2	52.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	679	24.0	57.6	1767	62.5	59.6	203	7.2	60.3	136	4.8	60.6	41	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.357+/- .775	mph	37	N VA 102'	.187+/- .761	mph
12	N Dasibi CO	3.074+/- .532	ppm	38	S BOT PER	.588+/- .596	mph
13	N TOP PAR	1.811+/- .956	mph	39	N VA 74'	.186+/- .358	mph
14	N Dasibi 03	.016+/- .002	ppm	40	S BOT PAR	.335+/- .376	mph
15	N TOP VER	.255+/- .471	mph	41	N GND PER	1.749+/- 1.211	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.498+/- .300	mph
17	N BOT PER	1.038+/- .925	mph	43	N GND PAR	.005+/- 1.322	mph
19	N BOT PAR	1.404+/- .958	mph	45	N GND VER	.225+/- .816	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	1.574+/- .332	ppm
21	N BOT VER	.325+/- .544	mph	50	S TOP PER	.637+/- .765	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	3.101+/- .168	ppm
23	N HA 102'	4.148+/- 1.092	mph	52	S TOP PAR	1.002+/- .537	mph

24	N THC/Byron	2.337+/-	.136	ppm	53	N Ecolyzer-3	2.630+/-	1.019	ppm
25	N WV 102'	227.669+/-	11.541	DEGR AZ	54	S TOP VER	.169+/-	.269	mph
26	N NMHC/Byro	1.659+/-	.222	ppm	55	N Ecolyzer-4	3.814+/-	.922	ppm
27	N Gnd Temp	58.251+/-	2.890	DEGR F	56	S GND PER	.155+/-	.116	mph
28	N CH4/Byron	1.392+/-	.073	ppm	57	N Ecolyzer-5	3.634+/-	1.004	ppm
29	N WV 74'	213.783+/-	13.774	DEGR AZ	58	S GND PAR	1.824+/-	.478	mph
30	N CO/Byron	1.780+/-	.690	ppm	59	N Rel Hum	35.206+/-	.105	mph
31	N 74' Temp	55.620+/-	2.029	DEGR F	60	S GND VER	.120+/-	.361	W/m=2
32	N CO2/Byron	430.712+/-	5.536	ppm	61	N Solar Rad	29.793+/-	.342	mph
35	N HA 74'	2.629+/-	1.738	mph	64	S VA 55'	.102+/-		mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.42+/- 1.03	232.6+/- 20.0	9.1+/- 16.6		
02	17 19 21	2.05+/- 1.00	232.8+/- 25.6	13.7+/- 20.7		
03	38 40 42	.99+/- .57	211.8+/- 26.5	38.5+/- 24.3		
04	41 43 45	2.39+/- 1.12	184.6+/- 39.5	6.9+/- 23.6		
05	50 52 54	1.32+/- .80	243.4+/- 19.6	13.0+/- 15.2		
06	56 58 60	.29+/- .18	222.3+/- 19.2	30.2+/- 17.7		

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10884 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	356	59.8	384	54.9	134	56.5	199	59.4	31	52.9
Cat2	550	61.8	710	56.9	761	58.5	610	60.2	579	51.7
Cat3	74	62.9	142	61.0	209	58.6	53	60.6	41	52.4
Cat4	61	65.8	91	63.4	105	59.5	44	59.8	22	51.7
Cat5	27	68.6	35	66.0	58	60.0	5	61.4	2	78.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	149	65.2	310	57.4	368	57.9	320	58.3	158	47.1
Cat2	848	66.3	981	58.4	865	58.2	492	58.2	414	46.5
Cat3	56	66.3	144	58.7	129	59.0	34	57.6	14	43.5
Cat4	41	67.6	92	59.6	95	60.1	14	56.3	5	42.5
Cat5	9	64.5	23	60.9	37	60.8	3	70.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
57.1	2409	58.3	6810	62.6	896	61.0	570	63.1	199

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.593+/- 1.106	mph	37	N VA 102'	.271+/- .853	mph
12	N Des1b1 CO	2.592+/- .888	ppm	38	S BOT PER	.808+/- .901	mph
13	N TOP PAR	2.205+/- 1.353	mph	39	N VA 74'	.215+/- .865	mph
14	N Des1b1 O3	.018+/- .002	ppm	40	S BOT PAR	.598+/- .781	mph
15	N TOP VER	.284+/- .733	mph	41	N GND PER	1.484+/- 1.330	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.410+/- .292	mph
17	N BOT PER	1.085+/- 1.055	mph	43	N GND PAR	1.164+/- 1.812	mph
19	N BOT PAR	1.592+/- 1.419	mph	45	N GND VER	.233+/- .818	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.279+/- .731	mph	50	S TOP PER	.999+/- 1.060	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.843+/- .288	ppm
23	N HA 102'	4.607+/- 1.282	mph	52	S TOP PAR	1.245+/- .895	mph
24	N THC/Byron	2.478+/- .226	ppm	53	N Ecolyzer-3	2.408+/- .957	ppm
25	N WV 102'	226.926+/- 17.368	DEGR AZ	54	S TOP VER	.237+/- .452	mph
26	N NMHC/Byro	1.825+/- .353	ppm	55	N Ecolyzer-4	3.390+/- 1.015	ppm
27	N Gnd Temp	59.424+/- 3.419	DEGR F	56	S GND PER	.177+/- .344	mph
28	N CH4/Byron	1.430+/- .088	ppm	57	N Ecolyzer-5	3.164+/- 1.030	ppm
29	N WV 74'	214.071+/- 19.512	DEGR AZ	58	S GND PAR	.203+/- .375	mph
30	N CO/Byron	2.283+/- .546	ppm	59	N Rel Hum	34.840+/- .408	%
31	N 74' Temp	57.144+/- 2.922	DEGR F	60	S GND VER	.141+/- .267	mph
32	N CO2/Byron	421.674+/- 9.821	ppm	61	N Solar Rad	41.692+/- 9.028	W/m=2
35	N HA 74'	3.585+/- 2.127	mph	64	S VA 55'	.136+/- .545	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.07+/- 1.28	233.6+/- 23.2	10.1+/- 22.2		
02	17 19 21	2.43+/- 1.25	231.9+/- 34.6	12.1+/- 24.9		
03	38 40 42	1.37+/- .90	215.2+/- 32.0	27.1+/- 23.2		
04	41 43 45	2.59+/- 1.12	186.8+/- 46.7	7.1+/- 23.0		
05	50 52 54	1.86+/- 1.13	236.2+/- 25.1	13.7+/- 21.8		
06	56 58 60	.44+/- .48	222.9+/- 28.9	28.0+/- 22.1		

17:21:32 -- CHECK PRESSURE IN SAMPLE LINE TO NCO-2  
 17:33:21 -- NCO-2 SAMPLE LINE CHECKS OUT AT APPROX. 2 IN. H2O WILL PUT BACK ON LINE  
 Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2866 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	99	58.7	103	54.0	102	57.0	73	59.8	8	50.7
Cat2	156	60.2	189	56.0	201	57.9	150	59.3	135	51.6
Cat3	20	63.3	29	59.7	23	58.7	16	60.7	10	49.7
Cat4	25	65.5	24	64.7	10	58.8	9	61.9	6	51.0
Cat5	8	69.7	14	63.1	4	63.7	2	57.4	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	62.5	76	56.5	101	56.8	82	56.0	35	47.3
Cat2	227	64.7	267	56.4	227	55.9	119	56.3	96	48.3
Cat3	17	64.9	46	58.7	43	57.0	8	58.5	2	47.7
Cat4	11	65.8	25	57.9	27	58.6	3	56.3	2	44.3
Cat5	1	63.6	7	55.1	11	58.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	716	25.0	57.3	1747	61.0	59.0	214	7.5	60.9	142	5.0	61.7	47	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.041+/- 1.024	mph	37	N VA 102'	.220+/- .656	mph
12	N Dasibi CD	3.597+/- .509	ppm	38	S BOT PER	.499+/- .488	mph
13	N TOP PAR	1.868+/- .812	mph	39	N VA 74'	.133+/- .365	mph
14	N Dasibi D3	.017+/- .002	ppm	40	S BOT PAR	.249+/- .382	mph
15	N TOP VER	.212+/- .583	mph	41	N GND PER	1.861+/- 1.159	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.486+/- .259	mph
17	N BOT PER	1.133+/- 1.002	mph	43	N GND PAR	-1.030+/- 1.479	mph
19	N BOT PAR	.857+/- .924	mph	45	N GND VER	.164+/- .722	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzr-1	1.402+/- .246	ppm
21	N BOT VER	.246+/- .576	mph	50	S TOP PER	.487+/- .723	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzr-2	3.400+/- .350	ppm
23	N HA 102'	4.536+/- 1.117	mph	52	S TOP PAR	.839+/- .593	ppm
24	N THC/Byron	2.501+/- .079	ppm	53	N EcoLyzr-3	2.864+/- .960	ppm
25	N WV 102'	219.967+/- 8.830	DEGR AZ	54	S TOP VER	.196+/- .288	ppm
26	N NMHC/Byro	1.908+/- .584	ppm	55	N EcoLyzr-4	4.279+/- .836	ppm
27	N Gnd Temp	56.740+/- 2.810	DEGR F	56	S GND PER	.148+/- .101	ppm
28	N CH4/Byron	1.646+/- .115	ppm	57	N EcoLyzr-5	4.132+/- 1.140	ppm
29	N WV 74'	203.516+/- 13.009	DEGR AZ	58	S GND PAR	.169+/- .127	mph
30	N CO/Byron	2.957+/- .302	ppm	59	N Rel Hum	35.418+/- .357	%
31	N 74' Temp	56.427+/- 2.952	DEGR F	60	S GND VER	.133+/- .085	mph
32	N CD2/Byron	448.438+/- 11.021	ppm	61	N Solar Rad	21.255+/- 4.193	W/m**2
35	N HA 74'	3.232+/- 1.719	mph	64	S VA 55'	.154+/- .315	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.83+/- 1.01	221.4+/- 19.3	5.8+/- 13.0
02	17 19 21	1.86+/- .90	218.3+/- 35.9	12.4+/- 25.6
03	38 40 42	.85+/- .52	210.6+/- 28.3	42.0+/- 21.9
04	41 43 45	2.69+/- 1.17	153.7+/- 36.2	3.6+/- 17.8
05	50 52 54	1.11+/- .83	245.4+/- 22.4	18.3+/- 18.1
06	56 58 60	.30+/- .12	225.1+/- 21.0	30.7+/- 16.4

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 3001 vehicles averaging 56.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	126	58.1	91	53.5	129	56.5	63	58.3	11	52.5
Cat2	155	60.3	183	55.9	202	57.4	190	59.1	146	52.0
Cat3	20	62.3	32	59.3	22	59.4	11	59.6	5	52.3
Cat4	19	65.1	30	61.5	8	58.8	5	60.8	2	49.8
Cat5	7	65.8	7	58.9	1	58.4	1	41.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	63.1	83	54.9	82	54.8	81	53.6	50	45.6
Cat2	233	63.7	296	54.9	236	53.9	122	55.9	109	45.0
Cat3	21	63.5	47	56.6	45	55.3	13	56.8	0	44.8
Cat4	9	66.2	22	53.2	30	54.4	2	56.3	0	0
Cat5	0	0	5	54.4	16	55.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	747	24.9	56.4	1872	62.4	58.2	218	7.3	58.8	127	4.2	57.5	37	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.310+/- .772	mph	37	N VA 102'	.200+/- .775	mph
12	N Dasibi CD	4.207+/- .521	ppm	38	S BOT PER	.479+/- .336	mph
13	N TOP PAR	1.848+/- .753	mph	39	N VA 74'	.226+/- .225	mph
14	N Dasibi D3	.018+/- .002	ppm	40	S BOT PAR	.204+/- .155	mph
15	N TOP VER	.259+/- .427	mph	41	N GND PER	1.834+/- 1.291	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.352+/- .177	mph
17	N BOT PER	.869+/- .775	mph	43	N GND PAR	-1.719+/- 1.243	mph
19	N BOT PAR	.934+/- .809	mph	45	N GND VER	.101+/- .745	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N EcoLyzr-1	1.864+/- .220	ppm
21	N BOT VER	.290+/- .435	mph	50	S TOP PER	.232+/- .306	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzr-2	*****+/-*****	ppm
23	N HA 102'	3.851+/- .753	mph	52	S TOP PAR	1.045+/- .438	ppm
24	N THC/Byron	2.620+/- .113	ppm	53	N EcoLyzr-3	3.301+/- .899	ppm
25	N WV 102'	231.191+/- 7.048	DEGR AZ	54	S TOP VER	.260+/- .189	ppm
26	N NMHC/Byro	1.853+/- .252	ppm	55	N EcoLyzr-4	4.975+/- .904	ppm
27	N Gnd Temp	55.776+/- 2.870	DEGR F	56	S GND PER	.147+/- .055	ppm
28	N CH4/Byron	1.521+/- .067	ppm	57	N EcoLyzr-5	5.156+/- 1.053	ppm
29	N WV 74'	217.942+/- 8.948	DEGR AZ	58	S GND PAR	.133+/- .052	ppm
30	N CO/Byron	2.881+/- .468	ppm	59	N Rel Hum	35.971+/- .326	%
31	N 74' Temp	54.656+/- 4.246	DEGR F	60	S GND VER	.132+/- .058	mph
32	N CD2/Byron	466.618+/- 3.495	ppm	61	N Solar Rad	9.310+/- 3.139	W/m**2
35	N HA 74'	2.361+/- 1.673	mph	64	S VA 55'	.096+/- .127	mph

UVW Vector Calculations



UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.43+/- .80	234.9+/- 13.6	8.3+/- 14.8
02	17 19 21	1.63+/- .71	227.3+/- 35.1	14.9+/- 21.9
03	38 40 42	.70+/- .29	209.6+/- 24.5	34.7+/- 17.9
04	41 43 45	2.46+/- 1.27	162.8+/- 36.1	3.2+/- 21.8
05	50 52 54	1.15+/- .46	258.8+/- 10.0	15.8+/- 12.7
06	56 58 60	.25+/- .06	222.4+/- 14.2	33.1+/- 12.6

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2502 vehicles averaging 57.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	97	57.5	92	54.1	107	55.6	56	58.5	5	49.0
Cat 2	115	58.5	170	55.2	199	57.4	146	59.7	126	50.3
Cat 3	18	60.4	25	61.2	20	57.2	8	62.2	6	51.2
Cat 4	12	64.5	14	61.0	10	59.1	8	58.6	4	51.1
Cat 5	1	57.3	4	62.0	3	59.3	1	73.4	1	43.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	37	65.3	83	57.2	89	56.3	76	55.3	37	48.6
Cat 2	176	67.2	225	57.6	224	57.0	109	56.6	81	46.1
Cat 3	7	65.4	37	59.2	28	57.1	10	58.0	0	.0
Cat 4	9	68.2	26	58.5	14	58.0	4	59.8	0	.0
Cat 5	1	70.7	5	59.3	8	58.7	1	62.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	689	27.5	57.4	1531	61.2	59.0	156	6.2	60.0	101	4.0	60.0	25	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.424+/- .714	ppm	37	N VA 102'	.238+/- .697	mph
12	N Desibi CO	4.100+/- .428	ppm	38	S BOT PER	.652+/- .244	mph
13	N TOP PAR	1.731+/- .485	ppm	39	N VA 74'	.177+/- .230	mph
14	N Desibi O3	.017+/- .002	ppm	40	S BOT PAR	.173+/- .082	mph
15	N TOP VER	.168+/- .446	ppm	41	N GND PER	1.888+/- 1.368	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.370+/- .186	mph
17	N BOT PER	.997+/- .794	ppm	43	N GND PAR	-1.511+/- 1.178	mph
18	N BOT PAR	.847+/- .695	ppm	44	N GND VER	.178+/- .632	mph
19	N NO2/TECO	*****+/-*****	ppm	45	N GND VER	.178+/- .632	mph
20	N BOT VER	.199+/- .438	ppm	46	N EcoLyzer-1	1.969+/- .233	ppm
21	N NO/TECO	*****+/-*****	ppm	47	S TOP PER	.175+/- .174	ppm
22	N HA 102'	4.884+/- .724	ppm	48	N EcoLyzer-2	*****+/-*****	ppm
23	N THC/Byron	3.017+/- .166	ppm	49	S TOP PAR	.551+/- .372	ppm
24	N WV 102'	223.082+/- 5.231	DEGR AZ	50	N EcoLyzer-3	3.487+/- .868	ppm
25	N NMHC/Byro	2.472+/- .617	ppm	51	S TOP VER	.205+/- .132	ppm
26	N Gnd Temp	54.499+/- 2.401	DEGR F	52	N EcoLyzer-4	4.991+/- .648	ppm
27	N CH4/Byron	1.527+/- .085	ppm	53	S GND PER	.145+/- .055	ppm
28	N WV 74'	209.472+/- 9.911	DEGR AZ	54	N EcoLyzer-5	5.306+/- .826	ppm
29	N CO/Byron	3.571+/- .262	ppm	55	S GND PAR	.125+/- .048	ppm
30	N 74' Temp	53.639+/- 3.289	DEGR F	56	N Rel Hum	36.558+/- .385	%
31	N CO2/Byron	481.273+/- 8.303	ppm	57	S GND VER	.135+/- .057	mph
32	N HA 74'	2.846+/- 1.630	ppm	58	N Solar Rad	4.224+/- 2.277	W/m^2
33				59	S VA 55'	.132+/- .096	mph
34				60			
35				61			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.37+/- .62	232.1+/- 15.3	4.7+/- 12.6
02	17 19 21	1.59+/- .73	223.0+/- 33.7	9.5+/- 20.5
03	38 40 42	.80+/- .22	197.2+/- 13.8	29.6+/- 16.1
04	41 43 45	2.88+/- 1.25	139.4+/- 29.2	3.2+/- 17.4
05	50 52 54	.65+/- .37	247.5+/- 18.4	23.7+/- 15.9
06	56 58 60	.25+/- .05	221.4+/- 15.0	34.0+/- 13.6

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2414 vehicles averaging 57.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	100	58.0	98	53.7	91	56.5	39	59.1	7	54.6
Cat 2	112	60.0	186	55.4	173	57.2	132	59.1	90	51.7
Cat 3	13	63.3	27	58.5	17	57.1	9	57.3	5	48.3
Cat 4	7	65.2	16	60.2	10	53.8	7	59.3	1	56.4
Cat 5	5	64.7	5	64.7	0	.0	2	62.1	1	45.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	29	63.6	72	56.5	114	55.7	63	55.9	37	45.3
Cat 2	201	64.5	228	57.1	214	58.1	70	56.6	84	46.4
Cat 3	17	63.3	30	57.1	27	55.8	14	54.6	1	37.7
Cat 4	12	68.4	20	59.0	20	61.2	0	.0	0	.0
Cat 5	1	65.1	3	58.6	6	58.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	548	25.8	57.2	1480	61.7	57.9	180	6.6	60.8	93	3.9	61.2	23	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.012+/- .627	ppm	37	N VA 102'	.270+/- .733	mph
12	N Desibi CO	4.580+/- .452	ppm	38	S BOT PER	.634+/- .247	mph
13	N TOP PAR	1.453+/- .557	ppm	39	N VA 74'	.188+/- .220	mph
14	N Desibi O3	.018+/- .002	ppm	40	S BOT PAR	.158+/- .087	mph
15	N TOP VER	.205+/- .464	ppm	41	N GND PER	1.711+/- 1.326	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.417+/- .180	mph
17	N BOT PER	.858+/- .722	ppm	43	N GND PAR	-1.327+/- 1.319	mph
18	N BOT PAR	.824+/- .624	ppm	44	N GND VER	.194+/- .640	mph
19	N NO2/TECO	*****+/-*****	ppm	45	N EcoLyzer-1	2.821+/- .331	ppm
20	N BOT VER	.323+/- .452	ppm	46	S TOP PER	1.133+/- .053	ppm
21	N NO/TECO	*****+/-*****	ppm	47	N EcoLyzer-2	5.210+/- 1.245	ppm
22	N HA 102'	4.270+/- .621	ppm	48	S TOP PAR	.215+/- .186	ppm
23	N THC/Byron	3.218+/- .181	ppm	49	N EcoLyzer-3	4.288+/- 1.032	ppm
24	N WV 102'	224.706+/- 3.582	DEGR AZ	50	S TOP VER	.254+/- .206	ppm
25	N NMHC/Byro	2.687+/- .094	ppm	51	N EcoLyzer-4	5.820+/- 1.006	ppm
26	N Gnd Temp	54.291+/- 3.083	DEGR F	52	S GND PER	.144+/- .054	ppm
27	N CH4/Byron	1.567+/- .088	ppm	53	N EcoLyzer-5	5.746+/- .831	ppm
28				54			
29				55			
30				56			
31				57			

29	N WV 74'	214.102+/-	5.545	DEGR AZ	58	S GND PAR	.129+/-	.052	mph
30	N CD/Byron	4.192+/-	.268	ppm	59	N Rel Hum	37.828+/-	2.010	%
31	N 74' Temp	54.856+/-	2.844	DEGR F	60	S GND VER	.128+/-	.055	mph
32	N CO2/Byron	466.899+/-	6.671	ppm	61	N Solar Rad	4.405+/-	2.831	W/m**2
35	N HA 74'	2.129+/-	1.453	mph	64	S VA 55'	.133+/-	.057	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.93+/-	.62	236.0+/-	17.8	8.2+/-	18.5
02	17	19	21	1.40+/-	.62	218.9+/-	35.2	16.1+/-	24.3
03	38	40	42	.82+/-	.24	197.8+/-	15.5	34.4+/-	17.8
04	41	43	45	2.64+/-	1.29	143.9+/-	35.3	3.9+/-	19.5
05	50	52	54	.40+/-	.21	234.6+/-	21.1	42.8+/-	21.3
06	56	58	60	.24+/-	.05	222.3+/-	16.4	32.5+/-	13.6

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10783 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	422	58.1	382	53.8	429	56.4	231	59.0	31	51.9
Cat2	538	60.1	708	55.6	735	57.5	618	59.3	497	51.4
Cat3	69	62.3	113	59.6	82	58.2	42	59.9	26	50.5
Cat4	63	55.2	84	62.1	38	57.5	29	60.2	13	51.1
Cat5	21	66.7	30	62.2	8	61.4	6	58.9	2	44.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	134	63.6	324	56.3	386	55.8	302	55.2	159	46.1
Cat2	837	64.9	1016	56.4	901	55.7	420	56.1	370	46.4
Cat3	62	64.1	180	57.9	144	56.5	45	56.7	5	44.5
Cat4	41	66.7	93	57.2	91	57.7	9	57.8	2	44.3
Cat5	3	66.5	20	56.7	41	57.1	1	62.6	0	0

Vehicle Classification Summary

Spd.	CAT 1		%	Spd.	CAT 2		%	Spd.	CAT 3		%	Spd.	CAT 4		%	Spd.	CAT 5		%
	Total	Total			Total	Total			Total	Total			Total	Total					
56.0	2800	26.0		57.0	6640	61.6		58.5	748	6.9		60.1	463	4.3		60.1	132	1.2	

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.447+/- .880	mph	37	N VA 102'	.232+/- .766	mph
12	N Dasibi CD	4.121+/- .594	ppm	38	S BDT PER	.566+/- .359	mph
13	N TDP PAR	1.675+/- .679	mph	39	N VA 74'	.181+/- .289	mph
14	N Dasibi D3	.018+/- .002	ppm	40	S BDT PAR	.186+/- .218	mph
15	N TDP VER	.211+/- .484	mph	41	N GND PER	1.818+/- 1.287	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.406+/- .209	mph
17	N BDT PER	.964+/- .836	mph	43	N GND PAR	-1.172+/- 1.348	mph
19	N BDT PAR	.816+/- .778	mph	45	N GND VER	.159+/- .686	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.961+/- .508	ppm
21	N BDT VER	.265+/- .480	mph	50	S TDP PER	.252+/- .427	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	4.299+/- .813	ppm
23	N HA 102'	4.411+/- .921	mph	52	S TOP PAR	.583+/- .526	ppm
24	N THC/Byron	2.839+/- .323	ppm	53	N Ecolyzer-3	3.485+/- 1.073	ppm
25	N WV 102'	224.738+/- 7.532	DEGR AZ	54	S TOP VER	.229+/- .212	mph
26	N NMHC/Byro	2.230+/- .560	ppm	55	N Ecolyzer-4	5.016+/- 1.038	ppm
27	N Gnd Temp	55.326+/- 2.903	DEGR F	56	S GND PER	.146+/- .069	mph
28	N CH4/Byron	1.565+/- .088	ppm	57	N Ecolyzer-5	5.085+/- 1.138	ppm
29	N WV 74'	211.294+/- 11.052	DEGR AZ	58	S GND PAR	.139+/- .079	mph
30	N CD/Byron	3.400+/- .626	ppm	59	N Rel Hum	36.444+/- 1.363	%
31	N 74' Temp	54.844+/- 3.463	DEGR F	60	S GND VER	.132+/- .065	mph
32	N CO2/Byron	466.007+/- 13.705	ppm	61	N Solar Rad	9.799+/- 7.640	W/m**2
35	N HA 74'	2.592+/- 1.670	mph	64	S VA 55'	.129+/- .180	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.39+/-	.84	231.1+/-	18.9	6.8+/-	15.0
02	17	19	21	1.62+/-	.76	221.9+/-	35.0	13.2+/-	23.3
03	38	40	42	.79+/-	.34	203.5+/-	22.3	35.2+/-	19.0
04	41	43	45	2.66+/-	1.25	149.6+/-	35.1	3.5+/-	19.2
05	50	52	54	.83+/-	.61	246.8+/-	20.3	25.1+/-	20.2
06	56	58	60	.26+/-	.08	222.8+/-	16.9	32.6+/-	14.1

18:25:43 -- WERE GOING TO STOP DATA COLLECTIONS, BUT HIGH CO LEVELS ARE PRESENT. WILL CONTINU  
 18:25:44 -- E  
 18:28:44 -- CO2 LEVELS ARE RIGHT AT FULL SCALE AS INDICATED BY WARNINGS  
 18:31:58 -- THE RANGE HAS DRIFTED DOWN ON THE THE LANE CORR. CH 8 RADAR. CANNOT ADJUST  
 18:32:04 -- AT THIS TIME  
 18:32:18 -- BEGIN RECAL. NCO-2  
 18:43:51 -- END CAL. NCO-2 GRD  
 18:45:45 -- BEGIN CAL. NCO-5  
 18:55:53 -- END CAL. NCO-5  
 18:56:03 -- BEGIN CAL. NCO-4

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2142 vehicles averaging 56.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	57.5	88	53.1	108	56.0	29	59.8	7	50.2
Cat2	85	59.4	136	54.6	144	57.2	117	58.9	83	48.9
Cat3	21	62.4	24	56.6	14	58.3	11	54.6	6	53.4
Cat4	10	63.2	16	61.9	9	56.2	2	56.0	2	50.4
Cat5	6	63.8	4	60.3	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	62.6	87	55.2	78	55.7	60	54.2	25	47.7
Cat2	170	65.2	203	56.8	185	55.6	93	55.8	89	45.8
Cat3	9	67.5	30	57.3	27	56.7	5	59.4	1	41.7
Cat4	5	68.0	12	60.4	21	57.7	2	53.4	1	46.2
Cat5	3	65.4	4	57.7	2	61.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.7	600	28.0	56.8	1295	60.5	58.1	148	6.9	59.7	80	3.7	61.8	19	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.569+/- .565	mph	37	N VA 102'	.244+/- .736	mph
12	N Dasibi CO	5.154+/- .559	ppm	38	S BOT PER	.771+/- .193	mph
13	N TDP PAR	.937+/- .617	mph	39	N VA 74'	.208+/- .229	mph
14	N Dasibi O3	.019+/- .002	ppm	40	S BOT PAR	.180+/- .101	mph
15	N TDP VER	.411+/- .498	mph	41	N GND PER	1.648+/- 1.302	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.387+/- .218	mph
17	N BOT PER	.754+/- .494	mph	43	N GND PAR	-.767+/- 1.078	mph
18	N BOT PAR	.396+/- .578	mph	45	N GND VER	.195+/- .571	ppm
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	3.483+/- .589	ppm
21	N BOT VER	.481+/- .511	mph	50	S TDP PER	.107+/- .054	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	6.045+/- .314	ppm
23	N HA 102'	3.511+/- .667	mph	52	S TDP PAR	.120+/- .056	mph
24	N THC/Byron	3.348+/- .200	ppm	53	N EcoLyzer-3	5.510+/- 1.327	ppm
25	N WY 102'	229.116+/- 5.122	DEGR AZ	54	S TDP VER	.150+/- .270	mph
26	N NMHC/Byro	2.731+/- .188	ppm	55	N EcoLyzer-4	6.933+/- 1.035	ppm
27	N Gnd Temp	52.519+/- 2.657	DEGR F	56	S GND PER	.150+/- .055	mph
28	N CH4/Byron	1.640+/- .066	ppm	57	N EcoLyzer-5	6.394+/- .864	ppm
29	N WY 74'	217.538+/- 8.033	DEGR AZ	58	S GND PAR	.129+/- .055	mph
30	N CO/Byron	4.302+/- .345	ppm	59	N Rel Hum	38.267+/- .287	%
31	N 74' Temp	53.068+/- 3.269	DEGR F	60	S GND VER	.137+/- .056	mph
32	N CO2/Byron	493.161+/- 12.109	ppm	61	N Solar Rad	3.542+/- 2.095	W/m**2
35	N HA 74'	1.342+/- 1.734	mph	64	S VA 55'	.132+/- .055	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.41+/- .57	237.9+/- 32.6	20.8+/- 24.0
02	17 19 21	1.22+/- .51	208.1+/- 36.1	23.1+/- 24.9
03	38 40 42	.91+/- .20	193.8+/- 8.6	25.5+/- 13.7
04	41 43 45	2.24+/- 1.22	155.0+/- 34.9	5.9+/- 21.1
05	50 52 54	.43+/- .25	228.1+/- 20.1	59.1+/- 16.4
06	56 58 60	.25+/- .06	220.5+/- 15.6	33.8+/- 13.0

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 2158 vehicles averaging 56.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	57.2	95	52.5	114	55.3	48	58.0	6	50.6
Cat2	103	58.2	153	54.9	146	56.4	124	58.3	101	50.7
Cat3	13	60.8	26	57.9	14	56.7	8	57.3	4	50.8
Cat4	7	65.0	13	61.4	3	56.4	1	57.5	2	47.9
Cat5	2	61.5	7	62.1	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	62.5	72	54.8	81	56.2	50	54.2	29	44.9
Cat2	187	63.8	215	56.7	189	56.0	79	55.1	50	43.3
Cat3	15	66.2	18	57.1	20	56.8	6	57.6	2	43.9
Cat4	7	70.3	16	56.1	9	57.8	1	58.7	0	0
Cat5	0	0	3	60.7	2	58.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	614	28.5	56.7	1347	62.4	58.1	124	5.7	60.1	59	2.7	61.2	14	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.820+/- .650	mph	37	N VA 102'	.208+/- .764	mph
12	N Dasibi CO	5.795+/- .436	ppm	38	S BOT PER	.709+/- .171	mph
13	N TDP PAR	.908+/- .668	mph	39	N VA 74'	.225+/- .251	mph
14	N Dasibi O3	.021+/- .002	ppm	40	S BOT PAR	.180+/- .096	mph
15	N TDP VER	.380+/- .493	mph	41	N GND PER	1.493+/- 1.216	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.255+/- .184	mph
17	N BOT PER	.722+/- .489	mph	43	N GND PAR	-1.050+/- 1.045	mph
18	N BOT PAR	.264+/- .533	mph	45	N GND VER	.303+/- .600	ppm
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	3.678+/- .638	ppm
21	N BOT VER	.552+/- .505	mph	50	S TDP PER	.118+/- .052	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	6.966+/- .305	ppm
23	N HA 102'	3.639+/- .630	mph	52	S TDP PAR	.127+/- .049	mph
24	N THC/Byron	3.903+/- .279	ppm	53	N EcoLyzer-3	6.522+/- 1.053	ppm
25	N WY 102'	223.288+/- 1.767	DEGR AZ	54	S TDP VER	.205+/- .163	mph
26	N NMHC/Byro	3.043+/- .491	ppm	55	N EcoLyzer-4	8.040+/- .764	ppm
27	N Gnd Temp	52.441+/- 2.875	DEGR F	56	S GND PER	.151+/- .090	mph
28	N CH4/Byron	1.741+/- .065	ppm	57	N EcoLyzer-5	7.370+/- .618	ppm

29	N WV 74'	214.270+/-	5.834	DEGR AZ	58	S GND PAR	.118+/-	.046	mph
30	N CO/Byron	4.988+/-	.114	ppm	59	N Rel Hum	39.570+/-	.554	%
31	N 74' Temp	52.675+/-	3.800	DEGR F	60	S GND VER	.135+/-	.053	mph
32	N CO2/Byron	496.092+/-	10.386	ppm	61	N Solar Rad	3.642+/-	1.842	W/m==2
35	N HA 74'	1.548+/-	1.556	mph	84	S VA 55'	.139+/-	.060	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.54+/-	.62	227.2+/-	33.2	18.3+/-	24.9
02	17	19	21	1.20+/-	.50	200.4+/-	38.0	29.6+/-	23.3
03	38	40	42	.80+/-	.17	194.9+/-	8.5	19.0+/-	13.5
04	41	43	45	2.27+/-	1.08	143.9+/-	36.5	11.0+/-	19.7
05	50	52	54	.29+/-	.14	227.6+/-	16.2	43.4+/-	18.8
06	56	58	60	.25+/-	.08	220.1+/-	16.7	34.7+/-	12.8

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic : 1959 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	68	57.0	102	53.7	113	56.2	34	57.9	10	50.9
Cat 2	115	58.9	146	55.0	134	57.3	114	58.6	85	50.7
Cat 3	7	61.2	27	61.1	13	57.2	0	0	2	53.6
Cat 4	5	62.5	11	61.2	4	52.0	3	58.2	0	0
Cat 5	2	66.9	1	66.0	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	43	64.1	86	57.1	86	57.7	65	54.8	22	44.3
Cat 2	185	64.5	148	57.9	148	57.7	68	56.5	48	45.7
Cat 3	8	63.8	25	58.4	18	57.9	9	54.3	1	40.8
Cat 4	3	67.6	4	60.2	10	61.0	1	44.7	0	0
Cat 5	0	0	2	64.1	3	57.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	619	31.4	57.6	1191	60.5	58.8	110	5.6	60.2	41	2.1	62.5	8	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.439+/-	.470	37	N VA 102'	.283+/-	.792
12	N Dasibi CO	6.019+/-	.480	38	S BDT PER	.867+/-	.146
13	N TDP PAR	.429+/-	.538	39	N VA 74'	.187+/-	.246
14	N Dasibi O3	.019+/-	.001	40	S BDT PAR	.198+/-	.104
15	N TDP VER	.279+/-	.490	41	N GND PER	1.520+/-	1.109
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.220+/-	.202
17	N BDT PER	.670+/-	.472	43	N GND PAR	-1.758+/-	1.186
18	N BDT PAR	.026+/-	.583	44	N GND VER	.176+/-	.519
20	N NO2/TECO	*****+/-*****		45	N Ecolyzer-1	3.787+/-	.309
21	N BDT VER	.364+/-	.370	50	S TDP PER	.114+/-	.048
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	3.751+/-	.572	52	S TDP PAR	.121+/-	.055
24	N THC/Byron	4.384+/-	.100	53	N Ecolyzer-3	6.435+/-	1.276
25	N WV 102'	209.352+/-	10.414	54	S TDP VER	.176+/-	.070
26	N NMHC/Byro	3.975+/-	.174	55	N Ecolyzer-4	8.014+/-	.883
27	N Gnd Temp	51.347+/-	2.896	56	N GND PER	.146+/-	.052
28	N CH4/Byron	2.145+/-	.153	57	N Ecolyzer-5	7.656+/-	.733
29	N WV 74'	200.227+/-	11.883	58	S GND PAR	.127+/-	.048
30	N CO/Byron	6.172+/-	.491	59	N Rel Hum	41.280+/-	.606
31	N 74' Temp	52.754+/-	2.243	60	S GND VER	.134+/-	.055
32	N CO2/Byron	516.935+/-	8.106	61	N Solar Rad	2.725+/-	2.402
35	N HA 74'	1.768+/-	1.477	84	S VA 55'	.131+/-	.056

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.00+/-	.45	225.9+/-	42.0	18.7+/-	33.9
02	17	19	21	1.01+/-	.50	180.5+/-	39.4	23.4+/-	21.2
03	38	40	42	.94+/-	.15	192.9+/-	6.5	13.6+/-	12.2
04	41	43	45	2.59+/-	1.26	132.0+/-	23.3	3.8+/-	16.5
05	50	52	54	.26+/-	.06	225.9+/-	18.6	44.3+/-	14.7
06	56	58	60	.25+/-	.05	221.5+/-	15.2	33.9+/-	12.8

Average for 15 minute period ending at 19:00:00  
 Traffic Data  
 Total Traffic : 1911 vehicles averaging 57.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	81	56.1	97	52.8	128	56.1	30	56.9	4	47.0
Cat 2	88	58.3	127	54.5	130	56.7	86	57.9	83	50.2
Cat 3	12	60.4	33	58.3	13	55.3	5	57.9	2	46.6
Cat 4	9	62.7	9	56.2	3	58.0	6	62.1	2	50.2
Cat 5	3	66.1	6	63.3	0	0	1	63.6	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	49	62.8	94	56.7	84	57.5	52	55.8	15	45.4
Cat 2	198	64.7	159	58.5	122	58.8	53	57.4	45	45.1
Cat 3	10	65.6	18	60.6	11	57.9	1	59.0	3	41.5
Cat 4	6	66.3	11	60.5	16	60.7	2	56.3	0	0
Cat 5	1	70.9	2	61.3	3	65.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	634	33.2	57.7	1089	57.0	58.5	108	5.7	60.7	84	3.3	64.5	16	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.622+/-	.558	37	N VA 102'	.170+/-	1.536
12	N Dasibi CO	6.052+/-	.512	38	S BDT PER	.754+/-	.271
13	N TDP PAR	.567+/-	.555	39	N VA 74'	.202+/-	.387
14	N Dasibi O3	.020+/-	.002	40	S BDT PAR	.184+/-	.140
15	N TDP VER	.296+/-	.433	41	N GND PER	1.629+/-	1.441
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.165+/-	.191
17	N BDT PER	.661+/-	.525	43	N GND PAR	-1.755+/-	1.270
18	N BDT PAR	.155+/-	.508	45	N GND VER	.218+/-	.564
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	4.180+/-	.350

21	N BDT VER	.288+/-	.308	mph	50	S TDP PER	.109+/-	.055	mph
22	N ND/TECD	*****+/-*****		ppm	51	N EcoLyzer-2	7.385+/-	.179	ppm
23	N HA 102'	3.395+/-	.910	mph	52	S TDP PAR	.109+/-	.076	mph
24	N THC/Byron	4.494+/-	.270	ppm	53	N EcoLyzer-3	5.885+/-	1.200	ppm
25	N WV 102'	193.142+/-	4.847	DEGR AZ	54	S TDP VER	.182+/-	.089	mph
26	N NMHC/Byro	4.038+/-	.097	ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	51.347+/-	3.881	DEGR F	56	S GND PER	.150+/-	.108	mph
28	N CH4/Byron	2.071+/-	.077	ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	184.575+/-	7.354	DEGR AZ	58	S GND PAR	.121+/-	.059	mph
30	N CO/Byron	6.045+/-	.198	ppm	59	N Rel Hum	42.648+/-	.696	%
31	N 74' Temp	51.581+/-	2.946	DEGR F	60	S GND VER	.141+/-	.069	mph
32	N CO2/Byron	526.524+/-	6.862	ppm	61	N Solar Rad	18.121+/-	11.357	W/m**2
35	N HA 74'	1.600+/-	3.261	mph	64	S VA 55'	.131+/-	.071	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.15+/-	.53	222.8+/-	38.2	19.2+/-	27.3
02	17	19	21	.98+/-	.46	199.2+/-	42.0	21.0+/-	22.5
03	38	40	42	.83+/-	.28	195.6+/-	14.1	12.2+/-	14.5
04	41	43	45	2.88+/-	1.21	132.4+/-	35.8	4.8+/-	18.8
05	50	52	54	.27+/-	.08	223.0+/-	25.1	42.3+/-	19.8
06	56	58	60	.26+/-	.10	220.8+/-	19.8	34.5+/-	16.2

Average for hourly period ending at 19:00:00  
Traffic Data  
 Total Traffic = 8180 vehicles averaging 56.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	302	57.0	362	53.1	463	55.9	141	58.1	27	50.1
Cat2	391	59.0	562	54.8	554	56.9	441	58.5	352	50.4
Cat3	53	61.4	110	58.5	54	56.9	24	56.2	14	51.7
Cat4	31	63.3	49	60.9	19	55.6	12	59.7	6	48.5
Cat5	13	64.5	18	62.3	0	.0	1	63.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	176	63.0	339	56.0	329	56.8	217	54.8	91	45.6
Cat2	738	64.6	725	57.3	654	56.8	293	56.0	212	45.0
Cat3	42	65.5	89	58.2	78	57.1	21	56.7	7	42.1
Cat4	21	68.2	43	58.8	56	59.2	6	53.8	1	48.2
Cat5	4	66.8	11	60.3	10	60.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	2467	30.2	57.1	4822	60.2	58.4	480	6.0	60.1	244	3.0	62.5	57	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.613+/-	.582	37	N VA 102'	.225+/-	1.013
12	N Desibi CO	5.765+/-	.615	38	S BDT PER	.775+/-	.209
13	N TOP PAR	.710+/-	.634	39	N VA 74'	.205+/-	.285
14	N Desibi O3	.020+/-	.002	40	S BDT PAR	.185+/-	.111
15	N TOP VER	.341+/-	.481	41	N GND PER	1.573+/-	1.272
16	N NDX/TECD	*****+/-*****		42	S BDT VER	.257+/-	.215
17	N BDT PER	.702+/-	.498	43	N GND PAR	-1.335+/-	1.222
19	N BDT PAR	.197+/-	.571	45	N GND VER	.223+/-	.565
20	N ND2/TECD	*****+/-*****		48	N EcoLyzer-1	3.781+/-	.504
21	N BDT VER	.411+/-	.443	50	S TDP PER	.112+/-	.055
22	N ND/TECD	*****+/-*****		51	N EcoLyzer-2	6.839+/-	.618
23	N HA 102'	3.574+/-	.718	52	S TDP PAR	.119+/-	.060
24	N THC/Byron	4.032+/-	.507	53	N EcoLyzer-3	6.088+/-	1.285
25	N WV 102'	213.794+/-	15.020	54	S TDP VER	.236+/-	.168
26	N NMHC/Byro	3.887+/-	.638	55	N EcoLyzer-4	7.658+/-	.899
27	N Gnd Temp	51.813+/-	3.087	56	S GND PER	.149+/-	.080
28	N CH4/Byron	1.899+/-	.235	58	N EcoLyzer-5	7.187+/-	.960
29	N WV 74'	204.222+/-	15.383	58	S GND PAR	.124+/-	.052
30	N CO/Byron	5.372+/-	.841	58	N Rel Hum	40.441+/-	1.782
31	N 74' Temp	52.519+/-	3.088	60	S GND VER	.137+/-	.058
32	N CO2/Byron	508.203+/-	16.961	61	N Solar Rad	6.983+/-	8.720
35	N HA 74'	1.565+/-	2.157	64	S VA 55'	.133+/-	.061

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.28+/-	.58	228.7+/-	37.1	19.2+/-	27.8
02	17	19	21	1.10+/-	.50	197.3+/-	38.6	24.3+/-	23.2
03	38	40	42	.87+/-	.21	194.3+/-	9.9	17.6+/-	14.4
04	41	43	45	2.50+/-	1.22	140.5+/-	34.1	6.3+/-	19.3
05	50	52	54	.31+/-	.17	226.2+/-	20.3	47.3+/-	18.7
06	56	58	60	.25+/-	.08	220.7+/-	16.9	34.2+/-	13.7

19:11:06 -- END CAL. NCO-FEND CAL. NCO-4  
 19:20:41 -- BEGIN CAL. NCO-3 GRD  
 19:30:47 -- END CALIBRATION NCO-3  
 19:30:57 -- BEGIN CAL. NCO-1 GRD  
 19:45:30 -- END CAL. NCO-1 GRD  
 19:46:27 -- CO2 LEVELS CONTINUE TO BE QUITE HIGH.

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1772 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	57.0	113	53.9	102	55.5	35	58.9	6	49.7
Cat2	68	58.6	108	55.5	111	56.5	94	58.7	67	49.9
Cat3	2	60.7	26	59.9	10	56.7	2	59.6	2	52.5
Cat4	5	66.5	13	61.6	3	57.4	0	.0	0	.0
Cat5	2	70.1	2	72.5	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	64.5	73	57.5	91	58.6	61	56.2	15	46.6
Cat2	210	65.5	145	59.8	109	58.1	85	57.2	29	47.1
Cat3	7	62.7	14	58.9	18	59.9	6	58.2	0	.0
Cat4	4	65.2	12	61.6	4	61.4	1	63.6	0	.0
Cat5	3	67.2	3	58.5	1	67.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	626	35.3	58.6	1006	56.8	59.3	87	4.9	62.3	42	2.4	66.3	11	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.213+/-	.701	37	N VA 102'	.165+/-	1.462
12	N Dasibi CO	6.274+/-	.260	38	S BOT PER	.607+/-	.283
13	N TOP PAR	.663+/-	.513	39	N VA 74'	.281+/-	.391
14	N Dasibi O3	.022+/-	.002	40	S BOT PAR	.182+/-	.148
15	N TOP VER	.251+/-	.462	41	N GND PER	1.548+/-	1.407
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.166+/-	.204
17	N BOT PER	.733+/-	.592	43	N GND PAR	-1.530+/-	1.187
19	N BOT PAR	.020+/-	.522	45	N GND VER	.203+/-	.619
20	N NO2/TECO	*****+/-*****		48	N Ecolyzer-1	4.542+/-	.454
21	N BOT VER	.249+/-	.366	50	S TOP PER	.118+/-	.071
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	7.817+/-	.160
23	N HA 102'	3.926+/-	1.116	52	S TOP PAR	.131+/-	.082
24	N THC/Byron	4.915+/-	.178	53	N Ecolyzer-3	6.135+/-	1.196
25	N WV 102'	187.417+/-	4.302	54	S TOP VER	.182+/-	.110
26	N NMHC/Byro	4.193+/-	.214	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	50.148+/-	3.164	56	S GND PER	.143+/-	.067
28	N CH4/Byron	2.210+/-	.111	57	N Ecolyzer-5	8.211+/-	.839
29	N WV 74'	180.974+/-	6.560	58	S GND PAR	.122+/-	.066
30	N CO/Byron	5.818+/-	.434	59	N Rel Hum	44.341+/-	.936
31	N 74' Temp	51.503+/-	5.031	60	S GND VER	.145+/-	.071
32	N CO2/Byron	540.791+/-	4.910	61	N Solar Rad	15.487+/-	9.102
35	N HA 74'	2.577+/-	3.430	64	S VA 55'	.159+/-	.095

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.58+/- .67	209.1+/- 26.3	10.9+/- 21.2
02	17 19 21	1.03+/- .55	183.3+/- 40.8	15.4+/- 23.1
03	38 40 42	.72+/- .24	199.2+/- 21.6	14.6+/- 18.2
04	41 43 45	2.62+/- 1.29	136.4+/- 33.6	5.9+/- 20.3
05	50 52 54	.29+/- .09	227.5+/- 23.9	40.4+/- 21.4
06	56 58 60	.26+/- .06	221.2+/- 21.4	35.6+/- 16.5

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1777 vehicles averaging 57.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	56.8	123	52.7	108	55.5	47	58.9	11	51.2
Cat2	68	58.5	126	55.3	112	57.1	82	58.3	75	49.6
Cat3	10	58.7	19	59.4	4	55.5	2	61.6	1	39.4
Cat4	6	63.5	4	59.4	4	54.9	2	64.9	1	53.8
Cat5	0	.0	1	59.9	0	.0	1	61.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	63.1	94	56.9	89	58.4	52	56.6	26	44.3
Cat2	200	64.9	139	58.6	89	58.9	54	57.8	35	47.8
Cat3	5	66.2	16	57.9	18	61.7	1	59.0	0	.0
Cat4	4	64.5	11	62.2	8	62.6	2	63.5	0	.0
Cat5	2	63.6	1	64.1	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	674	37.9	58.2	980	55.1	59.6	76	4.3	61.7	42	2.4	62.5	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.392+/-	1.405	37	N VA 102'	.362+/-	1.558
12	N Dasibi CO	7.396+/-	.756	38	S BOT PER	1.057+/-	.576
13	N TOP PAR	.051+/-	.780	39	N VA 74'	.203+/-	.445
14	N Dasibi O3	.022+/-	.002	40	S BOT PAR	.094+/-	.295
15	N TOP VER	.320+/-	.599	41	N GND PER	1.643+/-	1.242
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.200+/-	.218
17	N BOT PER	.840+/-	.942	43	N GND PAR	-1.459+/-	1.271
19	N BOT PAR	.268+/-	.645	45	N GND VER	.221+/-	.546
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	5.066+/-	.484
21	N BOT VER	.307+/-	.410	50	S TOP PER	1.039+/-	.822
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	8.408+/-	.222
23	N HA 102'	5.454+/-	1.900	52	S TOP PAR	.003+/-	.373
24	N THC/Byron	5.053+/-	.270	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	175.649+/-	9.379	54	S TOP VER	.206+/-	.138
26	N NMHC/Byro	4.343+/-	.292	55	N Ecolyzer-4	9.628+/-	1.384
27	N Gnd Temp	49.549+/-	2.906	56	S GND PER	.268+/-	.329
28	N CH4/Byron	2.421+/-	.172	57	N Ecolyzer-5	9.406+/-	1.045
29	N WV 74'	184.728+/-	13.592	58	S GND PAR	.065+/-	.175
30	N CO/Byron	6.795+/-	.910	59	N Rel Hum	46.589+/-	1.254
31	N 74' Temp	50.487+/-	4.273	60	S GND VER	.141+/-	.073
32	N CO2/Byron	543.722+/-	5.967	61	N Solar Rad	12.126+/-	7.777

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	2.67+/- 1.27	184.3+/- 23.3	11.7+/- 20.6
02	17	19	21	1.30+/- .81	157.9+/- 45.7	18.4+/- 25.5
03	38	40	42	1.15+/- .55	190.7+/- 20.3	12.6+/- 15.7
04	41	43	45	2.58+/- 1.30	138.8+/- 32.9	6.5+/- 18.4
05	50	52	54	1.16+/- .78	193.7+/- 32.6	19.4+/- 20.7
06	56	58	60	.38+/- .31	211.8+/- 29.5	29.4+/- 18.2

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1664 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	57.8	104	53.4	110	55.5	39	58.4	4	51.9
Cat2	66	60.2	98	55.5	108	56.9	83	58.4	71	49.3
Cat3	11	60.5	24	59.9	7	55.1	5	61.4	3	48.4
Cat4	4	65.3	5	63.3	3	57.2	2	56.0	0	.0
Cat5	0	.0	2	61.3	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	63.7	71	57.1	76	58.8	54	56.6	17	50.1
Cat2	211	65.6	148	59.8	108	58.7	39	58.1	27	48.2
Cat3	7	65.1	11	58.5	10	60.0	5	59.5	1	50.3
Cat4	2	65.1	6	58.6	10	60.9	1	63.1	0	.0
Cat5	1	75.2	2	63.7	1	59.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	582	35.0	58.9	959	57.6	59.5	84	5.0	61.3	33	2.0	64.1	6	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.969+/- 1.022	mph	37	N VA 102'	.333+/- 1.584	mph
12	N Dasibi CO	6.018+/- .785	ppm	38	S BOT PER	.890+/- .571	mph
13	N TDP PAR	.362+/- .802	mph	39	N VA 74'	.052+/- .571	mph
14	N Dasibi O3	.017+/- .003	ppm	40	S BOT PAR	.200+/- .232	mph
15	N TDP VER	.142+/- .625	mph	41	N GND PER	1.134+/- 1.331	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.430+/- .352	mph
17	N BOT PER	.831+/- .948	mph	43	N GND PAR	.936+/- 1.185	mph
19	N BOT PAR	-.125+/- .641	mph	45	N GND VER	.224+/- .555	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.183+/- .500	mph	50	S TOP PER	1.578+/- .813	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	8.554+/- .158	ppm
23	N HA 102'	6.149+/- 1.178	mph	52	S TOP PAR	.338+/- .368	mph
24	N THC/Byron	5.527+/- .101	ppm	53	N EcoLyzer-3	5.628+/- 1.144	ppm
25	N WV 102'	180.537+/- 7.268	DEGR AZ	54	S TOP VER	.142+/- .217	mph
26	N NMHC/Byro	4.410+/- .148	ppm	55	N EcoLyzer-4	7.645+/- 1.363	ppm
27	N Gnd Temp	50.930+/- 4.849	DEGR F	56	S GND PER	.152+/- .069	mph
28	N CH4/Byron	2.863+/- .152	ppm	57	N EcoLyzer-5	7.573+/- 1.392	ppm
29	N WV 74'	168.388+/- 10.834	DEGR AZ	58	S GND PAR	.122+/- .059	mph
30	N LD/Byron	7.268+/- .762	ppm	59	N Rel HUM	56.603+/- 5.311	%
31	N 74' Temp	48.012+/- 4.753	DEGR F	60	S GND VER	.137+/- .089	mph
32	N CO2/Byron	549.910+/- 5.144	ppm	61	N Solar Rad	15.169+/- 9.250	W/m**2
35	N HA 74'	4.178+/- 3.285	mph	64	S VA 55'	.259+/- .277	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	3.17+/- 1.00	186.9+/- 15.2	4.1+/- 13.6
02	17	19	21	1.26+/- .86	177.2+/- 48.2	11.8+/- 32.3
03	38	40	42	1.08+/- .62	193.1+/- 15.9	25.4+/- 19.4
04	41	43	45	2.12+/- 1.11	138.2+/- 42.8	6.7+/- 21.9
05	50	52	54	1.67+/- .82	193.5+/- 14.5	7.6+/- 10.1
06	56	58	60	.26+/- .07	219.6+/- 19.0	33.2+/- 14.1

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1815 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	57.0	92	53.5	107	56.6	37	58.7	6	51.1
Cat2	88	59.5	114	55.4	122	57.5	73	59.7	72	49.4
Cat3	5	61.3	20	59.8	7	58.2	4	62.0	4	47.6
Cat4	7	64.1	12	59.9	3	57.1	1	58.2	2	44.0
Cat5	1	66.9	2	66.9	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	64.5	79	57.6	73	58.6	46	58.1	16	48.1
Cat2	194	66.0	126	59.0	94	59.8	44	58.3	25	45.8
Cat3	6	68.7	7	63.0	13	60.8	3	61.3	0	.0
Cat4	3	65.7	3	59.1	5	59.9	1	50.1	1	38.7
Cat5	1	82.5	2	57.6	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	570	35.3	58.9	932	57.7	60.4	69	4.3	59.1	38	2.4	63.1	6	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.960+/- 1.130	mph	37	N VA 102'	.215+/- 1.651	mph
12	N Dasibi CO	3.775+/- .429	ppm	38	S BOT PER	1.089+/- .506	mph
13	N TDP PAR	.237+/- .755	mph	39	N VA 74'	.103+/- .540	mph
14	N Dasibi O3	.013+/- .001	ppm	40	S BOT PAR	.189+/- .256	mph
15	N TDP VER	.016+/- .689	mph	41	N GND PER	1.298+/- 1.218	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.904+/- .571	mph
17	N BOT PER	1.085+/- 1.182	mph	43	N GND PAR	1.363+/- 1.158	mph
19	N BOT PAR	-.166+/- .642	mph	45	N GND VER	.221+/- .675	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	3.475+/- .293	ppm
21	N BOT VER	.009+/- .520	mph	50	S TOP PER	1.691+/- .756	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	7.493+/- .531	ppm
23	N HA 102'	5.219+/- 1.238	mph	52	S TOP PAR	.219+/- .420	mph
24	N THC/Byron	4.585+/- .588	ppm	53	N EcoLyzer-3	3.585+/- .639	ppm

25	N WV 102'	182.142+/-	7.142	DEGR AZ	54	S TDP VER	.200+/-	.252	mph
26	N NMHC/Byron	3.677+/-	.633	ppm	55	N Ecolyzer-4	4.878+/-	.678	ppm
27	N Gnd Temp	47.308+/-	4.265	DEGR F	56	S GND PER	.137+/-	.077	mph
28	N CH4/Byron	2.669+/-	.184	ppm	57	N Ecolyzer-5	4.792+/-	.893	ppm
29	N WV 74'	169.561+/-	11.960	DEGR AZ	58	S GND PAR	.115+/-	.113	mph
30	N CD/Byron	5.261+/-	1.084	ppm	59	N Rel Hum	69.630+/-	1.721	%
31	N 74' Temp	46.917+/-	2.170	DEGR F	60	S GND VER	.128+/-	.117	mph
32	N CO2/Byron	480.541+/-	16.739	ppm	61	N Solar Rad	17.394+/-	11.575	W/m**2
35	N HA 74'	3.353+/-	3.498	mph	64	S VA 55'	.261+/-	.325	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	3.15+/-	1.11	185.4+/-	15.6	1.5+/-	13.7
02	17	19	21	1.47+/-	1.06	168.4+/-	43.5	3.7+/-	29.2
03	38	40	42	1.57+/-	.49	190.7+/-	14.0	36.9+/-	24.0
04	41	43	45	2.36+/-	1.14	131.9+/-	37.4	6.5+/-	22.6
05	50	52	54	1.78+/-	.76	187.3+/-	12.9	8.8+/-	10.4
06	56	58	60	.26+/-	.11	222.9+/-	26.4	31.2+/-	19.5

Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 6828 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	289	57.1	432	53.3	427	55.8	158	58.7	27	50.9
Cat2	270	59.4	446	55.4	453	57.0	332	58.8	285	49.5
Cat3	28	60.0	89	59.8	28	56.5	13	61.3	10	48.3
Cat4	22	64.7	34	61.0	13	56.5	5	60.0	3	47.3
Cat5	3	69.0	7	65.9	0	.0	1	61.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	179	63.9	322	57.3	329	58.6	213	56.8	76	46.8
Cat2	815	65.5	558	59.3	400	58.8	202	57.8	116	47.3
Cat3	25	65.0	48	59.3	59	60.6	15	59.3	1	50.3
Cat4	13	65.1	32	61.2	27	61.3	5	60.8	1	34.7
Cat5	7	66.6	8	60.3	2	63.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	2452	35.9	58.7	3877	56.8	59.7	316	4.6	61.1	155	2.3	64.5	28	.4

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	2.384+/-	1.305	mph	37	N VA 102'	.269+/-	1.585	mph
12	N Dasibi CD	5.866+/-	1.446	ppm	38	S BDT PER	.913+/-	.534	mph
13	N TDP PAR	.328+/-	.749	mph	39	N VA 74'	.180+/-	.499	mph
14	N Dasibi O3	.019+/-	.004	ppm	40	S BDT PAR	.186+/-	.258	mph
15	N TOP VER	.185+/-	.610	mph	41	N GND PER	1.408+/-	1.315	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BDT VER	.425+/-	.470	mph
17	N BDT PER	.872+/-	.947	mph	43	N GND PAR	-1.322+/-	1.220	mph
19	N BDT PAR	-.145+/-	.620	mph	45	N GND VER	.217+/-	.600	mph
20	N NO2/TECO	*****+/-*****		ppm	49	N Ecolyzer-1	4.387+/-	.784	ppm
21	N BDT VER	.187+/-	.466	mph	50	S TOP PER	1.106+/-	.929	ppm
22	N NO/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	8.068+/-	.531	ppm
23	N HA 102'	5.187+/-	1.607	mph	52	S TOP PAR	.173+/-	.359	ppm
24	N THC/Byron	5.022+/-	.467	ppm	53	N Ecolyzer-3	5.419+/-	1.704	ppm
25	N WV 102'	181.452+/-	8.348	DEGR AZ	54	S TOP VER	.182+/-	.189	mph
26	N NMHC/Byro	4.156+/-	.464	ppm	55	N Ecolyzer-4	7.551+/-	2.206	ppm
27	N Gnd Temp	49.484+/-	4.015	DEGR F	56	S GND PER	.175+/-	.183	mph
28	N CH4/Byron	2.541+/-	.292	ppm	57	N Ecolyzer-5	7.496+/-	2.000	ppm
29	N WV 74'	170.950+/-	12.537	DEGR AZ	58	S GND PAR	.107+/-	.115	mph
30	N CD/Byron	6.286+/-	1.136	ppm	59	N Rel Hum	54.291+/-	10.450	%
31	N 74' Temp	49.230+/-	4.502	DEGR F	60	S GND VER	.138+/-	.085	mph
32	N CO2/Byron	528.741+/-	29.758	ppm	61	N Solar Rad	15.044+/-	9.472	W/m**2
35	N HA 74'	3.372+/-	3.440	mph	64	S VA 55'	.233+/-	.251	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.64+/-	1.22	191.1+/-	22.7	7.1+/-	18.1
02	17	19	21	1.27+/-	.85	172.0+/-	44.5	12.3+/-	28.2
03	38	40	42	1.13+/-	.58	193.4+/-	18.5	22.4+/-	21.8
04	41	43	45	2.42+/-	1.23	136.3+/-	37.3	6.4+/-	20.8
05	50	52	54	1.23+/-	.90	199.9+/-	26.7	18.9+/-	21.0
06	56	58	60	.29+/-	.18	219.0+/-	24.7	32.4+/-	17.3



20:25:25 -- HAVE JUST RETURNED FROM DINNER.  
 20:47:11 -- BEGIN CALIBRATION CND=D  
 20:47:31 -- BEGIN CALIBRATION NCD=2

Average for 15 minute period ending at 20:15:00  
 Traffic Data  
 Total Traffic = 1475 vehicles averaging 58.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	57.1	103	52.8	112	56.3	46	59.3	6	47.5
Cat2	62	60.1	104	54.8	118	57.3	61	59.6	54	49.8
Cat3	5	61.1	12	59.3	7	58.7	0	0	2	49.5
Cat4	4	64.5	7	59.3	0	0	2	54.7	1	48.8
Cat5	3	63.0	2	69.6	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	65.6	74	57.9	81	59.7	42	57.0	8	46.1
Cat2	179	66.3	103	59.7	91	61.2	32	57.3	13	47.1
Cat3	6	68.7	12	59.1	2	63.1	1	49.3	0	0
Cat4	5	67.3	4	62.6	3	62.2	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	580	39.3	59.4	817	55.4	60.1	47	3.2	61.7	26	1.8	65.7	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.688+/- .895	mph	37	N VA 102'	.433+/- 1.542	mph
12	N Dasibi CD	3.377+/- .447	ppm	38	S BOT PER	.797+/- .458	mph
13	N TOP PAR	.378+/- .766	ppm	39	N VA 74'	.080+/- .482	mph
14	N Dasibi D3	.013+/- .001	ppm	40	S BOT PAR	.190+/- .155	mph
15	N TOP VER	.051+/- .527	mph	41	N GND PER	1.106+/- 1.110	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.525+/- .523	mph
17	N BOT PER	.861+/- .882	mph	43	N GND PAR	-1.567+/- 1.084	mph
18	N BOT PAR	-.097+/- .587	mph	45	N GND VER	.258+/- .583	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	2.788+/- .301	ppm
21	N BOT VER	.079+/- .476	mph	50	S TOP PER	1.368+/- .631	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	6.578+/- .236	ppm
23	N HA 102'	4.972+/- 1.037	mph	52	S TOP PAR	.218+/- .452	mph
24	N THC/Byron	3.786+/- .096	ppm	53	N EcoLyzer-3	3.128+/- .513	ppm
25	N WV 102'	182.361+/- 7.562	DEGR AZ	54	S TOP VER	.205+/- .215	mph
26	N NMHC/Byro	3.421+/- .304	ppm	55	N EcoLyzer-4	4.101+/- .546	ppm
27	N Gnd Temp	48.194+/- 3.295	DEGR F	56	S GND PER	.144+/- .064	mph
28	N CH4/Byron	2.283+/- .187	ppm	57	N EcoLyzer-5	4.510+/- .773	ppm
29	N WV 74'	170.323+/- 11.771	DEGR AZ	58	S GND PAR	.128+/- .082	mph
30	N CO/Byron	3.555+/- .220	ppm	59	N Rel Hum	73.897+/- .908	%
31	N 74' Temp	47.569+/- 4.236	DEGR F	60	S GND VER	.124+/- .073	mph
32	N CO2/Byron	465.315+/- 9.195	ppm	61	N Solar Rad	22.072+/- 13.908	W/m <sup>2</sup>
35	N HA 74'	3.182+/- 3.547	mph	64	S VA 55'	.331+/- .284	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.88+/- .87	188.3+/- 17.3	1.5+/- 13.1
02	17 18 21	1.23+/- .78	171.6+/- 45.2	4.9+/- 29.3
03	38 40 42	1.13+/- .44	197.4+/- 20.4	28.8+/- 27.8
04	41 43 45	2.31+/- 1.07	124.0+/- 32.4	6.3+/- 20.7
05	50 52 54	1.48+/- .83	190.6+/- 16.4	11.4+/- 14.1
06	56 58 60	.26+/- .07	220.2+/- 20.8	32.6+/- 17.0

Average for 15 minute period ending at 20:30:00  
 Traffic Data  
 Total Traffic = 1382 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	58.0	95	53.9	103	56.8	34	57.9	6	49.4
Cat2	47	60.1	105	55.6	90	58.8	53	58.5	63	48.9
Cat3	3	61.1	8	59.3	5	55.1	0	0	2	53.3
Cat4	3	64.1	4	62.7	3	58.1	1	69.6	0	0
Cat5	1	68.4	0	0	0	0	1	53.5	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	63.4	62	58.5	83	59.4	29	57.3	7	47.4
Cat2	159	65.4	108	59.4	89	59.3	47	60.9	15	46.9
Cat3	10	68.0	12	58.8	7	57.8	2	60.7	0	0
Cat4	8	66.6	6	61.3	8	62.5	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	522	38.3	59.0	756	55.5	59.8	49	3.6	63.3	33	2.4	61.0	2	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.572+/- .911	mph	37	N VA 102'	.282+/- 1.582	mph
12	N Dasibi CD	3.026+/- .274	ppm	38	S BOT PER	.459+/- .380	mph
13	N TOP PAR	.442+/- .596	ppm	39	N VA 74'	.291+/- .379	mph
14	N Dasibi D3	.014+/- .001	ppm	40	S BOT PAR	.157+/- .138	mph
15	N TOP VER	.260+/- .551	mph	41	N GND PER	.939+/- 1.016	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.180+/- .153	mph
17	N BOT PER	.593+/- .643	mph	43	N GND PAR	-.909+/- .951	mph
18	N BOT PAR	.090+/- .508	mph	45	N GND VER	.160+/- .517	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	2.510+/- .394	ppm
21	N BOT VER	.094+/- .326	mph	50	S TOP PER	.779+/- .611	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	5.842+/- .405	ppm
23	N HA 102'	4.547+/- .920	mph	52	S TOP PAR	.215+/- .178	mph
24	N THC/Byron	3.641+/- .130	ppm	53	N EcoLyzer-3	2.992+/- .678	ppm
25	N WV 102'	186.355+/- 6.761	DEGR AZ	54	S TOP VER	.199+/- .153	mph
26	N NMHC/Byro	2.879+/- .188	ppm	55	N EcoLyzer-4	3.950+/- .500	ppm
27	N Gnd Temp	47.204+/- 2.489	DEGR F	56	S GND PER	.141+/- .068	mph
28	N CH4/Byron	2.083+/- .100	ppm	57	N EcoLyzer-5	4.085+/- .722	ppm
29	N WV 74'	175.552+/- 9.480	DEGR AZ	58	S GND PAR	.130+/- .057	mph
30	N CO/Byron	3.117+/- .369	ppm	59	N Rel Hum	76.372+/- .975	%
31	N 74' Temp	46.058+/- 4.251	DEGR F	60	S GND VER	.134+/- .061	mph
32	N CO2/Byron	447.568+/- 2.353	ppm	61	N Solar Rad	14.442+/- 10.498	W/m <sup>2</sup>
35	N HA 74'	2.209+/- 3.528	mph	64	S VA 55'	.239+/- .188	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	1.89+/- .81	197.8+/- 29.4	10.7+/- 22.7
02	17 19 21	.92+/- .61	201.5+/- 47.0	8.1+/- 27.7
03	38 40 42	.59+/- .31	206.0+/- 28.4	19.9+/- 21.0
04	41 43 45	1.77+/- .91	175.9+/- 40.2	6.8+/- 23.1
05	50 52 54	.90+/- .57	205.5+/- 23.8	21.0+/- 21.1
06	56 58 60	.25+/- .06	223.9+/- 19.7	33.8+/- 14.9

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 1166 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	57.2	89	54.5	90	57.3	19	58.7	3	50.9
Cat2	44	59.2	80	55.5	78	58.1	45	59.4	57	48.2
Cat3	3	81.5	7	60.3	2	80.8	2	61.4	2	28.2
Cat4	1	60.5	7	80.9	3	55.7	0	.0	1	42.5
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	63.7	61	57.8	73	58.9	33	55.4	4	43.1
Cat2	138	65.3	88	58.5	83	59.6	23	58.6	9	45.2
Cat3	2	72.4	17	60.9	4	60.2	0	.0	1	32.4
Cat4	4	63.8	3	59.9	2	62.0	1	53.7	0	.0
Cat5	1	67.4	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	458	39.3	58.7	645	55.3	59.0	40	3.4	59.5	22	1.9	67.4	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.275+/- 1.204	mph	37	N VA 102'	.265+/- 1.786	mph
12	N Dasibi CD	2.431+/- .358	ppm	38	S BOT PER	.480+/- .425	mph
13	N TOP PAR	.809+/- .696	mph	39	N VA 74'	.202+/- .543	mph
14	N Dasibi D3	.014+/- .001	ppm	40	S BOT PAR	.153+/- .186	mph
15	N TOP VER	.106+/- .588	mph	41	N GND PER	.856+/- 1.306	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.230+/- .222	mph
17	N BOT PER	.766+/- .901	mph	43	N GND PAR	-.297+/- 1.077	mph
19	N BOT PAR	.183+/- .605	mph	45	N GND VER	.162+/- .549	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.800+/- .271	ppm
21	N BOT VER	.167+/- .485	mph	50	S TOP PER	1.062+/- .828	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	5.115+/- .196	ppm
23	N HA 102'	5.834+/- 1.520	ppm	52	S TOP PAR	5.508+/- .453	ppm
24	N THC/Byron	3.304+/- .200	ppm	53	N Ecolyzer-3	2.262+/- .540	ppm
25	N WV 102'	192.803+/- 8.292	DEGR AZ	54	S TOP VER	2.229+/- .222	ppm
26	N NMHC/Byro	2.543+/- .312	ppm	55	N Ecolyzer-4	3.162+/- .628	ppm
27	N Gnd Temp	47.751+/- 3.222	DEGR F	55	S GND PER	1.149+/- .078	mph
28	N CH4/Byron	2.019+/- .040	ppm	57	N Ecolyzer-5	3.029+/- 1.145	ppm
29	N WV 74'	180.112+/- 10.316	DEGR AZ	58	S GND PAR	1.27+/- .086	mph
30	N CO/Byron	2.353+/- .053	ppm	59	N Rel Hum	77.186+/- .715	%
31	N 74' Temp	46.657+/- 5.255	DEGR F	60	S GND VER	1.144+/- .063	mph
32	N CD2/Byron	453.753+/- 2.475	ppm	61	N Solar Rad	13.852+/- 11.193	W/m**2
35	N HA 74'	3.838+/- 3.523	mph	64	S VA 55'	.355+/- .295	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	2.59+/- 1.18	200.7+/- 19.6	4.0+/- 15.2
02	17 19 21	1.18+/- .83	198.7+/- 46.2	11.3+/- 31.0
03	38 40 42	.65+/- .41	203.0+/- 28.8	23.2+/- 21.6
04	41 43 45	1.67+/- 1.11	160.3+/- 50.9	7.4+/- 28.1
05	50 52 54	1.30+/- .83	211.3+/- 22.2	17.4+/- 18.2
06	56 58 60	.26+/- .07	221.5+/- 21.1	34.4+/- 15.0

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 1118 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	56.4	83	53.8	81	57.0	27	59.0	12	49.9
Cat2	35	58.3	74	55.3	74	58.3	43	59.7	57	49.5
Cat3	2	62.5	9	58.3	4	54.6	1	65.5	1	47.0
Cat4	0	.0	3	84.2	3	60.1	1	65.0	1	45.0
Cat5	1	65.0	1	67.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	64.2	65	58.2	67	58.7	32	55.6	3	44.7
Cat2	125	66.8	91	57.8	70	58.7	25	57.5	11	47.0
Cat3	5	84.9	11	58.3	3	59.1	0	.0	0	.0
Cat4	2	89.5	6	84.3	4	59.9	0	.0	0	.0
Cat5	0	.0	0	.0	1	70.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	455	40.7	58.6	605	54.1	59.5	36	3.2	62.4	20	1.8	67.4	3	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.562+/- 1.583	mph	37	N VA 102'	.387+/- 1.507	mph
12	N Dasibi CD	1.755+/- .383	ppm	38	S BOT PER	1.262+/- .815	mph
13	N TOP PAR	1.258+/- 1.058	mph	39	N VA 74'	.057+/- .657	mph
14	N Dasibi D3	.014+/- .001	ppm	40	S BOT PAR	.208+/- .537	mph
15	N TOP VER	-.093+/- .783	mph	41	N GND PER	1.403+/- 1.341	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.307+/- .343	mph
17	N BOT PER	1.269+/- 1.511	mph	43	N GND PAR	-.375+/- 1.033	mph
19	N BOT PAR	.798+/- .840	mph	45	N GND VER	1.122+/- .547	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.482+/- .287	ppm
21	N BOT VER	-.046+/- .697	mph	50	S TOP PER	2.086+/- 1.209	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.486+/- 1.508	ppm	52	S TOP PAR	.901+/- .947	ppm
24	N THC/Byron	2.961+/- 1.140	ppm	53	N Ecolyzer-3	1.537+/- .434	ppm
25	N WV 102'	193.451+/- 9.205	DEGR AZ	54	S TOP VER	.297+/- .504	ppm
26	N NMHC/Byro	2.172+/- .19	ppm	55	N Ecolyzer-4	2.147+/- .401	ppm
27	N Gnd Temp	46.110+/- 2.920	DEGR F	56	S GND PER	.205+/- .263	mph

28	N CH4/Byron	1.938+/-	.045	ppm	57	N Ecolyzer-5	2.445+/-	.956	ppm
29	N WV 74'	180.632+/-	12.103	DEGR AZ	58	S GND PAR	.085+/-	.239	mph
30	N CO/Byron	1.578+/-	.376	ppm	59	N Re1 Hum	74.923+/-	.629	%
31	N 74' Temp	48.376+/-	3.802	DEGR F	60	S GND VER	.147+/-	.125	mph
32	N CO2/Byron	435.180+/-	12.706	ppm	61	N Solar Rad	18.394+/-	13.784	W/m**2
35	N HA 74'	4.703+/-	3.398	mph	64	S VA 55'	.457+/-	.588	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.00+/-	1.58	199.7+/-	19.1	1.4+/- 15.4
02	17 19 21	2.00+/-	1.32	221.8+/-	35.7	1.6+/- 29.8
03	38 40 42	1.46+/-	.83	192.2+/-	24.0	16.3+/- 18.2
04	41 43 45	1.98+/-	1.21	165.9+/-	43.5	3.2+/- 26.8
05	50 52 54	2.53+/-	1.20	208.5+/-	25.0	11.0+/- 15.4
06	56 58 60	.36+/-	.30	216.1+/-	27.8	28.7+/- 17.3

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 5122 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	228	57.2	370	53.7	386	56.8	126	58.8	27	49.4
Cat 2	185	59.6	363	55.3	360	58.0	202	59.3	231	49.1
Cat 3	13	61.4	36	59.5	18	57.0	3	62.8	7	44.1
Cat 4	8	63.9	21	61.2	9	58.0	4	61.0	3	45.4
Cat 5	5	64.5	3	68.7	0	.0	1	53.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	154	64.2	252	58.1	304	59.2	136	56.3	22	45.8
Cat 2	601	65.9	390	58.9	313	59.8	127	58.9	48	46.7
Cat 3	23	67.0	52	59.6	18	59.3	3	56.9	1	32.4
Cat 4	19	68.5	19	62.3	17	61.8	1	53.7	0	.0
Cat 5	1	67.4	0	.0	1	70.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.3	2015	39.3	59.0	2823	55.1	59.6	172	3.4	61.9	101	2.0	65.5	11	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.524+/- 1.382	mph	37	N VA 102'	.342+/- 1.606	mph
12	N Dasibi CO	2.647+/- .720	ppm	38	S BDT PER	.749+/- .633	mph
13	N TOP PAR	.721+/- .870	mph	39	N VA 74'	.130+/- .529	mph
14	N Dasibi O3	.014+/- .001	ppm	40	S BDT PAR	.178+/- .300	mph
15	N TOP VER	.081+/- .634	mph	41	N GND PER	1.076+/- 1.217	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.308+/- 1.388	mph
17	N BDT PER	.872+/- 1.089	mph	43	N GND PAR	.787+/- 1.154	mph
19	N BDT PAR	.244+/- .728	mph	45	N GND VER	.175+/- .577	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.145+/- .614	ppm
21	N BDT VER	.073+/- .518	mph	50	S TOP PER	1.323+/- .981	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	5.778+/- .700	ppm
23	N HA 102'	5.453+/- 1.874	mph	52	S TOP PAR	.460+/- .642	mph
24	N THC/Byron	3.418+/- .359	ppm	53	N Ecolyzer-3	2.480+/- .840	ppm
25	N WV 102'	188.781+/- 9.206	DEGR AZ	54	S TDP VER	.232+/- .307	ppm
26	N NMHC/Byro	2.779+/- .512	ppm	55	N Ecolyzer-4	3.340+/- .936	ppm
27	N Gnd Temp	47.315+/- 3.025	DEGR F	56	S GND PER	.180+/- .147	mph
28	N CH4/Byron	2.081+/- .162	ppm	57	N Ecolyzer-5	3.517+/- 1.228	ppm
29	N WV 74'	176.658+/- 11.878	DEGR AZ	58	S GND PAR	.117+/- .135	mph
30	N CO/Byron	2.651+/- .810	ppm	58	N Re1 Hum	75.594+/- 1.513	%
31	N 74' Temp	47.165+/- 4.416	DEGR F	60	S GND VER	.138+/- .085	mph
32	N CO2/Byron	450.858+/- 13.467	ppm	61	N Solar Rad	17.190+/- 12.571	W/m**2
35	N HA 74'	3.483+/- 3.610	mph	64	S VA 55'	.345+/- .378	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.84+/-	1.38	196.8+/-	22.4	4.4+/- 17.4
02	17 19 21	1.33+/-	1.01	199.5+/-	46.0	6.5+/- 29.6
03	38 40 42	.98+/-	.64	199.5+/-	25.8	22.0+/- 22.6
04	41 43 45	1.93+/-	1.11	143.8+/-	44.3	5.9+/- 24.9
05	50 52 54	1.55+/-	1.04	203.3+/-	23.2	15.2+/- 17.8
08	56 58 60	.28+/-	.16	220.5+/-	22.7	32.7+/- 16.2

21:01:03 -- END CAL. NCO-2  
 21:01:20 -- BEGIN CALIBRATION NCO-5  
 21:16:02 -- NCO 5 NOT WORKING FOR UNKNOWN REASONS GRD  
 21:17:32 -- BEGIN CALIBRATION NCO-4  
 21:31:00 -- END CALIBRATION NCO-4 GRD  
 21:31:39 -- BEGIN CAL. NCO-3  
 21:40:35 -- END CALIBRATION NCO-3  
 21:40:45 -- BEGIN CAL. NCO-1  
 21:56:23 -- END CAL. NCO-1  
 21:56:48 -- CH & RADAR CONTINUES TO BE LOW GRD

Average for 15 minute period ending at 21:15:00  
 Traffic Data  
 Total Traffic = 1181 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	56.8	89	54.8	56	56.8	21	57.5	6	49.2
Cat2	42	60.6	82	55.4	76	58.3	46	60.3	36	50.2
Cat3	5	61.6	12	58.1	7	58.7	1	71.0	0	.0
Cat4	3	64.1	3	59.7	2	52.8	0	.0	0	.0
Cat5	1	85.0	1	63.1	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	64.4	73	57.3	67	57.7	39	56.4	7	47.2
Cat2	134	65.1	103	59.2	65	59.2	37	57.3	14	43.3
Cat3	4	65.8	9	59.0	5	58.8	1	63.7	0	.0
Cat4	3	67.3	0	.0	4	60.8	0	.0	0	.0
Cat5	1	59.6	0	.0	1	63.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	493	41.4	59.0	635	53.3	60.0	44	3.7	61.5	15	1.3	62.9	4	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.846+/-	1.304	37	N VA 102'	.268+/-	1.650
12	N Dasibi CD	1.820+/-	.256	38	S BDT PER	1.081+/-	.757
13	N TDP PAR	.984+/-	.857	39	N VA 74'	.084+/-	.518
14	N Dasibi 03	.014+/-	.001	40	S BDT PAR	.213+/-	.328
15	N TDP VER	.049+/-	.607	41	N GND PER	1.119+/-	1.155
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.307+/-	.229
17	N BDT PER	.858+/-	1.045	43	N GND PAR	-.401+/-	1.080
19	N BDT PAR	.421+/-	.600	45	N GND VER	.167+/-	.573
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.317+/-	.262
21	N BDT VER	.129+/-	.432	50	S TDP PER	1.455+/-	1.004
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	4.107+/-	.154
23	N HA 102'	5.201+/-	1.034	52	S TDP PAR	.828+/-	.816
24	N THC/Byron	3.073+/-	.197	53	N Ecolyzer-3	1.984+/-	.536
25	N WV 102'	191.484+/-	7.859	54	S TDP VER	.183+/-	.259
26	N NMHC/Byro	1.804+/-	.190	55	N Ecolyzer-4	2.776+/-	.449
27	N Gnd Temp	46.885+/-	3.531	56	S GND PER	.212+/-	.299
28	N CH4/Byron	2.032+/-	.206	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	178.033+/-	9.736	58	S GND PAR	.122+/-	.107
30	N CO/Byron	.877+/-	.147	59	N Rel Hum	75.216+/-	.957
31	N 74' Temp	45.801+/-	4.357	60	S GND VER	.131+/-	.074
32	N CD2/Byron	410.438+/-	6.097	61	N Solar Rad	15.398+/-	11.261
35	N HA 74'	3.247+/-	3.551	64	S VA 55'	.330+/-	.335

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.20+/- 1.27	200.1+/- 19.0	2.9+/- 14.3
02	17 19 21	1.30+/- .93	213.3+/- 41.7	10.3+/- 29.8
03	38 40 42	1.23+/- .73	195.4+/- 20.9	19.5+/- 17.7
04	41 43 45	1.81+/- .97	188.4+/- 46.2	5.7+/- 25.7
05	50 52 54	1.83+/- .97	215.6+/- 24.7	11.2+/- 14.6
06	56 58 60	.32+/- .29	216.7+/- 22.2	29.9+/- 16.1

Average for 15 minute period ending at 21:30:00  
 Traffic Data  
 Total Traffic = 1132 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	57.3	89	54.2	44	58.0	34	58.5	5	49.6
Cat2	34	61.6	85	58.7	65	59.0	46	58.9	49	51.1
Cat3	4	60.3	15	59.8	6	58.9	1	59.1	0	.0
Cat4	2	58.0	5	60.4	4	61.4	3	62.5	0	.0
Cat5	1	67.4	1	66.9	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	64.2	70	58.0	69	57.8	33	56.1	7	42.2
Cat2	125	66.1	74	59.7	61	59.8	26	57.4	10	44.8
Cat3	4	65.9	10	59.3	8	58.5	1	58.2	0	.0
Cat4	1	73.3	6	63.3	4	60.3	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	481	42.5	59.6	575	50.8	60.0	49	4.3	61.8	25	2.2	67.2	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.380+/-	.969	37	N VA 102'	.173+/-	1.453
12	N Dasibi CO	1.904+/-	.325	38	S BDT PER	.571+/-	.340
13	N TDP PAR	1.309+/-	.690	39	N VA 74'	.150+/-	.422
14	N Dasibi 03	.013+/-	.001	40	S BDT PAR	.171+/-	.159
15	N TDP VER	.159+/-	.534	41	N GND PER	1.321+/-	1.270
16	N NOX/TECO	*****+/-*****		42	S BDT VER	.529+/-	.327
17	N BDT PER	.739+/-	.980	43	N GND PAR	-.378+/-	.976
19	N BDT PAR	.589+/-	.626	45	N GND VER	.293+/-	.844
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.353+/-	.263
21	N BDT VER	.134+/-	.380	50	S TDP PER	1.818+/-	.869
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	3.807+/-	.147
23	N HA 102'	5.505+/-	1.265	52	S TDP PAR	.818+/-	.263
24	N THC/Byron	3.573+/-	.140	53	N Ecolyzer-3	2.107+/-	.555
25	N WV 102'	197.536+/-	6.827	54	S TDP VER	.227+/-	.195
26	N NMHC/Byro	1.925+/-	.238	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	46.813+/-	3.198	58	S GND PER	.156+/-	.067
28	N CH4/Byron	2.474+/-	.110	57	N Ecolyzer-5	*****+/-*****	

29	N WV 74'	185.033+/-	10.768	DEGR AZ	58	S GND PAR	.133+/-	.065	mph
30	N CD/Byron	1.164+/-	.134	ppm	59	N Re1 Hum	76.535+/-	.776	%
31	N 74' Temp	46.527+/-	4.494	DEGR F	60	S GND VER	.145+/-	.069	mph
32	N CO2/Byron	424.442+/-	9.357	ppm	61	N Solar Rad	14.987+/-	10.557	W/m**2
35	N HA 74'	2.629+/-	3.386	mph	64	S VA 55'	.364+/-	.265	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	2.88+/-	.91	209.6+/-	17.1	5.7+/-	16.7
02	17	19	21	1.29+/-	.86	225.2+/-	42.6	10.1+/-	26.8
03	38	40	42	.88+/-	.34	200.1+/-	24.6	39.5+/-	20.9
04	41	43	45	1.94+/-	1.08	166.1+/-	42.1	11.0+/-	28.4
05	50	52	54	1.17+/-	.64	224.9+/-	23.1	16.1+/-	16.9
06	56	58	60	.27+/-	.06	220.5+/-	20.6	33.1+/-	15.8

Average for 15 minute period ending at 21:45:00  
 Traffic Data  
 Total Traffic = 1090 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	57.3	74	53.7	86	57.6	29	55.6	6	50.3
Cat2	50	59.3	63	55.8	82	57.9	42	60.9	41	50.8
Cat3	4	61.1	19	59.1	5	56.6	0	.0	0	.0
Cat4	3	64.7	2	65.1	4	58.7	2	59.2	1	60.2
Cat5	0	.0	1	62.0	1	68.5	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	64.4	65	57.3	58	57.9	20	55.5	8	43.1
Cat2	123	65.7	95	59.4	73	58.8	28	57.7	7	40.7
Cat3	4	66.1	10	59.3	3	56.5	2	56.1	1	36.5
Cat4	1	61.1	2	63.9	2	58.2	0	.0	0	.0
Cat5	0	.0	0	.0	1	64.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	418	38.3	59.3	604	55.4	58.9	48	4.4	61.4	17	1.6	84.9	3	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.814+/-	.813	37	N VA 102'	.363+/-	1.820
12	N Desibi CD	2.262+/-	.346	38	S BOT PER	.251+/-	.296
13	N TOP PAR	1.106+/-	.852	39	N VA 74'	.116+/-	.423
14	N Desibi D3	.014+/-	.001	40	S BOT PAR	.140+/-	.146
15	N TOP VER	.150+/-	.576	41	N GND PER	1.324+/-	1.346
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.610+/-	.375
17	N BOT PER	.597+/-	.700	43	N GND PAR	-.441+/-	1.110
19	N BOT PAR	.481+/-	.570	45	N GND VER	.141+/-	.555
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.154+/-	.399	50	S TOP PER	.226+/-	.354
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	3.416+/-	.186
23	N HA 102'	4.911+/-	1.017	52	S TOP PAR	.342+/-	.414
24	N THC/Byron	3.797+/-	.120	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	201.325+/-	5.912	54	S TOP VER	.191+/-	.182
26	N NMHC/Byro	2.221+/-	.402	55	N EcoLyzer-4	3.151+/-	.588
27	N Gnd Temp	47.256+/-	3.459	56	S GND PER	.137+/-	.075
28	N CH4/Byron	2.638+/-	.057	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	188.324+/-	9.651	58	S GND PAR	.133+/-	.060
30	N CD/Byron	2.083+/-	.446	59	N Re1 Hum	77.593+/-	.856
31	N 74' Temp	47.100+/-	3.985	60	S GND VER	.154+/-	.073
32	N CO2/Byron	423.791+/-	7.612	61	N Solar Rad	18.757+/-	11.760
35	N HA 74'	1.987+/-	3.587	64	S VA 55'	.250+/-	.229

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	2.30+/-	.81	211.1+/-	17.8	5.0+/-	19.0
02	17	19	21	1.08+/-	.64	225.7+/-	39.6	10.0+/-	28.2
03	38	40	42	.76+/-	.36	213.6+/-	34.9	54.8+/-	25.8
04	41	43	45	2.02+/-	1.10	163.3+/-	44.5	3.9+/-	24.9
05	50	52	54	.55+/-	.49	233.2+/-	25.6	30.5+/-	26.4
06	56	58	60	.26+/-	.07	226.0+/-	20.9	36.7+/-	16.6

Average for 15 minute period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 990 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	57.7	72	54.5	84	58.0	27	58.3	7	50.6
Cat2	30	59.7	56	57.5	73	59.3	43	58.2	45	49.7
Cat3	1	63.2	9	58.8	7	56.8	1	57.1	0	.0
Cat4	4	61.5	2	62.7	1	61.8	0	.0	0	.0
Cat5	0	.0	1	68.1	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	64.2	66	58.3	60	57.0	36	54.8	6	44.9
Cat2	106	65.8	71	58.2	64	58.0	23	55.8	10	44.6
Cat3	3	65.5	7	56.8	3	61.8	0	.0	0	.0
Cat4	1	67.0	2	58.6	4	58.9	1	69.2	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	412	41.8	58.8	531	53.6	58.8	31	3.1	61.5	15	1.5	88.1	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.702+/-	.776	37	N VA 102'	.360+/-	1.520
12	N Desibi CD	2.155+/-	.197	38	S BOT PER	.210+/-	.161
13	N TOP PAR	.532+/-	.529	39	N VA 74'	.113+/-	.367
14	N Desibi D3	.015+/-	.001	40	S BOT PAR	.183+/-	.137
15	N TOP VER	.136+/-	.523	41	N GND PER	.946+/-	1.137
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.789+/-	.265
17	N BOT PER	.630+/-	.573	43	N GND PAR	-1.104+/-	1.065
19	N BOT PAR	.164+/-	.454	45	N GND VER	.190+/-	.885
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm

21	N BOT VER	.177+/-	.298	mph	50	S TOP PER	.162+/-	.204	mph
22	N ND/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	3.236+/-	.138	ppm
23	N HA 102'	4.538+/-	.833	mph	52	S TOP PAR	.139+/-	.098	mph
24	N THC/Byron	3.454+/-	.056	ppm	53	N Ecolyzer-3	1.932+/-	.521	ppm
25	N WV 102'	195.133+/-	4.498	DEGR AZ	54	S TOP VER	.224+/-	.135	mph
26	N NMHC/Byro	2.215+/-	.193	ppm	55	N Ecolyzer-4	2.932+/-	.447	ppm
27	N Gnd Temp	45.380+/-	4.040	DEGR F	56	S GND PER	.154+/-	.072	ppm
28	N CH4/Byron	2.399+/-	.151	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	182.741+/-	6.320	DEGR AZ	58	S GND PAR	.139+/-	.066	mph
30	N CO/Byron	1.975+/-	.232	ppm	59	N Rel Hum	79.368+/-	.676	%
31	N 74' Temp	45.302+/-	4.415	DEGR F	60	S GND VER	.153+/-	.071	mph
32	N CO2/Byron	425.338+/-	3.878	ppm	61	N Solar Rad	19.938+/-	14.353	W/m**2
35	N HA 74'	2.496+/-	3.518	mph	64	S VA 55'	.194+/-	.152	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.97+/-	.67	189.4+/-	22.5	6.0+/- 19.5
02	17 18 21	.92+/-	.46	200.5+/-	42.1	13.3+/- 25.7
03	38 40 42	.87+/-	.25	221.8+/-	27.7	65.2+/- 12.1
04	41 43 45	2.01+/-	1.01	132.0+/-	41.0	6.5+/- 21.3
05	50 52 54	.36+/-	.20	225.2+/-	27.1	41.7+/- 20.1
06	56 58 60	.28+/-	.07	221.9+/-	19.2	34.7+/- 15.9

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 4403 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	180	57.3	324	54.3	334	57.5	111	58.5	24	50.0
Cat2	156	50.2	276	56.3	316	58.6	177	59.8	171	50.5
Cat3	14	61.2	55	58.9	25	57.8	3	62.4	0	.0
Cat4	12	62.4	12	61.4	11	58.9	5	61.2	1	60.2
Cat5	2	66.2	4	65.0	1	68.5	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	147	64.3	274	57.7	254	57.8	128	55.7	28	44.2
Cat2	488	65.6	343	59.2	263	58.9	114	57.1	41	43.5
Cat3	15	65.8	36	58.7	19	59.2	4	58.5	1	36.5
Cat4	6	67.2	10	62.5	14	59.8	1	69.2	0	.0
Cat5	1	59.6	0	.0	2	64.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.2	1804	41.0	59.2	2345	53.3	55.5	172	3.9	61.6	72	1.6	64.9	10	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.186+/-	1.068	37	N VA 102'	.291+/-	1.562	mph
12	N Dasibi CO	2.035+/-	.341	38	S BOT PER	.528+/-	.567	mph
13	N TOP PAR	.983+/-	.747	39	N VA 74'	.118+/-	.436	mph
14	N Dasibi O3	.014+/-	.001	40	S BOT PAR	.177+/-	.209	mph
15	N TOP VER	.124+/-	.561	41	N GND PER	1.177+/-	1.237	mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.559+/-	.350	mph
17	N BOT PER	.706+/-	.852	43	N GND PAR	-.581+/-	1.094	mph
19	N BOT PAR	.414+/-	.586	45	N GND VER	.198+/-	.618	mph
20	N ND/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.148+/-	.380	50	S TOP PER	.666+/-	.823	ppm
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	3.635+/-	.373	ppm
23	N HA 102'	5.039+/-	1.106	52	S TOP PAR	.489+/-	.502	ppm
24	N THC/Byron	3.474+/-	.297	53	N Ecolyzer-3	2.025+/-	.541	ppm
25	N WV 102'	195.373+/-	7.302	54	S TOP VER	.206+/-	.189	ppm
26	N NMHC/Byro	2.066+/-	.304	55	N Ecolyzer-4	2.951+/-	.520	ppm
27	N Gnd Temp	45.579+/-	3.552	56	S GND PER	.185+/-	.164	ppm
28	N CH4/Byron	2.386+/-	.263	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	183.780+/-	10.006	58	S GND PAR	.132+/-	.077	mph
30	N CO/Byron	1.550+/-	.566	59	N Rel Hum	77.178+/-	1.729	%
31	N 74' Temp	46.207+/-	4.261	60	S GND VER	.146+/-	.072	mph
32	N CO2/Byron	421.002+/-	9.222	61	N Solar Rad	17.269+/-	11.951	W/m**2
35	N HA 74'	2.589+/-	3.533	64	S VA 55'	.285+/-	.262	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.59+/-	1.05	205.1+/-	18.8	4.9+/- 17.5
02	17 18 21	1.15+/-	.77	218.3+/-	42.0	10.9+/- 27.7
03	38 40 42	.94+/-	.49	207.2+/-	28.0	44.8+/- 26.4
04	41 43 45	1.95+/-	1.04	157.0+/-	44.5	6.8+/- 24.7
05	50 52 54	.99+/-	.86	224.6+/-	25.7	24.7+/- 23.3
06	56 58 60	.28+/-	.16	221.3+/-	20.9	33.6+/- 16.3

22:53:51 -- BEGIN ECOLYZER END CALIBRATIONS.  
 22:55:59 -- BEGIN END CAL. NCD-1  
 22:58:25 -- Invalidating all odd radars.

Average for 15 minute period ending at 22:15:00  
 Traffic Data  
 Total Traffic = 982 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	56.6	82	54.7	70	57.8	21	60.1	8	50.7
Cat2	38	57.9	67	56.2	70	59.2	34	61.6	41	51.0
Cat3	0	.0	7	61.5	2	64.5	0	.0	0	.0
Cat4	1	64.9	1	56.3	1	56.3	2	64.2	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	64.7	50	57.2	63	57.6	33	56.0	6	43.4
Cat2	104	66.1	94	59.8	58	58.8	30	56.3	11	44.9
Cat3	2	73.0	6	60.6	4	58.6	0	.0	0	.0
Cat4	0	.0	0	.0	2	64.4	1	60.1	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	406	41.3	59.2	547	55.7	62.1	21	2.1	61.8	8	.8	.0	0	.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.400+/- .664	mph	37	N VA 102'	.190+/- 1.584	mph
12	N Dasibi CD	2.515+/- .368	ppm	38	S BOT PER	.143+/- .127	mph
13	N TDP PAR	.470+/- .514	mph	39	N VA 74'	.205+/- .370	mph
14	N Dasibi D3	.015+/- .001	ppm	40	S BOT PAR	.141+/- .150	mph
15	N TDP VER	.179+/- .482	mph	41	N GND PER	.950+/- 1.067	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.834+/- .261	mph
17	N BOT PER	.498+/- .548	mph	43	N GND PAR	-.923+/- .524	mph
19	N BOT PAR	.071+/- .376	mph	45	N GND VER	.193+/- .280	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.587+/- .248	mph
21	N BOT VER	.220+/- .242	mph	60	S TDP PER	.170+/- .127	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	3.300+/- .095	mph
23	N HA 102'	4.424+/- .993	mph	52	S TDP PAR	.135+/- .613	ppm
24	N THC/Byron	3.473+/- .080	ppm	53	N Ecolyzer-3	2.365+/- .122	mph
25	N WV 102'	191.690+/- 4.994	DEGR AZ	54	S TDP VER	.195+/- .578	ppm
26	N NMHC/Byro	2.091+/- .314	ppm	55	N Ecolyzer-4	3.441+/- .070	mph
27	N Gnd Temp	45.515+/- 4.156	DEGR F	56	S GND PER	.148+/- .059	mph
28	N CH4/Byron	2.325+/- .049	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	179.947+/- 6.905	DEGR AZ	58	S GND PAR	.148+/- .069	mph
30	N CD/Byron	1.957+/- .299	ppm	59	N Rel Hum	80.785+/- .682	%
31	N 74' Temp	44.364+/- 3.837	DEGR F	60	S GND VER	.155+/- .069	mph
32	N CO2/Byron	429.653+/- 3.667	ppm	61	N Solar Rad	24.207+/- 14.726	W/m^2
35	N HA 74'	1.837+/- 3.422	mph	64	S VA 55'	.183+/- .115	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.87+/- .59	189.8+/- 25.1	7.0+/- 22.6
02	17 19 21	.77+/- .45	194.6+/- 45.3	21.2+/- 24.2
03	38 40 42	.88+/- .24	221.0+/- 38.0	70.7+/- 10.5
04	41 43 45	1.81+/- .94	137.5+/- 41.1	8.0+/- 24.5
05	50 52 54	.34+/- .24	224.8+/- 28.3	39.6+/- 21.2
06	56 58 60	.28+/- .07	226.2+/- 17.8	35.3+/- 16.0

Average for 15 minute period ending at 22:30:00  
 Traffic Data  
 Total Traffic = 1052 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	55.8	79	53.7	69	57.2	22	58.5	3	53.7
Cat2	37	59.4	59	56.7	60	58.6	48	59.8	49	50.6
Cat3	3	54.5	8	60.8	2	56.0	3	62.4	0	.0
Cat4	1	57.8	3	58.1	1	64.1	1	63.0	0	.0
Cat5	0	.0	1	64.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	63.4	63	56.1	63	58.0	38	55.2	10	47.5
Cat2	128	64.1	92	57.8	60	58.5	28	58.5	13	45.0
Cat3	6	62.7	10	60.5	8	61.4	0	.0	0	.0
Cat4	3	68.2	0	.0	8	60.3	1	53.8	0	.0
Cat5	0	.0	0	.0	1	60.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	417	39.8	58.6	575	54.7	60.5	40	3.8	61.1	18	1.7	62.3	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.427+/- .843	mph	37	N VA 102'	.210+/- 1.453	mph
12	N Dasibi CD	2.544+/- .344	ppm	38	S BOT PER	.148+/- .123	mph
13	N TDP PAR	.947+/- .546	mph	39	N VA 74'	.192+/- .379	mph
14	N Dasibi D3	.016+/- .001	ppm	40	S BOT PAR	.154+/- .140	mph
15	N TDP VER	.218+/- .519	mph	41	N GND PER	1.145+/- 1.265	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.832+/- .359	mph
17	N BOT PER	.588+/- .592	mph	43	N GND PAR	-.632+/- .935	mph
19	N BOT PAR	.324+/- .448	mph	45	N GND VER	.110+/- .508	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.708+/- .266	ppm
21	N BOT VER	.189+/- .254	mph	60	S TDP PER	.129+/- .083	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	3.420+/- .134	ppm
23	N HA 102'	5.034+/- 1.012	mph	52	S TDP PAR	.192+/- .155	mph
24	N THC/Byron	3.381+/- .159	ppm	53	N Ecolyzer-3	2.491+/- .749	ppm
25	N WV 102'	196.775+/- 4.746	DEGR AZ	54	S TDP VER	.205+/- .178	mph
26	N NMHC/Byro	2.062+/- .239	ppm	55	N Ecolyzer-4	3.565+/- .603	ppm
27	N Gnd Temp	46.839+/- 3.746	DEGR F	56	S GND PER	.154+/- .071	ppm
28	N CH4/Byron	2.252+/- .133	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	185.390+/- 7.229	DEGR AZ	58	S GND PAR	.138+/- .061	mph
30	N CD/Byron	1.948+/- .549	ppm	59	N Rel Hum	80.866+/- .398	%
31	N 74' Temp	45.823+/- 3.460	DEGR F	60	S GND VER	.162+/- .069	mph
32	N CO2/Byron	435.841+/- 5.322	ppm	61	N Solar Rad	19.211+/- 12.514	W/m^2
35	N HA 74'	2.094+/- 3.516	mph	64	S VA 55'	.242+/- .149	mph

28	N CH4/Byron	2.210+/-	.047	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	180.430+/-	8.627	DEGR AZ	58	S GND PAR	.149+/-	.068
30	N CD/Byron	2.522+/-	.282	ppm	59	N Rel Hum	80.834+/-	.781
31	N 74' Temp	45.511+/-	4.027	DEGR F	60	S GND VER	.150+/-	.072
32	N CD2/Byron	437.319+/-	4.608	ppm	61	N Solar Rad	15.305+/-	9.753
35	N HA 74'	2.014+/-	3.496	mph	64	S VA 55'	.223+/-	.145

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	1.53+/-	.70	203.8+/-	34.9	12.4+/-	25.6
02	17	19	21	.89+/-	.54	206.3+/-	42.7	15.2+/-	25.7
03	38	40	42	.94+/-	.32	224.8+/-	34.1	67.6+/-	16.0
04	41	43	45	1.91+/-	1.19	146.9+/-	47.0	5.2+/-	18.4
05	50	52	54	.42+/-	.26	237.9+/-	28.7	32.7+/-	22.0
06	56	58	60	.29+/-	.08	223.1+/-	18.7	32.7+/-	15.1

Average for hourly period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 3930 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	135	56.2	309	53.9	276	57.2	86	59.4	25	50.8
Cat2	129	58.3	244	56.2	251	58.4	159	59.7	183	50.3
Cat3	7	56.7	39	59.7	13	58.5	6	63.4	2	51.2
Cat4	4	59.3	6	59.1	2	60.2	5	60.1	2	51.3
Cat5	0	.0	1	64.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	136	63.8	247	56.9	241	58.2	113	55.7	28	45.4
Cat2	456	64.8	338	58.5	228	58.5	119	57.8	41	45.3
Cat3	19	65.7	30	60.3	19	60.5	1	52.6	0	.0
Cat4	10	66.4	4	61.3	11	61.8	3	60.4	1	52.9
Cat5	0	.0	0	.0	1	60.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.8	1596	40.6	58.6	2148	54.7	60.5	136	3.5	61.2	48	1.2	62.3	2	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.441+/-	.805	37	N VA 102'	.336+/-	1.626
12	N Dasibi CD	2.523+/-	.364	38	S BOT PER	.162+/-	.141
13	N TOP PAR	.664+/-	.635	39	N VA 74'	.199+/-	.379
14	N Dasibi D3	.015+/-	.001	40	S BOT PAR	.155+/-	.142
15	N TOP VER	.195+/-	.513	41	N GND PER	.993+/-	1.288
16	N NOK/TECO	*****+/-*****		42	S BOT VER	.822+/-	.327
17	N BOT PER	.589+/-	.617	43	N GND PAR	-.852+/-	1.113
19	N BOT PAR	.218+/-	.518	45	N GND VER	.156+/-	.525
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	1.649+/-	.257
21	N BOT VER	.192+/-	.296	50	S TOP PER	.165+/-	.221
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	3.448+/-	.161
23	N HA 102'	4.717+/-	1.094	52	S TOP PAR	.179+/-	.171
24	N THC/Byron	3.378+/-	.144	53	N Ecolyzer-3	2.365+/-	.651
25	N WV 102'	193.688+/-	5.686	54	S TOP VER	.204+/-	.150
26	N NMHC/Byro	2.141+/-	.335	55	N Ecolyzer-4	3.401+/-	.606
27	N Gnd Temp	45.882+/-	3.881	56	S GND PER	.154+/-	.074
28	N CH4/Byron	2.232+/-	.110	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	182.143+/-	8.017	58	S GND PAR	.142+/-	.064
30	N CD/Byron	1.953+/-	.527	59	N Rel Hum	80.785+/-	.694
31	N 74' Temp	45.133+/-	3.901	60	S GND VER	.151+/-	.072
32	N CD2/Byron	434.340+/-	5.087	61	N Solar Rad	20.301+/-	13.235
35	N HA 74'	2.210+/-	3.427	64	S VA 55'	.224+/-	.141

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	1.81+/-	.77	204.3+/-	27.7	8.5+/-	23.6
02	17	19	21	.92+/-	.57	204.3+/-	43.3	15.9+/-	24.2
03	38	40	42	.88+/-	.30	223.0+/-	35.3	68.0+/-	14.3
04	41	43	45	1.92+/-	1.11	140.2+/-	44.1	6.5+/-	22.3
05	50	52	54	.38+/-	.24	228.8+/-	28.2	35.6+/-	23.1
06	56	58	60	.28+/-	.07	223.6+/-	19.4	33.7+/-	15.6



UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.93+/-	.82	213.3+/-	24.6	9.2+/-	24.2
02	17	18	21	.91+/-	.52	211.6+/-	41.4	15.4+/-	22.9
03	38	40	42	.89+/-	.34	224.2+/-	35.2	68.4+/-	15.1
04	41	43	45	1.88+/-	1.10	146.8+/-	42.9	4.9+/-	22.5
05	50	52	54	.37+/-	.17	231.3+/-	25.3	35.6+/-	25.7
06	56	58	60	.28+/-	.07	222.7+/-	20.0	35.7+/-	14.3

Average for 15 minute period ending at 22:45:00  
 Traffic Data  
 Total Traffic = 984 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	56.9	79	52.9	73	57.0	24	59.8	7	50.5
Cat2	27	58.5	63	55.9	60	57.7	45	58.6	49	49.4
Cat3	0	.0	13	57.4	8	58.4	3	64.4	1	46.2
Cat4	1	55.6	2	62.0	0	.0	2	54.5	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	63.6	59	57.6	54	59.5	28	55.5	7	44.8
Cat2	112	64.7	75	57.6	58	58.9	32	58.2	12	46.3
Cat3	8	65.2	6	61.8	4	64.0	1	52.6	0	.0
Cat4	3	64.4	3	62.6	1	68.1	1	67.4	1	52.9
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	393	39.9	58.2	533	54.2	60.3	44	4.5	61.3	14	1.4	0	0	.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.795+/-	.825	37	N VA 102'	.276+/-	1.583
12	N Dasibi CO	2.441+/-	.356	38	S BOT PER	.181+/-	.154
13	N TOP PAR	.701+/-	.631	39	N VA 74'	.207+/-	.383
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	.164+/-	.143
15	N TOP VER	.150+/-	.571	41	N GND PER	.914+/-	1.320
16	N NDX/TECD	*****+/-*****		42	S BOT VER	.753+/-	.310
17	N BOT PER	.715+/-	.727	43	N GND PAR	-1.080+/-	1.249
19	N BOT PAR	.300+/-	.651	45	N GND VER	.157+/-	.564
20	N NO2/TECD	*****+/-*****		49	N Ecolyzer-1	1.881+/-	.231
21	N BOT VER	.144+/-	.384	50	S TOP PER	.224+/-	.304
22	N NO/TECD	*****+/-*****		51	N Ecolyzer-2	3.516+/-	.123
23	N HA 102'	5.068+/-	1.085	52	S TOP PAR	.133+/-	.118
24	N THC/Byron	3.247+/-	.143	53	N Ecolyzer-3	2.193+/-	.554
25	N WV 102'	193.780+/-	5.190	54	S TOP VER	.214+/-	.140
26	N NMHC/Byro	2.164+/-	.359	55	N Ecolyzer-4	3.224+/-	.581
27	N Gnd Temp	45.687+/-	4.337	56	S GND PER	.153+/-	.076
28	N CH4/Byron	2.138+/-	.090	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	182.801+/-	8.091	58	S GND PAR	.134+/-	.066
30	N CO/Byron	1.461+/-	.333	59	N Rel Hum	80.655+/-	.881
31	N 74' Temp	44.833+/-	4.452	60	S GND VER	.137+/-	.076
32	N CO2/Byron	434.945+/-	3.229	61	N Solar Rad	22.481+/-	14.836
35	N HA 74'	2.894+/-	3.197	64	S VA 55'	.236+/-	.147

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.12+/-	.80	200.4+/-	22.3	5.2+/-	21.2
02	17	18	21	1.12+/-	.67	203.8+/-	43.1	11.9+/-	23.4
03	38	40	42	.83+/-	.29	221.7+/-	34.1	65.2+/-	14.5
04	41	43	45	2.07+/-	1.18	130.2+/-	44.4	7.9+/-	23.2
05	50	52	54	.40+/-	.29	221.1+/-	28.5	38.6+/-	22.7
06	56	58	60	.27+/-	.07	222.3+/-	20.9	31.1+/-	16.6

Average for 15 minute period ending at 23:00:00  
 Traffic Data  
 Total Traffic = 912 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	55.5	69	53.4	64	56.6	19	59.0	7	48.8
Cat2	27	57.2	55	58.0	31	58.0	32	58.9	44	50.2
Cat3	4	58.4	11	60.3	1	52.6	0	.0	1	56.2
Cat4	1	59.1	0	.0	0	.0	0	.0	2	51.3
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	63.3	75	56.8	61	57.9	16	56.5	5	44.5
Cat2	111	64.6	77	58.6	52	57.8	29	58.4	5	44.8
Cat3	3	68.4	8	58.5	3	55.8	0	.0	0	.0
Cat4	4	66.3	1	57.3	0	.0	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	380	41.7	58.5	493	54.1	59.6	31	3.4	60.8	8	.9	0	0	.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.142+/-	.742	37	N VA 102'	.666+/-	1.830
12	N Dasibi CO	2.592+/-	.371	38	S BOT PER	.175+/-	.155
13	N TOP PAR	.540+/-	.635	39	N VA 74'	.194+/-	.384
14	N Dasibi O3	.016+/-	.001	40	S BOT PAR	.162+/-	.136
15	N TOP VER	.234+/-	.473	41	N GND PER	.962+/-	1.353
16	N NDX/TECD	*****+/-*****		42	S BOT VER	.870+/-	.380
17	N BOT PER	.555+/-	.570	43	N GND PAR	-.771+/-	1.204
19	N BOT PAR	.177+/-	.519	45	N GND VER	.123+/-	.500
20	N NO2/TECD	*****+/-*****		49	N Ecolyzer-1	1.614+/-	.252
21	N BOT VER	.205+/-	.305	50	S TOP PER	.138+/-	.173
22	N NO/TECD	*****+/-*****		51	N Ecolyzer-2	3.556+/-	.126
23	N HA 102'	4.340+/-	1.080	52	S TOP PAR	.255+/-	.246
24	N THC/Byron	3.418+/-	.049	53	N Ecolyzer-3	2.411+/-	.635
25	N WV 102'	192.505+/-	6.377	54	S TOP VER	.203+/-	.156
26	N NMHC/Byro	2.264+/-	.416	55	N Ecolyzer-4	3.371+/-	.629
27	N Gnd Temp	45.406+/-	3.484	56	S GND PER	.162+/-	.080

23:01:43 -- NCO 1 OFFLINE GRD  
 23:02:10 -- BEGIN END CALIB NCO-2 GRD  
 23:05:38 -- BEGIN END CAL NCO-3 GRD  
 23:07:08 -- NCO-2 IS OFF LINE  
 23:08:56 -- BEGIN END CAL NCO -4  
 23:17:22 -- NCO-4 IS OFF LINE GRD

Average for 15 minute period ending at 23:15:00  
 Traffic Data  
 Total Traffic = 508 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	62.7	69	55.9	73	57.9	21	57.2	4	46.4
Cat2	128	64.8	74	58.3	44	60.4	21	60.4	10	45.8
Cat3	3	65.2	9	57.8	4	57.7	1	58.1	0	0
Cat4	0	0	2	57.8	7	60.0	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	205	40.4	61.3	277	54.5	59.1	17	3.3	59.5	9	1.8	0	0	0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.844+/-	.683	37	N VA 102'	.335+/-	1.744
12	N Dasibi CO	2.439+/-	.200	38	S BOT PER	.218+/-	.209
13	N TOP PAR	1.589+/-	.473	39	N VA 74'	.179+/-	.393
14	N Dasibi O3	.014+/-	.001	40	S BOT PAR	.164+/-	.148
15	N TOP VER	.219+/-	.478	41	N GND PER	1.351+/-	1.111
16	N NOX/TECO	*****	*****	42	S BOT VER	.815+/-	.384
17	N BOT PER	.778+/-	.751	43	N GND PAR	.249+/-	.977
19	N BOT PAR	1.092+/-	.547	45	N GND VER	.154+/-	.510
20	N NO2/TECO	*****	*****	49	N Ecolyzer-1	*****	*****
21	N BOT VER	.224+/-	.210	50	S TOP PER	.140+/-	.083
22	N NO/TECO	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	6.252+/-	.928	52	S TOP PAR	.534+/-	.251
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	*****	*****
25	N WV 102'	204.792+/-	5.011	54	S TOP VER	.187+/-	.158
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	3.235+/-	.559
27	N Gnd Temp	46.188+/-	3.542	56	S GND PER	.147+/-	.073
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	192.486+/-	8.418	58	S GND PAR	.138+/-	.067
30	N CO/Byron	*****	*****	59	N Rel Hum	80.182+/-	.543
31	N 74' Temp	45.719+/-	4.028	60	S GND VER	.140+/-	.079
32	N CO2/Byron	*****	*****	61	N Solar Rad	30.474+/-	29.152
35	N HA 74'	2.889+/-	3.595	64	S VA 55'	.215+/-	.147

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.54+/- .65	221.9+/- 11.9	5.9+/- 12.9
02	17 19 21	1.54+/- .62	239.2+/- 28.8	9.9+/- 11.7
03	38 40 42	.91+/- .36	219.6+/- 35.5	63.5+/- 18.0
04	41 43 45	1.85+/- .96	193.4+/- 40.2	5.8+/- 21.4
05	50 52 54	.62+/- .24	253.5+/- 13.9	19.5+/- 17.1
06	56 58 60	.27+/- .07	223.9+/- 20.8	32.4+/- 17.0

Average for 15 minute period ending at 23:30:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****	*****	37	N VA 102'	*****	*****
12	N Dasibi CO	*****	*****	38	S BOT PER	*****	*****
13	N TOP PAR	*****	*****	39	N VA 74'	*****	*****
14	N Dasibi O3	*****	*****	40	S BOT PAR	*****	*****
15	N TOP VER	*****	*****	41	N GND PER	*****	*****
16	N NOX/TECO	*****	*****	42	S BOT VER	*****	*****
17	N BOT PER	*****	*****	43	N GND PAR	*****	*****
19	N BOT PAR	*****	*****	45	N GND VER	*****	*****
20	N NO2/TECO	*****	*****	49	N Ecolyzer-1	*****	*****
21	N BOT VER	*****	*****	50	S TOP PER	*****	*****
22	N NO/TECO	*****	*****	51	N Ecolyzer-2	*****	*****
23	N HA 102'	*****	*****	52	S TOP PAR	*****	*****
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	*****	*****
25	N WV 102'	*****	*****	54	S TOP VER	*****	*****
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	*****	*****	56	S GND PER	*****	*****
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	*****	*****
29	N WV 74'	*****	*****	58	S GND PAR	*****	*****
30	N CO/Byron	*****	*****	59	N Rel Hum	*****	*****
31	N 74' Temp	*****	*****	60	S GND VER	*****	*****
32	N CO2/Byron	*****	*****	61	N Solar Rad	*****	*****

<u>UVW Vector Calculations</u>						
<u>UVW</u>	<u>Channels</u>			<u>Vector Sum (mph)</u>	<u>Bearing Deg AZ</u>	<u>Elevation Angle (Deg)</u>
01	11	13	15	*****+/-*****	-21.4+/- 13.2	247.4+/-*****
02	17	19	21	54.86+/-*****	-29.6+/- 25.7	460.0+/-*****
03	38	40	42	29.65+/-27.44	-16.2+/- 15.6	*****+/-*****
04	41	43	45	59.24+/-*****	-12.0+/- 13.5	129.3+/-*****
05	50	52	54	21.27+/-18.64	-28.1+/- 25.1	985.6+/-*****
06	56	58	60	9.57+/- 2.74	-22.0+/- 16.6	*****+/-*****

Average for 15 minute period ending at 23:45:00  
 Average for 15 minute period ending at 24:00:00  
 Average for hourly period ending at 24:00:00

Traffic Data  
 Total Traffic : 0 vehicles averaging .0 mph

Westbound Traffic

	<u>Radar 1</u>		<u>Radar 3</u>		<u>Radar 5</u>		<u>Radar 7</u>		<u>Radar 9</u>	
	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	<u>Radar 2</u>		<u>Radar 4</u>		<u>Radar 6</u>		<u>Radar 8</u>		<u>Radar 10</u>	
	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>	<u>No.</u>	<u>Spd.</u>
Cat 1	****	****	****	****	****	****	****	****	****	****
Cat 2	****	****	****	****	****	****	****	****	****	****
Cat 3	****	****	****	****	****	****	****	****	****	****
Cat 4	****	****	****	****	****	****	****	****	****	****
Cat 5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

<u>Spd.</u>	<u>CAT 1</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 2</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 3</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 4</u>	<u>%</u>	<u>Spd.</u>	<u>CAT 5</u>	<u>%</u>
<u>Total</u>	<u>Total</u>		<u>Total</u>	<u>Total</u>		<u>Total</u>	<u>Total</u>		<u>Total</u>	<u>Total</u>		<u>Total</u>	<u>Total</u>	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>	<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi C0	*****+/-*****	ppm	38	S BDY PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	ppm
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N C0/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
<u>UVW</u>	<u>Channels</u>			<u>Vector Sum (mph)</u>	<u>Bearing Deg AZ</u>	<u>Elevation Angle (Deg)</u>
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	18:00:00	1113 vehicles
02	14:00:00	1289 vehicles
03	17:00:00	1362 vehicles
04	18:00:00	1613 vehicles
05	18:00:00	1292 vehicles
06	18:00:00	1563 vehicles
07	18:00:00	926 vehicles
08	17:00:00	863 vehicles
09	17:00:00	875 vehicles
10	17:00:00	591 vehicles
11	11:00:00	2.560 mph
12	20:00:00	5.866 ppm
13	16:00:00	2.636 mph
14	15:00:00	.022 ppm
15	12:00:00	.389 mph
16	00:00:00	.000 ppm
17	16:00:00	1.413 mph
19	16:00:00	2.095 mph
20	00:00:00	.000 ppm
21	19:00:00	.411 mph
22	00:00:00	.000 ppm
23	21:00:00	5.453 mph
24	20:00:00	5.022 ppm
25	13:00:00	233.766 DEGR A2
26	20:00:00	4.156 ppm
27	15:00:00	62.303 DEGR F
28	20:00:00	2.541 ppm
29	13:00:00	219.028 DEGR A2
30	20:00:00	6.286 ppm
31	16:00:00	58.383 DEGR F
32	20:00:00	528.741 ppm
35	16:00:00	4.293 mph
37	13:00:00	.631 mph
38	11:00:00	1.672 mph
39	13:00:00	.336 mph
40	15:00:00	1.461 mph
41	18:00:00	1.818 mph
42	23:00:00	.822 mph
43	13:00:00	.844 mph
45	17:00:00	.233 mph
49	20:00:00	4.387 ppm
50	11:00:00	1.967 mph
51	20:00:00	8.068 ppm
52	15:00:00	1.633 mph
53	19:00:00	6.088 ppm
54	12:00:00	.472 mph
55	19:00:00	7.554 ppm
56	11:00:00	.701 mph
57	20:00:00	7.496 ppm
58	13:00:00	.548 mph
59	23:00:00	80.785 %
60	12:00:00	.250 mph
61	13:00:00	591.022 W/m**2
64	11:00:00	.498 mph

NOTE: All times in the maximums are ending times for the interval

\*\*\*\*\* CHANGE IN SYSTEM CONFIGURATION \*\*\*\*\*  
 Date = 1984.343 Time = 0 seconds after midnight Channel affected = 51  
 New Configuration for channel:  
 Old calibration cnst = 50.00 Old offset = .00 New calibration cnst = 100.00 New offset = .00

10:43:01 -- 12/08/84  
 10:43:02 -- Data run of Saturday 12/08/84. Operators are Michael Hlavinka and Guy Donaldson.  
 10:43:03 -- Sky is clear with a few cirrus clouds. Winds are light and southerly. Will have  
 10:43:04 -- one ecolyzer and the DASIBI CO in AEDAS and BYRON, DASIBI CO, and five ecolyzers  
 10:43:05 -- on north side of freeway. CO-5 developed a bad cell last night. This is the 8th  
 10:43:06 -- file of tape ZX1320. May try to get NOX online today.  
 10:43:12 -- TURNING DN BYRON AND DASIBI CO  
 10:44:01 -- WILL BRING NORTH ECOL. ON LINE GRD  
 10:44:20 -- READ ZERDS OF ECOL. GRD  
 10:54:02 -- BEGIN CAL. NCD-4

Average for 15 minute period ending at 10:15:00  
 Average for 15 minute period ending at 10:30:00  
 Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TDP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	ppm	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 1704 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	58.5	86	54.5	85	59.8	36	61.4	4	50.2
Cat2	64	59.9	110	56.5	105	60.1	106	50.3	74	50.4
Cat3	8	61.3	12	60.3	7	58.7	4	82.3	4	45.7
Cat4	6	65.6	9	61.5	4	61.2	2	67.6	1	38.6
Cat5	3	82.0	1	57.3	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	63.8	65	59.5	87	60.2	52	58.9	25	45.4
Cat2	151	64.6	166	61.3	124	60.4	67	60.5	50	46.6
Cat3	6	63.2	22	62.7	14	60.7	6	61.3	0	0
Cat4	5	65.8	11	63.7	10	61.6	0	0	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.8	552	32.4	59.3	1017	59.7	60.7	83	4.9	62.7	48	2.8	60.8	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.535+/-	2.940	37	N VA 102'	559+/-	1.917
12	N Dasibi CO	1.428+/-	.302	38	S BOT PER	2.962+/-	1.678
13	N TOP PAR	2.576+/-	2.178	39	N VA 74'	.264+/-	1.434
14	N Dasibi O3	.023+/-	.005	40	S BOT PAR	*****+/-*****	ppm
15	N TOP VER	.367+/-	1.256	41	N GND PER	2.347+/-	1.722
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.278+/-	.865

17	N BDT PER	3.291+/-	2.315	mph	43	N GND PAR	1.112+/-	2.685	mph
19	N BDT PAR	1.958+/-	2.088	mph	45	N GND VER	.221+/-	.835	mph
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BDT VER	.301+/-	1.217	mph	50	S TOP PER	3.664+/-	2.168	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	8.135+/-	2.722	mph	52	S TOP PAR	1.841+/-	2.227	mph
24	N THC/Byron	2.552+/-	.163	ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	202.605+/-	23.802	DEGR AZ	54	S TOP VER	.354+/-	1.033	mph
26	N NMHC/Byro	2.203+/-	.243	ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	69.793+/-	2.530	DEGR F	56	S GND PER	1.529+/-	1.322	mph
28	N CH4/Byron	1.879+/-	.268	ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	190.032+/-	24.028	DEGR AZ	58	S GND PAR	.010+/-	1.359	mph
30	N CO/Byron	1.159+/-	.123	ppm	59	N Rel Hum	60.609+/-	.529	%
31	N 74' Temp	53.749+/-	2.767	DEGR F	60	S GND VER	.197+/-	.710	mph
32	N CO2/Byron	405.634+/-	9.252	ppm	61	N Solar Rad	499.077+/-	7.994	W/m**=2
35	N HA 74'	6.822+/-	2.964	mph	64	S VA 55'	.613+/-	1.326	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.95+/- 2.62	213.1+/- 26.7	6.4+/- 16.1
02	17 19 21	4.64+/- 2.08	213.3+/- 31.7	6.0+/- 17.9
03	38 40 42	*****+/-*****	-11.9+/- 11.2	475.4+/-*****
04	41 43 45	3.79+/- 1.80	205.9+/- 41.1	5.4+/- 16.3
05	50 52 54	4.67+/- 2.41	203.7+/- 26.9	10.5+/- 20.2
06	56 58 60	2.18+/- 1.32	185.2+/- 39.3	10.2+/- 25.1

Average for hourly period ending at 11:00:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**=2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

11:03:56 -- END CAL. NCO-4  
 11:04:14 -- BEG. CAL. NCO-3  
 11:11:49 -- END CAL. NCO-3  
 11:14:38 -- READ TECO NOX ZEROS  
 11:16:39 -- WILL TRY PROGRAM RESTART  
 11:20:16 -- 12/08/84  
 11:20:17 -- This is a program restart. Printing problems in earlier run. Will continue to  
 11:20:18 -- read TECO NOX zeros. Hopefully this will go as one file in ZX1320. (Merged  
 11:20:19 -- with earlier run)  
 11:22:25 -- Returned all insts to previous positions. MWH  
 11:24:44 -- Will replace CO-2 with spare ecolyzer. Reads higher than all others  
 11:27:04 -- ALL PREVIOUS DATA FOR CH 57 IS INVALID  
 11:29:10 -- READ ZERO FOR CH 57  
 11:34:37 -- END CALIB OF CH 49  
 11:44:06 -- PLACING CO-5 ONLINE  
 11:51:32 -- CO-2 IS BEING REPLACED. MUST MULTIPLY ALL SUBSEQUENT VALUES FOR THIS INST BY 2.0

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1675 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	58.0	80	55.3	73	58.7	32	59.9	2	50.8
Cat2	50	60.4	98	57.4	105	59.4	111	59.7	77	51.8
Cat3	6	60.6	19	59.7	7	58.2	9	61.2	3	52.3
Cat4	5	61.8	7	58.0	5	59.6	1	63.1	0	.0
Cat5	0	.0	2	62.6	0	.0	0	.0	1	46.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	62.8	79	59.7	77	60.2	60	59.0	24	45.5
Cat2	147	55.4	148	61.5	117	61.5	65	60.4	43	48.0
Cat3	6	63.5	20	61.5	17	62.0	3	57.5	0	.0
Cat4	4	64.0	9	65.0	6	66.1	3	65.3	0	.0
Cat5	2	67.9	0	.0	1	70.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	578	34.5	59.7	961	57.4	60.5	90	5.4	62.0	40	2.4	63.0	6	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.148+/-	2.583	37	N VA 102'	.032+/-	1.776
12	N Dasibi CO	1.289+/-	.355	38	S BOT PER	1.796+/-	1.813
13	N TOP PAR	6.135+/-	2.130	39	N VA 74'	-.416+/-	1.588
14	N Dasibi O3	.025+/-	.006	40	S BOT PAR	*****+/-*****	
15	N TOP VER	-.016+/-	1.562	41	N GND PER	2.652+/-	2.275
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.442+/-	1.023
17	N BOT PER	4.472+/-	2.989	43	N GND PAR	3.857+/-	2.669
19	N BOT PAR	5.515+/-	1.950	45	N GND VER	.207+/-	.999
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.136+/-	1.437	50	S TOP PER	2.508+/-	2.216
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	11.875+/-	2.977	52	S TOP PAR	2.418+/-	2.033
24	N THC/Byron	2.151+/-	.082	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	220.481+/-	13.221	54	S TOP VER	.652+/-	1.340
26	N NMHC/Byrn	2.406+/-	.493	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	69.066+/-	2.970	56	S GND PER	.926+/-	1.455
28	N CH4/Byron	1.441+/-	.059	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	210.030+/-	15.099	58	S GND PAR	.691+/-	1.571
30	N CO/Byron	1.042+/-	.256	59	N Ref HUM	61.972+/-	.891
31	N 74' Temp	64.292+/-	3.126	60	S GND VER	-.270+/-	.889
32	N CD2/Byron	393.171+/-	8.811	61	N Solar Rad	526.015+/-	10.426
35	N HA 74'	8.804+/-	2.979	64	S VA 55'	.541+/-	1.598

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.45+/- 2.51	231.3+/- 15.5	1.2+/- 12.0
02	17 19 21	7.66+/- 2.54	233.0+/- 20.1	1.9+/- 12.0
03	38 40 42	.00+/- .00	.0+/- .0	.0+/- .0
04	41 43 45	5.50+/- 2.47	231.7+/- 28.5	3.3+/- 13.6
05	50 52 54	4.32+/- 2.18	226.5+/- 31.8	15.8+/- 24.4
06	56 58 60	2.12+/- 1.51	221.8+/- 41.6	15.3+/- 32.6

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 1264 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	57.8	54	55.4	72	58.6	25	58.9	4	49.8
Cat2	40	62.2	80	56.9	92	60.1	78	59.4	56	51.4
Cat3	2	64.0	11	56.8	11	59.7	5	61.9	2	45.3
Cat4	4	65.2	3	62.6	2	57.0	4	67.2	3	49.0
Cat5	2	66.8	2	68.8	1	58.2	1	46.6	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	64.4	52	59.5	50	60.6	37	58.4	19	45.8
Cat2	103	65.9	107	62.2	90	62.0	39	60.9	34	46.3
Cat3	5	67.0	24	63.5	13	61.4	4	58.9	2	48.0
Cat4	5	72.3	6	64.4	7	63.6	1	59.1	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	425	33.6	59.9	719	56.9	60.7	79	6.2	63.7	35	2.8	61.3	6	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.801+/-	1.901	37	N VA 102'	.218+/-	1.482
12	N Dasibi CO	1.244+/-	.273	38	S BOT PER	1.556+/-	1.816
13	N TOP PAR	4.880+/-	1.825	39	N VA 74'	-.391+/-	1.460
14	N Dasibi O3	*****+/-*****		40	S BOT PAR	*****+/-*****	
15	N TOP VER	-.003+/-	1.349	41	N GND PER	2.474+/-	1.831
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.450+/-	.773
17	N BOT PER	4.148+/-	2.323	43	N GND PAR	2.973+/-	2.330
19	N BOT PAR	4.399+/-	1.778	45	N GND VER	.128+/-	.784
20	N NO2/TECO	*****+/-*****		49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.098+/-	1.174	50	S TOP PER	2.236+/-	2.178
22	N ND/TECO	*****+/-*****		51	N Ecolyzer-2	*****+/-*****	

23	N HA 102'	9.921+/-	2.586	mph	52	S TOP PAR	2.027+/-	1.439	mph
24	N THC/Byron	*****+/-	*****	ppm	53	N Ecolyzer-3	*****+/-	*****	ppm
25	N WV 102'	218.037+/-	16.052	DEGR AZ	54	S TOP VER	.427+/-	1.135	ppm
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	*****+/-	*****	DEGR F	56	S GND PER	.589+/-	1.011	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	205.626+/-	15.110	DEGR AZ	58	S GND PAR	.414+/-	1.256	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rsl Hum	*****+/-	*****	%
31	N 74' Temp	*****+/-	*****	DEGR F	60	S GND VER	.255+/-	.716	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	*****+/-	*****	W/m**2
35	N HA 74'	7.648+/-	2.740	mph	64	S VA 55'	.616+/-	1.403	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	7.21+/-	1.88	226.1+/-	14.4	1.3+/-	12.7
02	17	19	21	6.48+/-	2.12	228.2+/-	20.5	2.6+/-	13.3
03	38	40	42	2.90+/-	1.88	212.2+/-	39.0	14.4+/-	26.7
04	41	43	45	4.51+/-	1.99	228.4+/-	29.8	2.8+/-	14.5
05	50	52	54	3.71+/-	1.90	227.1+/-	31.1	12.6+/-	26.2
06	56	58	60	1.52+/-	1.17	216.4+/-	41.3	18.2+/-	37.6

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 1692 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	59.4	83	55.9	103	59.0	42	50.1	5	52.7
Cat2	65	61.1	116	57.4	117	60.2	112	61.0	65	52.2
Cat3	6	63.5	15	59.2	10	59.0	4	60.6	2	49.3
Cat4	0	.0	6	59.9	1	58.7	3	60.5	2	50.7
Cat5	2	67.4	2	68.2	0	.0	2	65.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	63.8	71	60.0	64	61.0	53	57.5	23	46.0
Cat2	165	65.4	136	61.7	116	61.0	66	60.6	45	46.9
Cat3	5	65.6	19	63.6	16	61.9	3	61.0	0	.0
Cat4	6	70.5	3	64.4	7	61.3	0	.0	0	.0
Cat5	0	.0	2	68.7	1	68.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	572	33.8	60.1	1003	59.3	61.4	80	4.7	62.4	28	1.7	67.5	9	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.701+/-	2.028	37	N VA 102'	.521+/-	1.625
12	N Dasibi CO	1.359+/-	.395	38	S BOT PER	2.193+/-	1.786
13	N TOP PAR	4.787+/-	1.812	39	N VA 74'	-.080+/-	1.403
14	N Dasibi O3	.019+/-	.005	40	S BOT PAR	1.548+/-	1.727
15	N TOP VER	.258+/-	1.233	41	N GND PER	2.525+/-	2.053
16	N NDX/TECO	*****+/-	*****	42	S BOT VER	.207+/-	1.006
17	N BOT PER	3.545+/-	1.915	43	N GND PAR	3.083+/-	2.128
19	N BOT PAR	4.309+/-	1.603	45	N GND VER	.249+/-	.710
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.213+/-	1.130	50	S TOP PER	3.112+/-	1.849
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	8.996+/-	2.594	52	S TOP PAR	2.734+/-	1.757
24	N THC/Byron	2.210+/-	.087	53	N Ecolyzer-3	1.210+/-	1.460
25	N WV 102'	222.859+/-	16.046	54	S TOP VER	.169+/-	1.048
26	N NMHC/Byro	2.052+/-	.502	55	N Ecolyzer-4	1.249+/-	1.475
27	N Gnd Temp	71.148+/-	3.563	56	S GND PER	1.131+/-	1.519
28	N CH4/Byron	1.409+/-	.064	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	210.310+/-	16.880	58	S GND PAR	.483+/-	1.259
30	N CO/Byron	.648+/-	.571	59	N Rsl Hum	58.150+/-	5.27
31	N 74' Temp	67.787+/-	3.310	60	S GND VER	.132+/-	.836
32	N CO2/Byron	401.870+/-	3.814	61	N Solar Rad	574.014+/-	6.764
35	N HA 74'	6.872+/-	2.823	64	S VA 55'	.198+/-	1.353

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	6.46+/-	1.95	233.4+/-	17.2	3.7+/-	13.0
02	17	19	21	5.96+/-	1.79	231.8+/-	17.5	3.1+/-	12.6
03	38	40	42	3.33+/-	1.84	214.2+/-	36.1	9.6+/-	24.2
04	41	43	45	4.64+/-	1.91	230.3+/-	29.6	4.7+/-	11.8
05	50	52	54	4.60+/-	1.90	221.2+/-	22.7	6.3+/-	18.6
06	56	58	60	2.06+/-	1.36	210.1+/-	39.4	8.2+/-	34.7

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 1700 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	60.3	74	56.0	102	58.7	33	61.4	4	53.3
Cat2	66	60.7	120	57.6	112	60.8	100	60.5	94	52.2
Cat3	6	61.9	24	60.1	12	59.1	10	64.5	4	47.4
Cat4	5	63.0	7	65.6	1	65.4	3	60.1	2	67.7
Cat5	0	.0	1	69.6	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	64.0	62	60.9	85	61.2	60	57.8	30	46.4
Cat2	146	65.8	131	61.9	113	61.8	72	60.3	44	47.0
Cat3	5	66.9	22	62.2	9	61.3	4	67.0	0	.0
Cat4	6	66.1	5	61.9	6	64.3	0	.0	0	.0
Cat5	2	70.0	0	.0	2	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	566	33.3	59.9	998	58.7	60.8	96	5.6	64.2	35	2.1	66.5	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.817+/-	2.746	37	N VA 102'	.236+/-	1.416
12	N Dasibi CO	1.242+/-	.295	38	S BOT PER	3.721+/-	2.761
13	N TOP PAR	3.431+/-	2.128	39	N VA 74'	-.037+/-	1.273



14	N Dasibi 03	.029+/-	.006	ppm	40	S BOT PAR	1.302+/-	1.777	mph
15	N TOP VER	.002+/-	1.465	mph	41	N GND PER	2.893+/-	1.982	mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.287+/-	.898	mph
17	N BOT PER	4.977+/-	2.878	mph	43	N GND PAR	1.032+/-	3.009	mph
19	N BOT PAR	2.915+/-	2.285	mph	45	N GND VER	.188+/-	.994	mph
20	N NO2/TECO	*****+/-*****		ppm	49	N Ecolyzer-1	.713+/-	.237	ppm
21	N BOT VER	.015+/-	1.175	mph	50	S TOP PER	5.354+/-	3.206	mph
22	N NO/TECO	*****+/-*****		ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	9.980+/-	2.517	mph	52	S TOP PAR	3.008+/-	2.089	mph
24	N THC/Byron	2.255+/-	.155	ppm	53	N Ecolyzer-3	.919+/-	.392	ppm
25	N WV 102'	205.521+/-	18.313	DEGR AZ	54	S TOP VER	.081+/-	1.214	mph
26	N NMHC/Byro	2.342+/-	.060	ppm	55	N Ecolyzer-4	.972+/-	.275	ppm
27	N Gnd Temp	71.878+/-	2.839	DEGR F	56	S GND PER	1.491+/-	1.639	mph
28	N CH4/Byron	1.549+/-	.111	ppm	57	N Ecolyzer-5	1.374+/-	.897	ppm
29	N WV 74'	191.899+/-	19.848	DEGR AZ	58	S GND PAR	.208+/-	1.460	mph
30	N CD/Byron	.905+/-	.361	ppm	59	N Re1 Hum	57.189+/-	.733	%
31	N 74' Temp	67.318+/-	2.306	DEGR F	60	S GND VER	.192+/-	1.039	mph
32	N CD2/Byron	397.329+/-	9.855	ppm	61	N Solar Rad	587.275+/-	3.071	W/m**2
35	N HA 74'	7.957+/-	2.970	mph	64	S VA 55'	.142+/-	1.423	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.37+/- 2.34	212.8+/- 20.6	1.6+/- 13.6
02	17 19 21	6.49+/- 2.43	212.8+/- 26.6	1.8+/- 12.8
03	38 40 42	2.66+/- 2.62	245.0+/- 46.4	2.2+/- 7.4
04	41 43 45	4.43+/- 1.93	198.7+/- 40.8	4.0+/- 15.6
05	50 52 54	6.65+/- 3.10	212.2+/- 21.5	4.1+/- 16.5
06	56 58 60	2.40+/- 1.55	194.1+/- 42.6	12.5+/- 32.1

Average for hourly period ending at 12:00:00  
Traffic Data  
 Total Traffic = 6331 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	197	59.0	291	55.7	350	58.8	132	60.2	15	51.8
Cat2	221	61.0	414	57.4	426	60.1	401	60.2	292	52.0
Cat3	20	62.2	89	59.3	40	59.1	28	62.4	11	48.7
Cat4	14	63.2	23	61.4	9	59.5	11	63.1	7	54.8
Cat5	4	67.1	7	65.8	1	58.2	3	59.0	1	46.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	310	63.7	264	60.0	276	60.8	210	58.2	96	46.0
Cat2	561	65.6	522	61.8	436	61.5	242	60.5	166	47.1
Cat3	21	65.6	85	62.7	55	61.7	14	58.5	2	48.0
Cat4	21	68.4	23	64.1	26	63.7	4	56.3	0	.0
Cat5	4	69.0	2	68.7	4	65.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	2141	33.8	59.9	3681	58.1	60.9	345	5.4	63.1	138	2.2	64.9	26	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.871+/- 2.492	mph	37	N VA 102'	.254+/- 1.594	mph
12	N Dasibi CO	1.286+/- .340	ppm	38	S BOT PER	2.367+/- 2.262	mph
13	N TOP PAR	4.803+/- 2.218	mph	39	N VA 74'	.221+/- 1.442	mph
14	N Dasibi 03	.024+/- .006	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	.065+/- 1.413	mph	41	N GND PER	2.700+/- 2.058	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.340+/- .944	mph
17	N BOT PER	4.295+/- 2.629	mph	43	N GND PAR	2.720+/- 2.781	mph
19	N BOT PAR	4.277+/- 2.143	mph	45	N GND VER	.197+/- .886	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.117+/- 1.238	mph	50	S TOP PER	3.374+/- 2.722	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.206+/- 2.864	mph	52	S TOP PAR	2.581+/- 1.800	mph
24	N THC/Byron	2.182+/- .124	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	218.704+/- 17.277	DEGR AZ	54	S TOP VER	.326+/- 1.212	mph
26	N NMHC/Byro	2.261+/- .416	ppm	55	N Ecolyzer-4	1.159+/- .390	ppm
27	N Gnd Temp	70.844+/- 3.215	DEGR F	56	S GND PER	1.064+/- 1.481	mph
28	N CH4/Byron	1.457+/- .096	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	204.488+/- 18.437	DEGR AZ	58	S GND PAR	.451+/- 1.410	mph
30	N CD/Byron	.915+/- .441	ppm	59	N Re1 Hum	59.217+/- 2.033	%
31	N 74' Temp	66.442+/- 3.138	DEGR F	60	S GND VER	.210+/- .887	mph
32	N CD2/Byron	398.489+/- 8.324	ppm	61	N Solar Rad	562.229+/- 25.023	W/m**2
35	N HA 74'	7.832+/- 2.970	mph	64	S VA 55'	.358+/- 1.461	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.39+/- 2.32	226.0+/- 18.9	2.0+/- 12.9
02	17 19 21	6.66+/- 2.33	226.6+/- 22.8	2.3+/- 12.6
03	38 40 42	2.97+/- 2.22	223.3+/- 42.4	8.0+/- 21.0
04	41 43 45	4.79+/- 2.13	223.2+/- 34.6	3.8+/- 13.9
05	50 52 54	4.89+/- 2.59	221.2+/- 27.5	9.5+/- 22.0
06	56 58 60	2.06+/- 1.45	210.4+/- 41.8	13.2+/- 34.2

12:07:08 -- IGNORE ALL PREVIOUS CAL DATA FOR CH 51  
 12:07:58 -- READ ZERO ON CH 51  
 12:13:43 -- READ TECO NOX SPANS  
 12:21:43 -- ALL NORTH SIDE ECDL, CAL, AND DN LINE  
 12:26:29 -- WILL TRY ANOTHER PROGRAM RESTART CONTINUING THE SAME FILE.  
 12:29:39 -- 12/0a/84  
 12:29:40 -- THIS IS A PROGRAM RESTART 2ND TIME TODAY  
 12:31:22 -- THIS RESTART WAS MERGED IN THE SAME FILE AS ALL OTHER DATA FOR THIS DATE  
 12:43:20 -- BEGIN RECAL. NCO-4  
 12:49:00 -- BAD ZERO DRIFT IN NCO-4

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 1750 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	58.6	80	55.5	87	58.3	34	60.0	1	52.3
Cat2	55	59.8	123	56.4	111	59.1	110	60.1	101	52.2
Cat3	9	63.0	17	58.4	9	58.2	7	59.4	1	46.4
Cat4	7	65.8	7	64.9	2	61.3	1	65.3	2	53.3
Cat5	0	.0	1	66.3	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	64.4	79	60.5	87	62.0	57	57.9	31	47.3
Cat2	158	66.0	173	61.6	129	62.1	48	60.8	55	47.5
Cat3	8	67.5	20	62.4	7	65.2	0	.0	1	44.7
Cat4	6	65.6	7	66.7	4	70.6	1	59.3	1	54.9
Cat5	0	.0	0	.0	3	70.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	566	32.3	59.5	1063	60.7	61.4	79	4.5	64.9	38	2.2	69.6	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.904+/-	2.575	37	N VA 102'	.160+/-	1.532
12	N Dasibi CD	1.104+/-	.295	38	S BOT PER	3.653+/-	2.328
13	N TOP PAR	4.004+/-	2.783	39	N VA 74'	-.425+/-	1.554
14	N Dasibi O3	-.030+/-	-.004	40	S BOT PAR	1.735+/-	1.902
15	N TOP VER	-.138+/-	1.569	41	N GND PER	3.361+/-	2.230
16	N NOX/TECO	*****+/-*****		42	S BOT VER	-.107+/-	.766
17	N BOT PER	5.623+/-	2.727	43	N GND PAR	1.927+/-	3.047
19	N BOT PAR	3.429+/-	2.702	45	N GND VER	-.010+/-	1.085
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	.713+/-	.224
21	N BOT VER	-.104+/-	1.355	50	S TOP PER	4.665+/-	2.793
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	10.775+/-	2.185	52	S TOP PAR	3.018+/-	2.020
24	N THC/Byron	2.337+/-	.050	53	N EcoLyzer-3	.756+/-	.389
25	N WV 102'	209.256+/-	16.971	54	S TOP VER	-.120+/-	.881
26	N NMHC/Byro	2.511+/-	.149	55	N EcoLyzer-4	1.003+/-	.431
27	N Gnd Temp	72.659+/-	2.517	56	S GND PER	1.478+/-	1.395
28	N CH4/Byron	1.661+/-	.116	57	N EcoLyzer-5	1.384+/-	.839
29	N WV 74'	186.637+/-	19.854	58	S GND PAR	.452+/-	1.485
30	N CO/Byron	.931+/-	.365	59	N Rot Hum	55.533+/-	.489
31	N 74' Temp	67.839+/-	2.673	60	S GND VER	.181+/-	.891
32	N CO2/Byron	386.419+/-	9.758	61	N Solar Rad	585.413+/-	10.270
35	N HA 74'	9.078+/-	2.807	64	S VA 55'	-.098+/-	1.370

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.89+/- 2.31	214.3+/- 23.0	.7+/- 13.0
02	17 19 21	7.37+/- 2.36	211.2+/- 25.1	1.6+/- 13.5
03	38 40 42	4.52+/- 2.34	205.7+/- 26.0	4.3+/- 15.0
04	41 43 45	5.05+/- 2.22	205.5+/- 37.6	1.8+/- 15.8
05	50 52 54	5.99+/- 2.80	216.0+/- 22.3	3.0+/- 16.7
06	56 58 60	2.35+/- 1.36	203.0+/- 40.1	11.1+/- 29.6

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1575 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	58.0	74	54.6	77	59.6	39	61.1	3	50.0
Cat2	47	59.8	108	57.2	113	60.3	91	62.5	82	52.6
Cat3	4	65.3	10	60.8	7	61.4	3	59.8	1	40.8
Cat4	6	65.7	4	67.4	0	.0	1	65.8	0	.0
Cat5	0	.0	0	.0	1	58.9	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	64.5	50	60.5	65	61.0	40	57.0	27	47.7
Cat2	165	65.7	161	61.5	118	61.7	58	59.7	35	47.0
Cat3	13	67.3	21	64.1	7	65.3	2	60.8	1	51.5
Cat4	7	70.3	7	63.5	9	67.1	0	.0	0	.0
Cat5	1	66.3	1	65.2	1	70.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	490	31.1	60.3	978	62.1	63.3	69	4.4	66.8	34	2.2	65.3	4	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.746+/-	2.694	37	N VA 102'	.104+/-	1.740
12	N Dasibi CD	1.091+/-	.304	38	S BOT PER	2.536+/-	2.314
13	N TOP PAR	4.647+/-	2.868	39	N VA 74'	-.151+/-	1.783
14	N Dasibi O3	.027+/-	-.004	40	S BOT PAR	1.861+/-	1.800
15	N TOP VER	.212+/-	1.659	41	N GND PER	3.284+/-	2.251
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.306+/-	.771
17	N BOT PER	5.444+/-	2.562	43	N GND PAR	2.295+/-	3.067
19	N BOT PAR	3.754+/-	2.719	45	N GND VER	.032+/-	.937
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	.580+/-	.461
21	N BOT VER	.126+/-	1.354	50	S TOP PER	3.846+/-	2.589
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	11.210+/-	3.573	52	S TOP PAR	3.262+/-	2.168
24	N THC/Byron	2.137+/-	.114	53	N EcoLyzer-3	.809+/-	.449
25	N WV 102'	211.565+/-	18.162	54	S TOP VER	.146+/-	1.052
26	N NMHC/Byro	2.414+/-	.136	55	N EcoLyzer-4	1.016+/-	.371
27	N Gnd Temp	72.783+/-	2.679	56	S GND PER	.966+/-	1.392
28	N CH4/Byron	1.288+/-	.273	57	N EcoLyzer-5	1.348+/-	1.030

29	N WV 74'	199.387+/-	21.419	DEGR A2	58	S GND PAR	.430+/-	1.185	mph
30	N CO/Byron	1.097+/-	.236	ppm	59	N Rel Hum	55.203+/-	.800	%
31	N 74' Temp	67.312+/-	2.091	DEGR F	60	S GND VER	.250+/-	.888	mph
32	N CO2/Byron	390.612+/-	4.471	ppm	61	N Solar Rad	580.985+/-	5.910	W/m <sup>2</sup>
35	N HA 74'	8.483+/-	3.428	mph	64	S VA 55'	.188+/-	1.328	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	8.13+/-	2.59	220.1+/-	22.3	2.9+/-	13.1
02	17	19	21	7.29+/-	2.51	215.4+/-	23.4	2.9+/-	13.2
03	38	40	42	3.76+/-	2.07	212.0+/-	34.9	8.4+/-	17.6
04	41	43	45	5.19+/-	2.11	213.7+/-	37.1	2.4+/-	14.0
05	50	52	54	5.45+/-	2.61	223.8+/-	23.5	6.3+/-	19.1
06	56	58	60	1.85+/-	1.37	209.5+/-	40.0	18.9+/-	33.4

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 1781 vehicles averaging 60.1 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	58.2	79	54.9	87	59.0	38	59.1	0	.0
Cat2	55	60.8	111	56.2	113	59.6	115	60.5	77	52.7
Cat3	8	64.8	16	61.1	13	57.5	7	62.7	4	55.6
Cat4	7	68.2	6	57.2	3	60.1	8	65.1	0	.0
Cat5	0	.0	2	61.6	0	.0	0	.0	3	51.5

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	65.2	70	60.3	91	60.9	63	57.9	21	48.0
Cat2	176	66.9	168	62.2	121	62.2	61	60.8	53	48.6
Cat3	6	67.1	22	63.2	18	62.3	3	54.9	3	49.2
Cat4	2	65.4	9	67.1	7	61.9	2	60.8	0	.0
Cat5	1	69.9	1	66.3	1	73.3	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.0	581	32.6	60.4	1050	59.0	61.2	98	5.5	63.5	44	2.5	60.9	8	.4

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.534+/-	2.482	mph	37	N VA 102'	.085+/-	1.608	mph		
12	N Dasibi CO	1.105+/-	.204	ppm	38	S BOT PER	1.817+/-	2.565	mph		
13	N TDP PAR	5.281+/-	2.894	ppm	39	N VA 74'	- .411+/-	1.442	mph		
14	N Dasibi O3	.025+/-	.004	ppm	40	S BOT PAR	1.930+/-	2.132	mph		
15	N TDP VER	.077+/-	1.122	mph	41	N GND PER	2.596+/-	2.201	mph		
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.288+/-	.914	mph		
17	N BOT PER	4.225+/-	2.527	mph	43	N GND PAR	3.354+/-	3.387	mph		
19	N BOT PAR	4.759+/-	2.809	mph	45	N GND VER	.168+/-	.892	mph		
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	.530+/-	.269	ppm		
21	N BOT VER	-.012+/-	1.034	mph	50	S TDP PER	2.700+/-	2.653	mph		
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	1.279+/-	.200	ppm		
23	N HA 102'	10.328+/-	2.926	mph	52	S TDP PAR	3.356+/-	2.376	mph		
24	N THC/Byron	2.187+/-	.070	ppm	53	N EcoLyzer-3	.709+/-	.490	ppm		
25	N WV 102'	220.597+/-	20.290	DEGR A2	54	S TDP VER	.168+/-	1.267	mph		
26	N NMHC/Byro	3.206+/-	.342	ppm	55	N EcoLyzer-4	1.002+/-	.422	ppm		
27	N Gnd Temp	73.258+/-	1.915	DEGR F	56	S GND PER	.644+/-	1.417	mph		
28	N CH4/Byron	1.332+/-	.159	ppm	57	N EcoLyzer-5	1.363+/-	.860	ppm		
29	N WV 74'	208.764+/-	21.023	DEGR A2	58	S GND PAR	.828+/-	1.708	mph		
30	N CO/Byron	.967+/-	.168	ppm	59	N Rel Hum	53.835+/-	.459	%		
31	N 74' Temp	69.611+/-	3.009	DEGR F	60	S GND VER	.092+/-	1.136	mph		
32	N CO2/Byron	400.098+/-	4.123	ppm	61	N Solar Rad	571.652+/-	6.628	W/m <sup>2</sup>		
35	N HA 74'	7.766+/-	3.254	mph	64	S VA 55'	.322+/-	1.683	mph		

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	7.55+/-	2.69	229.1+/-	20.5	2.3+/-	10.7
02	17	18	21	6.92+/-	2.80	228.1+/-	22.3	6+/-	11.7
03	38	40	42	3.79+/-	2.15	231.4+/-	42.9	8.3+/-	21.2
04	41	43	45	5.28+/-	2.68	229.4+/-	35.7	3.6+/-	12.3
05	50	52	54	5.13+/-	2.55	234.2+/-	27.9	8.5+/-	24.2
06	56	58	60	2.28+/-	1.44	229.6+/-	46.8	9.3+/-	39.0

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 1703 vehicles averaging 59.5 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	58.7	76	55.2	98	57.9	40	60.0	3	56.6
Cat2	47	61.0	115	56.7	109	59.9	88	60.8	77	51.2
Cat3	5	58.3	12	58.7	10	58.8	3	65.1	5	47.6
Cat4	2	85.5	2	61.9	2	61.1	5	58.2	6	48.0
Cat5	1	89.3	2	64.8	0	.0	1	58.4	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	64.4	70	60.5	79	61.4	47	57.6	24	45.8
Cat2	172	65.6	161	61.3	121	61.3	64	59.8	51	47.7
Cat3	3	68.0	22	61.6	12	62.8	9	60.3	1	48.4
Cat4	8	68.9	8	60.2	15	64.8	0	.0	0	.0
Cat5	2	65.5	1	62.5	3	61.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	558	32.8	59.7	1005	59.0	60.0	82	4.8	61.7	48	2.8	63.4	10	.6

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.858+/-	2.554	mph	37	N VA 102'	1.079+/-	2.207	mph		
12	N Dasibi CO	1.337+/-	.359	ppm	38	S BOT PER	1.876+/-	2.656	mph		
13	N TDP PAR	6.304+/-	2.288	ppm	39	N VA 74'	.527+/-	1.657	mph		
14	N Dasibi O3	.024+/-	.006	ppm	40	S BOT PAR	2.854+/-	2.202	mph		
15	N TDP VER	.757+/-	1.435	mph	41	N GND PER	2.468+/-	2.268	mph		
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.252+/-	1.061	mph		
17	N BOT PER	3.230+/-	2.661	mph	43	N GND PAR	4.234+/-	2.331	mph		
19	N BOT PAR	5.708+/-	2.382	mph	45	N GND VER	.233+/-	.903	mph		
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	.759+/-	.310	ppm		

21	N BDT VER	.852+/-	1.308	mph	50	S TOP PER	2.836+/-	2.156	mph
22	N ND/TECD	*****+/-	*****	ppm	51	N EcoLyzr-2	1.503+/-	.296	ppm
23	N HA 102'	10.156+/-	2.778	ppm	52	S TOP PAR	4.040+/-	2.375	ppm
24	N THC/Byron	2.071+/-	.081	ppm	53	N EcoLyzr-3	1.111+/-	.833	ppm
25	N WV 102'	238.132+/-	15.540	DEGR AZ	54	S TOP VER	.235+/-	1.349	mph
26	N NMHC/Byro	2.040+/-	.427	ppm	55	N EcoLyzr-4	*****+/-	*****	ppm
27	N Gnd Temp	73.701+/-	2.742	DEGR F	56	S GND PER	.590+/-	1.755	mph
28	N CH4/Byron	1.316+/-	.049	ppm	57	N EcoLyzr-5	1.603+/-	.853	ppm
29	N WV 74'	225.068+/-	17.553	DEGR AZ	58	S GND PAR	1.012+/-	1.520	mph
30	N CO/Byron	1.026+/-	.250	ppm	59	N Rel Hum	52.337+/-	.980	%
31	N 74' Temp	71.799+/-	3.079	DEGR F	60	S GND VER	.185+/-	.796	mph
32	N CO2/Byron	408.728+/-	3.827	ppm	61	N Solar Rad	562.705+/-	4.408	W/m**2
35	N HA 74'	8.130+/-	3.074	mph	64	S VA 55'	.091+/-	1.575	mph

UWV Vector Calculations										
UWV	Channels				Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11	13	15		7.56+/-	2.27	245.9+/-	19.0	7.4+/-	13.5
02	17	19	21		7.18+/-	2.52	241.2+/-	20.8	6.8+/-	14.5
03	38	40	42		4.26+/-	2.42	239.5+/-	35.7	6.2+/-	18.0
04	41	43	45		5.48+/-	2.31	239.5+/-	27.2	3.8+/-	12.2
05	50	52	54		5.13+/-	2.64	239.4+/-	20.5	6.2+/-	18.3
06	56	58	60		2.27+/-	1.50	237.8+/-	46.0	10.6+/-	25.3

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 6809 vehicles averaging 59.8 mpn

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	200	58.4	309	55.1	349	58.6	151	60.0	7	53.2
Cat2	204	60.3	457	56.6	446	59.7	404	60.9	337	52.2
Cat3	24	62.8	55	60.0	39	58.7	20	61.5	11	49.8
Cat4	22	65.8	19	62.7	7	60.7	15	62.8	8	49.3
Cat5	1	69.3	5	63.9	1	58.9	1	58.4	3	51.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	258	64.6	269	60.4	342	61.3	207	57.6	103	47.2
Cat2	671	66.1	663	61.7	489	61.9	231	60.2	194	47.8
Cat3	30	67.4	85	62.8	44	63.3	14	59.2	6	48.7
Cat4	23	68.1	31	64.4	35	65.5	3	60.3	1	54.9
Cat5	4	66.8	3	64.7	8	67.4	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
58.9	2195	32.2	60.0	4096	60.2	61.4	328	4.8	64.0	164	2.4	63.9	26	.4

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	4.724+/-	2.844	mph	37	N VA 102'	.365+/-	1.838	mph
12	N Dasibi CD	1.161+/-	.313	ppm	38	S BDT PER	2.414+/-	2.596	mph
13	N TOP PAR	5.075+/-	2.842	ppm	39	N VA 74'	.114+/-	1.653	mph
14	N Dasibi D3	.027+/-	.005	ppm	40	S BDT PAR	2.058+/-	2.075	mph
15	N TOP VER	.227+/-	1.487	mph	41	N GND PER	2.913+/-	2.268	mph
16	N ND/TECD	*****+/-	*****	ppm	42	S BDT VER	.235+/-	.892	mph
17	N BDT PER	4.599+/-	2.792	mph	43	N GND PAR	2.978+/-	3.112	mph
19	N BDT PAR	4.438+/-	2.799	mph	45	N GND VER	.109+/-	.961	mph
20	N ND2/TECD	*****+/-	*****	ppm	48	N EcoLyzr-1	.648+/-	.337	ppm
21	N BDT VER	.166+/-	1.298	mph	50	S TOP PER	3.400+/-	2.687	mph
22	N ND/TECD	*****+/-	*****	ppm	51	N EcoLyzr-2	*****+/-	*****	ppm
23	N HA 102'	10.598+/-	2.906	ppm	52	S TOP PAR	3.424+/-	2.275	ppm
24	N THC/Byron	2.185+/-	.127	ppm	53	N EcoLyzr-3	.847+/-	.524	ppm
25	N WV 102'	219.636+/-	20.431	DEGR AZ	54	S TOP VER	.106+/-	1.182	mph
26	N NMHC/Byro	2.550+/-	.523	ppm	55	N EcoLyzr-4	*****+/-	*****	ppm
27	N Gnd Temp	73.117+/-	2.443	DEGR F	56	S GND PER	.917+/-	1.540	mph
28	N CH4/Byron	1.405+/-	.221	ppm	57	N EcoLyzr-5	1.422+/-	.899	ppm
29	N WV 74'	207.760+/-	22.502	DEGR AZ	58	S GND PAR	.690+/-	1.517	mph
30	N CO/Byron	1.001+/-	.266	ppm	59	N Rel Hum	54.440+/-	1.750	%
31	N 74' Temp	69.236+/-	3.224	DEGR F	60	S GND VER	.174+/-	.939	mph
32	N CO2/Byron	396.772+/-	10.865	ppm	61	N Solar Rad	574.884+/-	11.372	W/m**2
35	N HA 74'	8.360+/-	3.172	mph	64	S VA 55'	.124+/-	1.506	mph

UWV Vector Calculations										
UWV	Channels				Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11	13	15		7.77+/-	2.47	227.7+/-	23.9	3.3+/-	12.8
02	17	19	21		7.19+/-	2.55	224.4+/-	25.3	3.0+/-	13.4
03	38	40	42		4.10+/-	2.27	221.5+/-	37.3	6.8+/-	18.1
04	41	43	45		5.25+/-	2.35	223.1+/-	36.2	2.9+/-	13.7
05	50	52	54		5.47+/-	2.67	228.5+/-	25.1	6.0+/-	19.9
06	56	58	60		2.20+/-	1.43	219.0+/-	44.5	12.2+/-	32.3

13:01:03 -- END CAL. NCO-4 GRD  
 13:01:15 -- BEGIN CALIB. NCO-3  
 13:07:04 -- PLACING TECO ONLINE  
 13:12:55 -- END CAL. NCO-3  
 13:13:08 -- BEGIN CAL. NCO-1 GRD  
 13:25:50 -- END CAL. NCO-1  
 13:26:41 -- BEGIN RECAL NCO-5  
 13:37:18 -- END CAL. NCO-5  
 13:37:33 -- BEGIN CAL. NCO-2  
 13:47:33 -- NCO-2 HAS MORE NOISE THAN THE OTHER ECOL. GRD  
 13:56:18 -- END CAL. NCO-2 GRD  
 13:57:13 -- END CAL. RUN ALL NCO'S ONLINE GRD

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1678 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	55.3	66	54.8	82	58.2	37	60.4	2	52.7
Cat2	68	61.4	113	56.3	126	59.7	95	59.9	90	51.6
Cat3	3	59.7	22	60.4	8	61.3	6	59.1	3	58.9
Cat4	4	65.0	3	64.6	4	57.0	6	62.5	4	52.4
Cat5	3	69.3	3	66.0	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	65.2	74	61.3	74	62.1	57	58.8	24	48.9
Cat2	163	65.3	141	62.2	136	61.9	45	60.8	29	47.9
Cat3	4	66.9	20	63.2	16	61.7	3	57.6	1	47.6
Cat4	8	70.8	9	64.5	10	63.9	0	0	0	0
Cat5	0	0	1	65.8	3	60.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.4	527	31.4	60.2	1007	60.0	61.3	86	5.1	63.6	48	2.9	65.2	10	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.935+/-	2.518 mph	37	N VA 102'	.800+/-	1.700 mph
12	N Dasibi CD	1.105+/-	.244 ppm	38	S BOT PER	2.465+/-	2.700 mph
13	N TOP PAR	6.796+/-	2.736 mph	39	N VA 74'	4.418+/-	1.577 mph
14	N Dasibi D3	.028+/-	.008 ppm	40	S BOT PAR	2.473+/-	2.083 mph
15	N TOP VER	.610+/-	1.404 mph	41	N GND PER	1.994+/-	2.099 mph
16	N NOX/TECO	*****+/-	***** ppm	42	S BOT VER	.132+/-	1.081 mph
17	N BOT PER	2.808+/-	2.404 mph	43	N GND PAR	4.414+/-	2.769 mph
18	N BOT PAR	6.096+/-	2.603 ppm	45	N GND VER	.336+/-	.855 ppm
20	N ND2/TECO	*****+/-	***** ppm	49	N EcoLyzer-1	.565+/-	.247 mph
21	N BOT VER	.628+/-	1.260 mph	50	S TOP PER	3.267+/-	2.772 ppm
22	N ND/TECO	*****+/-	***** ppm	51	N EcoLyzer-2	1.356+/-	.230 ppm
23	N HA 102'	10.316+/-	2.293 ppm	52	S TOP PAR	3.675+/-	2.128 mph
24	N THC/Byron	2.106+/-	.078 ppm	53	N EcoLyzer-3	*****+/-	***** ppm
25	N WV 102'	236.709+/-	17.334 DEGR AZ	54	S TOP VER	.162+/-	1.461 mph
26	N NMHC/Byro	2.369+/-	.225 ppm	55	N EcoLyzer-4	1.342+/-	.377 ppm
27	N Gnd Temp	73.864+/-	1.569 DEGR F	56	S GND PER	.979+/-	1.953 mph
28	N CH4/Byron	1.407+/-	.100 ppm	57	N EcoLyzer-5	.622+/-	.685 ppm
29	N WV 74'	224.078+/-	17.656 DEGR AZ	58	S GND PAR	.965+/-	1.589 mph
30	N CO/Byron	.563+/-	.100 ppm	59	N Rel Hum	51.865+/-	.430 %
31	N 74' Temp	70.992+/-	3.063 DEGR F	60	S GND VER	.082+/-	1.156 mph
32	N CO2/Byron	400.179+/-	6.309 ppm	61	N Solar Rad	544.993+/-	20.026 W/m==2
35	N HA 74'	9.262+/-	3.519 mph	64	S VA 55'	.079+/-	1.718 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.03+/- 2.52	245.5+/- 19.5	5.1+/- 11.4
02	17 19 21	7.32+/- 2.44	244.0+/- 19.6	5.9+/- 12.7
03	38 40 42	4.35+/- 2.45	226.9+/- 34.1	6.2+/- 19.3
04	41 43 45	5.53+/- 2.40	241.6+/- 29.4	5.1+/- 10.9
05	50 52 54	5.48+/- 2.78	230.6+/- 24.9	7.9+/- 24.7
06	56 58 60	2.45+/- 1.88	230.3+/- 41.4	10.0+/- 34.4

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 1746 vehicles averaging 60.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	60.4	73	54.7	98	58.8	49	59.9	2	52.8
Cat2	62	62.4	136	57.0	107	60.4	102	61.4	77	52.6
Cat3	8	62.7	19	60.2	8	58.4	8	59.7	1	46.3
Cat4	4	64.5	4	64.8	1	58.9	2	52.5	3	50.6
Cat5	2	67.9	2	63.9	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	65.5	74	60.7	72	61.7	58	58.1	23	49.8
Cat2	177	68.5	158	62.2	117	62.8	74	59.9	30	48.6
Cat3	6	69.0	29	62.9	22	63.9	1	60.1	0	0
Cat4	11	68.7	5	63.2	8	65.0	1	60.5	0	0
Cat5	0	0	1	63.6	7	64.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.3	553	31.7	60.8	1040	59.6	62.2	102	5.8	63.7	39	2.2	64.7	12	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.888+/-	2.083 mph	37	N VA 102'	.297+/-	1.475 mph
12	N Dasibi CD	1.116+/-	.266 ppm	38	S BOT PER	1.179+/-	2.247 mph
13	N TOP PAR	6.035+/-	2.532 mph	39	N VA 74'	.133+/-	1.406 mph
14	N Dasibi D3	.032+/-	.008 ppm	40	S BOT PAR	2.832+/-	2.357 mph
15	N TOP VER	.533+/-	1.277 mph	41	N GND PER	2.473+/-	2.181 mph
16	N NOX/TECO	.116+/-	.049 ppm	42	S BOT VER	.179+/-	.823 mph
17	N BOT PER	2.782+/-	2.049 mph	43	N GND PAR	4.272+/-	2.361 mph
18	N BOT PAR	5.326+/-	2.275 ppm	45	N GND VER	.241+/-	.805 ppm
20	N ND2/TECO	.025+/-	.007 ppm	49	N EcoLyzer-1	*****+/-	***** ppm
21	N BOT VER	.546+/-	1.084 mph	50	S TOP PER	1.832+/-	2.196 mph
22	N ND/TECO	.080+/-	.045 ppm	51	N EcoLyzer-2	1.396+/-	.301 ppm
23	N HA 102'	10.198+/-	2.704 ppm	52	S TOP PAR	4.312+/-	2.376 ppm
24	N THC/Byron	2.044+/-	.072 ppm	53	N EcoLyzer-3	1.400+/-	.510 ppm
25	N WV 102'	237.937+/-	17.737 DEGR AZ	54	S TOP VER	-.045+/-	1.326 mph
26	N NMHC/Byro	2.014+/-	.131 ppm	55	N EcoLyzer-4	1.381+/-	.497 ppm

27	N Gnd Temp	73.910+/-	2.674	DEGR F	56	S GND PER	.157+/-	1.530	mph
28	N CH4/Byron	1.319+/-	.117	ppm	57	N EcoLyzer-5	.744+/-	.737	ppm
29	N WV 74'	226.001+/-	18.585	DEGR AZ	58	S GND PAR	1.443+/-	1.622	mph
30	N CO/Byron	.362+/-	.233	ppm	59	N Rel Hum	52.874+/-	.632	%
31	N 74' Temp	70.731+/-	2.786	DEGR F	60	S GND VER	.209+/-	.843	mph
32	N CO2/Byron	382.267+/-	6.479	ppm	61	N Solar Rad	513.792+/-	11.737	W/m**2
35	N HA 74'	8.631+/-	3.868	mph	64	S VA 55'	.202+/-	1.518	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.17+/- 2.45	244.0+/- 17.6	6.2+/- 12.7		
02	17 19 21	6.49+/- 2.20	241.8+/- 18.8	6.7+/- 13.1		
03	38 40 42	3.97+/- 2.21	238.9+/- 36.7	4.0+/- 13.7		
04	41 43 45	5.47+/- 2.33	238.5+/- 26.5	3.9+/- 10.3		
05	50 52 54	5.35+/- 2.35	244.1+/- 23.4	1.9+/- 17.7		
06	56 58 60	2.34+/- 1.55	247.0+/- 42.3	15.7+/- 32.6		

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 1691 vehicles averaging 60.1 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	45	59.2	78	55.0	85	58.8	45	60.1	5	48.4
Cat2	61	60.4	118	56.9	126	60.1	90	59.7	88	52.0
Cat3	9	61.5	11	60.0	6	58.4	2	57.8	4	52.6
Cat4	1	66.9	12	63.1	3	59.5	0	.0	3	49.2
Cat5	0	.0	1	70.1	2	61.3	0	.0	0	.0

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	68	65.1	56	61.3	84	61.1	53	58.1	20	46.7
Cat2	170	66.3	154	62.7	134	62.3	43	60.2	33	46.8
Cat3	8	65.6	25	62.5	15	60.5	3	65.9	1	48.8
Cat4	5	68.7	10	61.4	9	65.0	1	56.0	0	.0
Cat5	0	.0	1	63.7	3	64.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.2	539	31.9	60.3	1017	60.1	61.1	84	5.0	62.5	44	2.6	64.2	7	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.275+/-	2.255	37	N VA 102'	.346+/-	1.567
12	N Dasibi CO	1.074+/-	.314	38	S BOT PER	1.537+/-	1.952
13	N TOP PAR	4.646+/-	1.774	39	N VA 74'	.151+/-	1.452
14	N Dasibi D3	.033+/-	.009	40	S BOT PAR	1.587+/-	1.699
15	N TOP VER	.173+/-	1.392	41	N GND PER	2.178+/-	1.684
16	N NDX/TECO	.115+/-	.042	42	S BOT VER	.276+/-	1.010
17	N BOT PER	3.196+/-	2.195	43	N GND PAR	2.851+/-	2.579
19	N BOT PAR	4.183+/-	1.675	45	N GND VER	.118+/-	.817
20	N ND2/TECO	.026+/-	.006	49	N EcoLyzer-1	.856+/-	.238
21	N BOT VER	.123+/-	1.153	50	S TOP PER	2.565+/-	2.164
22	N ND/TECO	.088+/-	.039	51	N EcoLyzer-2	*****	*****
23	N HA 102'	8.622+/-	2.773	52	S TOP PAR	2.494+/-	1.876
24	N THC/Byron	2.013+/-	.082	53	N EcoLyzer-3	1.222+/-	.504
25	N WV 102'	224.174+/-	18.578	54	S TOP VER	.462+/-	1.203
26	N NMHC/Byro	2.107+/-	.114	55	N EcoLyzer-4	1.227+/-	.475
27	N Gnd Temp	74.848+/-	1.741	56	S GND PER	.584+/-	1.210
28	N CH4/Byron	1.365+/-	.083	57	N EcoLyzer-5	*****	*****
29	N WV 74'	215.127+/-	21.113	58	S GND PAR	.534+/-	1.699
30	N CO/Byron	.342+/-	.146	59	N Rel Hum	52.190+/-	.596
31	N 74' Temp	70.809+/-	2.035	60	S GND VER	.356+/-	.713
32	N CO2/Byron	394.317+/-	6.052	61	N Solar Rad	533.185+/-	8.892
35	N HA 74'	6.477+/-	2.499	64	S VA 55'	.405+/-	1.222

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	6.14+/- 2.17	238.2+/- 18.0	4.4+/- 17.5		
02	17 19 21	5.68+/- 2.15	235.7+/- 18.6	4.3+/- 16.8		
03	38 40 42	3.18+/- 1.59	225.5+/- 40.2	9.1+/- 23.6		
04	41 43 45	4.38+/- 1.95	230.2+/- 34.9	3.0+/- 15.1		
05	50 52 54	4.32+/- 1.99	227.2+/- 25.8	11.7+/- 23.1		
06	56 58 60	1.99+/- 1.29	220.5+/- 47.0	19.1+/- 29.9		

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 1710 vehicles averaging 60.2 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	60	59.4	73	55.2	96	59.5	37	60.7	4	57.1
Cat2	56	60.8	118	56.9	114	60.7	108	60.8	70	53.3
Cat3	4	62.6	14	60.1	11	61.1	3	62.9	5	53.9
Cat4	7	64.8	2	61.8	1	62.8	0	.0	3	50.5
Cat5	1	59.8	1	60.7	0	.0	0	.0	0	.0

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	70	64.8	79	60.9	74	61.5	58	58.2	26	47.5
Cat2	162	65.6	152	61.8	137	61.2	54	61.2	39	49.3
Cat3	5	68.5	23	63.3	14	61.9	3	59.6	0	.0
Cat4	6	65.4	8	64.5	9	62.4	0	.0	0	.0
Cat5	1	60.7	2	60.8	2	65.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.4	577	33.7	60.4	1008	58.9	61.7	82	4.8	62.8	36	2.1	62.0	7	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.404+/-	2.261	37	N VA 102'	.390+/-	1.253
12	N Dasibi CO	1.248+/-	.376	38	S BOT PER	1.490+/-	1.800
13	N TOP PAR	3.444+/-	1.895	39	N VA 74'	-.004+/-	1.253
14	N Dasibi D3	.030+/-	.007	40	S BOT PAR	.704+/-	1.388
15	N TOP VER	.320+/-	1.280	41	N GND PER	1.603+/-	1.838
16	N NDX/TECO	.131+/-	.060	42	S BOT VER	.331+/-	.590
17	N BOT PER	2.682+/-	1.941	43	N GND PAR	1.956+/-	2.301

19	N BDT PAR	3.117+/-	1.872	mph	45	N GND VER	.132+/-	690	mph
20	N ND2/TECO	.026+/-	.005	ppm	48	N Ecolyzer-1	.766+/-	298	ppm
21	N BDT VER	.282+/-	1.114	mph	50	S TOP PER	1.561+/-	1.642	mph
22	N NO/TECO	.104+/-	.059	ppm	51	N Ecolyzer-2	*****+*****		ppm
23	N HA 102'	7.577+/-	2.091	mph	52	S TOP PAR	1.057+/-	1.547	mph
24	N THC/Byron	1.939+/-	.091	ppm	53	N Ecolyzer-3	1.309+/-	.504	ppm
25	N WV 102'	215.910+/-	23.367	DEGR AZ	54	S TOP VER	.676+/-	.980	mph
26	N NMHC/Byro	1.690+/-	.313	ppm	55	N Ecolyzer-4	1.201+/-	.492	ppm
27	N Gnd Temp	75.734+/-	3.048	DEGR F	56	S GND PER	.698+/-	1.085	mph
28	N CH4/Byron	1.418+/-	.111	ppm	57	N Ecolyzer-5	1.324+/-	.823	ppm
29	N WV 74'	207.714+/-	23.206	DEGR AZ	58	S GND PAR	1.25+/-	1.073	mph
30	N CD/Byron	.357+/-	.163	ppm	59	N Rel Hum	51.865+/-	.431	%
31	N 74' Temp	71.228+/-	1.970	DEGR F	60	S GND VER	.133+/-	.250	mph
32	N CD2/Byron	382.837+/-	4.906	ppm	61	N Solar Rad	419.417+/-	64.262	W/m**2
35	N HA 74'	6.434+/-	2.327	mph	64	S VA 55'	.703+/-	1.061	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11	13	15	5.62+/-	1.51	227.4+/-	26.1	4.9+/-	15.8
02	17	19	21	4.75+/-	1.70	229.5+/-	26.4	4.8+/-	15.5
03	38	40	42	2.53+/-	1.39	210.6+/-	44.5	11.9+/-	19.4
04	41	43	45	3.64+/-	1.51	227.2+/-	42.0	6.1+/-	15.1
05	50	52	54	2.83+/-	1.42	214.2+/-	41.1	20.9+/-	27.6
06	56	58	60	1.26+/-	1.14	205.0+/-	44.1	14.9+/-	18.7

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8825 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	214	59.6	290	54.9	361	58.8	168	60.2	13	52.4
Cat 2	247	61.3	483	56.8	473	60.2	395	60.5	325	52.3
Cat 3	24	61.9	66	60.2	33	60.0	19	59.8	13	54.1
Cat 4	16	64.9	21	63.5	9	58.7	8	60.0	13	50.8
Cat 5	6	67.2	7	65.2	2	61.3	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	244	65.1	283	61.0	304	61.6	226	58.2	93	48.2
Cat 2	672	66.2	605	62.2	524	62.0	217	60.5	131	48.2
Cat 3	23	66.9	97	63.0	67	62.2	10	61.0	2	48.3
Cat 4	30	68.6	32	63.3	36	64.0	2	58.3	0	.0
Cat 5	1	60.7	5	62.9	15	63.6	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5					
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total				
59.3	2196	60.4	4072	59.7	61.6	354	5.2	63.2	167	2.4	64.2	36	.5

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	3.125+/-	2.290	mph	37	N VA 102'	.458+/-	1.518	mph
12	N Oasibi CO	1.136+/-	.311	ppm	38	S BDT PER	1.668+/-	2.249	mph
13	N TOP PAR	5.231+/-	2.607	mph	39	N VA 74'	.099+/-	1.440	mph
14	N Oasibi O3	.031+/-	.008	ppm	40	S BDT PAR	1.899+/-	2.084	mph
15	N TOP VER	.409+/-	1.348	mph	41	N GND PER	2.062+/-	1.982	mph
16	N NOX/TECO	.123+/-	.051	ppm	42	S BDT VER	.230+/-	.898	mph
17	N BDT PER	2.867+/-	2.180	mph	43	N GND PAR	3.373+/-	2.706	mph
19	N BDT PAR	4.681+/-	2.434	mph	45	N GND VER	.207+/-	.798	ppm
20	N ND2/TECO	.025+/-	.006	ppm	48	N Ecolyzer-1	.772+/-	.310	ppm
21	N BDT VER	.395+/-	1.170	mph	50	S TOP PER	2.301+/-	2.320	ppm
22	N NO/TECO	.087+/-	.049	ppm	51	N Ecolyzer-2	*****+*****		ppm
23	N HA 102'	9.178+/-	2.727	mph	52	S TOP PAR	2.859+/-	2.347	mph
24	N THC/Byron	2.025+/-	.099	ppm	53	N Ecolyzer-3	1.296+/-	.510	ppm
25	N WV 102'	228.833+/-	21.166	DEGR AZ	54	S TOP VER	.314+/-	1.282	mph
26	N NMHC/Byro	2.045+/-	.320	ppm	55	N Ecolyzer-4	1.288+/-	.469	ppm
27	N Gnd Temp	74.594+/-	2.408	DEGR F	56	S GND PER	.604+/-	1.509	mph
28	N CH4/Byron	1.377+/-	.108	ppm	57	N Ecolyzer-5	.931+/-	.804	ppm
29	N WV 74'	218.348+/-	21.343	DEGR AZ	58	S GND PAR	.767+/-	1.591	mph
30	N CD/Byron	.406+/-	.187	ppm	59	N Rel Hum	52.198+/-	.661	%
31	N 74' Temp	70.940+/-	2.451	DEGR F	60	S GND VER	.195+/-	.841	mph
32	N CD2/Byron	389.900+/-	9.851	ppm	61	N Solar Rad	502.847+/-	60.100	W/m**2
35	N HA 74'	7.701+/-	3.364	mph	64	S VA 55'	.246+/-	1.441	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg Az		Elevation Angle (Deg)	
01	11	13	15	6.74+/-	2.39	238.9+/-	21.6	5.2+/-	14.5
02	17	19	21	6.07+/-	2.33	237.9+/-	21.7	5.4+/-	14.6
03	38	40	42	3.51+/-	2.08	226.2+/-	39.8	7.8+/-	19.5
04	41	43	45	4.75+/-	2.22	234.9+/-	34.3	4.0+/-	13.0
05	50	52	54	4.50+/-	2.43	230.0+/-	32.1	10.8+/-	24.5
06	56	58	60	2.01+/-	1.57	226.2+/-	44.8	14.9+/-	29.7

14:47:59 -- RECENT READINGS FOR NON METHANE HYDRO. LOOK BAD GRD  
 14:56:40 -- NMHC LOOKS BETTER NOW  
 14:57:26 -- DRIFT ON ZERO OF BYRON CAUSED NMHC TO BE OFF.

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 1711 vehicles averaging 60.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	58.8	80	55.9	74	59.1	46	61.1	3	52.1
Cat2	60	61.3	110	58.7	120	59.4	103	60.9	90	51.8
Cat3	10	59.8	22	60.7	11	60.7	5	66.8	6	52.9
Cat4	4	66.1	8	64.5	2	55.6	1	61.1	3	48.2
Cat5	0	.0	0	.0	0	.0	1	51.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	65.1	61	60.9	68	62.7	70	58.0	19	46.3
Cat2	160	66.5	172	62.5	142	63.2	48	61.2	32	48.4
Cat3	6	67.4	21	63.2	17	62.6	1	57.0	1	39.1
Cat4	5	71.4	4	63.4	3	70.2	1	60.7	0	.0
Cat5	0	.0	2	64.9	1	68.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.5	539	31.5	60.6	1037	60.6	61.4	100	5.8	63.8	31	1.8	62.4	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.189+/-	2.075	37	N VA 102'	.505+/-	1.422
12	N Dasibi CD	1.143+/-	.206	38	S BDT PER	1.812+/-	1.783
13	N TOP PAR	3.725+/-	1.919	39	N VA 74'	.251+/-	1.513
14	N Dasibi O3	.028+/-	.006	40	S BDT PAR	1.413+/-	1.681
15	N TOP VER	.432+/-	1.408	41	N GND PER	2.050+/-	1.961
16	N ND/TECO	.121+/-	.042	42	S BDT VER	.332+/-	.728
17	N BDT PER	2.529+/-	2.055	43	N GND PAR	1.851+/-	2.306
19	N BDT PAR	3.006+/-	1.813	45	N GND VER	.190+/-	.710
20	N ND2/TECO	.023+/-	.005	49	N EcoLyzer-1	.717+/-	.261
21	N BDT VER	.410+/-	1.240	50	S TOP PER	2.450+/-	2.077
22	N ND/TECO	.097+/-	.041	51	N EcoLyzer-2	.945+/-	.281
23	N HA 102'	7.982+/-	2.119	52	S TOP PAR	2.708+/-	2.015
24	N THC/Byron	2.079+/-	.070	53	N EcoLyzer-3	1.315+/-	.469
25	N WV 102'	222.078+/-	20.892	54	S TOP VER	.332+/-	1.138
26	N NMHC/Byro	7.082+/-	4.936	55	N EcoLyzer-4	1.044+/-	.389
27	N Gnd Temp	75.082+/-	1.930	56	S GND PER	.978+/-	1.358
28	N CH4/Byron	1.381+/-	.072	57	N EcoLyzer-5	1.278+/-	.712
29	N WV 74'	209.811+/-	23.006	58	S GND PAR	.411+/-	1.292
30	N CO/Byron	.311+/-	.314	59	N Rel Hum	51.148+/-	.460
31	N 74' Temp	71.669+/-	2.653	60	S GND VER	.108+/-	.527
32	N CO2/Byron	376.775+/-	5.141	61	N Solar Rad	338.622+/-	60.485
35	N HA 74'	6.565+/-	2.684	64	S VA 55'	.108+/-	1.193

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.57+/- 1.78	229.4+/- 23.0	6.9+/- 17.6
02	17 19 21	4.60+/- 1.88	232.1+/- 26.4	8.4+/- 20.0
03	38 40 42	2.99+/- 1.73	216.1+/- 37.7	10.3+/- 20.1
04	41 43 45	3.78+/- 1.73	216.6+/- 40.6	5.4+/- 15.1
05	50 52 54	4.34+/- 2.07	229.0+/- 30.4	10.3+/- 24.0
06	56 58 60	1.73+/- 1.39	209.5+/- 40.3	10.8+/- 20.3

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 1791 vehicles averaging 60.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	58.1	69	56.8	74	59.0	51	59.0	8	51.1
Cat2	56	61.1	101	56.4	139	59.6	101	60.2	86	51.6
Cat3	6	62.4	17	61.1	6	58.4	3	59.1	2	51.3
Cat4	4	64.3	6	63.4	1	65.9	0	.0	0	.0
Cat5	2	68.4	1	79.2	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	65.1	71	60.1	74	61.4	65	57.2	26	47.7
Cat2	174	66.8	190	62.9	141	61.6	66	59.7	36	47.1
Cat3	9	69.3	14	64.5	16	63.4	2	57.4	0	.0
Cat4	2	71.5	11	65.9	10	64.1	0	.0	0	.0
Cat5	1	68.9	3	64.6	3	64.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.2	580	32.4	60.4	1092	61.0	62.7	75	4.2	65.1	34	1.9	67.3	10	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.650+/-	2.366	37	N VA 102'	.629+/-	1.459
12	N Dasibi CD	1.188+/-	.332	38	S BDT PER	2.169+/-	2.355
13	N TOP PAR	4.325+/-	2.090	39	N VA 74'	.366+/-	1.490
14	N Dasibi O3	.028+/-	.006	40	S BDT PAR	1.337+/-	1.524
15	N TOP VER	.367+/-	1.330	41	N GND PER	2.128+/-	2.094
16	N ND/TECO	.130+/-	.049	42	S BDT VER	.278+/-	.786
17	N BDT PER	2.797+/-	2.105	43	N GND PAR	2.358+/-	2.594
19	N BDT PAR	3.827+/-	2.218	45	N GND VER	.158+/-	.844
20	N ND2/TECO	.022+/-	.005	49	N EcoLyzer-1	.721+/-	.269
21	N BDT VER	.307+/-	1.250	50	S TOP PER	2.847+/-	2.638
22	N ND/TECO	.107+/-	.047	51	N EcoLyzer-2	.949+/-	.374
23	N HA 102'	8.470+/-	2.386	52	S TOP PAR	2.192+/-	1.991
24	N THC/Byron	1.928+/-	.084	53	N EcoLyzer-3	1.307+/-	.630
25	N WV 102'	221.760+/-	21.166	54	S TOP VER	.242+/-	1.152
26	N NMHC/Byro	7.991+/-	4.097	55	N EcoLyzer-4	1.114+/-	.561
27	N Gnd Temp	74.353+/-	2.968	56	S GND PER	.998+/-	1.487
28	N CH4/Byron	1.335+/-	.124	57	N EcoLyzer-5	1.327+/-	.860
29	N WV 74'	209.767+/-	24.035	58	S GND PAR	.569+/-	1.045
30	N CO/Byron	.495+/-	.378	59	N Rel Hum	52.076+/-	.323
31	N 74' Temp	71.122+/-	1.837	60	S GND VER	.075+/-	.477
32	N CO2/Byron	378.603+/-	10.884	61	N Solar Rad	341.528+/-	52.051
35	N HA 74'	7.047+/-	2.706	64	S VA 55'	.451+/-	1.396



UVW	Channels			UVW Vector Calculations			Elevation Angle (Deg)
				Vector Sum (mph)	Bearing Deg AZ		
01	11	13	15	6.29+/-	2.06	230.4+/-	5.2+/- 14.3
02	17	19	21	5.40+/-	2.08	233.8+/-	4.8+/- 16.2
03	38	40	42	3.20+/-	2.19	215.2+/-	8.4+/- 20.2
04	41	43	45	4.18+/-	2.10	221.9+/-	3.6+/- 16.3
05	50	52	54	4.31+/-	2.57	221.5+/-	10.5+/- 25.6
06	56	58	60	1.69+/-	1.42	218.1+/-	11.4+/- 20.5

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 1665 vehicles averaging 60.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	57.7	84	56.2	83	58.9	33	58.9	10	51.1
Cat2	49	80.0	101	58.2	125	60.2	95	60.7	86	52.4
Cat3	4	60.5	9	61.1	9	61.1	8	60.4	3	53.6
Cat4	3	66.7	3	58.7	1	50.4	3	60.0	2	47.9
Cat5	0	.0	1	73.2	0	.0	1	67.3	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	66.2	58	61.9	83	62.3	54	58.5	15	47.7
Cat2	170	67.1	168	62.2	133	62.0	54	59.9	40	49.7
Cat3	3	67.4	16	60.4	12	62.7	3	70.6	0	.0
Cat4	5	67.5	7	64.8	5	65.6	0	.0	0	.0
Cat5	1	68.8	1	59.4	4	69.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.7	539	32.4	60.7	1022	61.4	61.5	67	4.0	62.8	29	1.7	68.2	8	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.748+/-	2.372	37	N VA 102'	.155+/-	1.466
12	N Dasibi CD	1.129+/-	.308	38	S BDT PER	3.082+/-	2.371
13	N TDP PAR	3.169+/-	2.642	39	N VA 74'	-.092+/-	1.322
14	N Dasibi D3	.029+/-	.005	40	S BDT PAR	1.019+/-	2.128
15	N TDP VER	.097+/-	1.280	41	N GND PER	2.412+/-	1.816
16	N ND/TECD	.115+/-	.043	42	S BDT VER	.286+/-	.782
17	N BDT PER	4.527+/-	2.525	43	N GND PAR	1.098+/-	3.042
19	N BDT PAR	2.381+/-	2.787	45	N GND VER	.117+/-	.858
20	N ND2/TECO	.017+/-	.005	48	N Ecolyzer-1	.518+/-	.250
21	N BDT VER	.042+/-	1.188	50	S TDP PER	4.406+/-	2.771
22	N ND/TECO	.056+/-	.044	51	N Ecolyzer-2	.720+/-	.296
23	N HA 102'	9.305+/-	1.823	52	S TDP PAR	2.068+/-	1.868
24	N THC/Byron	2.000+/-	.050	53	N Ecolyzer-3	.974+/-	.441
25	N WV 102'	202.153+/-	16.912	54	S TDP VER	.141+/-	1.135
26	N NMHC/Byro	5.294+/-	3.842	55	N Ecolyzer-4	.793+/-	.358
27	N Gnd Temp	74.066+/-	2.566	56	S GND PER	1.103+/-	1.711
28	N CH4/Byron	1.298+/-	.101	57	N Ecolyzer-5	1.110+/-	.725
29	N WV 74'	190.504+/-	18.947	58	S GND PAR	-.065+/-	1.738
30	N CD/Byron	.489+/-	.257	59	N Rel Hum	53.167+/-	.536
31	N 74' Temp	72.555+/-	2.240	60	S GND VER	-.066+/-	.645
32	N CD2/Byron	372.252+/-	6.448	61	N Solar Rad	285.304+/-	55.863
35	N HA 74'	7.883+/-	2.544	64	S VA 55'	.235+/-	1.207

UVW	Channels			UVW Vector Calculations			Elevation Angle (Deg)
				Vector Sum (mph)	Bearing Deg AZ		
01	11	13	15	7.24+/-	2.22	210.0+/-	1.9+/- 12.4
02	17	19	21	5.98+/-	2.42	208.1+/-	2.3+/- 16.7
03	38	40	42	4.01+/-	2.30	203.1+/-	7.3+/- 19.0
04	41	43	45	3.94+/-	2.18	195.9+/-	3.5+/- 17.5
05	50	52	54	5.47+/-	2.56	207.3+/-	6.0+/- 18.2
06	56	58	60	2.16+/-	1.71	195.4+/-	7.8+/- 24.5

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 1799 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	60.1	92	56.5	69	59.5	32	60.7	5	50.2
Cat2	59	61.2	108	58.4	133	60.4	102	60.4	77	52.0
Cat3	6	62.1	21	62.5	21	56.1	9	60.6	2	50.7
Cat4	9	64.8	9	62.3	5	60.9	2	58.0	1	44.1
Cat5	2	65.2	1	64.7	0	.0	1	63.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	64.4	60	59.5	63	60.8	51	55.9	23	47.8
Cat2	185	65.8	188	61.1	155	61.2	65	59.9	44	48.4
Cat3	15	67.4	28	62.2	14	60.0	0	66.5	0	.0
Cat4	4	67.0	11	63.9	9	63.9	0	.0	0	.0
Cat5	1	70.4	3	64.4	1	57.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	507	28.2	60.3	1116	62.0	61.6	117	6.5	63.1	50	2.8	64.5	9	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.353+/-	2.486	37	N VA 102'	.257+/-	1.279
12	N Dasibi CD	1.384+/-	.424	38	S BDT PER	3.055+/-	1.585
13	N TDP PAR	1.066+/-	1.597	39	N VA 74'	.087+/-	1.206
14	N Dasibi D3	.023+/-	.006	40	S BDT PAR	1.520+/-	1.411
15	N TDP VER	.147+/-	1.280	41	N GND PER	1.885+/-	1.626
16	N ND/TECD	.143+/-	.057	42	S BDT VER	.293+/-	.611
17	N BDT PER	3.489+/-	2.389	43	N GND PAR	-.578+/-	1.784
19	N BDT PAR	.444+/-	1.486	45	N GND VER	-.175+/-	.638
20	N ND2/TECO	.017+/-	.006	48	N Ecolyzer-1	.597+/-	.274
21	N BDT VER	.178+/-	1.086	50	S TDP PER	3.978+/-	2.058
22	N ND/TECO	.123+/-	.057	51	N Ecolyzer-2	.802+/-	.487
23	N HA 102'	6.804+/-	2.156	52	S TDP PAR	1.152+/-	1.827
24	N THC/Byron	1.915+/-	.070	53	N Ecolyzer-3	1.326+/-	.680
25	N WV 102'	188.008+/-	18.951	54	S TDP VER	-.160+/-	1.000
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	.722+/-	.705
27	N Gnd Temp	73.623+/-	3.194	56	S GND PER	1.339+/-	1.314

28	N CH4/Byron	1.422+/-	.112	ppm	57	N Ecolyzer-5	1.509+/-	1.000	ppm
29	N WV 74'	179.661+/-	21.532	DEGR AZ	58	S GND PAR	.030+/-	1.328	mph
30	N CO/Byron	.401+/-	.139	ppm	59	N Rel Hum	53.574+/-	.485	%
31	N 74' Temp	70.523+/-	3.081	DEGR F	60	S GND VER	.083+/-	.657	mph
32	N CO2/Byron	384.384+/-	4.600	ppm	61	N Solar Rad	213.274+/-	18.971	W/m**2
35	N HA 74'	5.637+/-	2.787	mph	64	S VA 55'	.209+/-	1.243	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg Az	Elevation Angle (Deg)		
01	11	13	15	5.02+/-	2.27	194.9+/-	24.3	4.5+/-	19.5
02	17	19	21	4.08+/-	2.19	186.5+/-	29.8	5.7+/-	23.5
03	38	40	42	3.42+/-	1.68	187.3+/-	23.5	7.5+/-	14.7
04	41	43	45	2.74+/-	1.62	167.8+/-	42.5	7.8+/-	20.0
05	50	52	54	4.57+/-	2.20	192.7+/-	23.5	5.0+/-	16.8
06	56	58	60	1.89+/-	1.47	187.3+/-	38.7	10.3+/-	19.5

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 6956 vehicles averaging 60.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	202	58.6	325	56.3	300	59.1	162	59.9	26	51.0
Cat2	224	60.9	420	57.4	517	59.9	401	60.8	341	51.9
Cat3	26	61.0	69	61.4	47	59.3	25	61.6	13	52.4
Cat4	20	65.2	26	62.8	9	59.1	6	59.5	6	47.4
Cat5	4	66.8	3	72.4	0	0	3	60.9	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	288	65.2	251	60.6	288	61.8	240	57.5	83	47.4
Cat2	689	66.5	719	62.2	571	62.0	233	60.1	152	48.4
Cat3	33	67.9	79	62.5	59	62.2	7	64.3	1	39.1
Cat4	16	69.1	33	64.7	27	65.0	1	60.7	0	0
Cat5	3	69.4	9	64.0	9	66.4	0	0	0	0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
59.3	2165	60.5	4267	61.3	61.8	359	5.2	63.7	144
	31.1		61.3		61.8		5.2		2.1
			66.1		31				.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.235+/-	2.513	37	N VA 102'	.387+/-	1.418
12	N Dasibi CO	1.211+/-	.342	38	S BDT PER	2.529+/-	2.122
13	N TDP PAR	3.072+/-	2.426	39	N VA 74'	.154+/-	1.397
14	N Dasibi O3	.027+/-	.006	40	S BDT PAR	1.072+/-	1.740
15	N TDP VER	.261+/-	1.331	41	N GND PER	2.119+/-	1.888
16	N NDX/TECO	.127+/-	.049	42	S BDT VER	.298+/-	.731
17	N BDT PER	3.336+/-	2.402	43	N GND PAR	1.182+/-	2.708
19	N BDT PAR	2.414+/-	2.464	45	N GND VER	.160+/-	.767
20	N ND2/TECO	.020+/-	.006	49	N Ecolyzer-1	.638+/-	.277
21	N BDT VER	.234+/-	1.198	50	S TDP PER	3.420+/-	2.532
22	N ND/TECO	.106+/-	.048	51	N Ecolyzer-2	.854+/-	.381
23	N HA 102'	8.140+/-	2.331	52	S TDP PAR	2.030+/-	2.027
24	N THC/Byron	1.981+/-	.094	53	N Ecolyzer-3	1.231+/-	.583
25	N WV 102'	208.433+/-	23.605	54	S TDP VER	.219+/-	1.108
26	N NMHC/Byro	6.620+/-	4.345	55	N Ecolyzer-4	.918+/-	.547
27	N Gnd Temp	74.281+/-	2.692	56	S GND PER	1.105+/-	1.480
28	N CH4/Byron	1.359+/-	.112	57	N Ecolyzer-5	1.306+/-	.844
29	N WV 74'	197.330+/-	24.902	58	S GND PAR	.269+/-	1.389
30	N CO/Byron	.424+/-	.289	59	N Rel Hum	52.491+/-	1.057
31	N 74' Temp	71.467+/-	2.546	60	S GND VER	.083+/-	.580
32	N CO2/Byron	377.504+/-	8.394	61	N Solar Rad	294.682+/-	71.365
35	N HA 74'	6.783+/-	2.789	64	S VA 55'	.250+/-	1.266

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg Az	Elevation Angle (Deg)		
01	11	13	15	6.03+/-	2.24	216.3+/-	26.3	4.6+/-	16.2
02	17	19	21	5.01+/-	2.27	215.7+/-	32.2	5.3+/-	19.4
03	38	40	42	3.40+/-	2.03	204.6+/-	35.0	8.4+/-	18.6
04	41	43	45	3.66+/-	2.00	201.8+/-	42.8	5.1+/-	17.3
05	50	52	54	4.87+/-	2.40	212.2+/-	30.3	7.9+/-	21.6
06	56	58	60	1.87+/-	1.51	203.0+/-	41.8	10.1+/-	21.3

15:13:06 -- BEGIN RECALIBRATION OF ECOL. GRD  
 15:13:25 -- BEGIN CAL. NCD-4 GRD  
 15:18:05 -- WILL LEAVE NCD-4 OFF LINE BECAUSE OF INSTABILITY GRD  
 15:18:18 -- BEGIN RECAL. NCD-3  
 15:30:39 -- END CALIBRATION NCD-3  
 15:30:49 -- BEGIN CAL. NCD-1  
 15:46:21 -- REC. TYPE 19 IS INCORRECT  
 15:46:46 -- BEGIN CAL. NCD-5  
 15:54:38 -- PROGRAM RESTART 1.  
 15:54:39 -- 12/08/84  
 15:54:40 -- THIS IS THE THIRD PROGRAM RESTART OF THE DAY!!!!!!!!!!!!!!!!!!!!  
 15:59:00 -- END CAL. NCD-5

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 1680 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	58.6	76	56.4	92	59.5	39	61.6	24	50.8
Cat2	50	60.1	110	58.3	101	60.4	104	60.3	70	48.7
Cat3	10	60.6	12	62.8	12	62.1	3	57.4	3	50.9
Cat4	3	62.7	4	69.2	3	57.6	1	53.7	1	48.6
Cat5	0	.0	1	71.8	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	64.8	59	60.6	90	61.2	43	57.6	24	47.2
Cat2	164	66.1	182	61.9	149	62.1	47	59.3	27	47.0
Cat3	6	68.0	19	62.5	7	62.1	2	60.2	0	.0
Cat4	5	65.7	2	62.2	15	63.3	0	.0	0	.0
Cat5	1	67.6	1	65.3	1	64.7	1	44.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.0	563	33.5	60.4	1004	59.8	61.9	74	4.4	63.2	34	2.0	62.8	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.405+/-	2.067 mph	37	N VA 102'	.483+/-	1.266 mph
12	N Dasibi CD	1.433+/-	.292 ppm	38	S BOT PER	3.075+/-	1.692 mph
13	N TOP PAR	.456+/-	1.734 ppm	39	N VA 74'	.183+/-	1.061 mph
14	N Dasibi 03	.022+/-	.004 ppm	40	S BOT PAR	-.046+/-	1.210 mph
15	N TOP VER	.140+/-	1.151 ppm	41	N GND PER	1.787+/-	1.342 mph
16	N NDX/TECD	.147+/-	.048 ppm	42	S BOT VER	.174+/-	.545 mph
17	N BDT PER	3.317+/-	1.751 ppm	43	N GND PAR	-.884+/-	1.724 mph
18	N BOT PAR	-.018+/-	1.806 ppm	44	N GND VER	.143+/-	.675 mph
19	N NDX/TECD	.019+/-	.006 ppm	45	N EcoLyzer-1	.538+/-	.242 ppm
20	N BDT VER	.197+/-	1.070 ppm	46	S TOP PER	3.742+/-	1.910 ppm
21	N ND/TECD	.126+/-	.050 ppm	47	N EcoLyzer-2	.893+/-	.254 ppm
22	N HA 102'	6.787+/-	1.719 ppm	48	S TOP PAR	.341+/-	1.614 ppm
23	N THC/Byron	1.944+/-	.070 ppm	49	N EcoLyzer-3	1.265+/-	.601 ppm
24	N WV 102'	179.151+/-	15.712 DEGR AZ	50	S TOP VER	-.037+/-	.977 ppm
25	N NMHC/Byro	2.744+/-	.056 ppm	51	N EcoLyzer-4	.781+/-	.427 ppm
26	N Gnd Temp	74.744+/-	2.782 DEGR F	52	S GND PER	1.139+/-	1.156 ppm
27	N CH4/Byron	1.303+/-	.069 ppm	53	N EcoLyzer-5	1.400+/-	.669 ppm
28	N WV 74'	170.021+/-	18.305 DEGR AZ	54	S GND PAR	-.428+/-	1.034 ppm
29	N CD/Byron	.352+/-	.089 ppm	55	N Rel Hum	53.705+/-	.560 %
30	N 74' Temp	72.389+/-	2.972 DEGR F	56	S GND VER	.117+/-	.319 ppm
31	N CO2/Byron	394.805+/-	3.737 ppm	57	N Solar Rad	212.774+/-	21.344 W/m**2
32	N HA 74'	6.051+/-	2.497 ppm	58	S VA 55'	.218+/-	1.122 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.95+/- 1.93	191.3+/- 24.1	3.4+/- 16.2
02	17 18 21	3.93+/- 1.75	184.6+/- 29.4	4.8+/- 18.9
03	38 40 42	3.23+/- 1.75	181.5+/- 18.9	6.1+/- 14.0
04	41 43 45	2.65+/- 1.48	155.9+/- 40.4	6.1+/- 17.3
05	50 52 54	4.21+/- 1.89	187.3+/- 23.4	4.9+/- 20.9
06	56 58 60	1.56+/- 1.25	175.2+/- 39.6	11.9+/- 17.8

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 1759 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	59.1	87	55.7	86	59.1	47	61.3	15	51.4
Cat2	54	60.8	96	58.0	128	60.2	105	61.6	71	50.9
Cat3	13	62.2	18	63.7	17	61.0	3	54.7	3	46.6
Cat4	3	64.6	6	67.8	2	63.0	2	66.7	2	48.5
Cat5	1	63.2	3	64.1	0	.0	1	70.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	64.1	48	59.7	86	61.0	57	58.7	22	47.2
Cat2	178	66.2	177	61.3	155	60.8	49	58.9	33	47.3
Cat3	6	68.6	23	62.4	19	62.7	0	.0	3	39.9
Cat4	3	70.1	9	62.6	6	62.9	0	.0	0	.0
Cat5	0	.0	0	.0	2	60.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	568	32.3	60.4	1046	59.5	61.5	105	6.0	63.9	33	1.9	63.8	7	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.654+/-	2.246 mph	37	N VA 102'	.308+/-	1.207 mph
12	N Dasibi CD	1.356+/-	.396 ppm	38	S BOT PER	2.142+/-	1.588 mph
13	N TOP PAR	2.997+/-	1.780 ppm	39	N VA 74'	-.046+/-	1.126 mph
14	N Dasibi 03	.022+/-	.004 ppm	40	S BOT PAR	.784+/-	1.177 mph
15	N TOP VER	.154+/-	1.178 ppm	41	N GND PER	2.106+/-	1.538 mph
16	N NDX/TECD	.142+/-	.042 ppm	42	S BOT VER	.336+/-	.439 mph
17	N BDT PER	3.710+/-	2.445 ppm	43	N GND PAR	-.990+/-	2.060 mph
18	N BOT PAR	-.019+/-	1.686 ppm	44	N GND VER	1.08+/-	.743 ppm
19	N NDX/TECD	.019+/-	.006 ppm	45	S TOP PER	4.454+/-	2.440 ppm
20	N BDT VER	.212+/-	1.083 ppm	46	N EcoLyzer-1	2.885+/-	1.843 ppm
21	N ND/TECD	.121+/-	.043 ppm	47	S TOP PAR	.681+/-	2.58 ppm
22	N HA 102'	8.754+/-	2.049 ppm	48	N EcoLyzer-2	2.030+/-	1.573 ppm
23	N THC/Byron	1.928+/-	.046 ppm	49	S TOP VER	*****+/-*****	ppm
24	N WV 102'	205.188+/-	13.709 DEGR AZ	50	S TOP VER	.145+/-	.793 ppm
25	N NMHC/Byro	2.705+/-	.067 ppm	51	N EcoLyzer-3	*****+/-*****	ppm
26				52	S TOP VER		
				53	N EcoLyzer-4		
				54			
				55	N EcoLyzer-4		

27	N Gnd Temp	74.379+/-	2.362	DEGR F	56	S GND PER	.743+/-	1.020	mph
28	N CH4/Byron	1.316+/-	.050	ppm	57	N Ecolyzer-5	1.341+/-	.874	ppm
29	N WV 74'	194.860+/-	16.887	DEGR A2	58	S GND PAR	.319+/-	.910	mph
30	N CD/Byron	.375+/-	.064	ppm	59	N Rel Hum	55.382+/-	.595	%
31	N 74' Temp	71.096+/-	2.314	DEGR F	60	S GND VER	1.111+/-	.358	mph
32	N CD2/Byron	395.782+/-	2.053	ppm	61	N Solar Rad	158.048+/-	27.405	W/m**2
35	N HA 74'	6.754+/-	2.514	mph	64	S VA 55'	.232+/-	.832	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	5.97+/-	2.14	213.1+/-	19.6	3.9+/-	14.3
02	17	19	21	4.97+/-	2.14	216.2+/-	26.5	4.6+/-	16.0
03	38	40	42	2.52+/-	1.61	201.0+/-	28.9	12.3+/-	17.3
04	41	43	45	3.13+/-	1.86	205.9+/-	37.5	4.3+/-	17.0
05	50	52	54	3.96+/-	1.81	217.4+/-	24.6	4.9+/-	18.4
06	56	58	60	1.21+/-	1.10	208.4+/-	38.3	12.8+/-	18.5

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 1675 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	59.2	90	57.3	74	60.0	43	59.4	23	50.9
Cat2	63	60.6	87	57.8	101	61.0	81	61.6	75	49.5
Cat3	7	63.0	13	61.9	14	59.7	5	67.2	2	50.1
Cat4	3	64.5	2	64.0	1	61.8	1	55.9	0	.0
Cat5	0	.0	1	60.2	1	64.2	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	64.3	62	59.9	87	60.6	46	57.9	18	45.6
Cat2	184	66.2	177	61.6	144	61.8	54	59.0	43	46.4
Cat3	11	67.3	18	63.8	14	61.3	4	56.0	1	53.3
Cat4	3	69.7	5	63.7	6	63.7	1	84.1	1	49.1
Cat5	0	.0	3	64.6	0	.0	0	.0	0	.0

Vehicle Classification Summary

Vehicle Classification Summary														
CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
58.9	549	32.8	60.3	1009	60.2	62.3	89	5.3	64.4	23	1.4	63.6	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.085+/-	2.366	37	N VA 102'	.299+/-	1.189
12	N Dasibi CD	1.508+/-	.254	38	S BDT PER	2.166+/-	1.160
13	N TDP PAR	2.257+/-	1.202	39	N VA 74'	.088+/-	.849
14	N Dasibi O3	.018+/-	.004	40	S BDT PAR	.561+/-	.932
15	N TDP VER	.142+/-	.975	41	N GND PER	1.899+/-	1.541
16	N NOX/TECD	.160+/-	.039	42	S BDT VER	.311+/-	.439
17	N BDT PER	3.646+/-	2.411	43	N GND PAR	.373+/-	1.387
19	N BDT PAR	1.712+/-	1.256	45	N GND VER	.210+/-	.600
20	N NO2/TECD	.018+/-	.005	49	N Ecolyzer-1	*****+*****	
21	N BDT VER	.152+/-	.935	50	S TDP PER	3.070+/-	1.641
22	N NO/TECO	.140+/-	.040	51	N Ecolyzer-2	.778+/-	.333
23	N HA 102'	6.767+/-	2.008	52	S TDP PAR	1.654+/-	1.441
24	N THC/Byron	1.917+/-	.045	53	N Ecolyzer-3	1.436+/-	.559
25	N WV 102'	199.833+/-	17.234	54	S TDP VER	.247+/-	.763
26	N NMHC/Byro	2.723+/-	.041	55	N Ecolyzer-4	*****+*****	
27	N Gnd Temp	72.946+/-	3.192	56	S GND PER	.650+/-	.814
28	N CH4/Byron	1.347+/-	.050	57	N Ecolyzer-5	1.594+/-	.794
29	N WV 74'	191.524+/-	16.291	58	S GND PAR	.243+/-	.702
30	N CD/Byron	.365+/-	.067	59	N Rel Hum	56.864+/-	.627
31	N 74' Temp	68.777+/-	2.159	60	S GND VER	.130+/-	.238
32	N CD2/Byron	385.701+/-	1.856	61	N Solar Rad	104.048+/-	8.452
35	N HA 74'	5.348+/-	2.701	64	S VA 55'	.352+/-	.832

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	4.99+/-	2.22	212.0+/-	18.5	4.5+/-	15.0
02	17	19	21	4.41+/-	2.26	207.8+/-	21.7	6.3+/-	16.0
03	38	40	42	2.45+/-	1.22	193.1+/-	19.5	10.6+/-	13.5
04	41	43	45	2.53+/-	1.42	194.9+/-	39.5	6.7+/-	17.7
05	50	52	54	3.84+/-	1.58	207.4+/-	23.0	7.3+/-	17.2
06	56	58	60	1.00+/-	.84	208.7+/-	34.1	16.2+/-	19.8

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 1307 vehicles averaging 59.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	58.8	76	56.1	72	58.2	29	59.8	11	50.5
Cat2	43	60.4	83	58.2	90	58.9	66	60.0	53	48.0
Cat3	4	65.5	7	61.4	5	55.2	1	63.1	0	.0
Cat4	3	64.6	3	62.9	1	57.8	3	65.3	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	63.1	55	58.8	58	61.0	46	57.8	22	45.8
Cat2	122	64.3	143	60.2	108	61.2	37	61.6	21	46.5
Cat3	10	64.6	13	60.0	20	61.8	4	61.6	0	.0
Cat4	6	65.9	9	61.7	0	.0	0	.0	0	.0
Cat5	0	.0	0	.0	1	72.9	0	.0	0	.0

Vehicle Classification Summary

Vehicle Classification Summary														
CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
58.1	451	34.5	59.5	766	58.6	61.6	64	4.9	63.5	25	1.9	72.9	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.311+/-	1.890	37	N VA 102'	.204+/-	1.153
12	N Dasibi CD	1.281+/-	.240	38	S BDT PER	1.508+/-	1.247
13	N TDP PAR	3.324+/-	1.228	39	N VA 74'	-.082+/-	1.094
14	N Dasibi O3	.020+/-	.003	40	S BDT PAR	2.674+/-	.963
15	N TDP VER	.047+/-	.936	41	N GND PER	2.441+/-	1.356
16	N NOX/TECD	.144+/-	.048	42	S BDT VER	.284+/-	.394
17	N BDT PER	3.783+/-	2.010	43	N GND PAR	1.073+/-	1.678

19	N BDT PAR	2.735+/-	1.261	mph	45	N GND VER	.067+/-	.659	mph
20	N ND2/TECD	.020+/-	.005	ppm	48	N EcoLyzer-1	.909+/-	.187	ppm
21	N BDT VER	-0.009+/-	.897	mph	50	S TOP PER	1.649+/-	1.352	mph
22	N ND/TECD	.121+/-	.049	ppm	51	N EcoLyzer-2	.670+/-	.229	ppm
23	N HA 102'	7.984+/-	1.944	mph	52	S TOP PAR	1.594+/-	1.282	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	1.297+/-	.417	ppm
25	N WV 102'	209.318+/-	11.748	DEGR AZ	54	S TOP VER	.395+/-	.769	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	*****+/-*****		DEGR F	56	S GND PER	.521+/-	.758	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	199.592+/-	12.656	DEGR AZ	58	S GND PAR	.265+/-	.533	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	*****+/-*****		%
31	N 74' Temp	*****+/-*****		DEGR F	60	S GND VER	.101+/-	.274	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	*****+/-*****		W/m**2
35	N HA 74'	5.916+/-	2.395	mph	64	S VA 55'	.344+/-	.891	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.66+/- 1.87	218.9+/- 13.7	2.2+/- 9.6		
02	17 19 21	4.93+/- 1.87	217.9+/- 17.3	2.4+/- 11.0		
03	38 40 42	1.92+/- 1.32	204.4+/- 26.8	15.6+/- 20.4		
04	41 43 45	3.22+/- 1.35	199.5+/- 32.6	2.7+/- 13.1		
05	50 52 54	2.67+/- 1.54	223.5+/- 28.2	17.4+/- 25.0		
06	56 58 60	.79+/- .81	215.2+/- 32.9	18.6+/- 18.5		

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 6421 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	208	59.0	329	56.4	324	59.2	158	60.6	73	50.9
Cat 2	210	60.5	378	58.1	420	60.2	356	60.9	269	49.6
Cat 3	34	62.3	50	62.7	48	60.3	12	61.3	8	49.1
Cat 4	12	64.1	15	66.7	7	59.8	7	64.1	3	47.9
Cat 5	1	63.2	5	64.9	1	64.2	1	70.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	205	64.1	235	59.8	321	60.9	192	58.1	86	46.5
Cat 2	648	65.8	678	61.3	556	61.5	187	59.6	124	46.8
Cat 3	33	66.8	73	62.3	60	62.0	10	59.1	4	43.2
Cat 4	17	67.2	25	62.5	27	63.3	1	84.1	1	49.1
Cat 5	1	67.6	4	64.8	4	64.5	1	44.5	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
58.7	2131	60.2	3825	61.8	332	63.7	115	64.0	18

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.386+/-	2.171	37	N VA 102'	.329+/-	1.214
12	N Dasibi CO	1.400+/-	.315	38	S BDT PER	2.254+/-	1.545
13	N TOP PAR	2.212+/-	1.882	39	N VA 74'	.046+/-	1.039
14	N Dasibi O3	.020+/-	.004	40	S BDT PAR	.486+/-	1.128
15	N TOP VER	.124+/-	1.059	41	N GND PER	2.042+/-	1.468
16	N ND/TECD	.149+/-	.044	42	S BDT VER	.276+/-	.464
17	N BDT PER	3.607+/-	2.183	43	N GND PAR	.356+/-	1.899
19	N BDT PAR	1.650+/-	1.859	45	N GND VER	.135+/-	.672
20	N ND2/TECD	.019+/-	.005	49	N EcoLyzer-1	*****+/-*****	
21	N BDT VER	.145+/-	.999	50	S TOP PER	2.888+/-	1.660
22	N ND/TECD	.127+/-	.046	51	N EcoLyzer-2	.759+/-	.287
23	N HA 102'	7.558+/-	2.109	52	S TOP PAR	1.397+/-	1.624
24	N THC/Byron	1.931+/-	.054	53	N EcoLyzer-3	1.320+/-	.499
25	N WV 102'	188.022+/-	18.532	54	S TOP VER	.178+/-	.845
26	N NMHC/Byro	2.724+/-	.058	55	N EcoLyzer-4	*****+/-*****	
27	N Gnd Temp	73.772+/-	2.943	56	S GND PER	.774+/-	.983
28	N CH4/Byron	1.325+/-	.058	57	N EcoLyzer-5	1.469+/-	.803
29	N WV 74'	188.729+/-	19.738	58	S GND PAR	.092+/-	.883
30	N CO/Byron	.362+/-	.071	59	N Rel Hum	55.871+/-	1.878
31	N 74' Temp	70.638+/-	2.772	60	S GND VER	.115+/-	.301
32	N CO2/Byron	395.517+/-	2.531	61	N Solar Rad	148.575+/-	50.910
35	N HA 74'	6.022+/-	2.581	64	S VA 55'	.284+/-	.929

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.38+/- 2.09	208.7+/- 21.8	3.6+/- 14.2		
02	17 19 21	4.54+/- 2.08	206.6+/- 27.1	4.6+/- 16.5		
03	38 40 42	2.61+/- 1.57	194.3+/- 25.1	11.0+/- 18.7		
04	41 43 45	2.87+/- 1.51	189.7+/- 40.4	5.0+/- 16.5		
05	50 52 54	3.71+/- 1.83	208.2+/- 27.5	8.2+/- 20.9		
06	56 58 60	1.15+/- 1.06	202.4+/- 38.3	14.7+/- 18.8		

16:01:03 -- BEGIN CAL. NCO-2 GRD  
 16:11:47 -- END CAL. NCO-2  
 16:33:04 -- WILL ATTEMPT TO BRING NCO-4 ON LINE GRD  
 16:33:18 -- BEGIN CAL. NCO-4 GRD  
 16:53:35 -- END CAL. NCO-4 WILL SEE IF NCO-4 WILL CONTINUE TO WORK  
 16:58:54 -- WILL QUICKLY CHECK CAL. DN NCO-2 GRD

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 1723 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	59.5	90	56.4	93	58.5	50	60.8	15	48.4
Cat2	54	60.1	107	58.2	124	58.9	91	60.9	71	48.7
Cat3	6	63.2	21	62.3	12	61.6	6	55.5	2	46.3
Cat4	3	66.7	6	64.6	4	59.9	2	59.7	0	.0
Cat5	1	63.4	2	65.1	0	.0	2	58.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	64.2	66	60.6	88	60.5	48	57.6	27	49.2
Cat2	163	65.0	189	61.1	127	62.2	49	57.9	32	47.9
Cat3	9	55.8	22	61.5	15	61.4	1	65.9	0	.0
Cat4	7	64.8	8	60.3	6	63.8	1	62.4	0	.0
Cat5	1	64.2	2	63.1	4	67.7	1	61.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	592	34.4	59.8	987	57.3	61.5	84	5.5	62.9	37	2.1	64.1	13	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.046+/-	1.678	37	N VA 102'	.274+/-	1.029
12	N Dasibi CO	1.666+/-	.313	38	S BOT PER	1.710+/-	1.182
13	N TOP PAR	1.504+/-	1.106	39	N VA 74'	.122+/-	.610
14	N Dasibi O3	.018+/-	.004	40	S BOT PAR	.364+/-	.685
15	N TOP VER	.148+/-	.778	41	N GND PER	1.488+/-	1.191
16	N NOX/TECD	.162+/-	.049	42	S BOT VER	.172+/-	.403
17	N BOT PER	2.303+/-	1.642	43	N GND PAR	.014+/-	1.202
19	N BOT PAR	.915+/-	1.053	45	N GND VER	.105+/-	.422
20	N NO2/TECD	.022+/-	.006	48	N Ecolyzer-1	.944+/-	.207
21	N BOT VER	.122+/-	.745	50	S TOP PER	1.815+/-	1.619
22	N NO/TECD	.137+/-	.051	51	N Ecolyzer-2	*****	*****
23	N HA 102'	5.630+/-	1.672	52	S TOP PAR	.967+/-	1.145
24	N THC/Byron	1.962+/-	.062	53	N Ecolyzer-3	1.784+/-	.608
25	N WV 102'	196.551+/-	15.850	54	S TOP VER	.153+/-	.781
26	N NMHC/Byro	2.719+/-	.043	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	71.799+/-	2.694	56	S GND PER	.334+/-	.413
28	N CH4/Byron	1.309+/-	.039	57	N Ecolyzer-5	2.117+/-	1.130
29	N WV 74'	186.594+/-	19.080	58	S GND PAR	.010+/-	.527
30	N CO/Byron	.347+/-	.060	59	N Rel Hum	59.779+/-	.396
31	N 74' Temp	69.428+/-	2.317	60	S GND VER	.110+/-	.167
32	N CO2/Byron	395.538+/-	2.765	61	N Solar Rad	63.384+/-	7.762
35	N HA 74'	4.333+/-	2.227	64	S VA 55'	.295+/-	.681

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.67+/- 1.65	209.2+/- 20.3	5.8+/- 14.2
02	17 19 21	2.82+/- 1.59	204.4+/- 27.1	6.3+/- 18.4
03	38 40 42	1.88+/- 1.25	192.8+/- 16.5	9.8+/- 14.9
04	41 43 45	1.99+/- 1.14	179.6+/- 41.1	6.0+/- 12.9
05	50 52 54	2.45+/- 1.66	214.4+/- 26.9	15.2+/- 20.9
06	56 58 60	.55+/- .54	205.7+/- 35.7	22.5+/- 20.0

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1652 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	60.2	92	56.0	84	60.1	34	59.8	16	48.4
Cat2	73	62.0	104	57.4	106	59.9	99	59.5	63	48.7
Cat3	5	63.8	11	62.3	13	59.1	11	60.6	1	56.6
Cat4	1	65.3	3	65.6	5	58.6	1	54.4	2	49.2
Cat5	1	64.0	1	64.4	1	69.3	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	64.0	67	58.9	80	60.6	52	57.2	18	47.2
Cat2	180	65.4	165	61.3	120	61.4	38	60.9	33	47.7
Cat3	6	64.7	26	61.2	13	61.9	1	63.5	2	44.0
Cat4	7	68.1	8	63.2	10	65.4	0	.0	0	.0
Cat5	0	.0	5	65.3	3	64.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	554	33.5	60.0	981	58.2	61.0	89	5.4	63.4	37	2.2	65.3	11	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.109+/-	1.488	37	N VA 102'	.145+/-	1.146
12	N Dasibi CO	1.789+/-	.329	38	S BOT PER	1.727+/-	.849
13	N TOP PAR	.853+/-	1.030	39	N VA 74'	-.054+/-	.845
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	.211+/-	.564
15	N TOP VER	-.022+/-	.828	41	N GND PER	1.715+/-	1.207
16	N NOX/TECD	.164+/-	.052	42	S BOT VER	.297+/-	.334
17	N BOT PER	3.144+/-	1.641	43	N GND PAR	-.822+/-	1.404
19	N BOT PAR	.338+/-	1.034	45	N GND VER	.088+/-	.423
20	N NO2/TECD	.021+/-	.006	49	N Ecolyzer-1	.950+/-	.193
21	N BOT VER	.013+/-	.728	50	S TOP PER	2.250+/-	1.366
22	N NO/TECD	.139+/-	.054	51	N Ecolyzer-2	.894+/-	.288
23	N HA 102'	5.471+/-	1.426	52	S TOP PAR	.569+/-	.971
24	N THC/Byron	1.925+/-	.050	53	N Ecolyzer-3	1.581+/-	.446
25	N WV 102'	186.662+/-	13.058	54	S TOP VER	.163+/-	.542
26	N NMHC/Byro	2.715+/-	.034	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	69.376+/-	2.887	56	S GND PER	.403+/-	.588
28	N CH4/Byron	1.324+/-	.048	57	N Ecolyzer-5	2.243+/-	1.300
29	N WV 74'	176.121+/-	15.056	58	S GND PAR	.019+/-	.473
30	N CO/Byron	.368+/-	.051	59	N Rel Hum	60.707+/-	.512
31	N 74' Temp	69.142+/-	1.865	60	S GND VER	.142+/-	.110
32	N CO2/Byron	394.968+/-	2.875	61	N Solar Rad	64.627+/-	5.699

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.42+/- 1.44	192.9+/-	15.0	1.3+/-	11.8
02	17 19 21	3.42+/- 1.61	187.8+/-	21.6	2.8+/-	16.6
03	38 40 42	1.87+/- .88	188.0+/-	15.5	11.4+/-	12.5
04	41 43 45	2.38+/- 1.26	158.8+/-	37.5	3.5+/-	14.0
05	50 52 54	2.56+/- 1.39	195.8+/-	23.9	8.7+/-	17.0
06	56 58 60	.59+/- .65	202.9+/-	36.9	24.6+/-	17.3

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 1758 vehicles averaging 59.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	59.0	96	56.4	72	59.0	31	60.0	19	49.5
Cat2	51	61.5	82	58.3	131	59.6	84	61.0	76	48.3
Cat3	7	60.2	17	62.6	10	58.9	5	56.2	3	49.4
Cat4	3	66.0	6	62.7	5	63.8	1	60.5	3	48.4
Cat5	2	68.9	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	64.0	60	59.6	85	60.2	50	57.7	15	45.8
Cat2	189	65.0	180	60.8	158	60.7	57	59.6	35	46.5
Cat3	7	65.8	22	63.0	17	61.2	6	59.6	0	.0
Cat4	5	69.0	12	64.2	12	61.8	1	61.3	0	.0
Cat5	1	67.2	1	64.6	1	61.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	558	31.7	59.8	1053	59.8	61.2	94	5.3	62.9	48	2.7	66.5	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.879+/-	1.735	37	N VA 102'	.392+/-	1.061
12	N Dasibi CO	1.786+/-	.417	38	S BDT PER	1.683+/-	.938
13	N TDP PAR	2.125+/-	1.280	39	N VA 74'	.018+/-	1.001
14	N Dasibi OJ	.018+/-	.004	40	S BDT PAR	.403+/-	.729
15	N TDP VER	.097+/-	.935	41	N GND PER	1.857+/-	1.216
16	N NOX/TECO	.160+/-	.043	42	S BDT VER	.278+/-	.351
17	N BDT PER	3.212+/-	1.672	43	N GND PAR	.248+/-	1.404
18	N BDT PAR	1.527+/-	1.277	45	N GND VER	.018+/-	.579
20	N ND2/TECO	.021+/-	.006	48	N Ecolyzer-1	1.049+/-	.235
21	N BDT VER	.152+/-	.986	50	S TDP PER	2.200+/-	1.633
22	N ND/TECO	.137+/-	.045	51	N Ecolyzer-2	1.034+/-	.386
23	N HA 102'	6.340+/-	1.716	52	S TDP PAR	1.109+/-	1.039
24	N THC/Byron	1.938+/-	.072	53	N Ecolyzer-3	1.836+/-	.713
25	N WV 102'	199.255+/-	14.692	54	S TDP VER	.267+/-	.618
26	N NMHC/Byro	2.710+/-	.052	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	70.054+/-	2.453	56	S GND PER	.463+/-	.627
28	N CH4/Byron	1.342+/-	.057	57	N Ecolyzer-5	2.562+/-	1.205
29	N WV 74'	189.190+/-	16.291	58	S GND PAR	.089+/-	.465
30	N CO/Byron	.378+/-	.055	59	N Rel Num	61.521+/-	.368
31	N 74' Temp	68.673+/-	1.957	60	S GND VER	.118+/-	.106
32	N CO2/Byron	384.887+/-	2.580	61	N Solar Rad	45.325+/-	6.136
35	N HA 74'	5.131+/-	2.428	64	S VA 55'	.377+/-	.882

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.71+/- 1.70	210.6+/-	18.3	4.0+/-	14.0
02	17 19 21	3.94+/- 1.60	205.5+/-	22.0	5.5+/-	18.9
03	38 40 42	1.89+/- 1.02	194.1+/-	18.6	11.4+/-	14.2
04	41 43 45	2.48+/- 1.12	187.0+/-	37.0	2.0+/-	15.8
05	50 52 54	2.80+/- 1.55	211.4+/-	27.8	13.3+/-	23.2
06	56 58 60	.62+/- .68	208.1+/-	28.9	23.9+/-	18.0

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 1707 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	59.5	77	56.1	78	59.1	36	60.7	12	50.5
Cat2	68	60.9	110	58.1	131	58.5	93	60.8	63	48.4
Cat3	5	63.7	19	63.3	12	60.5	4	62.3	1	55.8
Cat4	3	63.4	8	64.8	4	60.3	2	58.3	1	53.4
Cat5	2	64.4	3	73.0	0	.0	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	64.1	68	61.8	93	60.3	57	57.7	17	46.7
Cat2	167	65.6	176	61.4	149	61.4	42	57.6	35	48.0
Cat3	6	68.0	11	61.2	9	60.4	5	55.5	0	.0
Cat4	6	66.7	10	62.8	5	65.5	0	.0	0	.0
Cat5	2	62.7	1	60.8	7	64.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.2	547	32.0	60.1	1034	60.6	61.9	72	4.2	63.5	39	2.3	65.8	15	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.745+/-	1.403	37	N VA 102'	.346+/-	1.162
12	N Dasibi CO	1.976+/-	.461	38	S BDT PER	1.551+/-	.944
13	N TDP PAR	1.047+/-	.781	39	N VA 74'	.154+/-	.479
14	N Dasibi OJ	.014+/-	.002	40	S BDT PAR	.350+/-	.506
15	N TDP VER	.143+/-	.630	41	N GND PER	1.047+/-	.915
16	N NOX/TECO	.196+/-	.051	42	S BDT VER	.265+/-	.312
17	N BDT PER	1.968+/-	1.320	43	N GND PAR	.489+/-	1.016
18	N BDT PAR	.461+/-	.805	45	N GND VER	.178+/-	.288
20	N ND2/TECO	.018+/-	.007	49	N Ecolyzer-1	1.150+/-	.210
21	N BDT VER	.160+/-	.612	50	S TDP PER	2.026+/-	1.443
22	N ND/TECO	.173+/-	.054	51	N Ecolyzer-2	1.104+/-	.337
23	N HA 102'	4.714+/-	1.167	52	S TDP PAR	.989+/-	.793
24	N THC/Byron	1.935+/-	.075	53	N Ecolyzer-3	2.173+/-	.572

25	N WV 102'	189.986+/-	11.697	DEGR AZ	54	S TDP VER	.131+/-	.561	mph
26	N NMHC/Byron	2.718+/-	.059	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	69.507+/-	2.157	DEGR F	56	S GND PER	.236+/-	.346	mph
28	N CH4/Byron	1.340+/-	.091	ppm	57	N Ecolyzer-5	2.802+/-	.982	ppm
29	N WV 74'	180.160+/-	14.067	DEGR AZ	58	S GND PAR	.181+/-	.408	mph
30	N CD/Byron	.355+/-	.079	ppm	59	N Rel Hum	63.019+/-	.480	%
31	N 74' Temp	67.605+/-	3.409	DEGR F	60	S GND VER	.125+/-	.149	mph
32	N CO2/Byron	394.968+/-	4.396	ppm	61	N Solar Rad	27.976+/-	5.404	W/m <sup>2</sup>
35	N HA 74'	3.885+/-	2.366	mph	64	S VA 55'	.434+/-	.546	mph

UVV Vector Calculations						
UVV	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	3.12+/-	1.37	202.3+/-	16.5	5.5+/- 14.3
02	17 19 21	2.29+/-	1.27	195.7+/-	26.5	6.9+/- 21.1
03	38 40 42	1.70+/-	.97	194.8+/-	15.7	13.0+/- 15.5
04	41 43 45	1.55+/-	.95	181.1+/-	42.1	10.5+/- 17.4
05	50 52 54	2.46+/-	1.44	209.3+/-	21.8	11.4+/- 21.7
06	56 58 60	.42+/-	.49	218.3+/-	23.8	28.8+/- 19.1

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic : 6840 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	219	59.6	355	56.3	305	59.1	151	60.4	62	49.4
Cat 2	246	61.2	413	58.0	492	59.5	367	60.5	273	49.0
Cat 3	23	62.5	68	62.7	47	60.0	26	58.8	7	50.5
Cat 4	10	65.4	23	64.4	18	60.7	6	58.5	6	49.5
Cat 5	6	66.0	6	68.9	1	69.3	2	58.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	267	64.1	261	60.2	346	60.5	207	57.6	78	47.5
Cat 2	679	65.2	690	61.2	554	61.4	186	59.0	135	47.5
Cat 3	28	66.0	81	61.7	54	61.3	13	58.9	2	44.0
Cat 4	25	67.0	38	62.8	33	63.8	2	61.8	0	0
Cat 5	4	64.2	9	64.3	15	65.2	1	61.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	2251	32.9	59.9	4035	59.0	61.4	349	5.1	63.2	161	2.4	65.2	44	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.445+/-	1.677	37	N VA 102'	.289+/-	1.117
12	N Dasibi CD	1.807+/-	.400	38	S BDT PER	1.668+/-	.986
13	N TDP PAR	1.382+/-	1.170	39	N VA 74'	.060+/-	.809
14	N Dasibi O3	.017+/-	.004	40	S BDT PAR	.332+/-	.630
15	N TDP VER	.092+/-	.802	41	N GND PER	1.537+/-	1.180
16	N NOX/TECO	.170+/-	.051	42	S BDT VER	.253+/-	.354
17	N BDT PER	2.657+/-	1.661	43	N GND PAR	-.269+/-	1.331
19	N BDT PAR	.810+/-	1.152	45	N GND VER	-.097+/-	.443
20	N NO2/TECO	.021+/-	.006	48	N Ecolyzer-1	1.023+/-	.228
21	N BDT VER	.112+/-	.784	50	S TDP PER	2.073+/-	1.526
22	N NO/TECO	.147+/-	.053	51	N Ecolyzer-2	1.004+/-	.346
23	N HA 102'	5.539+/-	1.615	52	S TDP PAR	.908+/-	1.014
24	N THC/Byron	1.940+/-	.065	53	N Ecolyzer-3	1.843+/-	.629
25	N WV 102'	193.087+/-	14.715	54	S TDP VER	.179+/-	.633
26	N NMHC/Byron	2.715+/-	.047	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	70.184+/-	2.680	56	S GND PER	.359+/-	.513
28	N CH4/Byron	1.329+/-	.062	57	N Ecolyzer-5	2.431+/-	1.186
29	N WV 74'	182.983+/-	16.944	58	S GND PAR	.075+/-	.474
30	N CD/Byron	.362+/-	.062	59	N Rel Hum	61.256+/-	1.274
31	N 74' Temp	68.712+/-	2.501	60	S GND VER	.124+/-	.136
32	N CO2/Byron	395.090+/-	3.170	61	N Solar Rad	55.328+/-	21.808
35	N HA 74'	4.583+/-	2.347	64	S VA 55'	.375+/-	.644

UVV Vector Calculations						
UVV	Channels	Vector	Sum (mph)	Bearing	Deg Az	Elevation Angle (Deg)
01	11 13 15	3.98+/-	1.66	203.7+/-	18.8	4.1+/- 13.7
02	17 19 21	3.12+/-	1.64	198.3+/-	25.3	5.4+/- 18.8
03	38 40 42	1.83+/-	1.04	192.4+/-	16.8	11.4+/- 14.3
04	41 43 45	2.10+/-	1.18	171.8+/-	40.4	5.5+/- 15.4
05	50 52 54	2.57+/-	1.52	207.7+/-	26.0	12.2+/- 23.5
06	58 58 60	.54+/-	.60	209.1+/-	32.3	24.9+/- 18.7



17:28:27 -- ADJUSTED VACUUM PRESSURE ON NCD-2 SAMPLE LINE (LOWERED) GRD  
 17:37:47 -- BEGIN END CALIB. ON ECD. GRD  
 17:38:08 -- BEGIN END CAL. NCD-1  
 17:44:08 -- BEGIN END CAL. NCD-2  
 17:46:21 -- ABOVE DRIFT VALUES FOR ZERO IN NCD-1 ARE WRONG DISREGARD  
 17:51:00 -- END CAL. NCD-1 COMPLETE GRD  
 17:52:01 -- BEGIN END CAL. NCD-03 GRD  
 17:56:27 -- BEGIN END CAL. NCD-4

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 1745 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	58.2	86	55.8	71	55.3	38	60.3	21	52.0
Cat2	72	60.5	124	58.0	118	60.1	82	59.7	66	49.7
Cat3	5	62.2	16	64.3	20	61.2	5	63.4	0	0
Cat4	5	62.5	2	57.8	2	62.0	6	59.9	0	0
Cat5	0	0	2	66.5	1	65.1	1	64.4	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	64.0	76	60.4	89	60.1	41	58.0	19	48.2
Cat2	179	66.2	164	61.3	143	61.6	53	59.1	40	48.2
Cat3	12	65.1	19	62.4	10	61.8	4	54.4	1	54.4
Cat4	4	67.0	10	62.6	8	63.7	0	0	0	0
Cat5	0	0	3	65.1	3	63.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	555	32.4	60.1	1041	59.7	62.4	92	5.3	62.6	37	2.1	64.8	10	.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.514+/-	1.061	37	N VA 102'	.204+/-	1.083
12	N Dasibi CO	2.120+/-	.347	38	S BDT PER	1.259+/-	.747
13	N TOP PAR	.778+/-	.732	39	N VA 74'	.167+/-	.431
14	N Dasibi O3	.013+/-	.001	40	S BDT PAR	.187+/-	.207
15	N TOP VER	.115+/-	.521	41	N GND PER	.921+/-	.813
16	N ND/TECD	.206+/-	.048	42	S BDT VER	.318+/-	.289
17	N BDT PER	1.908+/-	.904	43	N GND PAR	-1.082+/-	.911
19	N BDT PAR	.282+/-	.737	45	N GND VER	.185+/-	.251
20	N ND2/TECD	.018+/-	.007	49	N Ecolyzer-1	1.287+/-	.223
21	N BDT VER	.100+/-	.462	50	S TOP PER	1.430+/-	1.031
22	N ND/TECD	.183+/-	.053	51	N Ecolyzer-2	*****	*****
23	N HA 102'	4.118+/-	.735	52	S TOP PAR	.442+/-	.704
24	N THC/Byron	1.964+/-	.086	53	N Ecolyzer-3	2.345+/-	.596
25	N WV 102'	186.172+/-	10.465	54	S TOP VER	.150+/-	.384
26	N NMHC/Byro	2.688+/-	.078	55	N Ecolyzer-4	2.558+/-	.571
27	N Gnd Temp	67.917+/-	3.429	56	S GND PER	.153+/-	.062
28	N CH4/Byron	1.327+/-	.080	57	N Ecolyzer-5	2.899+/-	.762
29	N WV 74'	176.061+/-	13.481	58	S GND PAR	.054+/-	.306
30	N CD/Byron	.375+/-	.072	59	N Rel Hum	64.403+/-	.559
31	N 74' Temp	67.084+/-	2.432	60	S GND VER	.132+/-	.085
32	N CO2/Byron	395.782+/-	4.394	61	N Solar Rad	13.489+/-	5.968
35	N HA 74'	3.680+/-	1.965	64	S VA 55'	.294+/-	.448

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle [Deg]
01	11 13 15	2.79+/- 1.04	196.8+/- 15.8	5.3+/- 16.2
02	17 19 21	2.13+/- .86	188.8+/- 24.6	4.0+/- 17.7
03	38 40 42	1.38+/- .70	192.7+/- 15.7	17.2+/- 18.2
04	41 43 45	1.67+/- .91	132.7+/- 36.2	9.2+/- 14.5
05	50 52 54	1.68+/- 1.08	198.5+/- 24.8	11.4+/- 21.0
06	56 58 60	.30+/- .24	216.4+/- 26.6	31.6+/- 16.2

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 1704 vehicles averaging 59.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	58.4	86	55.8	73	57.9	37	60.1	14	49.6
Cat2	60	58.8	112	57.3	123	59.1	87	59.8	66	49.7
Cat3	7	62.4	20	60.4	7	59.9	4	58.6	5	47.2
Cat4	3	63.3	7	62.7	5	64.7	2	62.9	0	0
Cat5	2	60.9	1	62.2	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	63.9	54	59.4	90	60.3	56	57.9	18	46.5
Cat2	172	65.6	192	61.2	121	61.1	58	59.0	35	47.6
Cat3	7	65.4	16	62.8	20	60.8	1	58.1	1	48.6
Cat4	1	74.9	9	63.5	6	64.7	0	0	0	0
Cat5	0	0	1	64.9	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	553	32.5	59.7	1026	60.2	60.5	88	5.2	64.0	33	1.9	62.2	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.420+/-	.948	37	N VA 102'	.169+/-	1.195
12	N Dasibi CO	2.608+/-	.472	38	S BDT PER	1.085+/-	.533
13	N TOP PAR	.029+/-	.861	39	N VA 74'	.035+/-	.399
14	N Dasibi O3	.013+/-	.002	40	S BDT PAR	.178+/-	.096
15	N TOP VER	.108+/-	.505	41	N GND PER	1.160+/-	.954
16	N ND/TECD	.241+/-	.054	42	S BDT VER	.273+/-	.206
17	N BDT PER	1.826+/-	.803	43	N GND PAR	-1.567+/-	1.039
19	N BDT PAR	.269+/-	.670	45	N GND VER	.153+/-	.252
20	N ND2/TECD	.009+/-	.011	49	N Ecolyzer-1	1.578+/-	.223
21	N BDT VER	.063+/-	.457	50	S TOP PER	1.430+/-	.767
22	N ND/TECD	.225+/-	.051	51	N Ecolyzer-2	*****	*****
23	N HA 102'	4.623+/-	1.130	52	S TOP PAR	.181+/-	.466
24	N THC/Byron	1.946+/-	.052	53	N Ecolyzer-3	2.608+/-	.735
25	N WV 102'	174.927+/-	12.219	54	S TOP VER	.178+/-	.243
26	N NMHC/Byro	2.728+/-	.056	55	N Ecolyzer-4	2.843+/-	.658
27	N Gnd Temp	68.230+/-	2.858	56	S GND PER	.144+/-	.049
28	N CH4/Byron	1.324+/-	.082	57	N Ecolyzer-5	3.567+/-	.750
29	N WV 74'	184.264+/-	15.120	58	S GND PAR	.125+/-	.050
30	N CD/Byron	.407+/-	.061	59	N Rel Hum	65.738+/-	.824

31	N 74' Temp	68.847+/-	2.803	DEGR F	60	S GND VER	.141+/-	.054	mph
32	N CO2/Byron	394.805+/-	3.410	ppm	61	N Solar Rad	6.585+/-	1.989	W/m <sup>2</sup>
35	N HA 74'	3.658+/-	2.038	mph	64	S VA 55'	.270+/-	.319	mph

UVW	Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
		Vector Sum (mph)			
01	11 13 15	2.57+/-	.93	180.8+/-	17.6
02	17 19 21	2.03+/-	.76	171.1+/-	22.9
03	38 40 42	1.17+/-	.50	191.6+/-	9.9
04	41 43 45	2.20+/-	1.01	127.1+/-	27.7
05	50 52 54	1.56+/-	.73	174.1+/-	24.1
06	56 58 60	.25+/-	.05	221.0+/-	14.3

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 1693 Vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	57.2	101	55.2	76	57.4	30	59.7	14	49.7
Cat2	74	59.2	115	56.7	129	58.6	82	59.4	56	48.8
Cat3	8	58.6	14	62.3	18	60.2	0	0	3	46.6
Cat4	5	64.4	8	63.5	4	55.8	2	58.2	0	0
Cat5	0	0	0	0	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	62.3	52	58.2	66	59.7	64	56.6	12	47.6
Cat2	178	64.1	171	60.1	140	59.8	56	57.5	33	46.0
Cat3	13	65.3	21	61.9	15	60.0	2	54.5	1	35.9
Cat4	2	59.0	8	57.5	8	60.6	1	53.7	0	0
Cat5	0	0	0	0	3	61.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	524	31.0	58.9	1034	61.1	60.6	93	5.5	60.3	39	2.3	61.3	3	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.435+/-	2.052	37	N VA 102'	.161+/-	1.206
12	N Dasibi CO	2.312+/-	.343	38	S BOT PER	2.301+/-	1.308
13	N TOP PAR	-.032+/-	1.322	39	N VA 74'	-.048+/-	.968
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	-.028+/-	.791
15	N TOP VER	.140+/-	.877	41	N GND PER	1.683+/-	1.126
16	N NDX/TECO	.197+/-	.043	42	S BOT VER	.352+/-	.477
17	N BOT PER	3.092+/-	1.881	43	N GND PAR	-1.220+/-	1.335
19	N BOT PAR	-.530+/-	1.378	45	N GND VER	.112+/-	.386
20	N ND2/TECO	.016+/-	.007	49	N Ecolyzer-1	*****	*****
21	N BOT VER	.164+/-	.807	50	S TOP PER	2.982+/-	1.631
22	N ND/TECO	.176+/-	.047	51	N Ecolyzer-2	1.521+/-	.368
23	N HA 102'	6.541+/-	1.614	52	S TOP PAR	-.232+/-	1.154
24	N THC/Byron	1.952+/-	.061	53	N Ecolyzer-3	2.413+/-	.693
25	N WV 102'	172.738+/-	12.860	54	S TOP VER	.335+/-	.660
26	N NMHC/Byro	2.739+/-	.074	55	N Ecolyzer-4	2.541+/-	.650
27	N Gnd Temp	68.021+/-	2.259	56	S GND PER	.776+/-	.920
28	N CH4/Byron	1.288+/-	.062	57	N Ecolyzer-5	3.273+/-	.846
29	N WV 74'	163.426+/-	17.005	58	S GND PAR	-.264+/-	.858
30	N CD/Byron	.407+/-	.071	59	N Rel Hum	67.709+/-	.947
31	N 74' Temp	68.855+/-	2.062	60	S GND VER	.133+/-	1.67
32	N CO2/Byron	394.968+/-	3.091	61	N Solar Rad	4.769+/-	1.961
35	N HA 74'	5.892+/-	2.570	64	S VA 55'	.361+/-	.805

UVW	Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
		Vector Sum (mph)			
01	11 13 15	4.73+/-	2.01	181.0+/-	19.5
02	17 19 21	3.55+/-	1.83	169.0+/-	27.7
03	38 40 42	2.48+/-	1.36	184.0+/-	17.5
04	41 43 45	2.51+/-	1.10	144.4+/-	34.5
05	50 52 54	3.28+/-	1.85	177.3+/-	22.4
06	56 58 60	1.02+/-	1.12	189.7+/-	35.5

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 1776 Vehicles averaging 52.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	56.6	81	53.5	75	55.3	35	58.7	17	49.1
Cat2	58	59.0	121	55.0	136	56.4	85	59.0	58	46.5
Cat3	11	58.7	18	60.2	13	57.7	3	58.5	1	44.7
Cat4	5	63.5	10	62.3	3	54.2	2	56.0	0	0
Cat5	1	63.3	1	69.8	0	0	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	57.3	38	54.6	36	53.0	41	48.9	38	39.0
Cat2	206	54.4	221	49.9	190	44.2	41	45.8	44	38.6
Cat3	9	56.1	21	44.7	16	48.6	2	55.3	0	0
Cat4	3	47.9	4	58.3	6	44.9	1	56.3	0	0
Cat5	0	0	0	0	2	60.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.4	484	27.3	51.4	1160	65.3	53.5	94	5.3	56.4	34	1.9	63.6	4	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.367+/-	1.957	37	N VA 102'	.242+/-	1.238
12	N Dasibi CO	1.743+/-	.296	38	S BOT PER	2.331+/-	1.347
13	N TOP PAR	-.848+/-	1.378	39	N VA 74'	-.301+/-	1.069
14	N Dasibi O3	.017+/-	.003	40	S BOT PAR	-.103+/-	.997
15	N TOP VER	-.078+/-	1.032	41	N GND PER	2.170+/-	1.424
16	N NDX/TECO	.156+/-	.045	42	S BOT VER	.307+/-	.422
17	N BOT PER	3.589+/-	2.028	43	N GND PAR	-1.787+/-	1.458
19	N BOT PAR	-1.166+/-	1.348	45	N GND VER	-.016+/-	.550
20	N ND2/TECO	.024+/-	.007	49	N Ecolyzer-1	*****	*****
21	N BOT VER	.051+/-	.870	50	S TOP PER	3.124+/-	1.552
22	N ND/TECO	.128+/-	.048	51	N Ecolyzer-2	*****	*****

23	N HA 102'	7.029+/-	1.808	mph	52	S TDP PAR	-.395+/-	1.255	wph
24	N THC/Byron	1.935+/-	.043	ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	172.135+/-	11.572	DEGR AZ	54	S TDP VER	.327+/-	.785	mph
26	N NMHC/Byro	2.710+/-	.060	ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	66.879+/-	2.443	DEGR F	56	S GND PER	.797+/-	1.004	mph
28	N CH4/Byron	1.324+/-	.059	ppm	57	N EcoLyzer-5	2.426+/-	.806	ppm
29	N WV 74'	158.838+/-	13.563	DEGR AZ	58	S GND PAR	-.176+/-	.723	mph
30	N CO/Byron	.386+/-	.059	ppm	59	N Rel Hum	71.373+/-	.943	%
31	N 74' Temp	66.641+/-	3.256	DEGR F	60	S GND VER	.076+/-	.449	mph
32	N CO2/Byron	395.620+/-	3.114	ppm	61	N Solar Rad	3.679+/-	1.941	W/m <sup>2</sup> =2
35	N HA 74'	6.553+/-	2.616	mph	64	S VA 55'	.495+/-	.874	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.68+/- 2.01	171.5+/- 13.4	.8+/- 11.7		
02	17 19 21	4.13+/- 1.97	159.1+/- 25.0	3.2+/- 17.6		
03	38 40 42	2.55+/- 1.41	182.0+/- 20.1	10.5+/- 12.4		
04	41 43 45	3.22+/- 1.41	140.4+/- 27.2	3+/- 11.0		
05	50 52 54	3.48+/- 1.59	174.8+/- 21.9	9.1+/- 16.4		
06	56 58 60	1.03+/- 1.16	193.5+/- 35.5	18.0+/- 19.4		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 6918 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	229	57.6	354	55.1	295	57.5	140	59.7	66	50.3
Cat2	264	59.4	472	56.7	506	58.5	336	59.5	246	48.7
Cat3	31	60.1	68	61.6	56	59.9	12	60.6	9	46.7
Cat4	19	63.5	27	62.4	14	59.5	12	59.5	0	.0
Cat5	3	61.7	4	66.2	1	65.1	1	64.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	252	62.1	220	58.6	281	59.2	202	55.7	87	43.7
Cat2	735	62.3	748	57.6	594	55.5	208	58.0	152	44.8
Cat3	41	63.3	77	57.5	61	57.6	9	55.0	3	46.3
Cat4	10	60.5	31	61.0	28	59.0	2	55.0	0	.0
Cat5	0	.0	4	65.1	8	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	2126	30.7	57.3	4261	61.6	59.2	367	5.3	60.8	143	2.1	63.6	21	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.684+/- 2.025	mph	37	N VA 102'	.194+/- 1.160	mph
12	N Dasibi CD	2.186+/- .486	ppm	38	S BOT PER	1.744+/- 1.191	mph
13	N TDP PAR	-.018+/- 1.217	mph	39	N VA 74'	-.037+/- .796	mph
14	N Dasibi D3	.014+/- .003	ppm	40	S BOT PAR	.058+/- .658	mph
15	N TDP VER	.071+/- .772	mph	41	N GND PER	1.484+/- 1.202	mph
16	N ND/TECO	.200+/- .056	ppm	42	S BOT VER	.312+/- .365	mph
17	N BDT PER	2.804+/- 1.666	mph	43	N GND PAR	-1.414+/- 1.235	mph
19	N BDT PAR	-.421+/- 1.202	mph	45	N GND VER	.109+/- .387	mph
20	N ND2/TECO	-.017+/- .010	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.094+/- .676	mph	50	S TDP PER	2.242+/- 1.528	mph
22	N ND/TECO	.178+/- .063	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	5.578+/- 1.853	mph	52	S TDP PAR	-.091+/- 1.001	mph
24	N THC/Byron	1.949+/- .062	ppm	53	N EcoLyzer-3	2.348+/- .695	ppm
25	N WV 102'	176.498+/- 13.028	DEGR AZ	54	S TDP VER	2.247+/- .566	mph
26	N NMHC/Byro	2.716+/- .069	ppm	55	N EcoLyzer-4	2.523+/- .679	ppm
27	N Gnd Temp	67.787+/- 2.755	DEGR F	56	S GND PER	.467+/- .752	mph
28	N CH4/Byron	1.316+/- .066	ppm	57	N EcoLyzer-5	3.041+/- .899	ppm
29	N WV 74'	155.850+/- 16.052	DEGR AZ	58	S GND PAR	-.065+/- .603	mph
30	N CO/Byron	.394+/- .066	ppm	59	N Rel Hum	67.306+/- 2.770	%
31	N 74' Temp	67.807+/- 2.780	DEGR F	60	S GND VER	.120+/- .244	mph
32	N CO2/Byron	395.294+/- 3.464	ppm	61	N Solar Rad	7.130+/- 5.098	W/m <sup>2</sup> =2
35	N HA 74'	4.946+/- 2.651	mph	64	S VA 55'	.355+/- .659	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.94+/- 2.05	182.5+/- 18.8	3.5+/- 13.6		
02	17 19 21	2.86+/- 1.72	172.0+/- 26.8	4.1+/- 17.2		
03	38 40 42	1.80+/- 1.24	187.6+/- 16.8	13.8+/- 15.3		
04	41 43 45	2.40+/- 1.25	136.1+/- 32.2	4.8+/- 12.8		
05	50 52 54	2.50+/- 1.58	181.0+/- 25.0	10.3+/- 17.2		
06	56 58 60	.85+/- .90	206.3+/- 31.8	26.1+/- 18.2		

18:00:54 -- END CAL. NCO-3 COMPLETE GRD  
 18:01:24 -- BEGIN END CAL. NCO-5 GRD  
 18:04:03 -- END CAL. NCO-4 COMPLETE  
 18:15:58 -- SPANNING CH 53 NCO-3

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 1719 Vehicles averaging 55.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	55.7	106	53.1	50	56.4	38	56.4	11	47.8
Cat2	70	57.7	98	54.8	128	55.9	68	57.0	56	46.9
Cat3	6	60.2	10	59.2	14	57.9	1	65.7	4	42.8
Cat4	6	60.6	6	58.5	2	57.0	1	63.6	1	56.0
Cat5	0	.0	2	57.8	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	60.4	44	56.7	74	55.9	51	54.3	24	43.7
Cat2	183	61.7	217	56.5	165	53.9	61	53.6	27	43.6
Cat3	9	60.7	17	57.6	12	56.9	3	60.1	0	.0
Cat4	4	62.7	10	57.8	5	57.8	1	49.4	0	.0
Cat5	0	.0	1	66.1	2	59.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	521	30.3	55.8	1081	62.9	57.8	76	4.4	58.8	36	2.1	60.1	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.135+/-	1.720	37	N VA 102'	.189+/-	1.295
12	N Dasibi CD	1.592+/-	.325	38	S BDT PER	2.518+/-	1.321
13	N TDP PAR	- .462+/-	1.501	39	N VA 74'	- .053+/-	1.027
14	N Dasibi O3	.016+/-	.003	40	S BDT PAR	- .167+/-	.800
15	N TDP VER	.101+/-	1.129	41	N GND PER	2.267+/-	1.344
16	N ND/TECD	.160+/-	.038	42	S BDT VER	.378+/-	.575
17	N BDT PER	3.481+/-	1.757	43	N GND PAR	-1.380+/-	1.525
19	N BDT PAR	- .848+/-	1.434	45	N GND VER	.080+/-	.654
20	N ND2/TECD	.023+/-	.006	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	.189+/-	.898	50	S TDP PER	3.059+/-	1.794
22	N ND/TECD	.134+/-	.041	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	7.067+/-	1.484	52	S TDP PAR	- .345+/-	1.175
24	N THC/Byron	1.948+/-	.085	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	189.548+/-	11.364	54	S TDP VER	.169+/-	.845
26	N NMHC/Byro	2.716+/-	.090	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	65.025+/-	2.060	56	S GND PER	.799+/-	.596
28	N CH4/Byron	1.374+/-	.105	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	159.287+/-	14.283	58	S GND PAR	- .125+/-	.633
30	N CD/Byron	.324+/-	.105	59	N Rel Hum	73.587+/-	.868
31	N 74' Temp	64.478+/-	3.058	60	S GND VER	.091+/-	.194
32	N CD2/Byron	394.480+/-	4.357	61	N Solar Rad	2.907+/-	2.352
35	N HA 74'	6.249+/-	2.489	64	S VA 55'	.468+/-	.834

UVW Vector Calculations

UVW	Channels	vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.47+/- 1.78	175.7+/- 15.1	2.6+/- 13.3
02	17 19 21	3.95+/- 1.80	165.8+/- 24.8	5.4+/- 16.8
03	38 40 42	2.72+/- 1.35	179.2+/- 16.8	10.3+/- 14.6
04	41 43 45	3.13+/- 1.33	149.9+/- 29.1	2.0+/- 12.0
05	50 52 54	3.37+/- 1.66	175.6+/- 19.9	7.2+/- 17.9
06	56 58 60	1.01+/- .94	193.0+/- 35.4	14.5+/- 20.7

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 0 Vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-	*****	37	N VA 102'	*****+/-	*****
12	N Dasibi CD	*****+/-	*****	38	S BDT PER	*****+/-	*****
13	N TOP PAR	*****+/-	*****	39	N VA 74'	*****+/-	*****
14	N Dasibi O3	*****+/-	*****	40	S BDT PAR	*****+/-	*****
15	N TOP VER	*****+/-	*****	41	N GND PER	*****+/-	*****
16	N ND/TECD	*****+/-	*****	42	S BDT VER	*****+/-	*****
17	N BDT PER	*****+/-	*****	43	N GND PAR	*****+/-	*****
19	N BDT PAR	*****+/-	*****	45	N GND VER	*****+/-	*****
20	N ND2/TECD	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	*****+/-	*****	50	S TDP PER	*****+/-	*****
22	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	*****+/-	*****	52	S TDP PAR	*****+/-	*****
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	*****+/-	*****	54	S TDP VER	*****+/-	*****
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	*****+/-	*****	56	S GND PER	*****+/-	*****
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	*****+/-	*****	58	S GND PAR	*****+/-	*****
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	*****+/-	*****
31	N 74' Temp	*****+/-	*****	60	S GND VER	*****+/-	*****
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	*****+/-	*****
35	N HA 74'	*****+/-	*****	64	S VA 55'	*****+/-	*****

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	4.7+/- 5.4	*****+/-*****		
02	17 19 21	*****+/-*****	21.6+/- 18.6	156.4+/-*****		
03	38 40 42	*****+/-*****	-5.0+/- 9.0	907.8+/-*****		
04	41 43 45	*****+/-*****	40.6+/- 43.6	137.2+/-*****		
05	50 52 54	*****+/-*****	7.4+/- 10.6	499.5+/-*****		
06	56 58 60	79.36+/-*****	-25.3+/- 31.2	*****+/-*****		

Average for 15 minute period ending at 18:45:00  
Average for 15 minute period ending at 19:00:00  
Average for hourly period ending at 19:00:00

Traffic Data  
Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi 03	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	18:00:00	546 vehicles
02	18:00:00	1038 vehicles
03	18:00:00	925 vehicles
04	15:00:00	1091 vehicles
05	14:00:00	878 vehicles
06	17:00:00	1002 vehicles
07	15:00:00	597 vehicles
08	15:00:00	481 vehicles
09	15:00:00	388 vehicles
10	13:00:00	304 vehicles
11	12:00:00	4.871 mph
12	18:00:00	2.196 ppm
13	14:00:00	5.231 ppm
14	14:00:00	.031 ppm
15	14:00:00	.409 mph
16	18:00:00	.200 ppm
17	13:00:00	4.599 mph
19	14:00:00	4.681 mph
20	14:00:00	.025 ppm
21	14:00:00	.395 mph
22	18:00:00	.178 ppm
23	13:00:00	10.598 mph
24	13:00:00	2.185 ppm
25	14:00:00	228.833 DEGR AZ
26	15:00:00	6.620 ppm
27	14:00:00	74.594 DEGR F
28	12:00:00	1.457 ppm
29	14:00:00	218.348 DEGR AZ
30	13:00:00	1.001 ppm
31	15:00:00	71.467 DEGR F
32	12:00:00	398.489 ppm
35	13:00:00	8.360 mph
37	14:00:00	.458 mph
38	15:00:00	2.529 mph
39	15:00:00	.154 mph
40	13:00:00	2.058 mph
41	13:00:00	2.913 mph
42	12:00:00	.340 mph
43	14:00:00	3.373 mph
45	14:00:00	.207 mph
49	17:00:00	1.023 ppm
50	15:00:00	3.420 mph
51	17:00:00	1.004 ppm
52	13:00:00	3.424 mph
53	18:00:00	2.348 ppm
54	12:00:00	.326 mph
55	18:00:00	2.523 ppm
56	15:00:00	1.105 mph
57	18:00:00	3.041 ppm
58	14:00:00	.767 mph
59	18:00:00	67.306 %
60	12:00:00	.210 mph
61	13:00:00	574.884 W/m**2
64	17:00:00	.375 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 09, 1984  
 11:22:26 -- 12/09/84  
 11:22:27 -- This is a calibration data file. It is the 10th file on tape ZX1320. It will  
 11:22:28 -- contain end and start calibration data for the DASIBI CD monitor and the BYRON 40  
 11:22:29 -- 1. All other instruments will be invalidated (except met instruments).  
 11:23:20 -- Begin reading BYRON span drifts. MWH  
 11:28:25 -- IGNORE ALL GROUND UVW DATA  
 11:29:40 -- BEGIN READING DASIBI CD SPAN DRIFTS  
 11:34:20 -- READ DASIBI CD ZERO DRIFT  
 11:41:07 -- READING NEW DASIBI ZERO  
 11:54:11 -- IGNORE NEW DASIBI CD ZEROS WILL RECORD NEW ZEROS NOW

Average for 15 minute period ending at 11:15:00  
 Average for 15 minute period ending at 11:30:00

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup> =2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 11:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.705+/- 3.226	mph	37	N VA 102'	.306+/- 1.755	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	2.638+/- 2.014	mph
13	N TOP PAR	5.178+/- 2.028	mph	39	N VA 74'	-.062+/- 1.857	mph
14	N Dasibi O3	.025+/- .005	ppm	40	S BOT PAR	1.939+/- 1.885	mph
15	N TOP VER	.380+/- 1.658	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.242+/- 1.094	mph
17	N BOT PER	4.581+/- 3.189	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	4.622+/- 2.125	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.544+/- 1.327	mph	50	S TOP PER	3.637+/- 2.337	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.784+/- 3.138	mph	52	S TOP PAR	3.887+/- 2.063	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	221.233+/- 17.533	DEGR A2	54	S TOP VER	.153+/- 1.085	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	75.942+/- 3.157	DEGR F	56	S GND PER	1.169+/- 1.524	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	210.810+/- 18.702	DEGR A2	58	S GND PAR	.772+/- 1.629	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	68.862+/- 1.184	%
31	N 74' Temp	72.685+/- 2.277	DEGR F	60	S GND VER	.185+/- .973	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	328.040+/- 169.607	W/m <sup>2</sup> =2
35	N HA 74'	8.740+/- 2.956	mph	64	S VA 55'	.022+/- 1.413	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.71+/- 2.63	231.1+/- 20.8	4.8+/- 14.9
02	17 19 21	7.19+/- 2.88	227.9+/- 21.7	6.4+/- 14.8
03	38 40 42	3.95+/- 1.89	216.1+/- 29.4	8.2+/- 23.0
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	5.52+/- 2.41	225.8+/- 22.2	5.9+/- 16.7
06	56 58 60	2.33+/- 1.57	217.1+/- 43.2	9.4+/- 29.3

Average for 15 minute period ending at 12:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.188+/- 2.076	mph	37	N VA 102'	.443+/- 1.475	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	2.279+/- 1.998	mph
13	N TOP PAR	4.818+/- 1.951	mph	39	N VA 74'	.128+/- 1.558	mph
14	N Dasibi O3	.024+/- .006	ppm	40	S BOT PAR	1.255+/- 1.542	mph
15	N TOP VER	.312+/- 1.374	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.275+/- .644	mph
17	N BOT PER	3.299+/- 2.059	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	3.917+/- 1.946	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.243+/- 1.138	mph	50	S TOP PER	2.668+/- 2.372	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.882+/- 2.576	mph	52	S TOP PAR	2.402+/- 1.765	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	226.058+/- 16.825	DEGR A2	54	S TOP VER	.357+/- .931	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	73.780+/- 1.753	DEGR F	56	S GND PER	.988+/- 1.224	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	215.508+/- 17.689	DEGR A2	58	S GND PAR	.589+/- 1.148	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	68.881+/- .453	%
31	N 74' Temp	71.565+/- 2.978	DEGR F	60	S GND VER	.230+/- .700	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	204.826+/- 46.196	W/m <sup>2</sup> =2
35	N HA 74'	6.919+/- 2.376	mph	64	S VA 55'	.397+/- 1.229	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.99+/- 2.18	236.2+/- 18.6	5.0+/- 13.1
02	17 19 21	5.54+/- 2.22	231.5+/- 19.5	4.7+/- 14.3
03	38 40 42	2.97+/- 2.19	206.5+/- 29.0	10.4+/- 17.8
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	4.11+/- 2.82	223.7+/- 21.8	11.2+/- 22.0

Average for hourly period ending at 12:00:00  
Regular Channels

<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>	<u>Channel</u>	<u>Instrument</u>	<u>Value</u>	<u>Units</u>
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
<u>UVW</u>	<u>Channels</u>	<u>Vector Sum (mph)</u>	<u>Bearing Deg A2</u>	<u>Elevation Angle (Deg)</u>		
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****		
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****		
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****		
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****		



12:03:20 -- READ NEW DASIBI CO SPAN  
 12:03:48 -- WILL RECALIB BYRON AND DO START AND END CALIBRATIONS ON TECO NOX TONIGHT. MWH  
 12:05:34 -- SPAN GASES--DASIBI CO=6.5 ppm; BYRON 135 ppm THC; 75 ppm CO; 75 ppm CH4; 80 ppm  
 12:05:54 -- CO2; 25 ppm C3H8.

Average for 15 minute period ending at 12:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	*****+/-*****	*****+/- 87.9	734.6+/-*****
02	17 19 21	*****+/-*****	-93.3+/- 78.6	598.5+/-*****
03	38 40 42	*****+/-*****	-50.7+/- 37.4	*****+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****+/-*****	-80.9+/- 60.2	*****+/-*****
06	56 58 60	*****+/-*****	-41.4+/- 50.7	*****+/-*****

Average for 15 minute period ending at 12:30:00  
 Average for 15 minute period ending at 12:45:00  
 Average for 15 minute period ending at 13:00:00  
 Average for hourly period ending at 13:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	UVW Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg AZ	
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

20:24:47 -- Second calibration data file.  
 20:24:48 -- 12/09 84  
 20:24:49 -- This is the second calibration data run of the day. Byron spans and TECO drifts a  
 20:24:50 -- nd spans will be checked.

Average for 15 minute period ending at 20:15:00  
 Average for 15 minute period ending at 20:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
19	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
20	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
22	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
24	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
26	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
30	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
31	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
32	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph
35							

UVW Vector Calculations

UVW	Channels	Vector Sum (mpn)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 20:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.670+/- 1.223	mph	37	N VA 102'	.256+/- 1.380	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	1.074+/- .580	mph
13	N TOP PAR	.988+/- .925	mph	39	N VA 74'	.192+/- .418	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.176+/- .177	mph
15	N TOP VER	.199+/- .582	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.258+/- .286	mph
17	N BOT PER	1.933+/- 1.249	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	.482+/- .688	mph	45	N GND VER	*****+/-*****	mph
19	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
20	N BOT VER	.099+/- .285	mph	50	S TOP PER	1.134+/- .937	ppm
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
22	N HA 102'	5.509+/- 1.482	mph	52	S TOP PAR	.599+/- .438	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
24	N WV 102'	196.581+/- 10.347	DEGR AZ	54	S TOP VER	.169+/- .247	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
26	N Gnd Temp	66.797+/- 2.858	DEGR F	56	S GND PER	.148+/- .065	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	184.669+/- 12.519	DEGR AZ	58	S GND PAR	.133+/- .069	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	81.567+/- .526	%
30	N 74' Temp	66.745+/- 3.678	DEGR F	60	S GND VER	.141+/- .077	mph
31	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	23.662+/- 14.432	W/m**2
32	N HA 74'	4.406+/- 2.822	mph	64	S VA 55'	.384+/- .316	mph
35							

UVW Vector Calculations

UVW	Channels	Vector Sum (mpn)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	3.05+/- 1.24	200.3+/- 20.8	6.5+/- 15.5
02	17 19 21	2.15+/- 1.23	196.8+/- 23.9	6.0+/- 13.3
03	38 40 42	1.22+/- .48	193.2+/- 21.3	16.6+/- 20.8
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	1.42+/- .88	217.9+/- 26.6	14.0+/- 19.4
06	56 58 60	.25+/- .07	221.6+/- 20.7	32.8+/- 17.2

Average for 15 minute period ending at 21:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.332+/- 1.537	mph	37	N VA 102'	.380+/- 1.496	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	1.700+/- .911	mph
13	N TOP PAR	1.525+/- 1.003	mph	39	N VA 74'	.167+/- .787	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.329+/- .485	mph
15	N TOP VER	.127+/- .824	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BOT VER	.229+/- .524	mph
17	N BOT PER	2.890+/- 1.707	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	.848+/- .960	mph	45	N GND VER	*****+/-*****	mph
19	N ND2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
20	N BOT VER	-.028+/- .643	mph	50	S TOP PER	2.508+/- 1.309	ppm
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
22	N HA 102'	7.725+/- 1.749	mph	52	S TOP PAR	1.109+/- .889	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
24	N WV 102'	193.014+/- 9.510	DEGR AZ	54	S TOP VER	.298+/- .597	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
26	N Gnd Temp	66.615+/- 2.538	DEGR F	56	S GND PER	.287+/- .413	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	183.039+/- 12.692	DEGR AZ	58	S GND PAR	.089+/- .243	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	81.745+/- .576	%
30	N 74' Temp	66.693+/- 4.660	DEGR F	60	S GND VER	.150+/- .127	mph
31	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	19.166+/- 7.471	W/m**2
32	N HA 74'	5.941+/- 3.017	mph	64	S VA 55'	.537+/- .761	mph
35							

UVW Vector Calculations

UVW	Channels	Vector Sum (mpn)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	4.81+/- 1.54	201.0+/- 12.6	2.6+/- 10.7
02	17 19 21	3.36+/- 1.63	197.7+/- 24.2	2.1+/- 14.0
03	38 40 42	1.88+/- .92	190.7+/- 14.1	10.7+/- 18.4
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	2.97+/- 1.29	205.8+/- 18.8	9.6+/- 15.7
06	56 58 60	.43+/- .42	215.1+/- 31.5	29.7+/- 21.2

Average for hourly period ending at 21:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N ND2/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
Uvw	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****

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21:22:48 -- BEGIN READING TECO NDX DRIFTS (span). NDX SHOWED LITTLE DRIFT; NO DRIFTED U  
 21:22:51 -- PSCALE.  
 21:40:21 -- READ TECO ZERO DRIFTS  
 21:53:19 -- READ NEW TECO ZEROS

Average for 15 minute period ending at 21:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.929+/- 1.779	mph	37	N VA 102'	.165+/- 1.461	mph
12	N Das1b1 CD	*****+/-*****	ppm	38	S BDT PER	2.205+/- 1.227	mph
13	N TOP PAR	1.847+/- 1.289	ppm	39	N VA 74'	.054+/- .880	mph
14	N Das1b1 03	.011+/- .001	ppm	40	S BDT PAR	.500+/- 1.004	mph
15	N TOP VER	.089+/- .959	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	2.747+/- 1.735	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	1.272+/- 1.246	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.009+/- .689	mph	50	S TOP PER	3.537+/- 1.702	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	7.328+/- 2.051	mph	52	S TOP PAR	1.713+/- 1.359	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	196.384+/- 11.995	DEGR AZ	54	S TOP VER	.247+/- .734	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	67.422+/- 2.400	DEGR F	56	S GND PER	.491+/- .678	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	187.128+/- 15.510	DEGR AZ	58	S GND PAR	.185+/- .536	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	61.875+/- .668	%
31	N 74' Temp	68.048+/- 3.407	DEGR F	60	S GND VER	.169+/- .440	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	16.986+/- 9.574	W/m**2
35	N HA 74'	5.797+/- 2.777	mph	64	S VA 55'	.417+/- .814	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.62+/- 1.78	206.5+/- 17.2	1.0+/- 12.7
02	17 19 21	3.36+/- 1.70	205.7+/- 26.1	1.8+/- 15.2
03	38 40 42	2.54+/- 1.35	192.8+/- 17.9	9.8+/- 20.8
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	4.22+/- 1.72	207.4+/- 20.6	7.0+/- 14.4
06	56 58 60	.75+/- .84	211.7+/- 30.1	23.9+/- 27.3

Average for 15 minute period ending at 21:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.426+/- 1.537	mph	37	N VA 102'	.265+/- 1.327	mph
12	N Das1b1 CD	*****+/-*****	ppm	38	S BDT PER	1.670+/- 1.090	mph
13	N TOP PAR	1.689+/- 1.321	ppm	39	N VA 74'	-.018+/- .803	mph
14	N Das1b1 03	.011+/- .001	ppm	40	S BDT PAR	.414+/- .718	mph
15	N TOP VER	.016+/- .920	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	2.387+/- 1.378	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	1.079+/- 1.164	mph	45	N GND VER	*****+/-*****	ppm
20	N ND2/TECD	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.026+/- .749	mph	50	S TOP PER	2.744+/- 1.546	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.282+/- 2.035	mph	52	S TOP PAR	1.398+/- 1.045	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	202.099+/- 13.423	DEGR AZ	54	S TOP VER	.258+/- .628	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	65.390+/- 2.641	DEGR F	56	S GND PER	.263+/- .334	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	188.816+/- 16.347	DEGR AZ	58	S GND PAR	.171+/- .430	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	62.136+/- .510	%
31	N 74' Temp	66.719+/- 3.650	DEGR F	60	S GND VER	.119+/- .347	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	19.847+/- 11.370	W/m**2
35	N HA 74'	5.124+/- 2.817	mph	64	S VA 55'	.340+/- .728	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.11+/- 1.83	206.3+/- 18.7	2.6+/- 14.5
02	17 19 21	2.91+/- 1.44	206.0+/- 28.2	3.1+/- 18.3
03	38 40 42	1.96+/- 1.12	194.2+/- 23.9	8.9+/- 25.8
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	3.32+/- 1.55	208.7+/- 21.8	8.7+/- 17.5
06	56 58 60	.50+/- .53	219.1+/- 28.7	24.7+/- 27.0

Average for 15 minute period ending at 21:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.745+/- 1.166	mph	37	N VA 102'	.392+/- 1.424	mph
12	N Das1b1 CD	*****+/-*****	ppm	38	S BDT PER	1.005+/- .662	mph
13	N TOP PAR	1.438+/- .977	ppm	39	N VA 74'	.051+/- .589	mph
14	N Das1b1 03	.011+/- .001	ppm	40	S BDT PAR	.208+/- .329	mph
15	N TOP VER	.159+/- .855	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECD	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	2.019+/- 1.233	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	.868+/- .811	mph	45	N GND VER	*****+/-*****	ppm
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.124+/- .446	mph	50	S TOP PER	1.629+/- 1.266	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.610+/- 1.544	mph	52	S TOP PAR	1.045+/- .733	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	202.499+/- 10.250	DEGR AZ	54	S TOP VER	.169+/- .406	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	66.120+/- 2.898	DEGR F	56	S GND PER	.182+/- .184	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	191.361+/- 14.527	DEGR AZ	58	S GND PAR	.132+/- .071	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	63.000+/- .674	%
31	N 74' Temp	66.250+/- 3.809	DEGR F	60	S GND VER	.141+/- .140	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	20.392+/- 9.181	W/m**2
35	N HA 74'	4.246+/- 3.075	mph	64	S VA 55'	.312+/- .416	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.30+/- 1.22	207.4+/- 18.9	4.6+/- 13.8
02	17 19 21	2.41+/- 1.28	204.2+/- 24.0	5.3+/- 14.3
03	38 40 42	1.17+/- .65	193.8+/- 23.3	13.6+/- 21.8
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	2.13+/- 1.25	218.9+/- 24.9	12.4+/- 21.5
06	56 58 60	.31+/- .18	221.2+/- 22.4	33.2+/- 20.8

Average for 15 minute period ending at 22:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	1.182+/-	.647	mph	37	N VA 102'	.258+/-	1.289	mph
12	N Dasibi CO	*****+/-*****		ppm	38	S BOT PER	.275+/-	.333	mph
13	N TOP PAR	.395+/-	.541	mph	39	N VA 74'	.183+/-	.250	mph
14	N Dasibi O3	.011+/-	.001	ppm	40	S BOT PAR	.147+/-	.139	mph
15	N TOP VER	.138+/-	.450	mph	41	N GND PER	*****+/-*****		mph
16	N NOX/TECD	*****+/-*****		ppm	42	S BOT VER	.185+/-	.198	mph
17	N BOT PER	.931+/-	.606	mph	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	.052+/-	.502	mph	45	N GND VER	*****+/-*****		mph
20	N NO2/TECD	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.183+/-	.195	mph	50	S TOP PER	.206+/-	.388	mph
22	N NO/TECD	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	3.984+/-	1.496	mph	52	S TOP PAR	.184+/-	.265	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	205.896+/-	10.127	DEGR AZ	54	S TOP VER	.165+/-	.162	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	65.364+/-	3.523	DEGR F	56	S GND PER	.141+/-	.086	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	193.122+/-	13.970	DEGR AZ	58	S GND PAR	.132+/-	.067	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	83.521+/-	.468	%
31	N 74' Temp	64.530+/-	4.998	DEGR F	60	S GND VER	.139+/-	.069	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	26.841+/-	16.683	W/m**2
35	N HA 74'	2.017+/-	2.630	mph	64	S VA 55'	.191+/-	.218	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.45+/-	.63	198.2+/-	27.5	5.5+/- 22.2
02	17 19 21	1.10+/-	.59	187.5+/-	30.5	13.8+/- 16.8
03	38 40 42	.48+/-	.28	215.0+/-	40.1	26.9+/- 27.4
04	41 43 45	.00+/-	.00	0+/-	0	0+/- 0
05	50 52 54	.40+/-	.46	227.3+/-	27.3	32.6+/- 26.6
06	56 58 60	.26+/-	.06	222.0+/-	23.3	33.3+/- 16.5

Average for hourly period ending at 22:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.821+/-	1.701	37	N VA 102'	.270+/-	1.377	mph
12	N Dasibi CO	*****+/-*****		38	S BOT PER	1.289+/-	1.154	mph
13	N TOP PAR	1.342+/-	1.211	39	N VA 74'	.068+/-	.679	mph
14	N Dasibi O3	.011+/-	.001	40	S BOT PAR	.342+/-	.666	mph
15	N TOP VER	.057+/-	.780	41	N GND PER	*****+/-*****		mph
16	N NOX/TECD	*****+/-*****		42	S BOT VER	.191+/-	.528	mph
17	N BOT PER	2.016+/-	1.467	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	.818+/-	1.100	45	N GND VER	*****+/-*****		mph
20	N NO2/TECD	*****+/-*****		49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.081+/-	.568	50	S TOP PER	2.029+/-	1.823	mph
22	N NO/TECD	*****+/-*****		51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	5.804+/-	2.170	52	S TOP PAR	1.085+/-	1.100	mph
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	201.728+/-	11.982	54	S TOP VER	.209+/-	.531	mph
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	66.074+/-	2.945	56	S GND PER	.269+/-	.413	mph
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	190.115+/-	15.249	58	S GND PAR	.155+/-	.347	mph
30	N CO/Byron	*****+/-*****		59	N Rel Hum	82.633+/-	.875	%
31	N 74' Temp	66.387+/-	4.110	60	S GND VER	.142+/-	.291	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	21.016+/-	12.315	W/m**2
35	N HA 74'	4.296+/-	3.164	64	S VA 55'	.315+/-	.599	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.37+/-	1.84	204.8+/-	20.9	3.4+/- 16.3
02	17 19 21	2.45+/-	1.57	201.0+/-	28.1	6.0+/- 17.3
03	38 40 42	1.54+/-	1.23	197.9+/-	29.0	14.7+/- 25.1
04	41 43 45	*****+/-*****		*****+/-*****		*****+/-*****
05	50 52 54	2.54+/-	1.95	215.2+/-	24.8	15.0+/- 22.8
06	56 58 60	.45+/-	.54	218.7+/-	26.0	28.8+/- 23.7

22:35:15 -- READ TECO NEW SPANS  
22:43:41 -- END READING TECO SPANS

Average for 15 minute period ending at 22:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.395+/- .878	mph	37	N VA 102'	.275+/- 1.556	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	.154+/- .216	mph
13	N TOP PAR	.756+/- .671	ppm	39	N VA 74'	.156+/- .242	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.136+/- .146	mph
15	N TOP VER	.186+/- .446	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.210+/- .267	mph
17	N BOT PER	1.118+/- .660	mph	43	N GND PAR	*****	mph
19	N BOT PAR	.265+/- .604	mph	45	N GND VER	*****	mph
20	N ND2/TECO	*****	ppm	49	N EcoLyzer-1	*****	ppm
21	N BOT VER	.162+/- .245	mph	50	S TOP PER	.180+/- .236	mph
22	N NO/TECO	*****	ppm	51	N EcoLyzer-2	*****	ppm
23	N HA 102'	4.853+/- 1.498	mph	52	S TOP PAR	.212+/- .266	mph
24	N THC/Byron	*****	ppm	53	N EcoLyzer-3	*****	ppm
25	N WV 102'	208.639+/- 7.560	DEGR AZ	54	S TOP VER	.155+/- .145	mph
26	N NMHC/Byro	*****	ppm	55	N EcoLyzer-4	*****	ppm
27	N Gnd Temp	64.895+/- 2.879	DEGR F	56	S GND PER	.142+/- .079	mph
28	N CH4/Byron	*****	ppm	57	N EcoLyzer-5	*****	ppm
29	N WV 74'	197.192+/- 11.131	DEGR AZ	58	S GND PAR	.133+/- .074	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	84.042+/- .566	%
31	N 74' Temp	64.999+/- 4.820	DEGR F	60	S GND VER	.146+/- .082	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	31.382+/- 21.121	W/m**2
35	N HA 74'	2.988+/- 2.656	mph	64	S VA 55'	.149+/- .215	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.80+/- .86	210.9+/- 29.4	7.3+/- 19.8
02	17 19 21	1.33+/- .66	196.6+/- 28.1	11.4+/- 18.7
03	38 40 42	.44+/- .21	222.6+/- 41.7	28.0+/- 34.7
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	.40+/- .31	225.3+/- 27.7	32.2+/- 25.1
06	56 58 60	.27+/- .07	223.4+/- 24.2	34.6+/- 18.6

Average for 15 minute period ending at 22:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.364+/- 1.121	mph	37	N VA 102'	.027+/- 1.793	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	.488+/- .552	mph
13	N TOP PAR	2.100+/- .888	ppm	39	N VA 74'	.081+/- .521	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.208+/- .360	mph
15	N TOP VER	.098+/- .638	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.237+/- .450	mph
17	N BOT PER	1.881+/- 1.124	mph	43	N GND PAR	*****	mph
19	N BOT PAR	1.551+/- .746	mph	45	N GND VER	*****	mph
20	N ND2/TECO	*****	ppm	49	N EcoLyzer-1	*****	ppm
21	N BOT VER	.051+/- .446	mph	50	S TOP PER	.842+/- 1.004	mph
22	N NO/TECO	*****	ppm	51	N EcoLyzer-2	*****	ppm
23	N HA 102'	6.447+/- 1.752	mph	52	S TOP PAR	.854+/- .731	mph
24	N THC/Byron	*****	ppm	53	N EcoLyzer-3	*****	ppm
25	N WV 102'	216.357+/- 10.129	DEGR AZ	54	S TOP VER	.219+/- .405	mph
26	N NMHC/Byro	*****	ppm	55	N EcoLyzer-4	*****	ppm
27	N Gnd Temp	63.723+/- 3.602	DEGR F	56	S GND PER	.158+/- .124	mph
28	N CH4/Byron	*****	ppm	57	N EcoLyzer-5	*****	ppm
29	N WV 74'	204.000+/- 11.921	DEGR AZ	58	S GND PAR	.120+/- .153	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	84.335+/- .550	%
31	N 74' Temp	66.745+/- 5.810	DEGR F	60	S GND VER	.125+/- .111	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	25.433+/- 14.637	W/m**2
35	N HA 74'	4.403+/- 2.882	mph	64	S VA 55'	.266+/- .436	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.35+/- 1.10	223.0+/- 16.1	2.6+/- 11.8
02	17 19 21	2.62+/- 1.05	222.8+/- 20.7	2.3+/- 11.8
03	38 40 42	.79+/- .54	207.0+/- 35.1	25.6+/- 31.2
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	1.43+/- 1.08	234.3+/- 25.9	17.0+/- 21.9
06	56 58 60	.29+/- .15	223.1+/- 24.7	29.2+/- 21.1

Average for 15 minute period ending at 22:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.512+/- 1.424	mph	37	N VA 102'	.472+/- 1.613	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	.845+/- .599	mph
13	N TOP PAR	1.986+/- .980	ppm	39	N VA 74'	.081+/- .703	mph
14	N Dasibi O3	.013+/- .002	ppm	40	S BOT PAR	.229+/- .299	mph
15	N TOP VER	.088+/- .733	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.244+/- .409	mph
17	N BOT PER	2.096+/- 1.385	mph	43	N GND PAR	*****	mph
19	N BOT PAR	1.310+/- .859	mph	45	N GND VER	*****	mph
20	N ND2/TECO	*****	ppm	49	N EcoLyzer-1	*****	ppm
21	N BOT VER	.004+/- .598	mph	50	S TOP PER	1.670+/- 1.183	mph
22	N NO/TECO	*****	ppm	51	N EcoLyzer-2	*****	ppm
23	N HA 102'	6.721+/- 2.123	mph	52	S TOP PAR	1.368+/- .757	mph
24	N THC/Byron	*****	ppm	53	N EcoLyzer-3	*****	ppm
25	N WV 102'	209.992+/- 11.403	DEGR AZ	54	S TOP VER	.219+/- .417	mph
26	N NMHC/Byro	*****	ppm	55	N EcoLyzer-4	*****	ppm
27	N Gnd Temp	66.927+/- 2.330	DEGR F	56	S GND PER	.151+/- .157	mph
28	N CH4/Byron	*****	ppm	57	N EcoLyzer-5	*****	ppm
29	N WV 74'	200.713+/- 13.887	DEGR AZ	58	S GND PAR	.128+/- .119	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	84.628+/- .489	%
31	N 74' Temp	65.025+/- 3.891	DEGR F	60	S GND VER	.148+/- .163	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	23.182+/- 11.945	W/m**2
35	N HA 74'	4.716+/- 3.133	mph	64	S VA 55'	.427+/- .532	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.48+/- 1.47	219.3+/- 17.4	4.2+/- 14.9
02	17 19 21	2.73+/- 1.35	214.1+/- 23.8	4.3+/- 16.3
03	38 40 42	1.16+/- .54	196.6+/- 27.4	14.5+/- 22.8
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	2.32+/- 1.21	222.5+/- 21.1	10.7+/- 16.8
06	56 58 60	.31+/- .18	223.1+/- 27.6	30.2+/- 19.9

Average for 15 minute period ending at 23:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.266+/- 1.337	mph	37	N VA 102'	.260+/- 1.486	mph

12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	.952+/-	.948	mph
13	N TOP PAR	1.639+/- 1.040	mph	39	N VA 74'	.076+/-	.598	mph
14	N Dasibi O3	.012+/- .002	ppm	40	S BOT PAR	.241+/-	.427	mph
15	N TOP VER	.142+/- .702	mph	41	N GND PER	*****+/-*****		mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.255+/-	.541	mph
17	N BOT PER	1.766+/- 1.126	mph	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	1.181+/- .778	mph	45	N GND VER	*****+/-*****		mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.035+/- .449	mph	50	S TOP PER	1.605+/-	1.452	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	5.877+/- 1.795	mph	52	S TOP PAR	1.176+/-	.815	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	206.601+/- 12.433	DEGR AZ	54	S TOP VER	.215+/-	.429	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	64.426+/- 3.537	DEGR F	56	S GND PER	.231+/-	.393	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	196.496+/- 14.255	DEGR AZ	58	S GND PAR	.159+/-	.312	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	84.481+/-	.625	%
31	N 74' Temp	65.442+/- 4.656	DEGR F	60	S GND VER	.107+/-	.183	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	27.340+/-	12.082	W/m**2
35	N HA 74'	4.131+/- 2.952	mph	64	S VA 55'	.359+/-	.553	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.05+/-	1.40	217.7+/-	21.7	6.5+/- 17.6
02	17 19 21	2.33+/-	1.10	215.7+/-	21.6	3.1+/- 14.4
03	38 40 42	1.26+/-	.93	202.2+/-	31.2	18.1+/- 30.6
04	41 43 45	.00+/-	.00	.0+/-	.0	.0+/- .0
05	50 52 54	2.20+/-	1.47	223.4+/-	24.2	13.1+/- 19.8
06	56 58 60	.40+/-	.46	224.4+/-	30.1	26.9+/- 25.6

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Average for hourly period ending at 23:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.159+/- 1.290	mph	37	N VA 102'	.258+/-	1.623	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	.635+/-	.717	mph
13	N TOP PAR	1.620+/- 1.041	mph	39	N VA 74'	.098+/-	.544	mph
14	N Dasibi O3	.011+/- .002	ppm	40	S BOT PAR	.203+/-	.333	mph
15	N TOP VER	.129+/- .640	mph	41	N GND PER	*****+/-*****		mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.236+/-	.428	mph
17	N BOT PER	1.715+/- 1.156	mph	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	1.077+/- .920	mph	45	N GND VER	*****+/-*****		mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****		ppm
21	N BOT VER	.063+/- .455	mph	50	S TOP PER	1.074+/-	1.229	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	5.975+/- 1.939	mph	52	S TOP PAR	.903+/-	.607	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	210.400+/- 11.113	DEGR AZ	54	S TOP VER	.202+/-	.369	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	64.993+/- 3.278	DEGR F	56	S GND PER	.170+/-	.226	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	199.604+/- 13.169	DEGR AZ	58	S GND PAR	.135+/-	.188	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	84.371+/-	.580	%
31	N 74' Temp	65.553+/- 4.734	DEGR F	60	S GND VER	.131+/-	.141	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	26.830+/-	15.311	W/m**2
35	N HA 74'	4.059+/- 2.980	mph	64	S VA 55'	.300+/-	.485	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.92+/-	1.40	217.9+/-	22.2	5.2+/- 16.4
02	17 19 21	2.25+/-	1.20	212.6+/-	25.2	5.3+/- 15.9
03	38 40 42	.92+/-	.72	206.1+/-	35.1	21.5+/- 30.5
04	41 43 45	*****+/-*****		*****+/-*****		*****+/-*****
05	50 52 54	1.60+/-	1.35	226.3+/-	25.1	18.1+/- 22.6
06	56 58 60	.32+/-	.27	223.5+/-	26.7	30.2+/- 21.6

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Average for 15 minute period ending at 23:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	2.018+/- 1.071	mph	37	N VA 102'	.384+/- 1.484	mph
12	N Dasibi CO	*****-*****	ppm	38	S BDT PER	.637+/- .628	mph
13	N TOP PAR	1.873+/- .817	mph	39	N VA 74'	.105+/- .816	mph
14	N Dasibi O3	.012+/- .002	ppm	40	S BDT PAR	.210+/- .222	mph
15	N TOP VER	.087+/- .521	mph	41	N GND PER	*****-*****	mph
16	N NOX/TECO	*****-*****	ppm	42	S BDT VER	.190+/- .347	mph
17	N BDT PER	1.434+/- 1.044	mph	43	N GND PAR	*****-*****	mph
19	N BDT PAR	1.280+/- .670	mph	45	N GND VER	*****-*****	mph
20	N NO2/TECO	*****-*****	ppm	49	N Ecolyzer-1	*****-*****	ppm
21	N BDT VER	.105+/- .404	mph	50	S TDP PER	.890+/- .750	ppm
22	N NO/TECO	*****-*****	ppm	51	N Ecolyzer-2	*****-*****	ppm
23	N HA 102'	5.965+/- 1.784	mph	52	S TOP PAR	1.043+/- .577	ppm
24	N THC/Byron	*****-*****	ppm	53	N Ecolyzer-3	*****-*****	ppm
25	N WV 102'	213.322+/- 10.431	DEGR AZ	54	S TOP VER	.162+/- .312	mph
26	N NMHC/Byro	*****-*****	ppm	55	N Ecolyzer-4	*****-*****	ppm
27	N Gnd Temp	65.208+/- 3.113	DEGR F	56	S GND PER	.171+/- .185	mph
28	N CH4/Byron	*****-*****	ppm	57	N Ecolyzer-5	*****-*****	ppm
29	N WV 74'	203.391+/- 12.179	DEGR AZ	58	S GND PAR	.153+/- .177	mph
30	N CO/Byron	*****-*****	ppm	59	N Rel Hum	84.807+/- .642	%
31	N 74' Temp	64.426+/- 5.096	DEGR F	60	S GND VER	.122+/- .214	mph
32	N CO2/Byron	*****-*****	ppm	61	N Solar Rad	29.748+/- 17.580	W/m**2
35	N HA 74'	3.969+/- 3.018	mph	64	S VA 55'	.218+/- .316	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.91+/- 1.11	224.2+/- 18.5	3.7+/- 12.4
02	17 19 21	2.11+/- .98	224.9+/- 23.5	5.7+/- 13.6
03	38 40 42	.86+/- .58	205.1+/- 29.8	19.3+/- 29.2
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	1.54+/- .74	233.3+/- 22.4	10.3+/- 15.9
06	56 58 60	.33+/- .27	224.0+/- 23.5	29.0+/- 23.6

Average for 15 minute period ending at 23:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.735+/- .983	mph	37	N VA 102'	.005+/- 1.711	mph
12	N Dasibi CO	*****-*****	ppm	38	S BDT PER	.398+/- .441	mph
13	N TOP PAR	1.695+/- .748	mph	39	N VA 74'	.121+/- .310	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BDT PAR	.150+/- .171	mph
15	N TOP VER	.181+/- .470	mph	41	N GND PER	*****-*****	mph
16	N NOX/TECO	*****-*****	ppm	42	S BDT VER	.274+/- .330	mph
17	N BDT PER	1.330+/- .961	mph	43	N GND PAR	*****-*****	mph
19	N BDT PAR	1.213+/- .650	mph	45	N GND VER	*****-*****	mph
20	N NO2/TECO	*****-*****	ppm	49	N Ecolyzer-1	*****-*****	ppm
21	N BDT VER	.103+/- .301	mph	50	S TDP PER	.631+/- .648	ppm
22	N NO/TECO	*****-*****	ppm	51	N Ecolyzer-2	*****-*****	ppm
23	N HA 102'	5.005+/- 1.649	mph	52	S TOP PAR	.939+/- .594	ppm
24	N THC/Byron	*****-*****	ppm	53	N Ecolyzer-3	*****-*****	ppm
25	N WV 102'	212.980+/- 9.948	DEGR AZ	54	S TDP VER	.153+/- .325	mph
26	N NMHC/Byro	*****-*****	ppm	55	N Ecolyzer-4	*****-*****	ppm
27	N Gnd Temp	65.286+/- 2.268	DEGR F	56	S GND PER	.147+/- .074	mph
28	N CH4/Byron	*****-*****	ppm	57	N Ecolyzer-5	*****-*****	ppm
29	N WV 74'	203.806+/- 10.647	DEGR AZ	58	S GND PAR	.112+/- .170	mph
30	N CO/Byron	*****-*****	ppm	59	N Rel Hum	84.888+/- .625	%
31	N 74' Temp	64.739+/- 5.715	DEGR F	60	S GND VER	.150+/- .133	mph
32	N CO2/Byron	*****-*****	ppm	61	N Solar Rad	27.885+/- 15.994	W/m**2
35	N HA 74'	3.253+/- 3.359	mph	64	S VA 55'	.194+/- .373	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.55+/- 1.06	227.1+/- 18.5	5.8+/- 14.2
02	17 19 21	1.96+/- .92	226.2+/- 23.3	5.1+/- 10.4
03	38 40 42	.68+/- .39	208.8+/- 39.1	27.2+/- 32.4
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	1.28+/- .73	240.8+/- 23.2	12.1+/- 17.2
06	56 58 60	.30+/- .15	220.7+/- 26.4	33.2+/- 18.9

Average for 15 minute period ending at 23:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.602+/- .857	mph	37	N VA 102'	.257+/- 2.058	mph
12	N Dasibi CO	*****-*****	ppm	38	S BDT PER	.258+/- .322	mph
13	N TOP PAR	1.842+/- .649	mph	39	N VA 74'	.139+/- .284	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BDT PAR	.150+/- .153	mph
15	N TOP VER	.172+/- .440	mph	41	N GND PER	*****-*****	mph
16	N NOX/TECO	*****-*****	ppm	42	S BDT VER	.291+/- .308	mph
17	N BDT PER	1.388+/- .810	mph	43	N GND PAR	*****-*****	mph
19	N BDT PAR	1.129+/- .675	mph	45	N GND VER	*****-*****	mph
20	N NO2/TECO	*****-*****	ppm	49	N Ecolyzer-1	*****-*****	ppm
21	N BDT VER	.119+/- .298	mph	50	S TDP PER	.290+/- .406	ppm
22	N NO/TECO	*****-*****	ppm	51	N Ecolyzer-2	*****-*****	ppm
23	N HA 102'	5.151+/- 1.320	mph	52	S TOP PAR	.780+/- .430	ppm
24	N THC/Byron	*****-*****	ppm	53	N Ecolyzer-3	*****-*****	ppm
25	N WV 102'	215.354+/- 7.497	DEGR AZ	54	S TOP VER	.140+/- .195	mph
26	N NMHC/Byro	*****-*****	ppm	55	N Ecolyzer-4	*****-*****	ppm
27	N Gnd Temp	64.218+/- 2.194	DEGR F	56	S GND PER	.149+/- .072	mph
28	N CH4/Byron	*****-*****	ppm	57	N Ecolyzer-5	*****-*****	ppm
29	N WV 74'	206.198+/- 9.879	DEGR AZ	58	S GND PAR	.147+/- .074	mph
30	N CO/Byron	*****-*****	ppm	59	N Rel Hum	85.165+/- .922	%
31	N 74' Temp	62.785+/- 4.194	DEGR F	60	S GND VER	.134+/- .069	mph
32	N CO2/Byron	*****-*****	ppm	61	N Solar Rad	26.023+/- 12.575	W/m**2
35	N HA 74'	2.672+/- 2.724	mph	64	S VA 55'	.135+/- .228	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.45+/- .81	227.4+/- 18.9	5.8+/- 13.7
02	17 19 21	1.92+/- .84	220.7+/- 22.2	5.9+/- 12.1
03	38 40 42	.58+/- .31	219.4+/- 37.7	32.4+/- 31.2
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	.90+/- .51	250.2+/- 16.7	13.4+/- 15.8
06	56 58 60	.28+/- .07	224.5+/- 20.9	30.9+/- 18.5

Average for 15 minute period ending at 24:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.411+/- .852	mph	37	N VA 102'	.335+/- 1.444	mph
12	N Dasibi CO	*****-*****	ppm	38	S BDT PER	.238+/- .278	mph
13	N TOP PAR	1.189+/- .636	mph	39	N VA 74'	.174+/- .225	mph



14	N Dasibi O3	.011+/-	.001	ppm	40	S BOT PAR	.152+/-	.170	mph
15	N TOP VER	.182+/-	.431	mph	41	N GND PER	*****	*****	mph
16	N NOX/TECO	*****	*****	ppm	42	S BOT VER	.221+/-	.293	mph
17	N BOT PER	1.231+/-	.732	mph	43	N GND PAR	*****	*****	mph
19	N BOT PAR	.719+/-	.498	mph	45	N GND VER	*****	*****	mph
20	N ND2/TECO	*****	*****	ppm	49	N Ecolyzer-1	*****	*****	ppm
21	N BOT VER	.145+/-	.263	mph	50	S TOP PER	.140+/-	.119	mph
22	N ND/TECO	*****	*****	ppm	51	N Ecolyzer-2	*****	*****	ppm
23	N HA 102'	4.840+/-	1.304	mph	52	S TDP PAR	.595+/-	.325	mph
24	N THC/Byron	*****	*****	ppm	53	N Ecolyzer-3	*****	*****	ppm
25	N WV 102'	218.106+/-	7.428	DEGR AZ	54	S TOP VER	.155+/-	.184	mph
26	N NMHC/Byro	*****	*****	ppm	55	N Ecolyzer-4	*****	*****	ppm
27	N Gnd Temp	63.749+/-	2.928	DEGR F	56	S GND PER	.184+/-	.138	mph
28	N CH4/Byron	*****	*****	ppm	57	N Ecolyzer-5	*****	*****	ppm
29	N WV 74'	206.575+/-	10.135	DEGR AZ	58	S GND PAR	.134+/-	.071	mph
30	N CD/Byron	*****	*****	ppm	59	N Rel Hum	.85.442+/-	.523	%
31	N 74' Temp	64.400+/-	5.041	DEGR F	60	S GND VER	.145+/-	.082	mph
32	N CD2/Byron	*****	*****	ppm	61	N Solar Rad	20.801+/-	17.311	W/m**2
35	N HA 74'	2.837+/-	2.954	mph	64	S VA 55'	.109+/-	.164	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.00+/- .86	222.6+/- 23.3	6.0+/- 17.8
02	17 19 21	1.56+/- .69	213.6+/- 23.3	7.0+/- 14.1
03	38 40 42	.50+/- .28	214.3+/- 39.0	23.8+/- 34.6
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	.68+/- .29	252.8+/- 18.1	17.2+/- 19.6
06	56 58 60	.29+/- .13	221.1+/- 21.8	32.3+/- 18.8

Average for hourly period ending at 24:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.691+/- .969	mph	37	N VA 102'	.240+/- 1.690	mph
12	N Dasibi CD	*****	ppm	38	S BOT PER	.382+/- .466	mph
13	N TDP PAR	1.600+/- .758	mph	39	N VA 74'	.135+/- .317	mph
14	N Dasibi O3	.011+/- .001	ppm	40	S BOT PAR	.168+/- .182	mph
15	N TOP VER	.150+/- .468	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.244+/- .322	mph
17	N BOT PER	1.346+/- .896	mph	43	N GND PAR	*****	mph
19	N BOT PAR	1.085+/- .663	mph	45	N GND VER	*****	mph
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
21	N BOT VER	.118+/- .321	mph	50	S TOP PER	.488+/- .612	mph
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	5.240+/- 1.586	mph	52	S TDP PAR	.834+/- .522	mph
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
25	N WV 102'	214.947+/- 9.140	DEGR AZ	54	S TOP VER	.153+/- .258	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
27	N Gnd Temp	64.615+/- 2.670	DEGR F	56	S GND PER	.158+/- .127	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	204.996+/- 10.824	DEGR AZ	58	S GND PAR	.137+/- .134	mph
30	N CD/Byron	*****	ppm	59	N Rel Hum	85.078+/- .720	%
31	N 74' Temp	64.087+/- 4.971	DEGR F	60	S GND VER	.138+/- .140	mph
32	N CD2/Byron	*****	ppm	61	N Solar Rad	26.118+/- 15.937	W/m**2
35	N HA 74'	3.183+/- 3.057	mph	64	S VA 55'	.164+/- .285	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.48+/- 1.02	225.3+/- 19.5	5.3+/- 14.7
02	17 19 21	1.89+/- .89	221.3+/- 23.5	5.9+/- 12.6
03	38 40 42	.65+/- .43	211.6+/- 36.8	25.6+/- 32.2
04	41 43 45	*****	*****	*****
05	50 52 54	1.10+/- .68	244.4+/- 21.9	13.3+/- 17.4
06	56 58 60	.30+/- .17	222.6+/- 23.2	31.3+/- 20.1

24:11:35 -- IGNORE ANY PREVIOUS TECO NOX SPANS. GOOD DNEs ARE BELOW  
 24:15:11 -- TURNING OFF BYRON 401  
 24:17:44 -- TURNING OFF TECO NOX SPANS

Average for 15 minute period ending at 24:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.338+/- .458	mph	37	N VA 102'	.228+/- 1.364	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	.139+/- .139	mph
13	N TOP PAR	.653+/- .667	mph	39	N VA 74'	.213+/- .208	mph
14	N Dasibi O3	.010+/- .001	ppm	40	S BOT PAR	.140+/- .147	mph
15	N TOP VER	.238+/- .381	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.190+/- .185	mph
17	N BOT PER	.523+/- .431	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	.408+/- .380	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.174+/- .178	mph	50	S TOP PER	.125+/- .090	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	3.711+/- 1.356	mph	52	S TOP PAR	.568+/- .398	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	235.521+/- 8.437	DEGR AZ	54	S TOP VER	.167+/- .105	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	62.664+/- 3.787	DEGR F	56	S GND PER	.151+/- .074	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	221.966+/- 13.465	DEGR AZ	58	S GND PAR	.142+/- .065	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	85.716+/- .641	%
31	N 74' Temp	63.717+/- 4.799	DEGR F	60	S GND VER	.141+/- .078	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	26.306+/- 16.266	W/m**2
35	N HA 74'	1.417+/- 3.043	mph	64	S VA 55'	.129+/- .091	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.03+/- .58	239.5+/- 42.2	17.0+/- 32.1
02	17 19 21	.80+/- .44	217.1+/- 32.3	18.3+/- 19.1
03	38 40 42	.37+/- .15	224.2+/- 38.0	31.2+/- 29.1
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	.85+/- .36	250.6+/- 21.2	20.0+/- 17.9
06	56 58 60	.27+/- .07	223.8+/- 20.8	32.5+/- 17.9

Average for 15 minute period ending at 24:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	33.14+/-43.80	-23.6+/- 22.7	226.7+/-*****
02	17 19 21	29.46+/-37.87	-20.1+/- 16.4	191.7+/-*****
03	38 40 42	17.73+/-12.53	-10.0+/- 6.8	555.5+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	27.24+/-27.12	-27.5+/- 27.0	295.1+/-*****
06	56 58 60	7.43+/- 2.11	-15.5+/- 11.3	935.5+/-*****

Average for 15 minute period ending at 24:45:00  
 Average for 15 minute period ending at 25:00:00  
 Average for hourly period ending at 25:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Daily Hourly Average Maximums for each Active Channel

<u>Channel</u>	<u>Time</u>	<u>Value</u>
01	00:00:00	0 vehicles
02	00:00:00	0 vehicles
03	00:00:00	0 vehicles
04	00:00:00	0 vehicles
05	00:00:00	0 vehicles
06	00:00:00	0 vehicles
07	00:00:00	0 vehicles
08	00:00:00	0 vehicles
09	00:00:00	0 vehicles
10	00:00:00	0 vehicles
11	22:00:00	2.821 mph
12	00:00:00	.000 ppm
13	23:00:00	1.620 mph
14	23:00:00	.011 ppm
15	24:00:00	.150 mph
16	00:00:00	.000 ppm
17	22:00:00	2.016 mph
19	24:00:00	1.085 mph
20	00:00:00	.000 ppm
21	24:00:00	.118 mph
22	00:00:00	.000 ppm
23	23:00:00	5.975 mph
24	00:00:00	.000 ppm
25	24:00:00	214.947 DEGR AZ
26	00:00:00	.000 ppm
27	22:00:00	66.074 DEGR F
28	00:00:00	.000 ppm
29	24:00:00	204.996 DEGR AZ
30	00:00:00	.000 ppm
31	22:00:00	66.387 DEGR F
32	00:00:00	.000 ppm
35	22:00:00	4.296 mph
37	22:00:00	.270 mph
38	22:00:00	1.289 mph
39	24:00:00	.135 mph
40	22:00:00	.342 mph
41	00:00:00	.000 mph
42	24:00:00	.244 mph
43	00:00:00	.000 mph
45	00:00:00	.000 mph
49	00:00:00	.000 ppm
50	22:00:00	2.029 mph
51	00:00:00	.000 ppm
52	22:00:00	1.085 mph
53	00:00:00	.000 ppm
54	22:00:00	.209 mph
55	00:00:00	.000 ppm
56	22:00:00	.269 mph
57	00:00:00	.000 ppm
58	22:00:00	.155 mph
59	24:00:00	85.076 %
60	22:00:00	.142 mph
61	23:00:00	26.830 W/m**2
64	22:00:00	.315 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 10, 1984  
 06:58:55 -- 12/10/84  
 06:58:56 -- Data run of 12/10/84. Operators are Michael Klavinka and Guy Donaldson. There  
 06:58:57 -- was earlier ground fog, but it has now lifted for the most part. Winds are light  
 06:58:58 -- and westerly. Have changed 'system.dat' file so that ch 51 (NCD-2) has the r  
 06:58:59 -- ight system calibration constant. This is file 12 on tape ZX1320.  
 06:59:07 -- TURNING ON TECO NOX AND BYRON 401 ANALYZERS  
 06:59:57 -- TURNING ON DASICI CD

Average for 15 minute period ending at 06:15:00  
 Average for 15 minute period ending at 06:30:00  
 Average for 15 minute period ending at 06:45:00  
 Average for 15 minute period ending at 07:00:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	mph
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	mph
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	mph
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	mph
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CM4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	mph
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	%
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	mph
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	W/m**2
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	mph
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for hourly period ending at 07:00:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	mph
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	mph
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	mph
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	mph
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm

28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WY 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****

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07:03:13 -- BEGIN READING ECDL ZEROS GRD  
 07:07:18 -- BEGIN SPANNING ECDL GRD  
 07:07:31 -- BEGIN CAL. NCO-5 GRD  
 07:14:56 -- END CAL. NCO-5 GRD  
 07:15:07 -- BEGIN CAL. NCO-4 GRD  
 07:21:09 -- END CALIB OF CH 55 NCO-4  
 07:25:23 -- CHANGING CO2 TO 1000 PPM RANGE  
 07:26:57 -- NEXT ROUND ALL CO2 DATA WILL NEED TO BE MULTIPLIED BY 2.0  
 07:36:16 -- NOX METER WAS PEGGED.  
 07:45:37 -- ALL ECDLYZERS ARE NOW ONLINE  
 07:52:13 -- HAVE BEEN PEGGING NOX ANALYZER REGULARLY

\*\*\*\*\* CHANGE IN SYSTEM CNFIGURATION \*\*\*\*\*  
 Date : 1984.345 Time : 25200 seconds after midnight Channel affected : 32  
 New Configuration for channel :  
 Did calibration cnst : 500.00 Did offset = .00 New calibration cnst : \*\*\*\*\* New offset = .00

Average for 15 minute period ending at 07:15:00  
 Traffic Data  
 Total Traffic = 2520 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	57.6	51	54.2	72	58.3	65	58.2	21	51.4
Cat2	126	61.1	190	55.6	165	58.5	160	58.6	70	50.5
Cat3	14	62.4	44	59.3	36	57.6	19	59.9	4	44.8
Cat4	14	65.8	28	63.2	15	56.8	13	59.4	1	47.9
Cat5	4	69.8	11	61.2	2	56.3	6	80.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	138	61.3	96	58.0	112	58.9	114	56.3	33	48.3
Cat2	138	63.4	209	60.0	146	59.1	160	57.6	27	48.6
Cat3	8	63.7	24	62.0	26	60.5	9	55.5	2	45.2
Cat4	4	67.5	13	61.5	18	61.9	7	60.3	0	.0
Cat5	1	66.5	3	64.8	6	64.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	797	31.6	58.4	1391	55.2	59.3	186	7.4	61.7	113	4.5	62.9	33	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.675+/-	.689	37	N VA 102'	.250+/-	.743
12	N Dasibi CO	5.138+/-	.772	38	S BOT PER	.855+/-	.212
13	N TOP PAR	.223+/-	.828	39	N VA 74'	.257+/-	.336
14	N Dasibi D3	.014+/-	.003	40	S BOT PAR	.171+/-	.089
15	N TOP VER	.598+/-	.664	41	N GND PER	1.608+/-	1.133
16	N NOX/TECO	.473+/-	.076	42	S BOT VER	.302+/-	.211
17	N BOT PER	.793+/-	.736	43	N GND PAR	-2.368+/-	1.195
19	N BOT PAR	.286+/-	.711	45	N GND VER	.227+/-	.427
20	N NO2/TECO	.007+/-	.008	49	N Ecolyzer-1	*****+/-*****	
21	N BOT VER	.576+/-	.597	50	S TOP PER	.118+/-	.052
22	N NO/TECO	.475+/-	.080	51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	.972+/-	.691	52	S TOP PAR	.116+/-	.047
24	N THC/Byron	4.270+/-	.490	54	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	221.824+/-	45.817	55	S TOP VER	.153+/-	.056
26	N NMHC/Byro	4.141+/-	.636	56	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	59.858+/-	2.724	56	S GND PER	.163+/-	.150
28	N CH4/Byron	2.441+/-	.089	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	205.534+/-	35.225	58	S GND PAR	.113+/-	.122
30	N CO/Byron	1.948+/-	2.051	59	N Rel Hum	87.071+/-	.353
31	N 74' Temp	57.053+/-	3.255	60	S GND VER	.141+/-	.057
32	N CO2/Byron	918.906+/-	29.572	61	N Solar Rad	8.039+/-	2.893
35	N HA 74'	.636+/-	1.440	64	S VA 55'	.147+/-	.072

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.41+/- .68	199.7+/- 47.2	26.4+/- 29.1
02	17 19 21	1.39+/- .72	166.6+/- 43.1	25.1+/- 26.5
03	38 40 42	.97+/- .18	191.6+/- 6.5	19.4+/- 14.7
04	41 43 45	3.15+/- 1.10	124.9+/- 23.5	4.1+/- 9.1
05	50 52 54	.24+/- .06	224.9+/- 18.5	40.9+/- 13.7
06	56 58 60	.27+/- .16	220.7+/- 18.2	34.9+/- 13.7

Average for 15 minute period ending at 07:30:00  
 Traffic Data  
 Total Traffic = 2814 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	58.4	52	53.9	99	58.0	59	59.1	30	50.2
Cat2	129	60.9	200	56.3	203	58.7	193	58.9	101	50.9
Cat3	24	63.0	52	59.9	33	56.9	17	58.0	2	54.8
Cat4	16	64.6	26	62.1	9	59.4	7	55.8	3	45.6
Cat5	8	66.8	14	65.1	4	63.1	4	54.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	124	60.9	99	57.5	122	56.6	95	56.4	41	47.8
Cat2	145	62.1	250	59.1	176	58.2	157	57.4	70	48.4
Cat3	18	63.5	35	60.7	34	59.3	11	57.8	2	46.4
Cat4	2	60.0	28	60.5	22	58.8	4	62.6	0	.0
Cat5	2	65.1	6	65.4	4	60.1	1	56.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	802	28.5	57.9	1624	57.7	59.7	228	8.1	60.4	117	4.2	63.7	43	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.602+/-	.727	37	N VA 102'	.199+/-	.770
12	N Dasibi CO	5.881+/-	.595	38	S BOT PER	.827+/-	.259
13	N TOP PAR	.700+/-	.555	39	N VA 74'	.211+/-	.269
14	N Dasibi D3	.016+/-	.002	40	S BOT PAR	.162+/-	.099
15	N TOP VER	.393+/-	.545	41	N GND PER	1.834+/-	1.117
16	N NOX/TECO	.492+/-	.014	42	S BOT VER	.176+/-	.111
17	N BOT PER	1.072+/-	.928	43	N GND PAR	-2.305+/-	1.276
19	N BOT PAR	.052+/-	.763	45	N GND VER	.235+/-	.532

20	N ND2/TECO	.005+/-	.009	ppm	49	N EcoLyzer-1	*****+/-*****	ppm	
21	N BDT VER	.369+/-	.439	mph	50	S TDP PER	.114+/-	.051	mph
22	N ND/TECO	.494+/-	.017	ppm	51	N EcoLyzer-2	*****+/-*****	ppm	
23	N HA 102'	2.068+/-	.537	mph	52	S TDP PAR	.125+/-	.042	mph
24	N THC/Byron	4.761+/-	.234	ppm	53	N EcoLyzer-3	*****+/-*****	ppm	
25	N WV 102'	250.627+/-	6.577	DEGR AZ	54	S TDP VER	.163+/-	.079	ppm
26	N NMHC/Byro	4.353+/-	.226	ppm	55	N EcoLyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	58.668+/-	3.112	DEGR F	56	S GND PER	.138+/-	.096	mph
28	N CH4/Byron	2.581+/-	.142	ppm	57	N EcoLyzer-5	7.370+/-	1.383	ppm
29	N WV 74'	212.291+/-	8.610	DEGR AZ	58	S GND PAR	.132+/-	.050	mph
30	N CD/Byron	4.928+/-	.289	ppm	59	N Rel Hum	88.891+/-	.791	%
31	N 74' Temp	58.297+/-	2.844	DEGR F	60	S GND VER	.138+/-	.062	mph
32	N CO2/Byron	1021.658+/-	29.422	ppm	61	N Solar Rad	17.304+/-	3.585	W/m**2
35	N HA 74'	1.244+/-	3.009	mph	64	S VA 55'	.135+/-	.048	mph

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.98+/-	.65	204.0+/-	21.1	13.1+/-	20.6
02	17	19	21	1.47+/-	.89	184.6+/-	41.1	18.6+/-	22.6
03	38	40	42	.88+/-	.23	192.9+/-	11.4	12.6+/-	10.3
04	41	43	45	3.24+/-	1.18	129.7+/-	23.2	4.1+/-	9.9
05	50	52	54	.25+/-	.07	228.7+/-	16.3	41.6+/-	14.8
06	56	58	60	.25+/-	.10	224.7+/-	14.2	35.7+/-	13.7

Average for 15 minute period ending at 07:45:00  
 Traffic Data  
 Total Traffic = 2898 vehicles averaging 56.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	57.7	53	53.6	90	54.5	44	56.4	25	48.9
Cat2	153	60.4	181	55.0	199	54.5	223	53.8	120	47.7
Cat3	17	62.6	54	57.9	35	53.6	23	53.8	9	46.0
Cat4	20	64.5	31	59.1	17	54.6	16	51.1	7	49.8
Cat5	4	65.2	13	62.7	6	55.9	3	59.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	135	61.1	103	56.7	114	56.5	86	54.5	51	47.5
Cat2	155	63.3	239	58.0	172	56.1	161	55.2	69	46.9
Cat3	14	63.7	36	58.7	31	57.1	14	51.4	1	46.5
Cat4	13	64.9	21	59.7	20	57.8	6	53.3	0	.0
Cat5	1	69.0	7	59.8	10	57.0	1	54.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	796	27.5	55.7	1672	57.7	56.7	234	8.1	58.2	151	5.2	60.1	45	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	.204+/-	.287	37	N VA 102'	.488+/-	3.273	mph
12	N Dasibi CO	6.253+/-	1.005	38	S BDT PER	.238+/-	.291	mph
13	N TDP PAR	.148+/-	.285	39	N VA 74'	.251+/-	.310	mph
14	N Dasibi O3	.015+/-	.004	40	S BDT PAR	.153+/-	.068	mph
15	N TDP VER	.307+/-	.518	41	N GND PER	.320+/-	1.142	mph
16	N NOX/TECO	.365+/-	.096	42	S BDT VER	.169+/-	.098	mph
17	N BDT PER	.077+/-	.368	43	N GND PAR	.891+/-	1.169	mph
19	N BDT PAR	.112+/-	.321	45	N GND VER	.228+/-	.221	mph
20	N ND2/TECO	.010+/-	.007	49	N EcoLyzer-1	*****+/-*****	ppm	
21	N BDT VER	.320+/-	.454	50	S TDP PER	.125+/-	.052	mph
22	N ND/TECO	.358+/-	.100	51	N EcoLyzer-2	*****+/-*****	ppm	
23	N HA 102'	5.291+/-	.680	52	S TDP PAR	.279+/-	.245	mph
24	N THC/Byron	5.221+/-	.148	53	N EcoLyzer-3	8.056+/-	.858	ppm
25	N WV 102'	204.251+/-	56.004	54	S TDP VER	.155+/-	.063	mph
26	N NMHC/Byro	4.341+/-	.238	55	N EcoLyzer-4	8.170+/-	1.613	ppm
27	N Gnd Temp	60.231+/-	2.592	56	S GND PER	.132+/-	.046	mph
28	N CH4/Byron	2.654+/-	.133	57	N EcoLyzer-5	6.881+/-	1.447	ppm
29	N WV 74'	79.700+/-	53.626	58	S GND PAR	.137+/-	.056	mph
30	N CD/Byron	5.654+/-	.282	59	N Rel Hum	87.038+/-	.298	%
31	N 74' Temp	58.460+/-	3.602	60	S GND VER	.141+/-	.064	mph
32	N CO2/Byron	601.531+/-	183.781	61	N Solar Rad	30.156+/-	3.883	W/m**2
35	N HA 74'	.896+/-	1.394	64	S VA 55'	.132+/-	.049	mph

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	.80+/-	.47	220.3+/-	47.4	26.4+/-	36.4
02	17	19	21	.59+/-	.47	251.1+/-	51.5	30.2+/-	27.7
03	38	40	42	.38+/-	.26	221.0+/-	22.4	33.7+/-	20.8
04	41	43	45	1.29+/-	1.29	97.4+/-	54.4	16.9+/-	16.7
05	50	52	54	.37+/-	.21	236.1+/-	19.5	32.0+/-	16.5
06	56	58	60	.25+/-	.06	225.7+/-	14.5	35.6+/-	13.6

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2915 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	99	59.6	66	54.5	92	56.6	71	58.5	26	51.3
Cat2	122	61.1	200	56.3	197	56.4	191	56.3	113	51.0
Cat3	28	63.2	52	59.4	46	56.5	21	59.1	9	51.4
Cat4	31	64.4	28	60.7	17	57.3	15	58.5	3	47.1
Cat5	15	66.8	12	63.0	7	59.0	12	56.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	114	62.1	95	57.5	140	57.4	82	56.6	54	47.5
Cat2	165	63.8	248	59.2	173	58.4	142	57.7	86	48.0
Cat3	16	65.6	35	59.3	24	58.4	16	57.2	2	46.5
Cat4	6	67.1	10	60.5	13	58.5	5	60.3	0	.0
Cat5	2	64.0	7	61.0	7	58.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	839	28.8	57.6	1637	56.2	59.1	249	8.5	60.6	128	4.4	61.4	62	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	.279+/-	.327	mph	37	N VA 102'	.372+/-	1.671	mph
12	N Dasibi CD	7.836+/-	1.037	ppm	38	S BDT PER	.469+/-	.455	mph
13	N TOP PAR	-.067+/-	.501	mph	39	N VA 74'	.473+/-	.553	mph
14	N Dasibi D3	.016+/-	.002	ppm	40	S BDT PAR	.157+/-	.088	mph
15	N TOP VER	.653+/-	.687	mph	41	N GND PER	.318+/-	.908	mph
16	N ND/TECO	.372+/-	.077	ppm	42	S BDT VER	.172+/-	.097	mph
17	N BDT PER	.213+/-	.310	mph	43	N GND PAR	-.580+/-	1.056	mph
19	N BDT PAR	-.016+/-	.449	mph	45	N GND VER	.225+/-	.257	mph
20	N ND2/TECO	.010+/-	.006	ppm	49	N Ecolyzer-1	10.289+/-	1.026	ppm
21	N BDT VER	.417+/-	.505	mph	50	S TOP PER	.132+/-	.064	mph
22	N ND/TECO	.365+/-	.081	ppm	51	N Ecolyzer-2	9.871+/-	.873	ppm
23	N HA 102'	.645+/-	.606	mph	52	S TOP PAR	.573+/-	.258	mph
24	N THC/Byron	5.792+/-	.329	ppm	53	N Ecolyzer-3	9.928+/-	1.367	ppm
25	N WV 102'	39.654+/-	56.888	DEGR AZ	54	S TOP VER	.168+/-	.075	mph
26	N NMHC/Byro	4.703+/-	.491	ppm	55	N Ecolyzer-4	10.023+/-	1.524	ppm
27	N Gnd Temp	60.935+/-	3.040	DEGR F	56	S GND PER	.143+/-	.090	mph
28	N CH4/Byron	3.083+/-	.109	ppm	57	N Ecolyzer-5	9.648+/-	1.818	ppm
29	N WV 74'	75.033+/-	39.781	DEGR AZ	58	S GND PAR	.132+/-	.055	mph
30	N CD/Byron	6.334+/-	1.198	ppm	59	N Rel Hum	86.988+/-	.199	%
31	N 74' Temp	57.183+/-	2.990	DEGR F	60	S GND VER	.140+/-	.057	mph
32	N CD2/Byron	560.821+/-	22.867	ppm	61	N Solar Rad	42.555+/-	3.594	W/m^2
35	N HA 74'	.748+/-	2.398	mph	64	S VA 55'	.129+/-	.058	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	.94+/-	.68	189.8+/-	48.8	38.6+/-	35.6
02	17	19	21	.68+/-	.57	209.3+/-	48.3	34.5+/-	30.0
03	38	40	42	.58+/-	.41	211.5+/-	24.0	26.2+/-	19.6
04	41	43	45	1.20+/-	1.02	118.9+/-	55.1	17.2+/-	17.7
05	50	52	54	.63+/-	.24	254.2+/-	10.5	18.1+/-	10.8
06	56	58	60	.25+/-	.09	223.2+/-	16.0	35.1+/-	13.3

Average for hourly period ending at 08:00:00  
 Traffic Date  
 Total Traffic = 11147 Vehicles averaging 57.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	370	58.3	222	54.1	353	56.8	239	58.2	102	50.4
Cat2	530	60.8	771	58.8	784	57.0	767	57.2	404	49.9
Cat3	83	62.9	202	59.1	150	56.2	80	57.8	24	48.6
Cat4	81	64.7	113	61.2	58	56.7	51	56.0	14	48.2
Cat5	31	67.0	50	63.1	19	58.6	25	57.4	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	511	61.3	393	57.4	488	57.3	377	56.0	179	47.7
Cat2	603	63.2	946	59.0	667	57.9	620	56.9	252	47.9
Cat3	56	64.2	130	60.0	116	58.8	50	58.4	7	47.0
Cat4	25	65.5	72	60.5	73	59.2	22	58.8	0	.0
Cat5	6	65.7	23	62.3	27	59.5	2	55.4	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%			
57.0	3234	29.0	57.4	6324	56.7	58.7	897	8.0	60.1	509	4.8	61.9	183	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.690+/-	.779	37	N VA 102'	.327+/-	1.913
12	N Dasibi CD	6.277+/-	1.315	38	S BDT PER	.600+/-	.410
13	N TOP PAR	.251+/-	.639	39	N VA 74'	.298+/-	.396
14	N Dasibi D3	.015+/-	.003	40	S BDT PAR	.161+/-	.090
15	N TOP VER	.488+/-	.623	41	N GND PER	1.020+/-	1.288
16	N ND/TECO	.426+/-	.092	42	S BDT VER	.205+/-	.149
17	N BDT PER	.539+/-	.757	43	N GND PAR	-1.486+/-	1.451
19	N BDT PAR	-.061+/-	.606	45	N GND VER	.229+/-	.380
20	N ND2/TECO	.008+/-	.008	49	N Ecolyzer-1	*****	*****
21	N BDT VER	.420+/-	.511	50	S TOP PER	.122+/-	.055
22	N ND/TECO	.423+/-	.098	51	N Ecolyzer-2	*****	*****
23	N HA 102'	1.146+/-	.834	52	S TOP PAR	.273+/-	.258
24	N THC/Byron	5.011+/-	.650	53	N Ecolyzer-3	*****	*****
25	N WV 102'	236.925+/-	52.357	54	S TOP VER	.160+/-	.071
26	N NMHC/Byro	4.384+/-	.489	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	59.873+/-	2.923	56	S GND PER	.144+/-	.103
28	N CH4/Byron	2.690+/-	.267	57	N Ecolyzer-5	7.959+/-	2.002
29	N WV 74'	172.081+/-	64.083	58	S GND PAR	.129+/-	.077
30	N CD/Byron	4.718+/-	2.056	59	N Rel Hum	86.997+/-	.465
31	N 74' Temp	57.248+/-	3.201	60	S GND VER	.140+/-	.080
32	N CD2/Byron	775.729+/-	220.442	61	N Solar Rad	24.513+/-	13.592
35	N HA 74'	.881+/-	2.177	64	S VA 55'	.136+/-	.058

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.24+/-	.81	203.7+/-	44.1	26.1+/-	32.3
02	17	19	21	1.03+/-	.79	196.5+/-	49.3	27.3+/-	27.3
03	38	40	42	.70+/-	.37	203.8+/-	21.3	23.0+/-	18.6
04	41	43	45	2.22+/-	1.51	122.6+/-	46.0	10.6+/-	15.3
05	50	52	54	.37+/-	.23	236.1+/-	19.7	33.1+/-	17.0
06	56	58	60	.26+/-	.11	223.6+/-	15.9	35.3+/-	13.5



08:21:14 -- RAN OUT OF INK ON BYRON STRIP CHART RECORDER. COULD NOT DETERMINE CAUSE OF CO W  
 08:21:16 -- ARNING.  
 08:21:28 -- REFILLED BYRON INK ON RECORDER.  
 08:33:01 -- HAVE FIXED INK PEN. MWH  
 08:36:46 -- SKY IS CLEAR BUT HUMIDITY IS QUITE HIGH FROM THE REMAINING LIGHT FOG  
 08:37:07 -- MOST ANEMOMETERS HAVE BEEN STILL THE ENTIRE MORNING.  
 08:52:03 -- STARTING TO HAVE HIGH THIN CLOUDS MOVE IN. (FROM WEST)  
 08:52:52 -- BEGIN RECAL CH 57 NCO-5 MWH

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2648 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	94	59.2	71	53.8	64	56.4	46	58.0	17	51.9
Cat2	166	61.0	208	56.4	210	56.9	169	59.4	133	51.5
Cat3	20	61.2	43	60.8	37	57.4	32	57.7	11	54.6
Cat4	22	66.9	27	61.1	36	57.5	16	58.8	3	49.5
Cat5	7	67.1	18	65.5	4	61.6	5	65.1	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	61.8	93	58.9	110	58.9	98	58.8	42	48.6
Cat2	118	63.7	181	59.9	149	59.4	129	58.5	76	48.2
Cat3	11	64.4	27	60.9	24	58.5	11	56.2	1	41.0
Cat4	6	63.1	18	59.8	2	56.1	4	59.2	1	39.5
Cat5	1	64.9	3	61.0	2	60.0	2	63.5	1	45.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	710	26.8	57.9	1537	58.0	59.1	217	8.2	60.0	141	5.3	64.2	43	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.203+/-	.212 mph	37	N VA 102'	.262+/-	.865 mph
12	N Dasibi CD	7.348+/-	.817 ppm	38	S BOT PER	.486+/-	.455 mph
13	N TOP PAR	.120+/-	.509 mph	39	N VA 74'	.348+/-	.576 mph
14	N Dasibi 03	.015+/-	.003 ppm	40	S BOT PAR	.158+/-	.084 mph
15	N TOP VER	.424+/-	.685 mph	41	N GND PER	.127+/-	.890 mph
16	N NOX/TECO	.418+/-	.099 ppm	42	S BOT VER	.179+/-	.088 mph
17	N BOT PER	.113+/-	.395 mph	43	N GND PAR	-.601+/-	1.107 mph
19	N BOT PAR	.022+/-	.487 mph	45	N GND VER	.200+/-	.311 mph
20	N NO2/TECO	.012+/-	.007 ppm	49	N Ecolyzer-1	8.264+/-	2.003 ppm
21	N BOT VER	.304+/-	.398 mph	50	S TOP PER	.126+/-	.051 mph
22	N NO/TECO	.406+/-	.075 ppm	51	N Ecolyzer-2	8.777+/-	1.688 ppm
23	N HA 102'	1.588+/-	.857 mph	52	S TOP PAR	.370+/-	.285 mph
24	N THC/Byron	6.020+/-	.077 ppm	53	N Ecolyzer-3	9.380+/-	2.028 ppm
25	N WV 102'	280.444+/-	39.958 DEGR AZ	54	S TOP VER	.219+/-	.218 mph
26	N NMHC/Byro	5.507+/-	.310 ppm	55	N Ecolyzer-4	9.829+/-	1.820 ppm
27	N Gnd Temp	61.456+/-	3.498 DEGR F	56	S GND PER	.138+/-	.052 mph
28	N CH4/Byron	3.073+/-	.127 ppm	57	N Ecolyzer-5	8.212+/-	1.328 ppm
29	N WV 74'	326.778+/-	56.693 DEGR AZ	58	S GND PAR	.131+/-	.047 mph
30	N CD/Byron	7.390+/-	1.312 ppm	59	N Rel Hum	87.071+/-	.341 %
31	N 74' Temp	60.492+/-	3.219 DEGR F	60	S GND VER	.137+/-	.053 mph
32	N CO2/Byron	537.697+/-	8.516 ppm	61	N Solar Rad	53.091+/-	3.062 W/m <sup>2</sup>
35	N HA 74'	.867+/-	1.514 mph	64	S VA 55'	.160+/-	.115 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	.84+/- .56	180.7+/- 51.8	27.1+/- 42.1
02	17 19 21	.88+/- .48	237.8+/- 53.0	27.5+/- 32.6
03	38 40 42	.60+/- .41	208.6+/- 21.9	26.8+/- 21.4
04	41 43 45	1.27+/- .96	86.6+/- 54.7	13.3+/- 18.1
05	50 52 54	.49+/- .28	242.7+/- 19.8	30.8+/- 18.8
06	56 58 60	.24+/- .05	224.4+/- 14.3	35.0+/- 12.4

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2342 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	59.9	56	56.3	78	58.5	47	58.3	9	52.9
Cat2	121	61.7	190	58.3	187	58.7	153	59.3	89	50.7
Cat3	15	64.5	46	60.7	47	57.6	21	60.5	8	51.4
Cat4	13	66.0	17	62.7	21	59.5	13	59.2	2	51.1
Cat5	3	68.9	10	63.5	5	61.1	10	60.8	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	61.8	79	58.5	92	59.9	92	57.8	26	47.4
Cat2	120	64.1	164	60.4	127	60.5	146	59.9	45	48.1
Cat3	14	64.6	31	61.5	33	61.1	14	60.2	0	0
Cat4	8	67.0	11	61.9	16	61.2	3	60.5	0	0
Cat5	0	0	4	62.9	7	63.5	1	61.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	647	27.6	59.1	1322	56.4	60.3	229	9.8	61.7	104	4.4	62.8	40	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.181+/-	.220 mph	37	N VA 102'	.214+/-	.896 mph
12	N Dasibi CO	4.829+/-	1.494 ppm	38	S BOT PER	.061+/-	.990 mph
13	N TOP PAR	.800+/-	.653 mph	39	N VA 74'	.290+/-	.432 mph
14	N Dasibi 03	.011+/-	.003 ppm	40	S BOT PAR	.608+/-	.847 mph
15	N TOP VER	.315+/-	.467 mph	41	N GND PER	.178+/-	.958 mph
16	N NOX/TECO	.252+/-	.060 ppm	42	S BOT VER	.276+/-	.390 mph
17	N BOT PER	.102+/-	.251 mph	43	N GND PAR	-.388+/-	1.341 mph
19	N BOT PAR	.527+/-	.602 mph	45	N GND VER	.187+/-	.290 mph
20	N NO2/TECO	.019+/-	.005 ppm	49	N Ecolyzer-1	4.813+/-	.966 ppm
21	N BOT VER	.255+/-	.369 mph	50	S TOP PER	-.083+/-	.474 mph
22	N NO/TECO	.234+/-	.080 ppm	51	N Ecolyzer-2	4.486+/-	1.238 ppm
23	N HA 102'	2.068+/-	.714 mph	52	S TOP PAR	.958+/-	.985 mph
24	N THC/Byron	5.494+/-	.599 ppm	53	N Ecolyzer-3	4.652+/-	1.551 ppm
25	N WV 102'	291.124+/-	20.115 DEGR AZ	54	S TOP VER	.417+/-	.411 mph
26	N NMHC/Byro	5.258+/-	.585 ppm	55	N Ecolyzer-4	5.582+/-	1.530 ppm
27	N Gnd Temp	63.592+/-	2.238 DEGR F	56	S GND PER	.089+/-	.363 mph
28	N CH4/Byron	2.996+/-	.101 ppm	57	N Ecolyzer-5	5.270+/-	2.098 ppm
29	N WV 74'	271.112+/-	24.593 DEGR AZ	58	S GND PAR	.235+/-	.388 mph
30	N CO/Byron	8.845+/-	2.390 ppm	59	N Rel Hum	87.999+/-	3.374 %

31	N 74' Temp	60.414+/-	3.166	DEGR F	60	S GND VER	.153+/-	.171	mph
32	N CO2/Byron	545.839+/-	39.879	ppm	61	N Solar Rad	69.941+/-	12.494	W/m**2
35	N HA 74'	1.297+/-	1.516	mph	64	S VA 55'	.403+/-	.533	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	1.09+/-	.54	250.3+/-	36.7	19.6+/-	25.4
02	17	19	21	.62+/-	.52	255.0+/-	42.5	21.7+/-	22.6
03	38	40	42	1.16+/-	.87	230.0+/-	44.2	18.3+/-	21.8
04	41	43	45	1.38+/-	1.08	211.2+/-	57.2	12.3+/-	16.8
05	50	52	54	1.20+/-	1.01	255.8+/-	31.9	29.7+/-	21.4
06	58	58	60	.41+/-	.46	228.4+/-	25.5	30.9+/-	17.9

Average for 15 minute period ending at 08:45:00  
 Traffic Data  
 Total Traffic = 2308 vehicles averaging 59.8 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	60.6	57	56.8	64	59.1	50	61.2	11	54.7
Cat2	125	62.9	189	58.0	168	59.9	158	60.9	85	53.3
Cat3	22	64.1	35	61.9	48	59.7	22	59.4	6	54.2
Cat4	14	69.2	21	65.5	15	59.9	9	61.4	1	62.2
Cat5	4	88.5	9	69.5	12	61.5	2	59.5	1	61.7

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	62.4	57	58.6	100	59.3	75	58.3	27	48.9
Cat2	112	64.4	152	60.8	101	60.2	161	59.3	56	48.0
Cat3	16	65.4	31	59.6	45	59.6	16	59.7	1	49.9
Cat4	5	64.3	18	63.0	31	61.3	4	66.7	0	.0
Cat5	5	63.8	8	62.4	3	62.6	1	58.6	0	.0

Vehicle Classification Summary											
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%
58.9	596	25.8	59.5	1307	56.6	60.6	242	10.5	63.0	118	5.1
											63.8
											45
											1.9

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	.038+/-	.368	37	N VA 102'	.333+/-	1.431				
12	N Das1b1 CD	2.970+/-	.204	38	S BDT PER	-.729+/-	.826				
13	N TOP PAR	.377+/-	.431	39	N VA 74'	.184+/-	.334				
14	N Das1b1 D3	.013+/-	.001	40	S BDT PAR	1.059+/-	1.137				
15	N TOP VER	.241+/-	.407	41	N GND PER	.148+/-	.900				
16	N NOX/TECO	-.175+/-	.017	42	S BDT VER	-.448+/-	.593				
17	N BDT PER	-.116+/-	.440	43	N GND PAR	-.077+/-	1.016				
19	N BDT PAR	.341+/-	.377	45	N GND VER	-.203+/-	.317				
20	N NO2/TECO	.023+/-	.004	49	N Ecolyzer-1	4.912+/-	.458				
21	N BDT VER	.212+/-	.279	50	S TOP PER	-.310+/-	.646				
22	N NO/TECO	.157+/-	.017	51	N Ecolyzer-2	4.079+/-	.350				
23	N HA 102'	1.386+/-	.703	52	S TOP PAR	1.401+/-	.776				
24	N THC/Byron	3.950+/-	.337	53	N Ecolyzer-3	3.814+/-	.444				
25	N WV 102'	300.493+/-	19.017	54	S TOP VER	-.373+/-	.625				
26	N MMHC/Byro	3.617+/-	.541	55	N Ecolyzer-4	4.288+/-	.346				
27	N Gnd Temp	64.374+/-	3.139	56	S GND PER	-.112+/-	.567				
28	N CH4/Byron	2.430+/-	.372	57	N Ecolyzer-5	3.364+/-	.944				
29	N WV 74'	287.910+/-	18.196	58	S GND PAR	.554+/-	.711				
30	N CO/Byron	3.679+/-	1.241	59	N Rel Hum	87.266+/-	1.850				
31	N 74' Temp	62.706+/-	3.841	60	S GND VER	.149+/-	.157				
32	N CO2/Byron	471.259+/-	16.082	61	N Solar Rad	129.708+/-	25.933				
35	N HA 74'	.923+/-	1.577	64	S VA 55'	.266+/-	.665				

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg A2		Elevation Angle (Deg)	
01	11	13	15	.72+/-	.41	244.6+/-	46.0	23.3+/-	35.8
02	17	19	21	.66+/-	.40	289.8+/-	47.4	24.0+/-	26.6
03	38	40	42	1.65+/-	1.20	235.2+/-	39.7	19.6+/-	29.7
04	41	43	45	1.13+/-	.87	208.7+/-	56.9	13.9+/-	21.3
05	50	52	54	1.69+/-	.87	277.1+/-	22.8	10.3+/-	22.5
06	58	58	60	.73+/-	.81	248.5+/-	34.2	22.2+/-	20.0

Average for 15 minute period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 2249 vehicles averaging 59.9 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	59.5	80	56.2	77	58.2	37	58.8	11	52.5
Cat2	102	62.2	177	58.2	153	59.2	154	60.7	98	51.9
Cat3	22	63.3	37	62.0	42	59.2	24	59.2	7	51.4
Cat4	11	67.6	26	63.2	17	60.0	7	57.6	5	43.6
Cat5	8	66.2	13	65.2	5	59.7	3	54.7	2	43.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	64.1	66	60.5	67	61.4	75	56.8	20	49.9
Cat2	142	64.8	155	62.3	120	61.9	163	60.5	55	48.2
Cat3	11	63.8	25	62.4	29	62.2	12	58.3	0	.0
Cat4	6	61.1	19	63.0	24	63.0	3	57.2	0	.0
Cat5	1	61.2	4	64.1	8	64.6	0	.0	0	.0

Vehicle Classification Summary											
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%
59.3	558	24.8	59.8	1319	58.6	60.7	209	9.3	61.7	118	5.2
											62.8
											45
											2.0

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	-.047+/-	.480	37	N VA 102'	.308+/-	.968				
12	N Das1b1 CD	2.402+/-	.414	38	S BDT PER	-.885+/-	.929				
13	N TOP PAR	-.846+/-	.833	39	N VA 74'	.219+/-	.455				
14	N Das1b1 D3	.013+/-	.002	40	S BDT PAR	1.487+/-	1.354				
15	N TOP VER	.284+/-	.431	41	N GND PER	.262+/-	1.135				
16	N NOX/TECO	-.156+/-	.048	42	S BDT VER	.449+/-	.635				
17	N BDT PER	-.020+/-	.481	43	N GND PAR	-.093+/-	1.713				
19	N BDT PAR	.719+/-	.774	45	N GND VER	.216+/-	.418				
20	N NO2/TECO	.025+/-	.004	49	N Ecolyzer-1	3.640+/-	.431				
21	N BDT VER	.201+/-	.341	50	S TOP PER	-.410+/-	.697				
22	N NO/TECO	.132+/-	.049	51	N Ecolyzer-2	3.014+/-	.419				

23	N HA 102'	2.254+/-	1.009	mph	52	S TOP PAR	1.736+/-	.923	mph
24	N THC/Byron	3.574+/-	.350	ppm	53	N Ecolyzer-3	2.860+/-	.518	ppm
25	N WV 102'	290.392+/-	28.156	DEGR AZ	54	S TOP VER	.394+/-	.541	mph
26	N NMHC/Byro	3.804+/-	.485	ppm	55	N Ecolyzer-4	3.357+/-	.565	ppm
27	N Gnd Temp	66.510+/-	3.178	DEGR F	56	S GND PER	-.249+/-	.743	mph
28	N CH4/Byron	1.974+/-	.120	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	277.894+/-	40.274	DEGR AZ	58	S GND PAR	.866+/-	.885	mph
30	N CO/Byron	2.236+/-	.197	ppm	59	N Rel Hum	84.416+/-	1.315	%
31	N 74' Temp	64.634+/-	2.044	DEGR F	60	S GND VER	-.178+/-	.191	mph
32	N CO2/Byron	449.764+/-	17.778	ppm	61	N Solar Rad	185.706+/-	31.309	W/m <sup>2</sup> =2
35	N HA 74'	1.653+/-	1.565	mph	64	S VA 55'	.393+/-	.714	mph

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.18+/-	.70	261.4+/-	39.7	21.8+/-	29.9	
02	17	19	21	1.07+/-	.61	259.1+/-	40.2	17.1+/-	23.9	
03	38	40	42	2.08+/-	1.40	298.2+/-	35.4	18.4+/-	25.9	
04	41	43	45	1.77+/-	1.18	254.2+/-	55.6	9.0+/-	16.7	
05	50	52	54	2.01+/-	.97	279.4+/-	20.7	10.5+/-	18.7	
06	56	58	60	1.07+/-	1.03	258.3+/-	33.4	19.2+/-	18.1	

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 9547 vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	302	59.7	244	55.7	284	58.1	180	59.1	48	52.9
Cat2	514	61.9	764	57.7	698	58.5	634	60.1	405	51.8
Cat3	79	63.2	161	61.3	174	58.4	99	58.0	32	53.0
Cat4	60	67.4	91	63.0	89	58.8	45	59.3	11	48.3
Cat5	23	67.2	50	65.7	26	61.1	20	60.8	3	45.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	334	62.5	295	59.1	368	59.7	340	57.9	115	48.1
Cat2	490	64.3	652	60.8	497	60.4	599	59.6	232	48.2
Cat3	52	64.6	114	61.1	131	60.3	53	58.8	2	45.5
Cat4	25	64.1	66	61.9	79	61.2	14	58.3	1	39.5
Cat5	7	63.6	19	62.6	20	63.5	4	61.8	1	45.5

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
58.5	2511	26.3	59.0	5485	57.5	60.2	897	9.4	61.5	481	5.0	83.4	173	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.095+/-	.354	37	N VA 102'	.278+/-	1.063
12	N Dasibi CO	4.387+/-	2.123	38	S BDT PER	-.287+/-	.899
13	N TOP PAR	.478+/-	.736	39	N VA 74'	.260+/-	.461
14	N Dasibi O3	.013+/-	.003	40	S BDT PAR	.828+/-	1.098
15	N TOP VER	.311+/-	.517	41	N GND PER	-.178+/-	.975
16	N NOX/TECD	.251+/-	.114	42	S BDT VER	.338+/-	.492
17	N BDT PER	.030+/-	.411	43	N GND PAR	-.289+/-	1.337
19	N BDT PAR	.402+/-	.632	45	N GND VER	.201+/-	.337
20	N NO2/TECD	.019+/-	.007	49	N Ecolyzer-1	5.407+/-	2.075
21	N BDT VER	.243+/-	.351	50	S TOP PER	-.169+/-	.570
22	N ND/TECD	.232+/-	.120	51	N Ecolyzer-2	5.089+/-	2.448
23	N HA 102'	1.819+/-	1.920	52	S TOP PAR	1.116+/-	.840
24	N THC/Byron	4.760+/-	1.099	53	N Ecolyzer-3	5.201+/-	2.823
25	N WV 102'	291.284+/-	29.122	54	S TOP VER	.351+/-	.480
26	N NMHC/Byro	4.546+/-	.976	55	N Ecolyzer-4	5.764+/-	2.736
27	N Gnd Temp	63.983+/-	3.486	56	S GND PER	-.034+/-	.525
28	N CH4/Byron	2.618+/-	.496	57	N Ecolyzer-5	5.144+/-	2.632
29	N WV 74'	281.530+/-	42.923	58	S GND PAR	.447+/-	.665
30	N CO/Byron	5.537+/-	3.073	59	N Rel Hum	86.688+/-	2.413
31	N 74' Temp	62.062+/-	3.526	60	S GND VER	-.154+/-	.153
32	N CO2/Byron	501.140+/-	47.642	61	N Solar Rad	109.612+/-	56.732
35	N HA 74'	1.185+/-	1.572	64	S VA 55'	.305+/-	.566

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	.98+/-	.59	242.0+/-	47.4	23.0+/-	33.9	
02	17	19	21	.80+/-	.53	257.0+/-	46.9	22.6+/-	26.9	
03	38	40	42	1.38+/-	1.20	297.1+/-	46.3	20.3+/-	25.2	
04	41	43	45	1.38+/-	1.06	155.0+/-	57.1	12.1+/-	18.4	
05	50	52	54	1.35+/-	1.01	263.9+/-	28.0	20.3+/-	22.6	
06	56	58	60	.61+/-	.77	239.1+/-	30.7	26.8+/-	18.4	

09:05:10 -- END CAL. NCD-5  
 09:05:56 -- BEGIN CAL. NCD-4  
 09:21:36 -- END CAL OF CH 55  
 09:23:20 -- CALIBRATING CH 53  
 09:24:59 -- LIGHT CLOUD COVER THINNING OFF  
 09:35:19 -- END CAL. NCD-3  
 09:35:34 -- BEGIN CAL. NCD-2  
 09:58:07 -- ENDING ALL ECOLYZER CALIBRATION

MWH  
 Average for 15 minute period ending at 09:15:00  
Traffic Data  
 Total Traffic = 1958 vehicles averaging 60.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	60.8	39	58.8	61	59.8	34	60.6	7	50.6
Cat2	75	61.9	161	58.3	136	59.9	124	60.8	84	52.7
Cat3	18	64.7	34	61.7	34	60.6	15	57.7	11	49.3
Cat4	4	62.8	10	63.0	12	59.9	5	65.1	4	60.1
Cat5	7	70.0	6	69.1	2	74.7	5	70.1	3	79.6

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	63.1	44	60.7	79	61.6	63	60.3	12	48.5
Cat2	120	64.5	163	63.0	130	61.8	128	60.9	38	50.8
Cat3	16	64.6	31	61.6	28	62.0	11	57.2	2	47.3
Cat4	10	66.1	19	62.5	20	62.4	5	54.6	0	0
Cat5	2	79.5	5	67.2	8	63.9	2	78.0	1	80.7

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
60.2	478	24.3	60.3	1159	58.9	60.7	200	10.2	61.8	90	4.6	70.4	41	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	- .265+/-	.687	mph	N VA 102'	.150+/-	1.460
12	N Dasibi CO	2.071+/-	.794	ppm	S BOT PER	-.103+/-	1.061
13	N TOP PAR	2.653+/-	1.503	mph	N VA 74'	.199+/-	.667
14	N Dasibi O3	.012+/-	.001	ppm	S BOT PAR	1.298+/-	1.370
15	N TOP VER	.495+/-	.853	mph	N GND PER	.068+/-	1.279
16	N ND/TECO	.147+/-	.098	ppm	S BOT VER	.319+/-	.604
17	N BOT PER	.064+/-	.613	mph	N GND PAR	1.072+/-	1.817
18	N BOT PAR	2.308+/-	1.670	mph	N GND VER	.263+/-	.478
20	N ND2/TECO	.025+/-	.004	ppm	N Ecolyzer-1	3.027+/-	.783
21	N BOT VER	.367+/-	.663	mph	S TOP PER	-.074+/-	.561
22	N ND/TECO	.122+/-	.100	ppm	N Ecolyzer-2	2.541+/-	.821
23	N HA 102'	3.998+/-	1.214	mph	S TOP PAR	2.255+/-	1.162
24	N THC/Byron	3.214+/-	.218	ppm	N Ecolyzer-3	2.132+/-	.858
25	N WV 102'	273.308+/-	12.699	DEGR AZ	S TOP VER	.239+/-	.542
26	N NMHC/Byro	3.763+/-	.490	ppm	N Ecolyzer-4	*****	*****
27	N Gnd Temp	65.911+/-	2.104	DEGR F	S GND PER	.056+/-	.655
28	N CH4/Byron	1.822+/-	.054	ppm	N Ecolyzer-5	*****	*****
29	N WV 74'	263.690+/-	26.867	DEGR AZ	S GND PAR	.538+/-	.755
30	N CO/Byron	2.527+/-	1.248	ppm	N Rel Hum	82.739+/-	.552
31	N 74' Temp	63.644+/-	1.853	DEGR F	S GND VER	.131+/-	.167
32	N CO2/Byron	493.405+/-	13.468	ppm	N Solar Rad	186.206+/-	18.328
35	N HA 74'	2.650+/-	1.982	mph	S VA 55'	.184+/-	.582

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.14+/- .98	272.0+/- 34.4	12.9+/- 23.7
02	17 19 21	2.87+/- .91	265.4+/- 36.6	9.9+/- 18.5
03	38 40 42	1.82+/- 1.36	255.0+/- 40.5	12.8+/- 30.2
04	41 43 45	2.29+/- 1.07	266.9+/- 47.9	7.2+/- 15.7
05	50 52 54	2.39+/- 1.17	267.7+/- 12.8	7.9+/- 16.5
06	56 58 60	.78+/- .86	235.5+/- 30.1	20.7+/- 23.2

Average for 15 minute period ending at 09:30:00  
Traffic Data  
 Total Traffic = 2012 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	58.6	43	58.3	45	58.1	34	60.4	8	51.9
Cat2	89	61.5	132	58.1	137	58.7	115	60.2	78	52.3
Cat3	15	61.2	34	62.2	40	58.2	17	58.4	4	51.3
Cat4	5	63.7	28	63.0	12	59.7	5	54.4	7	47.0
Cat5	3	69.7	7	71.2	4	60.8	6	64.8	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	62.7	38	60.2	62	60.1	73	58.8	17	47.2
Cat2	153	64.2	162	62.1	153	61.3	160	60.7	42	48.3
Cat3	17	65.4	33	62.5	26	62.4	12	60.3	3	44.3
Cat4	9	65.3	24	63.0	16	62.4	3	52.5	0	0
Cat5	0	0	7	63.7	7	61.1	2	59.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
59.0	465	22.1	59.9	1221	60.7	60.7	201	10.0	61.0	109	5.4	64.8	36	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	- .581+/-	.929	mph	N VA 102'	.284+/-	1.076
12	N Dasibi CO	1.388+/-	.265	ppm	S BOT PER	-.992+/-	1.420
13	N TOP PAR	4.441+/-	.965	mph	N VA 74'	.037+/-	.792
14	N Dasibi O3	.014+/-	.001	ppm	S BOT PAR	3.187+/-	1.848
15	N TOP VER	.193+/-	.673	mph	N GND PER	-.343+/-	1.224
16	N ND/TECO	.087+/-	.040	ppm	S BOT VER	.599+/-	.856
17	N BOT PER	-.070+/-	.561	mph	N GND PAR	2.608+/-	1.524
18	N BOT PAR	4.095+/-	.985	mph	N GND VER	.269+/-	.354
20	N ND2/TECO	.026+/-	.003	ppm	N Ecolyzer-1	2.411+/-	.288
21	N BOT VER	.124+/-	.451	mph	S TOP PER	-.730+/-	1.038
22	N ND/TECO	.061+/-	.039	ppm	N Ecolyzer-2	1.893+/-	.279
23	N HA 102'	5.372+/-	1.064	mph	S TOP PAR	3.598+/-	1.461
24	N THC/Byron	2.871+/-	.145	ppm	N Ecolyzer-3	*****	*****
25	N WV 102'	271.228+/-	13.271	DEGR AZ	S TOP VER	.637+/-	.850
26	N NMHC/Byro	3.170+/-	.243	ppm	N Ecolyzer-4	*****	*****
27	N Gnd Temp	67.657+/-	2.363	DEGR F	S GND PER	-.508+/-	1.055
28	N CH4/Byron	1.625+/-	.124	ppm	N Ecolyzer-5	1.700+/-	.977
29	N WV 74'	258.248+/-	16.021	DEGR AZ	S GND PAR	1.597+/-	1.353
30	N CO/Byron	1.510+/-	.962	ppm	N Rel Hum	83.944+/-	.354

31	N 74' Temp	65.384+/-	3.523	DEGR F	60	S GND VER	.170+/-	.318	mph
32	N CD2/Byron	420.290+/-	54.941	ppm	61	N Solar Rad	249.198+/-	43.043	W/m**2
35	N HA 74'	5.188+/-	1.996	mph	64	S VA 55'	.568+/-	.958	mph

UVW Vector Calculations									
UVW	Channels	Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)				
01	11 13 15	4.83+/- .95		277.0+/- 11.7	3.2+/- 9.3				
02	17 19 21	4.16+/- .98		270.8+/- 8.0	2.1+/- 6.8				
03	38 40 42	3.84+/- 1.70		278.8+/- 33.9	12.9+/- 21.1				
04	41 43 45	3.16+/- .97		276.8+/- 33.9	8.0+/- 9.6				
05	50 52 54	4.00+/- 1.35		277.5+/- 18.2	12.4+/- 19.2				
06	56 58 60	1.92+/- 1.48		267.7+/- 35.1	11.3+/- 17.7				

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 2087 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	59.0	64	56.0	65	58.1	31	59.6	5	58.7
Cat2	72	61.1	144	58.1	174	58.8	124	60.4	95	51.9
Cat3	11	63.3	36	61.2	21	57.6	23	57.7	6	49.9
Cat4	10	65.1	14	62.6	17	58.3	5	53.9	2	48.8
Cat5	3	63.3	11	63.6	2	59.5	0	.0	1	50.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	64.4	54	61.0	77	61.4	83	58.9	15	49.4
Cat2	148	65.8	271	62.5	141	63.1	166	60.1	47	49.8
Cat3	14	65.2	22	62.3	26	63.5	18	58.8	2	45.9
Cat4	3	67.5	15	62.7	12	65.3	2	61.8	0	.0
Cat5	3	68.0	3	62.0	6	66.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.6	519	24.8	60.1	1280	61.3	60.4	179	8.6	61.7	80	3.8	63.7	29	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.997+/-	1.503	37	N VA 102'	.209+/-	.836
12	N Dasibi CD	2.366+/-	.698	38	S BOT PER	.399+/-	1.286
13	N TOP PAR	4.269+/-	1.685	39	N VA 74'	-.119+/-	.718
14	N Dasibi D3	.014+/-	.002	40	S BOT PAR	1.229+/-	1.579
15	N TOP VER	.179+/-	.767	41	N GND PER	1.073+/-	1.710
16	N NOX/TECO	.225+/-	.092	42	S BOT VER	.440+/-	.813
17	N BOT PER	1.099+/-	1.460	43	N GND PAR	1.501+/-	2.009
19	N BOT PAR	3.722+/-	1.583	45	N GND VER	.242+/-	.757
20	N NO2/TECO	.030+/-	.005	48	N Ecolyzer-1	2.745+/-	.549
21	N BOT VER	.255+/-	.671	50	S TOP PER	.331+/-	.832
22	N NO/TECO	.196+/-	.081	51	N Ecolyzer-2	*****	*****
23	N HA 102'	5.584+/-	1.148	52	S TOP PAR	2.064+/-	1.506
24	N THC/Byron	2.615+/-	.098	53	N Ecolyzer-3	*****	*****
25	N WV 102'	253.572+/-	17.134	54	S TOP VER	.520+/-	.785
26	N NMHC/Byro	3.047+/-	.299	55	N Ecolyzer-4	3.192+/-	.876
27	N Gnd Temp	70.288+/-	3.220	56	S GND PER	.380+/-	1.129
28	N CH4/Byron	1.453+/-	.046	57	N Ecolyzer-5	2.984+/-	1.122
29	N WV 74'	234.228+/-	18.317	58	S GND PAR	.584+/-	1.060
30	N CO/Byron	.896+/-	.432	59	N Rel Hum	82.397+/-	.724
31	N 74' Temp	65.615+/-	3.165	60	S GND VER	.219+/-	.389
32	N CO2/Byron	408.565+/-	5.487	61	N Solar Rad	320.183+/-	15.084
35	N HA 74'	5.421+/-	2.419	64	S VA 55'	.291+/-	.808

UVW Vector Calculations									
UVW	Channels	Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)				
01	11 13 15	4.74+/- 1.58		255.9+/- 21.0	3.8+/- 11.9				
02	17 19 21	4.22+/- 1.54		253.0+/- 23.3	6.8+/- 16.2				
03	38 40 42	2.08+/- 1.50		236.2+/- 43.3	20.3+/- 28.4				
04	41 43 45	3.05+/- 1.28		231.7+/- 47.1	6.4+/- 18.1				
05	50 52 54	2.48+/- 1.42		256.2+/- 26.2	18.6+/- 25.3				
06	56 58 60	1.33+/- 1.14		223.4+/- 37.8	19.6+/- 28.8				

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 1933 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	59.1	59	55.9	70	58.3	39	61.1	4	52.8
Cat2	73	60.9	124	58.5	147	59.5	97	60.8	61	52.4
Cat3	17	62.1	31	59.9	29	58.2	26	58.8	10	48.8
Cat4	10	67.3	16	62.3	12	57.5	10	59.7	5	52.3
Cat5	9	67.2	10	62.3	0	.0	1	68.3	1	76.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	63.3	40	59.2	59	61.0	59	59.7	15	47.8
Cat2	148	64.6	161	61.4	117	62.1	129	60.3	62	47.5
Cat3	14	66.4	21	61.3	34	60.9	11	57.2	2	50.0
Cat4	14	65.0	14	62.4	21	62.4	6	58.6	2	47.9
Cat5	1	61.7	12	63.9	6	65.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.3	464	24.0	59.9	1120	57.9	59.8	199	10.3	61.5	110	5.7	64.9	40	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.987+/-	1.347	37	N VA 102'	.190+/-	1.010
12	N Dasibi CD	2.137+/-	.329	38	S BOT PER	-.375+/-	1.805
13	N TOP PAR	4.585+/-	1.464	39	N VA 74'	-.004+/-	.956
14	N Dasibi D3	.014+/-	.072	40	S BOT PAR	3.779+/-	1.954
15	N TOP VER	.234+/-	.878	41	N GND PER	1.123+/-	1.530
16	N NOX/TECO	.1026+/-	.1270	42	S BOT VER	.110+/-	1.698
17	N BOT PER	4.035+/-	1.512	43	N GND PAR	1.935+/-	1.698
19	N BOT PAR	.035+/-	.005	45	N GND VER	.247+/-	.775
20	N NO2/TECO	.035+/-	.005	49	N Ecolyzer-1	*****	*****
21	N BOT VER	.347+/-	.819	50	S TOP PER	.110+/-	1.210
22	N NO/TECO	.201+/-	.071	51	N Ecolyzer-2	2.445+/-	.488

23	N HA 102'	6.168+/-	1.035	mph	52	S TDP PAR	4.307+/-	1.754	mph
24	N THC/Byron	2.819+/-	.121	ppm	53	N Ecolyzer-3	2.858+/-	.764	ppm
25	N WV 102'	250.039+/-	13.578	DEGR AZ	54	S TDP VER	.007+/-	.893	mph
26	N NMHC/Byro	3.489+/-	.097	ppm	55	N Ecolyzer-4	3.248+/-	.711	ppm
27	N Gnd Temp	71.799+/-	2.087	DEGR F	56	S GND PER	-.771+/-	1.588	mph
28	N CH4/Byron	1.444+/-	.060	ppm	57	N Ecolyzer-5	2.476+/-	1.705	ppm
29	N WV 74'	236.799+/-	14.806	DEGR AZ	58	S GND PAR	2.051+/-	1.448	mph
30	N CD/Byron	2.205+/-	.151	ppm	59	N Rel Hum	81.094+/-	.825	%
31	N 74' Temp	69.246+/-	2.617	DEGR F	60	S GND VER	.091+/-	.685	mph
32	N CD2/Byron	438.691+/-	26.207	ppm	61	N Solar Rad	360.195+/-	16.544	W/m**2
35	N HA 74'	6.377+/-	2.073	mph	64	S VA 55'	-.216+/-	.927	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	4.99+/-	1.38	256.8+/-	16.8	4.5+/-	11.8
02	17	19	21	4.46+/-	1.46	254.2+/-	17.6	5.6+/-	12.4
03	38	40	42	4.34+/-	1.90	288.2+/-	28.4	2.6+/-	17.7
04	41	43	45	3.04+/-	1.34	238.5+/-	40.1	7.0+/-	19.7
05	50	52	54	4.58+/-	1.72	267.0+/-	16.2	2.0+/-	14.3
06	56	58	60	2.66+/-	1.65	274.7+/-	34.7	4.0+/-	24.1

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 8000 vehicles averaging 50.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	200	59.5	205	58.2	241	58.5	138	60.5	24	53.1
Cat2	309	61.4	561	58.3	594	59.2	460	60.5	318	52.3
Cat3	61	62.9	135	61.3	124	58.7	81	58.2	31	49.5
Cat4	29	65.3	68	62.7	53	58.8	26	58.8	18	49.4
Cat5	22	67.9	34	65.8	8	63.9	12	67.3	5	73.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	307	63.4	176	60.3	277	61.1	278	58.4	60	48.2
Cat2	568	64.8	657	62.3	541	62.1	583	60.5	189	48.9
Cat3	65	65.4	107	61.9	114	62.1	52	58.5	9	46.6
Cat4	36	65.6	72	62.7	89	62.9	16	56.6	2	47.9
Cat5	6	70.8	27	64.3	27	64.1	4	68.9	1	80.7

Vehicle Classification Summary

Spd.	CAT 1		Spd.	CAT 2		Spd.	CAT 3		Spd.	CAT 4		Spd.	CAT 5	
	Total	%		Total	%		Total	%		Total	%		Total	%
59.6	1906	23.8	60.1	4780	59.8	60.4	779	9.7	61.5	388	4.9	66.2	146	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.280+/-	1.361	37	N VA 102'	.208+/-	1.118
12	N Dasibi CD	1.991+/-	.675	38	S BOT PER	-.268+/-	1.498
13	N TDP PAR	3.987+/-	1.625	39	N VA 74'	.028+/-	.797
14	N Dasibi Q3	.013+/-	.002	40	S BOT PAR	2.373+/-	2.041
15	N TDP VER	.290+/-	.805	41	N GND PER	.485+/-	1.593
16	N ND/TECD	.174+/-	.099	42	S BOT VER	.367+/-	.848
17	N BOT PER	.530+/-	1.180	43	N GND PAR	1.779+/-	1.856
18	N BOT PAR	3.540+/-	1.630	45	N GND VER	.255+/-	.617
20	N ND/TECD	.029+/-	.006	49	N Ecolyzer-1	2.703+/-	.619
21	N BOT VER	.273+/-	.670	50	S TDP PER	-.091+/-	1.020
22	N ND/TECD	.145+/-	.097	51	N Ecolyzer-2	2.291+/-	.625
23	N HA 102'	5.280+/-	1.370	52	S TDP PAR	3.056+/-	1.752
24	N THC/Byron	2.830+/-	.279	53	N Ecolyzer-3	2.525+/-	1.002
25	N WV 102'	262.090+/-	17.378	54	S TDP VER	.347+/-	.812
26	N NMHC/Byro	3.380+/-	.410	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	68.914+/-	3.342	56	S GND PER	-.208+/-	1.233
28	N CH4/Byron	1.586+/-	.173	57	N Ecolyzer-5	2.290+/-	1.353
29	N WV 74'	247.945+/-	22.884	58	S GND PAR	1.191+/-	1.351
30	N CD/Byron	1.784+/-	1.022	59	N Rel Hum	82.544+/-	1.196
31	N 74' Temp	66.217+/-	3.441	60	S GND VER	.153+/-	.434
32	N CD2/Byron	440.238+/-	44.772	61	N Solar Rad	278.945+/-	71.837
35	N HA 74'	4.909+/-	2.529	64	S VA 55'	.207+/-	.877

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	4.37+/-	1.44	285.3+/-	24.4	6.1+/-	15.7
02	17	19	21	3.83+/-	1.40	260.8+/-	25.1	6.1+/-	14.4
03	38	40	42	3.02+/-	1.96	281.1+/-	39.0	12.2+/-	25.6
04	41	43	45	2.88+/-	1.22	254.6+/-	44.7	6.6+/-	16.2
05	50	52	54	3.36+/-	1.71	267.3+/-	20.3	10.2+/-	20.2
06	56	58	60	1.67+/-	1.49	250.4+/-	38.3	13.9+/-	24.7

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1933 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	59.0	56	58.0	64	58.0	30	60.5	7	52.5
Cat2	81	61.6	123	57.6	147	59.8	136	59.8	71	52.4
Cat3	23	63.0	26	61.3	34	58.3	15	58.6	10	51.7
Cat4	13	66.0	21	63.1	10	59.4	13	60.4	4	49.7
Cat5	4	63.8	14	66.7	3	60.6	5	62.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	63.5	51	61.0	63	61.5	59	58.7	13	47.3
Cat2	123	66.6	153	62.3	125	63.0	130	60.5	42	48.2
Cat3	14	64.8	25	61.6	31	60.5	21	57.4	2	45.6
Cat4	8	67.6	18	64.3	18	60.4	2	56.2	1	36.3
Cat5	4	62.5	6	61.6	5	60.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.4	452	23.4	60.3	1131	58.5	59.9	201	10.4	62.0	108	5.6	63.5	41	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.639+/-	1.553	37	N VA 102'	.117+/-	1.154
12	N Dasibi C0	1.953+/-	599	38	S BOT PER	.553+/-	1.738
13	N TOP PAR	5.367+/-	1.928	39	N VA 74'	-.037+/-	1.053
14	N Dasibi 03	.015+/-	.002	40	S BOT PAR	2.378+/-	1.869
15	N TOP VER	.355+/-	1.056	41	N GND PER	1.188+/-	1.923
16	N NOX/TECO	.211+/-	.090	42	S BOT VER	.273+/-	1.287
17	N BOT PER	.952+/-	1.403	43	N GND PAR	3.027+/-	2.141
19	N BOT PAR	4.768+/-	1.996	45	N GND VER	.161+/-	.971
20	N NO2/TECO	.037+/-	.005	49	N Ecolyzer-1	2.098+/-	.436
21	N BOT VER	.348+/-	.926	50	S TOP PER	.972+/-	1.524
22	N NO/TECO	.174+/-	.087	51	N Ecolyzer-2	2.277+/-	.458
23	N HA 102'	7.273+/-	1.606	52	S TOP PAR	3.027+/-	1.859
24	N THC/Byron	2.635+/-	.068	53	N Ecolyzer-3	2.663+/-	.733
25	N WV 102'	255.858+/-	12.942	54	S TOP VER	.185+/-	.948
26	N MMHC/Byro	3.387+/-	.310	55	N Ecolyzer-4	2.892+/-	.864
27	N Gnd Temp	72.477+/-	2.392	56	S GND PER	.207+/-	1.354
28	N CH4/Byron	1.422+/-	.124	57	N Ecolyzer-5	2.313+/-	1.682
29	N WV 74'	239.097+/-	14.253	58	S GND PAR	1.184+/-	1.289
30	N CO/Byron	1.956+/-	.561	59	N Rel Hum	79.873+/-	.582
31	N 74' Temp	69.741+/-	2.503	60	S GND VER	.093+/-	.643
32	N CO2/Byron	448.787+/-	37.631	61	N Solar Rad	403.858+/-	11.585
35	N HA 74'	7.107+/-	2.638	64	S VA 55'	-.012+/-	1.028

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.77+/-	1.81	260.5+/- 17.0
02	17 19 21	5.22+/-	1.82	255.6+/- 18.3
03	38 40 42	3.38+/-	1.77	254.3+/- 38.7
04	41 43 45	4.13+/-	1.64	245.8+/- 36.2
05	50 52 54	3.66+/-	1.86	251.7+/- 23.0
06	56 58 60	1.90+/-	1.32	246.4+/- 41.6

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 1949 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	58.2	50	55.8	68	57.1	37	60.1	5	51.6
Cat2	65	60.1	118	57.5	153	59.2	122	58.9	85	51.1
Cat3	18	60.9	43	60.0	30	58.5	17	57.4	9	47.0
Cat4	7	61.7	21	61.3	6	58.1	10	57.6	1	39.9
Cat5	4	68.9	6	65.3	1	62.3	2	49.3	3	51.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	63.2	48	59.4	67	62.1	53	59.7	22	48.7
Cat2	147	64.6	148	62.5	128	63.1	140	61.0	53	49.8
Cat3	21	65.4	26	63.1	30	61.4	15	61.9	1	44.4
Cat4	8	65.4	11	62.8	15	64.0	5	55.6	1	42.6
Cat5	2	70.6	8	66.2	4	67.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	467	24.0	59.8	1159	59.5	60.3	210	10.8	60.8	83	4.3	64.0	30	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	-.084+/-	1.523	37	N VA 102'	.279+/-	1.067
12	N Dasibi C0	1.597+/-	.589	38	S BOT PER	.065+/-	1.915
13	N TOP PAR	4.850+/-	2.013	39	N VA 74'	.155+/-	.803
14	N Dasibi 03	.018+/-	.003	40	S BOT PAR	2.901+/-	2.119
15	N TOP VER	.432+/-	.891	41	N GND PER	.240+/-	1.706
16	N NOX/TECO	.157+/-	.110	42	S BOT VER	.337+/-	1.055
17	N BOT PER	.499+/-	1.096	43	N GND PAR	2.996+/-	1.878
19	N BOT PAR	4.423+/-	1.891	45	N GND VER	.188+/-	.504
20	N NO2/TECO	.034+/-	.007	49	N Ecolyzer-1	2.156+/-	.405
21	N BOT VER	.382+/-	.805	50	S TOP PER	.288+/-	1.470
22	N NO/TECO	.123+/-	.105	51	N Ecolyzer-2	2.060+/-	.495
23	N HA 102'	6.258+/-	1.602	52	S TOP PAR	3.779+/-	1.847
24	N THC/Byron	2.500+/-	.122	53	N Ecolyzer-3	2.411+/-	.825
25	N WV 102'	258.553+/-	16.990	54	S TOP VER	.357+/-	1.061
26	N MMHC/Byro	2.957+/-	.204	55	N Ecolyzer-4	2.495+/-	.905
27	N Gnd Temp	73.102+/-	2.160	56	S GND PER	-.155+/-	1.517
28	N CH4/Byron	1.352+/-	.110	57	N Ecolyzer-5	1.771+/-	1.402
29	N WV 74'	244.930+/-	19.572	58	S GND PAR	1.451+/-	1.521
30	N CO/Byron	1.480+/-	.286	59	N Rel Hum	78.245+/-	1.541
31	N 74' Temp	69.589+/-	3.143	60	S GND VER	.280+/-	.581
32	N CO2/Byron	412.474+/-	14.710	61	N Solar Rad	434.722+/-	7.338
35	N HA 74'	6.108+/-	2.456	64	S VA 55'	.147+/-	1.130

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	5.19+/-	1.97	266.7+/-	18.4	6.1+/-	11.8
02	17	19	21	4.72+/-	1.72	259.9+/-	17.0	6.4+/-	13.0
03	38	40	42	3.74+/-	1.95	258.7+/-	36.8	8.6+/-	23.9
04	41	43	45	3.63+/-	1.59	259.5+/-	34.0	4.4+/-	12.3
05	50	52	54	4.25+/-	1.77	263.0+/-	19.1	9.1+/-	21.1
06	56	58	60	2.14+/-	1.60	257.1+/-	40.9	12.1+/-	29.6

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 1976 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	56.3	63	55.8	67	56.1	24	58.1	2	53.1
Cat2	79	60.4	118	57.6	155	59.1	157	58.5	84	52.8
Cat3	15	60.6	33	61.3	33	58.1	14	60.5	10	50.8
Cat4	12	66.1	15	63.6	16	55.6	13	59.9	7	49.7
Cat5	3	69.8	10	61.2	2	57.8	5	61.2	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	62.5	60	60.1	76	62.5	60	59.5	20	50.0
Cat2	136	65.6	142	62.7	130	63.4	125	61.0	46	48.5
Cat3	11	65.0	40	61.7	16	59.8	14	58.0	2	42.0
Cat4	9	65.3	12	63.8	16	61.1	5	59.0	1	53.1
Cat5	3	68.4	6	62.0	9	61.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	470	23.8	60.1	1174	59.4	59.8	188	9.5	60.8	106	5.4	62.5	38	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.379+/-	1.409	37	N VA 102'	.288+/-	1.112
12	N Dasibi CD	1.888+/-	.623	38	S BDT PER	-.020+/-	1.887
13	N TOP PAR	4.311+/-	1.789	39	N VA 74'	.037+/-	1.040
14	N Dasibi D3	.016+/-	.002	40	S BDT PAR	2.592+/-	2.108
15	N TOP VER	.325+/-	.992	41	N GND PER	1.020+/-	1.883
16	N ND/TECD	.208+/-	.105	42	S BDT VER	.364+/-	1.152
17	N BDT PER	.895+/-	1.160	43	N GND PAR	2.380+/-	2.180
19	N BDT PAR	3.813+/-	1.804	45	N GND VER	-.166+/-	.781
20	N ND2/TECD	.038+/-	.006	49	N Ecolyzer-1	2.103+/-	.398
21	N BDT VER	.339+/-	.865	50	S TOP PER	-.391+/-	1.554
22	N ND/TECD	.170+/-	.102	51	N Ecolyzer-2	2.064+/-	.538
23	N HA 102'	6.368+/-	1.813	52	S TOP PAR	3.284+/-	1.974
24	N THC/Byron	2.557+/-	.099	53	N Ecolyzer-3	2.857+/-	1.051
25	N WV 102'	262.608+/-	17.627	54	S TOP VER	.551+/-	1.130
26	N NMHC/Byro	3.390+/-	.154	55	N Ecolyzer-4	2.781+/-	1.033
27	N Gnd Temp	76.645+/-	1.981	56	S GND PER	-.070+/-	1.462
28	N CH4/Byron	1.394+/-	.104	57	N Ecolyzer-5	2.244+/-	1.220
29	N WV 74'	247.301+/-	18.859	58	S GND PAR	1.158+/-	1.448
30	N CD/Byron	1.729+/-	.587	59	N Rel Hum	75.183+/-	.569
31	N 74' Temp	72.034+/-	3.753	60	S GND VER	.228+/-	.585
32	N CD2/Byron	420.127+/-	10.568	61	N Solar Rad	458.566+/-	8.412
35	N HA 74'	6.362+/-	2.373	64	S VA 55'	.487+/-	1.129

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	4.68+/-	1.75	263.7+/-	18.8
02	17 19 21	4.24+/-	1.67	254.9+/-	19.8
03	38 40 42	3.49+/-	2.02	261.6+/-	38.4
04	41 43 45	3.53+/-	1.74	243.8+/-	39.5
05	50 52 54	3.92+/-	1.82	259.9+/-	23.0
06	56 58 60	1.91+/-	1.52	246.3+/-	42.6

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 2013 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	57.7	52	54.9	85	56.8	15	58.6	5	52.8
Cat2	93	60.1	135	57.4	137	58.0	131	59.0	96	51.2
Cat3	16	61.7	27	62.1	27	56.9	13	56.2	5	45.0
Cat4	7	63.4	17	62.5	17	57.0	9	59.0	8	51.0
Cat5	2	64.8	7	64.2	2	61.1	3	47.9	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	62.1	58	60.1	59	61.6	47	59.5	18	49.4
Cat2	144	64.5	158	62.2	151	62.2	126	61.3	54	50.3
Cat3	19	64.6	36	60.9	32	62.3	12	61.8	2	45.9
Cat4	15	66.9	24	62.2	22	62.4	8	62.5	0	0
Cat5	2	63.9	8	57.2	4	62.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	448	22.3	59.5	1225	60.9	60.3	189	9.4	61.3	127	6.3	60.4	24	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.689+/-	1.717	37	N VA 102'	.542+/-	1.336
12	N Dasibi CD	1.739+/-	.394	38	S BDT PER	.282+/-	1.763
13	N TOP PAR	5.777+/-	2.152	39	N VA 74'	.513+/-	1.288
14	N Dasibi D3	.016+/-	.002	40	S BDT PAR	3.172+/-	2.255
15	N TOP VER	.725+/-	1.077	41	N GND PER	1.382+/-	2.152
16	N ND/TECD	.209+/-	.097	42	S BDT VER	.091+/-	1.002
17	N BDT PER	1.005+/-	1.493	43	N GND PAR	3.421+/-	2.122
19	N BDT PAR	5.305+/-	2.182	45	N GND VER	.367+/-	.933
20	N ND2/TECD	.035+/-	.005	49	N Ecolyzer-1	1.857+/-	.330
21	N BDT VER	.575+/-	.978	50	S TOP PER	-.379+/-	1.218
22	N ND/TECD	.175+/-	.097	51	N Ecolyzer-2	1.779+/-	.439
23	N HA 102'	7.955+/-	1.625	52	S TOP PAR	4.025+/-	1.861
24	N THC/Byron	2.586+/-	.041	53	N Ecolyzer-3	2.347+/-	.741
25	N WV 102'	257.604+/-	15.921	54	S TOP VER	.085+/-	1.001
26	N NMHC/Byro	3.307+/-	.212	55	N Ecolyzer-4	2.423+/-	.672
27	N Gnd Temp	75.681+/-	2.861	56	S GND PER	-.275+/-	1.450
28	N CH4/Byron	1.407+/-	.083	57	N Ecolyzer-5	2.064+/-	1.326
29	N WV 74'	243.305+/-	18.910	58	S GND PAR	1.685+/-	1.486
30	N CD/Byron	2.516+/-	.552	59	N Rel Hum	74.271+/-	.747



31	N 74' Temp	74.040+/-	2.090	DEGR F	60	S GND VER	.159+/-	.655	mph
32	N CD2/Byron	412.952+/-	12.471	ppm	61	N Solar Rad	484.498+/-	12.118	W/m <sup>2</sup>
35	N HA 74'	8.013+/-	2.592	mph	64	S VA 55'	.068+/-	1.043	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	6.22+/- 2.09	262.7+/- 15.8	8.2+/- 13.9			
02	17	19	21	5.76+/- 2.05	258.4+/- 18.1	8.7+/- 15.0			
03	38	40	42	3.82+/- 2.17	256.7+/- 34.8	6.7+/- 21.1			
04	41	43	45	4.50+/- 1.87	246.8+/- 35.0	5.5+/- 11.8			
05	50	52	54	4.35+/- 1.95	263.5+/- 14.4	3.9+/- 19.3			
06	56	58	60	2.25+/- 1.60	261.7+/- 35.9	10.3+/- 30.6			

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 7871 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	180	57.8	221	55.6	284	57.0	106	59.6	19	52.4
Cat 2	318	60.6	494	57.5	592	59.0	546	59.3	336	51.8
Cat 3	72	61.7	129	61.0	124	58.0	59	58.2	34	49.2
Cat 4	39	64.8	74	62.5	49	57.2	45	59.4	20	49.7
Cat 5	13	66.9	37	64.5	8	60.2	15	57.5	3	51.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	273	63.1	217	60.1	265	62.0	219	59.3	73	49.0
Cat 2	552	65.3	601	62.4	534	62.9	521	60.9	195	49.3
Cat 3	65	65.0	127	61.7	109	61.2	62	59.5	7	44.5
Cat 4	38	66.4	85	63.2	71	61.9	20	59.2	3	44.0
Cat 5	11	65.9	24	62.5	22	62.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.0	1837	23.3	59.9	4689	59.6	60.1	788	10.0	61.2	424	5.4	62.8	133	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.406+/- 1.581	mph	37	N VA 102'	.307+/- 1.179	mph
12	N Dasibi CD	1.794+/- .575	ppm	38	S BOT PER	.220+/- 1.837	mph
13	N TDP PAR	5.076+/- 2.042	mph	39	N VA 74'	.167+/- 1.079	mph
14	N Dasibi Q3	.016+/- .003	ppm	40	S BOT PAR	2.761+/- 2.132	mph
15	N TDP VER	.459+/- 1.017	mph	41	N GND PER	.957+/- 1.967	mph
16	N NDX/TECO	.196+/- .102	ppm	42	S BOT VER	.269+/- 1.132	mph
17	N BOT PER	.838+/- 1.311	mph	43	N GND PAR	2.951+/- 2.114	mph
19	N BOT PAR	4.577+/- 2.042	mph	45	N GND VER	.221+/- .821	mph
20	N ND2/TECO	.036+/- .006	ppm	48	N EcoLyzer-1	2.053+/- .410	ppm
21	N BOT VER	.411+/- .898	mph	50	S TOP PER	.508+/- 1.470	mph
22	N ND/TECO	.161+/- .100	ppm	51	N EcoLyzer-2	2.045+/- .515	ppm
23	N HA 102'	6.965+/- 1.800	mph	52	S TOP PAR	3.524+/- 1.953	mph
24	N THC/Byron	2.569+/- .099	ppm	53	N EcoLyzer-3	2.569+/- .871	ppm
25	N WV 102'	258.636+/- 16.122	DEGR AZ	54	S TOP VER	.297+/- 1.050	mph
26	N NMHC/Byro	3.260+/- .285	ppm	55	N EcoLyzer-4	2.648+/- .899	ppm
27	N Gnd Temp	74.476+/- 2.898	DEGR F	56	S GND PER	.073+/- 1.455	mph
28	N CH4/Byron	1.404+/- .104	ppm	57	N EcoLyzer-5	2.098+/- 1.432	ppm
29	N WV 74'	243.628+/- 17.673	DEGR AZ	58	S GND PAR	1.365+/- 1.447	mph
30	N CD/Byron	1.930+/- .629	ppm	59	N Rel Hum	76.893+/- 2.463	%
31	N 74' Temp	71.376+/- 3.395	DEGR F	60	S GND VER	.190+/- .620	mph
32	N CD2/Byron	423.587+/- 25.986	ppm	61	N Solar Rad	445.161+/- 31.639	W/m <sup>2</sup>
35	N HA 74'	6.897+/- 2.619	mph	64	S VA 55'	.139+/- 1.102	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.47+/- 1.99	263.4+/- 17.1	6.0+/- 13.7
02	17 19 21	4.89+/- 1.90	257.2+/- 18.4	6.4+/- 14.0
03	38 40 42	3.61+/- 1.98	257.8+/- 37.2	9.6+/- 25.7
04	41 43 45	3.85+/- 1.76	249.1+/- 36.5	4.5+/- 14.2
05	50 52 54	4.04+/- 1.87	259.6+/- 20.6	9.7+/- 23.3
06	56 58 60	2.05+/- 1.52	263.2+/- 40.6	13.1+/- 30.9

11:16:39 -- PROGRAM RESTART 1  
 11:16:40 -- 12/10/84  
 11:16:41 -- THIS IS A PROGRAM RESTART.  
 11:18:20 -- THIS IS A PROGRAM RESTART FILE PRINTER PROBLEM IN PREVIOUS FILE.  
 11:22:43 -- BEGIN CALIBRATION CH 57  
 11:32:41 -- END CALIBRATION OF CH 57 NCO-5  
 11:33:01 -- BEGIN CALIBRATION OF CH 55 NCO-4  
 11:42:41 -- END CALIBRATION CH 55  
 11:42:49 -- BEGIN CALIBRATION CH 53  
 11:47:38 -- END CALIBRATION CH 53  
 11:47:52 -- BEGIN CALIBRATION CH 51  
 11:57:51 -- BEGIN CALIBRATION CH 49

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1685 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	57.5	59	55.0	71	57.8	18	60.0	5	53.5
Cat2	91	60.7	119	57.7	143	58.5	138	60.4	69	52.8
Cat3	12	59.7	27	61.7	18	56.0	22	60.0	3	56.7
Cat4	6	64.4	21	63.0	10	58.1	9	60.3	3	49.4
Cat5	5	67.1	3	68.5	2	84.0	4	62.6	1	49.9

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	64.2	58	61.3	63	62.2	47	58.8	14	46.3
Cat2	143	65.2	139	63.3	117	63.3	130	61.0	53	47.8
Cat3	11	65.3	28	62.5	34	62.0	16	60.7	3	47.7
Cat4	8	66.0	21	63.3	17	61.5	4	57.8	2	45.2
Cat5	1	58.0	2	63.8	5	61.8	0	0	1	44.8

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.4	443	23.5	60.2	1142	60.6	60.7	175	9.3	61.4	101	5.4	62.9	24	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.848+/-	2.282	37	N VA 102'	.808+/-	1.357
12	N Dasibi CD	1.496+/-	.547	38	S BOT PER	.295+/-	2.079
13	N TOP PAR	6.856+/-	2.710	39	N VA 74'	.454+/-	1.377
14	N Dasibi D3	.016+/-	.003	40	S BOT PAR	4.191+/-	2.575
15	N TOP VER	.773+/-	1.396	41	N GND PER	1.079+/-	2.156
16	N NOX/TECO	.179+/-	.071	42	S BOT VER	.092+/-	1.477
17	N BOT PER	1.140+/-	1.793	43	N GND PAR	4.553+/-	2.439
19	N BOT PAR	6.384+/-	2.680	45	N GND VER	.341+/-	.876
20	N NO2/TECO	.032+/-	.008	48	N EcoLyzer-1	1.526+/-	.459
21	N BOT VER	.711+/-	1.197	50	S TOP PER	.862+/-	2.020
22	N NO/TECO	.147+/-	.068	51	N EcoLyzer-2	1.543+/-	.413
23	N HA 102'	9.439+/-	2.336	52	S TOP PAR	5.696+/-	2.780
24	N THC/Byron	2.245+/-	.082	53	N EcoLyzer-3	2.123+/-	.727
25	N WV 102'	254.628+/-	17.971	54	S TOP VER	-.131+/-	1.390
26	N NMHC/Byro	2.738+/-	.423	55	N EcoLyzer-4	2.195+/-	.728
27	N Gnd Temp	76.676+/-	1.517	56	S GND PER	-.325+/-	1.886
28	N CH4/Byron	1.328+/-	.076	57	N EcoLyzer-5	1.752+/-	1.774
29	N WV 74'	240.018+/-	16.514	58	S GND PAR	1.989+/-	1.769
30	N CO/Byron	1.166+/-	.492	59	N Rel Hum	72.834+/-	1.102
31	N 74' Temp	74.047+/-	3.338	60	S GND VER	.189+/-	.890
32	N CO2/Byron	455.656+/-	9.484	61	N Solar Rad	511.612+/-	15.150
35	N HA 74'	9.296+/-	3.095	64	S VA 55'	-.290+/-	1.566

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.49+/-	2.60	261.7+/- 17.8
02	17 19 21	6.95+/-	2.45	257.1+/- 17.3
03	38 40 42	4.90+/-	2.60	259.7+/- 27.4
04	41 43 45	5.33+/-	2.22	253.1+/- 27.7
05	50 52 54	6.27+/-	2.75	258.8+/- 19.0
06	56 58 60	2.76+/-	1.88	264.5+/- 37.1

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 1740 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	58.3	48	55.4	70	57.5	22	58.6	6	50.8
Cat2	71	60.1	117	57.6	137	58.4	123	58.4	73	52.3
Cat3	10	62.0	36	60.8	21	58.4	15	58.8	5	49.3
Cat4	9	61.1	20	61.1	10	58.4	9	57.9	5	48.4
Cat5	3	67.0	7	66.0	2	61.4	1	65.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.8	31	60.7	55	61.7	50	59.1	14	47.6
Cat2	129	66.7	141	63.0	119	62.7	113	61.7	38	46.3
Cat3	10	66.4	26	63.3	23	62.8	10	61.7	4	47.0
Cat4	6	67.2	16	63.9	17	62.2	6	60.0	1	52.2
Cat5	2	68.1	5	67.5	3	62.3	1	61.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	395	22.7	60.0	1061	61.0	60.8	161	9.3	60.8	99	5.7	65.5	24	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.876+/-	1.877	37	N VA 102'	.478+/-	1.351
12	N Dasibi CD	1.442+/-	.232	38	S BOT PER	.485+/-	2.369
13	N TOP PAR	7.184+/-	1.824	39	N VA 74'	.035+/-	1.371
14	N Dasibi D3	.017+/-	.003	40	S BOT PAR	4.017+/-	2.119
15	N TOP VER	.404+/-	1.194	41	N GND PER	2.477+/-	2.078
16	N NOX/TECO	.184+/-	.046	42	S BOT VER	.130+/-	1.322
17	N BOT PER	2.110+/-	1.748	43	N GND PAR	4.796+/-	2.181
19	N BOT PAR	6.231+/-	1.907	45	N GND VER	.237+/-	.915
20	N NO2/TECO	.028+/-	.005	48	N EcoLyzer-1	.978+/-	.314
21	N BOT VER	.467+/-	1.050	50	S TOP PER	1.025+/-	2.017
22	N NO/TECO	.157+/-	.045	51	N EcoLyzer-2	1.147+/-	.362
23	N HA 102'	10.028+/-	1.426	52	S TOP PAR	5.534+/-	2.094
24	N THC/Byron	2.181+/-	.082	53	N EcoLyzer-3	1.773+/-	.661
25	N WV 102'	250.633+/-	10.329	54	S TOP VER	-.024+/-	1.285
26	N NMHC/Byro	2.579+/-	.522	55	N EcoLyzer-4	1.896+/-	.615

27	N Gnd Temp	75.955+/-	2.770	DEGR F	56	S GND PER	-.038+/-	1.905	mph
28	N CH4/Byron	1.236+/-	.060	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	236.410+/-	12.523	DEGR AZ	58	S GND PAR	1.927+/-	1.465	mph
30	N CO/Byron	1.392+/-	.225	ppm	59	N Rel Hum	73.205+/-	.662	%
31	N 74' Temp	72.555+/-	1.817	DEGR F	60	S GND VER	.139+/-	.991	mph
32	N CO2/Byron	445.288+/-	19.131	ppm	61	N Solar Rad	542.472+/-	21.639	W/m**2
35	N HA 74'	10.712+/-	2.547	mph	64	S VA 55'	-.282+/-	1.602	mph

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)		
01	11	13	15	7.73+/-	1.87	255.0+/-	12.1	4.2+/-	10.5	
02	17	19	21	6.80+/-	1.90	251.4+/-	14.0	5.3+/-	10.3	
03	38	40	42	4.80+/-	2.04	262.4+/-	32.6	4.5+/-	17.2	
04	41	43	45	5.82+/-	2.01	242.7+/-	22.7	3.2+/-	10.0	
05	50	52	54	6.13+/-	2.04	258.9+/-	19.5	2.1+/-	14.5	
06	56	58	60	2.80+/-	1.61	268.2+/-	38.8	6.9+/-	30.8	

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2045 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	56.5	62	55.4	76	57.5	40	60.2	5	50.4
Cat2	92	59.1	125	57.0	121	58.6	140	59.5	75	50.7
Cat3	14	60.8	34	61.3	31	59.2	19	59.4	5	54.9
Cat4	3	68.5	21	62.2	14	60.5	9	61.0	5	41.7
Cat5	4	65.2	8	60.3	2	59.8	7	60.5	2	54.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	62.4	36	59.4	55	61.7	52	59.9	23	47.6
Cat2	170	65.8	148	62.3	142	61.5	137	61.4	62	48.9
Cat3	13	65.3	31	62.2	44	62.6	13	59.3	2	49.3
Cat4	17	65.9	29	63.5	24	62.0	7	59.5	2	42.8
Cat5	1	63.0	9	63.8	8	64.4	1	48.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	454	22.2	59.7	1212	59.3	61.0	206	10.1	61.6	131	6.4	61.8	42	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.079+/-	2.826	37	N VA 102'	.476+/-	1.583
12	N Desib: CO	1.358+/-	.414	38	S BOT PER	2.104+/-	2.320
13	N TOP PAR	6.548+/-	2.073	39	N VA 74'	.240+/-	1.457
14	N Desib: O3	.019+/-	.003	40	S BOT PAR	2.243+/-	2.056
15	N TOP VER	.596+/-	1.309	41	N GND PER	2.787+/-	2.275
16	N NDX/TECO	.172+/-	.063	42	S BOT VER	.376+/-	1.282
17	N BOT PER	3.023+/-	2.739	43	N GND PAR	3.693+/-	2.183
19	N BOT PAR	5.631+/-	1.972	45	N GND VER	.263+/-	.936
20	N ND2/TECO	.028+/-	.006	48	N Ecolyzer-1	.857+/-	.380
21	N BOT VER	.383+/-	1.114	50	S TOP PER	2.655+/-	2.382
22	N ND/TECO	.146+/-	.060	51	N Ecolyzer-2	1.045+/-	.612
23	N HA 102'	11.146+/-	2.844	52	S TOP PAR	3.891+/-	2.135
24	N TNC/Byron	2.076+/-	.089	53	N Ecolyzer-3	1.697+/-	.700
25	N WV 102'	242.338+/-	16.291	54	S TOP VER	.344+/-	1.229
26	N NMHC/Byro	3.003+/-	.106	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	77.996+/-	3.337	56	S GND PER	1.265+/-	1.945
28	N CH4/Byron	1.413+/-	.130	57	N Ecolyzer-5	1.997+/-	1.028
29	N WV 74'	227.621+/-	17.699	58	S GND PAR	.976+/-	1.434
30	N CO/Byron	.836+/-	.192	59	N Rel Hum	72.432+/-	.587
31	N 74' Temp	73.186+/-	1.871	60	S GND VER	.253+/-	.977
32	N CO2/Byron	419.751+/-	12.958	61	N Solar Rad	528.433+/-	123.158
35	N HA 74'	8.888+/-	2.914	64	S VA 55'	.137+/-	1.408

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)		
01	11	13	15	7.77+/-	2.48	246.8+/-	17.6	6.1+/-	11.8	
02	17	19	21	8.86+/-	2.55	244.0+/-	17.6	5.1+/-	11.8	
03	38	40	42	4.02+/-	2.18	224.9+/-	34.7	10.5+/-	21.5	
04	41	43	45	5.27+/-	2.12	231.8+/-	26.2	4.8+/-	12.9	
05	50	52	54	5.34+/-	2.36	238.0+/-	23.8	8.8+/-	18.7	
06	56	58	60	2.66+/-	1.54	219.8+/-	42.6	12.1+/-	31.6	

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2085 vehicles averaging 59.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	57.0	62	55.4	86	57.6	34	59.3	7	52.4
Cat2	73	59.2	131	57.4	153	58.8	150	58.4	83	51.4
Cat3	18	60.1	39	60.2	34	58.7	23	58.4	4	51.0
Cat4	10	63.2	20	59.5	11	60.4	9	62.1	6	51.7
Cat5	6	65.9	9	64.9	1	55.5	3	58.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	62.5	58	60.4	85	61.2	69	59.8	16	46.4
Cat2	151	64.7	167	62.4	134	62.2	133	60.7	53	49.5
Cat3	15	63.5	27	62.4	30	63.7	14	58.9	5	46.7
Cat4	12	67.5	18	62.4	19	62.6	3	58.9	1	43.3
Cat5	1	74.2	4	63.3	3	65.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	502	24.1	59.4	1238	59.4	60.2	209	10.0	61.5	109	5.2	64.4	27	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.019+/-	2.111	37	N VA 102'	.497+/-	1.663
12	N Desib: CO	1.360+/-	.333	38	S BOT PER	.514+/-	2.424
13	N TOP PAR	8.097+/-	2.289	39	N VA 74'	.097+/-	1.653
14	N Desib: O3	.020+/-	.003	40	S BOT PAR	3.600+/-	2.509
15	N TOP VER	.455+/-	1.584	41	N GND PER	2.385+/-	2.346
16	N NDX/TECO	.156+/-	.064	42	S BOT VER	.531+/-	1.561
17	N BOT PER	2.637+/-	2.141	43	N GND PAR	5.164+/-	2.531

19	N BOT PAR	7.128+/-	2.266	mph	45	N GND VER	.271+/-	.957	mph
20	N NO2/TECO	.023+/-	.006	ppm	49	N Ecolyzer-1	.737+/-	.308	ppm
21	N BOT VER	.547+/-	1.378	mph	50	S TOP PER	1.100+/-	2.219	mph
22	N NO/TECO	.132+/-	.060	ppm	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	10.680+/-	2.017	mph	52	S TOP PAR	4.996+/-	2.326	mph
24	N THC/Byron	2.092+/-	.046	ppm	53	N Ecolyzer-3	1.514+/-	.622	ppm
25	N WV 102'	249.722+/-	11.314	DEGR AZ	54	S TOP VER	.435+/-	1.546	mph
26	N NMHC/Byro	2.762+/-	.181	ppm	55	N Ecolyzer-4	1.775+/-	.673	ppm
27	N Gnd Temp	76.984+/-	2.394	DEGR F	56	S GND PER	.081+/-	2.197	mph
28	N CH4/Byron	1.205+/-	.048	ppm	57	N Ecolyzer-5	1.793+/-	1.320	ppm
29	N WV 74'	235.728+/-	13.123	DEGR AZ	58	S GND PAR	1.715+/-	1.718	mph
30	N CO/Byron	1.111+/-	.123	ppm	59	N Rel Hum	72.036+/-	.968	%
31	N 74' Temp	73.923+/-	1.961	DEGR F	60	S GND VER	.368+/-	.901	mph
32	N CO2/Byron	408.118+/-	6.459	ppm	61	N Solar Rad	531.765+/-	124.510	W/m**2
35	N HA 74'	11.039+/-	3.303	mph	64	S VA 55'	.152+/-	1.481	mph

UVW Vector Calculations						
UVW -	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.76+/- 2.30	256.1+/- 13.3	4.3+/- 11.9		
02	17 19 21	8.03+/- 2.27	249.8+/- 14.9	5.2+/- 11.6		
03	38 40 42	4.79+/- 2.28	255.8+/- 36.4	9.9+/- 22.0		
04	41 43 45	6.37+/- 2.15	243.1+/- 25.5	3.6+/- 10.8		
05	50 52 54	5.82+/- 2.28	256.1+/- 21.6	7.6+/- 19.1		
06	56 58 60	2.90+/- 1.60	251.5+/- 43.8	10.3+/- 25.5		

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 7755 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	165	57.3	231	55.3	303	57.6	114	59.6	23	51.8
Cat2	327	59.8	492	57.4	554	58.6	551	59.2	310	51.8
Cat3	54	60.5	136	60.9	104	58.3	80	59.2	17	52.6
Cat4	28	63.4	82	61.5	45	59.5	36	60.3	19	47.9
Cat5	18	66.3	27	64.2	7	60.9	15	61.3	3	52.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	282	63.2	183	60.6	238	61.7	208	59.4	67	47.5
Cat2	593	65.6	595	62.7	512	62.4	513	61.2	206	48.3
Cat3	49	65.0	112	62.6	131	62.7	53	60.1	15	47.4
Cat4	43	66.5	84	63.3	77	62.1	20	59.4	6	45.3
Cat5	5	66.3	20	64.6	19	63.5	2	54.9	1	44.8

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.8	1794	23.1	58.8	4653	60.0	60.7	751	9.7	61.3	440	5.7	83.4	117	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.967+/- 2.408	mph	37	N VA 102'	.566+/- 1.503	mph
12	N Dasibi CO	1.413+/- .407	ppm	38	S BOT PER	.867+/- 2.412	mph
13	N TOP PAR	7.174+/- 2.344	mph	39	N VA 74'	.209+/- 1.479	mph
14	N Dasibi O3	.018+/- .003	ppm	40	S BOT PAR	3.492+/- 2.448	mph
15	N TOP VER	.560+/- 1.387	mph	41	N GND PER	2.183+/- 2.311	mph
16	N NOX/TECO	.172+/- .062	ppm	42	S BOT VER	.289+/- 1.431	mph
17	N BOT PER	2.240+/- 2.265	mph	43	N GND PAR	4.544+/- 2.401	mph
19	N BOT PAR	6.347+/- 2.292	mph	46	N GND VER	.279+/- .921	mph
20	N NO2/TECO	.027+/- .006	ppm	49	N Ecolyzer-1	1.036+/- .483	ppm
21	N BOT VER	.527+/- 1.199	mph	50	S TOP PER	1.426+/- 2.286	ppm
22	N NO/TECO	.145+/- .059	ppm	51	N Ecolyzer-2	1.251+/- .457	ppm
23	N HA 102'	10.340+/- 2.323	mph	52	S TOP PAR	5.009+/- 2.453	ppm
24	N THC/Byron	2.144+/- .101	ppm	53	N Ecolyzer-3	1.786+/- .717	ppm
25	N WV 102'	249.297+/- 15.047	DEGR AZ	54	S TOP VER	.164+/- 1.388	mph
26	N NMHC/Byro	2.785+/- .359	ppm	55	N Ecolyzer-4	1.894+/- .703	ppm
27	N Gnd Temp	76.973+/- 2.640	DEGR F	56	S GND PER	.259+/- 2.078	mph
28	N CH4/Byron	1.300+/- .119	ppm	57	N Ecolyzer-5	1.799+/- 1.390	ppm
29	N WV 74'	234.884+/- 15.780	DEGR AZ	58	S GND PAR	1.641+/- 1.653	mph
30	N CO/Byron	1.112+/- .344	ppm	59	N Rel Hum	72.593+/- .929	%
31	N 74' Temp	73.447+/- 2.285	DEGR F	60	S GND VER	.243+/- .942	mph
32	N CO2/Byron	430.853+/- 22.767	ppm	61	N Solar Rad	528.332+/- 89.972	W/m**2
35	N HA 74'	9.968+/- 3.120	mph	64	S VA 55'	.063+/- 1.502	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.95+/- 2.39	254.9+/- 16.3	5.6+/- 12.1		
02	17 19 21	7.20+/- 2.36	250.5+/- 16.7	5.7+/- 11.6		
03	38 40 42	4.84+/- 2.31	250.8+/- 35.1	7.6+/- 20.9		
04	41 43 45	5.72+/- 2.17	242.8+/- 25.5	4.3+/- 12.0		
05	50 52 54	5.88+/- 2.40	252.9+/- 22.6	5.1+/- 17.5		
06	56 58 60	2.78+/- 1.74	251.8+/- 42.8	11.2+/- 29.8		

12:02:35 -- TRYING ANOTHER PROGRAM RESTART.  
 12:04:40 -- PROGRAM RESTART 2  
 12:04:41 -- 12/10/84  
 12:04:42 -- THIS IS THE THIRD PROGRAM RESTART OF THE DAY. THIS IS FILE 14 ON ZX1320  
 12:10:47 -- END ALL ECOLYZER CALIBRATION MWM  
 Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 1614 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	57.7	58	55.2	76	58.2	32	59.5	3	56.1
Cat2	53	59.7	90	56.9	107	59.4	108	60.4	78	52.5
Cat3	8	60.3	29	59.4	23	58.5	13	59.3	4	47.7
Cat4	7	63.8	11	64.0	11	59.0	5	59.4	3	46.4
Cat5	4	57.5	1	60.7	0	0	5	56.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	63.4	47	60.1	46	61.2	36	59.0	16	49.0
Cat2	115	65.8	128	62.5	113	62.0	115	60.8	43	49.4
Cat3	10	69.3	26	62.9	31	61.6	11	56.7	2	49.3
Cat4	7	58.3	14	57.1	20	65.4	4	58.9	0	0
Cat5	4	56.4	4	62.8	5	64.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	401	24.8	59.9	950	58.8	60.3	157	9.7	63.9	82	5.1	61.6	24	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.848+/-	2.153	37	N VA 102'	.465+/-	1.725
12	N Dasibi CO	1.267+/-	.347	38	S BOT PER	2.167+/-	2.442
13	N TOP PAR	6.334+/-	1.961	39	N VA 74'	.104+/-	1.532
14	N Dasibi O3	*****+/-	*****	40	S BOT PAR	2.926+/-	2.050
15	N TOP VER	.138+/-	1.231	41	N GND PER	2.733+/-	2.039
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.240+/-	1.538
17	N BOT PER	3.747+/-	2.409	43	N GND PAR	3.491+/-	2.378
18	N BOT PAR	5.575+/-	1.717	45	N GND VER	.238+/-	.968
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.142+/-	1.153	50	S TOP PER	2.743+/-	2.074
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	.717+/-	.325
23	N HA 102'	9.774+/-	2.394	52	S TOP PAR	4.828+/-	2.369
24	N THC/Byron	2.056+/-	.086	53	N Ecolyzer-3	1.303+/-	.557
25	N WV 102'	235.252+/-	14.375	54	S TOP VER	-.048+/-	1.365
26	N NMHC/Byro	2.563+/-	.258	55	N Ecolyzer-4	1.562+/-	.577
27	N Gnd Temp	76.873+/-	3.893	56	S GND PER	1.103+/-	2.124
28	N CH4/Byron	1.293+/-	.089	57	N Ecolyzer-5	1.710+/-	1.339
29	N WV 74'	221.863+/-	14.430	58	S GND PAR	1.207+/-	1.672
30	N CO/Byron	.904+/-	.161	59	N Rel Hum	69.248+/-	1.039
31	N 74' Temp	74.379+/-	2.219	60	S GND VER	.106+/-	1.027
32	N CO2/Byron	431.526+/-	23.553	61	N Solar Rad	570.085+/-	136.286
35	N HA 74'	8.005+/-	2.636	64	S VA 55'	-.375+/-	1.468

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.75+/- 2.22	239.4+/- 14.0	2.0+/- 10.0
02	17 19 21	7.08+/- 2.25	237.7+/- 15.5	2.6+/- 10.8
03	38 40 42	4.70+/- 1.93	233.3+/- 34.7	6.9+/- 24.2
04	41 43 45	5.01+/- 2.31	230.9+/- 27.3	4.6+/- 14.3
05	50 52 54	8.20+/- 2.27	240.1+/- 22.1	3.1+/- 19.0
06	56 58 60	2.87+/- 1.66	223.0+/- 43.4	6.8+/- 31.3

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1971 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	56.2	65	55.2	83	58.6	37	60.3	5	51.5
Cat2	69	58.9	99	57.7	129	59.7	144	60.2	90	52.8
Cat3	17	62.2	30	59.6	17	60.5	9	60.8	7	47.7
Cat4	7	63.7	18	62.0	11	59.7	13	61.1	6	57.1
Cat5	6	64.0	10	65.3	1	54.1	4	66.8	1	50.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.2	38	60.1	70	61.2	63	58.2	17	47.3
Cat2	153	65.7	171	62.1	134	61.6	115	61.9	53	48.4
Cat3	14	65.3	33	61.6	41	62.2	12	63.2	1	45.3
Cat4	12	69.3	15	64.4	24	63.7	5	63.9	1	44.3
Cat5	3	66.5	7	65.1	5	66.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	484	24.6	60.1	1157	58.7	61.1	181	9.2	62.9	112	5.7	64.8	37	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.986+/-	2.080	37	N VA 102'	.307+/-	1.365
12	N Dasibi CO	1.288+/-	.313	38	S BOT PER	2.195+/-	1.967
13	N TOP PAR	6.164+/-	1.824	39	N VA 74'	-.238+/-	1.316
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	2.089+/-	1.720
15	N TOP VER	.225+/-	1.242	41	N GND PER	2.284+/-	1.908
16	N NOX/TECO	.141+/-	.041	42	S BOT VER	.409+/-	1.563
17	N BOT PER	3.888+/-	2.265	43	N GND PAR	3.456+/-	2.345
18	N BOT PAR	5.431+/-	1.808	45	N GND VER	.205+/-	.972
20	N NO2/TECO	.024+/-	.004	49	N Ecolyzer-1	.830+/-	.268
21	N BOT VER	.254+/-	1.182	50	S TOP PER	2.859+/-	1.978
22	N NO/TECO	.117+/-	.040	51	N Ecolyzer-2	.869+/-	.292
23	N HA 102'	10.201+/-	2.354	52	S TOP PAR	3.725+/-	1.936
24	N THC/Byron	2.008+/-	.117	53	N Ecolyzer-3	1.295+/-	.511
25	N WV 102'	231.280+/-	13.594	54	S TOP VER	1.508+/-	1.532
26	N NMHC/Byro	2.604+/-	.287	55	N Ecolyzer-4	1.576+/-	.518
27	N Gnd Temp	79.642+/-	2.703	56	S GND PER	1.404+/-	1.518
28	N CH4/Byron	1.267+/-	.086	57	N Ecolyzer-5	1.570+/-	.988
29	N WV 74'	219.273+/-	12.801	58	S GND PAR	.797+/-	1.441
30	N CO/Byron	.837+/-	.361	59	N Rel Hum	68.149+/-	1.942
31	N 74' Temp	75.988+/-	3.156	60	S GND VER	.257+/-	.865
32	N CO2/Byron	407.100+/-	8.494	61	N Solar Rad	556.526+/-	228.045
35	N HA 74'	8.086+/-	2.751	64	S VA 55'	.189+/-	1.517

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.68+/- 2.02	237.7+/- 14.1	2.6+/- 11.9
02	17 19 21	7.07+/- 2.06	235.2+/- 16.4	3.5+/- 13.1
03	38 40 42	3.89+/- 1.87	222.5+/- 32.0	11.1+/- 25.3
04	41 43 45	4.87+/- 1.89	233.4+/- 29.1	3.9+/- 13.8
05	50 52 54	5.27+/- 2.13	233.3+/- 19.9	11.2+/- 22.6
06	56 58 60	2.44+/- 1.36	211.5+/- 39.8	11.3+/- 25.6

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 2006 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	56.5	66	54.8	72	57.6	39	55.9	7	52.5
Cat2	87	59.5	118	57.9	143	58.6	142	60.7	89	51.9
Cat3	13	59.3	35	59.1	21	57.6	11	60.7	10	50.5
Cat4	10	62.0	17	61.3	8	58.9	9	63.0	3	50.2
Cat5	5	66.0	9	65.8	1	55.7	3	62.2	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	64.6	49	59.4	66	61.9	62	59.0	15	47.0
Cat2	140	66.0	174	62.6	138	63.1	114	61.2	60	48.3
Cat3	15	67.7	38	63.0	33	60.8	12	61.4	3	49.9
Cat4	9	66.8	17	62.5	21	63.1	5	59.5	2	44.3
Cat5	0	0	2	63.4	9	67.0	1	56.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	479	23.9	60.0	1205	60.1	60.3	191	9.5	61.7	101	5.0	65.0	30	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.678+/-	2.362	37	N VA 102'	.656+/-	1.653
12	N Dasibi CD	1.180+/-	.414	38	S BOT PER	1.761+/-	1.989
13	N TOP PAR	6.378+/-	2.485	39	N VA 74'	.081+/-	1.616
14	N Dasibi D3	.021+/-	.004	40	S BOT PAR	2.453+/-	1.864
15	N TOP VER	.481+/-	1.444	41	N GND PER	1.932+/-	2.060
16	N NDX/TECD	.136+/-	.084	42	S BOT VER	.139+/-	1.230
17	N BOT PER	2.509+/-	2.180	43	N GND PAR	3.491+/-	2.822
19	N BOT PAR	5.652+/-	2.551	45	N GND VER	.193+/-	.915
20	N NO2/TECD	.024+/-	.007	49	N Ecolyzer-1	.833+/-	.320
21	N BOT VER	.588+/-	1.330	50	S TOP PER	2.143+/-	2.164
22	N NO/TECD	.112+/-	.059	51	N Ecolyzer-2	.785+/-	.377
23	N HA 102'	9.445+/-	2.247	52	S TOP PAR	3.777+/-	2.013
24	N THC/Byron	2.091+/-	.055	53	N Ecolyzer-3	1.431+/-	.610
25	N WV 102'	240.275+/-	15.577	54	S TOP VER	.217+/-	1.088
26	N NMHC/Byro	3.185+/-	.392	55	N Ecolyzer-4	1.613+/-	.684
27	N Gnd Temp	78.443+/-	3.156	56	S GND PER	1.083+/-	1.623
28	N CH4/Byron	1.259+/-	.041	57	N Ecolyzer-5	1.372+/-	1.187
29	N WV 74'	225.747+/-	18.811	58	S GND PAR	1.017+/-	1.452
30	N CO/Byron	.620+/-	.256	59	N Rot HUM	68.686+/-	.446
31	N 74' Temp	74.066+/-	3.056	60	S GND VER	.264+/-	.780
32	N CO2/Byron	398.306+/-	18.637	61	N Solar Rad	479.821+/-	190.780
35	N HA 74'	8.852+/-	3.221	64	S VA 55'	.151+/-	1.365

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.54+/- 2.25	246.4+/- 18.4	6.3+/- 16.5
02	17 19 21	6.80+/- 2.29	244.3+/- 19.5	7.8+/- 17.0
03	38 40 42	3.88+/- 1.77	231.1+/- 32.5	5.8+/- 22.0
04	41 43 45	4.88+/- 2.28	235.8+/- 34.8	4.6+/- 13.6
05	50 52 54	4.86+/- 2.27	241.4+/- 22.7	6.0+/- 16.3
06	56 58 60	2.28+/- 1.55	226.3+/- 39.3	14.4+/- 28.2

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2002 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	57.3	66	56.1	74	58.0	28	60.9	3	51.5
Cat2	82	59.5	137	57.1	145	59.3	115	60.3	81	51.1
Cat3	11	60.7	25	61.3	13	59.6	13	59.2	7	50.2
Cat4	6	61.8	13	62.9	6	58.7	5	61.1	2	50.5
Cat5	4	64.8	5	66.0	0	0	2	64.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	65.3	38	60.9	64	62.0	60	59.9	30	47.4
Cat2	163	66.3	173	61.8	148	61.2	158	61.8	45	50.1
Cat3	20	64.7	38	62.9	39	61.1	13	61.7	1	37.1
Cat4	11	70.3	25	63.4	19	63.2	5	62.2	1	45.9
Cat5	1	70.5	6	63.5	6	61.0	1	58.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	457	22.8	60.1	1247	62.3	61.1	180	9.0	63.0	93	4.6	63.8	25	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.215+/-	1.725	37	N VA 102'	.824+/-	1.533
12	N Dasibi CD	.984+/-	.432	38	S BOT PER	-.084+/-	2.742
13	N TOP PAR	7.332+/-	2.612	39	N VA 74'	.180+/-	1.412
14	N Dasibi D3	.022+/-	.006	40	S BOT PAR	4.838+/-	3.048
15	N TOP VER	.576+/-	1.140	41	N GND PER	.360+/-	1.911
16	N NDX/TECD	.114+/-	.074	42	S BOT VER	.501+/-	1.443
17	N BOT PER	1.007+/-	1.507	43	N GND PAR	5.084+/-	2.310
19	N BOT PAR	6.788+/-	2.484	45	N GND VER	.240+/-	.759
20	N NO2/TECD	.026+/-	.003	49	N Ecolyzer-1	1.016+/-	.404
21	N BOT VER	.417+/-	.933	50	S TOP PER	.582+/-	2.447
22	N NO/TECD	.088+/-	.066	51	N Ecolyzer-2	.943+/-	.431
23	N HA 102'	9.224+/-	2.178	52	S TOP PAR	5.490+/-	2.586
24	N THC/Byron	2.122+/-	.054	53	N Ecolyzer-3	1.479+/-	.561
25	N WV 102'	257.780+/-	14.885	54	S TOP VER	.258+/-	1.270

26	N NMHC/Byron	3.136+/-	.340	ppm	55	N Ecolyzer-4	1.549+/-	.689	ppm
27	N Gnd Temp	77.583+/-	2.376	DEGR F	56	S GND PER	1.441+/-	2.374	mph
28	N CH4/Byron	1.278+/-	.053	ppm	57	N Ecolyzer-5	1.041+/-	1.022	ppm
29	N WV 74'	244.625+/-	15.014	DEGR AZ	58	S GND PAR	2.727+/-	2.036	mph
30	N CO2/Byron	.745+/-	.444	ppm	59	N Rel Hum	65.836+/-	.714	%
31	N 74' Temp	74.379+/-	1.964	DEGR F	60	S GND VER	1.87+/-	.938	mph
32	N CO2/Byron	405.308+/-	8.928	ppm	61	N Solar Rad	477.459+/-	168.934	W/m <sup>2</sup>
35	N HA 74'	9.367+/-	3.230	mph	64	S VA 55'	.050+/-	1.374	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.68+/-	2.51	267.1+/-	13.4	5.8+/- 11.8
02	17 19 21	7.16+/-	2.33	260.2+/-	14.6	4.3+/- 11.0
03	38 40 42	5.87+/-	2.83	262.7+/-	31.8	7.0+/- 20.5
04	41 43 45	5.53+/-	2.25	263.2+/-	22.1	3.6+/- 12.4
05	50 52 54	6.21+/-	2.49	261.1+/-	23.1	4.4+/- 15.7
06	56 58 60	3.71+/-	2.12	267.2+/-	38.2	6.4+/- 21.8

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 7593 vehicles averaging 60.0 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	181 56.9	257 55.3	305 58.1	135 60.1	18 52.7				
Cat2	291 55.4	444 57.4	524 59.2	509 60.4	338 52.1				
Cat3	49 60.8	119 59.8	74 58.9	46 59.9	28 49.3				
Cat4	30 62.8	59 62.4	36 59.1	32 61.4	14 52.4				
Cat5	19 63.3	25 65.5	2 54.9	14 61.8	1 50.0				

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	207 64.1	172 60.1	246 61.6	221 59.0	78 47.6				
Cat2	571 66.0	646 62.2	533 62.0	502 61.4	201 49.0				
Cat3	59 65.4	135 62.5	144 61.4	48 60.8	7 47.2				
Cat4	39 68.8	71 64.1	84 63.8	19 63.4	4 44.7				
Cat5	8 67.0	19 63.9	26 65.0	2 57.7	0				

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	1821	24.0	60.0	4559	60.0	60.7	709	9.3	62.8	388	5.1	64.0	116	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.629+/-	2.586	37	N VA 102'	.568+/-	1.577
12	N Desibi CD	1.178+/-	.398	38	S BOT PER	1.480+/-	2.488
13	N TOP PAR	6.562+/-	2.301	39	N VA 74'	.029+/-	1.477
14	N Desibi O3	.021+/-	.004	40	S BOT PAR	3.083+/-	2.484
15	N TOP VER	.364+/-	1.280	41	N GND PER	1.786+/-	2.165
16	N NOX/TECO	.134+/-	.061	42	S BOT VER	.326+/-	1.449
17	N BOT PER	2.739+/-	2.395	43	N GND PAR	3.898+/-	2.570
18	N BOT PAR	5.874+/-	2.255	44	N GND VER	.216+/-	.912
19	N NO2/TECO	.024+/-	.007	45	N Ecolyzer-1	.894+/-	.343
20	N BOT VER	.360+/-	1.180	46	S TOP PER	2.048+/-	2.362
21	N NO/TECO	.110+/-	.057	47	N Ecolyzer-2	.781+/-	.376
22	N HA 102'	9.656+/-	2.316	48	S TOP PAR	4.461+/-	2.359
23	N THC/Byron	2.070+/-	.091	49	N Ecolyzer-3	1.380+/-	.564
24	N WV 102'	241.347+/-	17.608	50	S TOP VER	.247+/-	1.333
25	N NMHC/Byron	2.883+/-	.427	51	N Ecolyzer-4	1.575+/-	.617
26	N Gnd Temp	78.623+/-	3.049	52	S GND PER	.773+/-	2.064
27	N CH4/Byron	1.273+/-	.065	53	N Ecolyzer-5	1.411+/-	1.159
28	N WV 74'	228.086+/-	18.208	54	S GND PAR	1.447+/-	1.835
29	N CO2/Byron	.770+/-	.338	55	N Rel Hum	67.913+/-	1.524
30	N 74' Temp	74.715+/-	2.709	56	S GND VER	.208+/-	.902
31	N CO2/Byron	409.457+/-	19.429	57	N Solar Rad	518.388+/-	185.650
32	N HA 74'	8.604+/-	3.032	58	S VA 55'	.021+/-	1.449

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.66+/-	2.25	248.0+/-	18.9	4.3+/- 13.0
02	17 19 21	7.02+/-	2.23	244.7+/-	19.1	4.7+/- 13.4
03	38 40 42	4.60+/-	2.26	237.5+/-	34.9	7.7+/- 23.0
04	41 43 45	5.07+/-	2.19	241.7+/-	31.0	4.2+/- 13.5
05	50 52 54	5.61+/-	2.36	244.0+/-	24.0	6.3+/- 18.8
06	56 58 60	2.82+/-	1.78	232.5+/-	42.8	9.9+/- 27.2

13:17:15 -- BEGIN ECOLYZER CALIBRATIONS.  
 13:18:29 -- BEGIN CALIBRATION OF CH 57 NCO-5 MWH  
 13:25:51 -- END CALIBRATION OF CH 57 NCO-5  
 13:26:00 -- BEGIN CALIBRATION OF CH 55 NCO-4  
 13:32:30 -- BEGIN CALIBRATION OF CH 53 NCO-3  
 13:32:36 -- END CALIBRATION OF NCO-4 CH 55  
 13:38:54 -- END CALIBRATION OF NCO-3 CH 53  
 13:39:01 -- BEGIN CALIBRATION OF NCO-2 CH 51  
 13:45:41 -- END CALIBRATION OF CH 51 NCO-2  
 13:46:01 -- BEGIN CALIBRATION OF NCO-1 CH 49  
 13:51:30 -- END ALL ECOLYZER CALIBRATIONS MWH

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1891 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	58.9	71	55.4	79	57.5	32	59.1	4	52.6
Cat2	79	59.3	132	57.2	141	59.0	126	60.2	74	51.6
Cat3	11	58.8	32	55.7	29	59.3	13	58.2	8	52.7
Cat4	5	65.6	15	62.1	8	58.0	12	59.7	3	56.3
Cat5	2	72.0	3	67.0	1	64.9	2	56.1	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	65.7	45	60.7	72	61.6	48	59.0	20	49.5
Cat2	162	66.5	146	62.2	141	62.6	157	61.5	58	48.6
Cat3	12	68.5	34	62.5	32	63.2	15	59.4	3	50.1
Cat4	10	68.2	18	62.8	16	63.1	2	60.0	0	0
Cat5	3	73.4	6	62.6	4	67.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	476	23.9	60.1	1216	61.1	60.7	189	9.5	62.4	89	4.5	66.1	21	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.260+/-	1.722	37	N VA 102'	.457+/-	1.036
12	N Dasibi CO	1.145+/-	.408	38	S BOT PER	-.084+/-	1.677
13	N TOP PAR	7.135+/-	2.357	39	N VA 74'	.260+/-	1.226
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	3.984+/-	2.373
15	N TOP VER	.736+/-	1.169	41	N GND PER	.884+/-	2.131
16	N NOX/TECO	.136+/-	.061	42	S BOT VER	.215+/-	1.339
17	N BOT PER	.799+/-	1.499	43	N GND PAR	4.539+/-	2.274
19	N BOT PAR	6.759+/-	2.374	45	N GND VER	.354+/-	.677
20	N ND2/TECO	.030+/-	.006	49	N Ecolyzer-1	1.130+/-	.367
21	N BOT VER	.658+/-	1.040	50	S TOP PER	-.013+/-	1.291
22	N ND/TECO	.106+/-	.057	51	N Ecolyzer-2	1.247+/-	.424
23	N HA 102'	8.952+/-	1.920	52	S TOP PAR	5.262+/-	2.202
24	N THC/Byron	2.097+/-	.082	53	N Ecolyzer-3	1.859+/-	.626
25	N WV 102'	258.458+/-	12.000	54	S TOP VER	1.08+/-	1.217
26	N NMHC/Byro	2.653+/-	.659	55	N Ecolyzer-4	1.823+/-	.611
27	N Gnd Temp	77.792+/-	3.115	56	S GND PER	-.429+/-	1.593
28	N CH4/Byron	1.301+/-	.084	57	N Ecolyzer-5	1.431+/-	1.151
29	N WV 74'	244.255+/-	13.498	58	S GND PAR	1.827+/-	1.564
30	N CO/Byron	518+/-	.148	59	N Rel Hum	67.448+/-	.904
31	N 74' Temp	75.030+/-	3.205	60	S GND VER	1.183+/-	.827
32	N CO2/Byron	409.380+/-	10.518	61	N Solar Rad	140.109+/-	38.274
35	N HA 74'	9.211+/-	2.656	64	S VA 55'	-.224+/-	1.206

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.50+/- 2.26	266.3+/- 13.8	7.1+/- 11.3
02	17 19 21	7.13+/- 2.22	261.4+/- 14.3	6.4+/- 10.4
03	38 40 42	4.57+/- 2.29	266.2+/- 23.5	7.1+/- 24.2
04	41 43 45	5.21+/- 2.12	254.9+/- 26.2	5.1+/- 9.7
05	50 52 54	5.59+/- 2.12	268.4+/- 14.5	3.8+/- 16.6
06	56 58 60	2.43+/- 1.82	266.3+/- 34.9	13.0+/- 27.8

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2102 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	56.9	52	55.5	56	57.0	40	59.2	4	50.4
Cat2	76	58.6	146	57.0	150	58.9	133	59.2	87	51.7
Cat3	14	60.2	34	61.4	28	57.8	10	59.3	5	54.1
Cat4	10	62.4	17	63.1	14	60.5	12	57.0	3	48.5
Cat5	8	71.8	8	69.5	4	56.9	2	59.3	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	63.4	34	59.0	59	61.3	58	59.8	20	48.7
Cat2	197	65.6	167	61.3	158	62.2	141	61.5	56	48.8
Cat3	23	65.5	57	61.9	33	62.7	12	62.0	0	0
Cat4	13	69.1	16	65.6	24	62.9	4	65.5	2	44.5
Cat5	2	70.4	7	62.0	7	62.6	1	58.9	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	421	20.0	59.8	1311	62.4	61.4	218	10.3	62.5	115	5.5	65.3	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.152+/-	1.447	37	N VA 102'	.336+/-	1.008
12	N Dasibi CO	1.684+/-	.374	38	S BOT PER	-.058+/-	1.721
13	N TOP PAR	5.381+/-	1.682	39	N VA 74'	.156+/-	1.108
14	N Dasibi O3	.017+/-	.003	40	S BOT PAR	3.667+/-	1.855
15	N TOP VER	.588+/-	1.133	41	N GND PER	1.680+/-	1.540
16	N NOX/TECO	.206+/-	.050	42	S BOT VER	.068+/-	1.039
17	N BOT PER	1.581+/-	1.392	43	N GND PAR	3.157+/-	1.748
19	N BOT PAR	4.874+/-	1.582	45	N GND VER	.303+/-	.614
20	N ND2/TECO	.035+/-	.007	49	N Ecolyzer-1	1.088+/-	.377
21	N BOT VER	.490+/-	1.052	50	S TOP PER	.683+/-	1.441
22	N ND/TECO	.171+/-	.047	51	N Ecolyzer-2	1.197+/-	.450
23	N HA 102'	7.561+/-	1.490	52	S TOP PAR	4.431+/-	1.700
24	N THC/Byron	2.224+/-	.053	53	N Ecolyzer-3	2.134+/-	.676
25	N WV 102'	248.091+/-	14.482	54	S TOP VER	-.059+/-	.899
26	N NMHC/Byro	2.731+/-	.376	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	76.898+/-	2.008	56	S GND PER	-.495+/-	1.316



28	N CH4/Byron	1.299+/-	.050	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	235.875+/-	14.801	DEGR AZ	58	S GND PAR	1.813+/-	1.326	mph
30	N CO/Byron	1.252+/-	.363	ppm	59	N R01 Hum	69.288+/-	6.319	%
31	N 74' Temp	74.248+/-	2.301	DEGR F	60	S GND VER	1.178+/-	.744	mph
32	N CO2/Byron	431.037+/-	7.789	ppm	61	N Solar Rad	146.149+/-	67.375	W/m**2
35	N HA 74'	7.526+/-	2.576	mph	64	S VA 55'	-.339+/-	.961	mph

UVW		Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
			Vector Sum (mph)			
01	11 13 15		5.87+/- 1.52	256.6+/-	15.2	7.2+/- 13.2
02	17 19 21		5.46+/- 1.48	251.7+/-	15.8	6.0+/- 12.5
03	38 40 42		4.19+/- 1.83	265.6+/-	28.1	2.2+/- 15.0
04	41 43 45		4.01+/- 1.60	240.1+/-	26.7	5.6+/- 13.8
05	50 52 54		4.80+/- 1.68	280.7+/-	16.5	1.9+/- 15.8
06	56 58 60		2.31+/- 1.50	271.9+/-	34.6	11.2+/- 26.4

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2121 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	58.0	48	55.6	74	58.3	43	57.4	7	52.2
Cat2	86	60.3	129	58.0	168	57.8	119	59.0	102	51.8
Cat3	22	61.4	30	60.7	28	57.5	18	57.2	6	49.2
Cat4	7	63.9	26	63.4	9	56.3	6	55.1	4	48.6
Cat5	3	67.3	7	71.8	4	62.4	1	58.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	63.9	48	59.9	46	61.9	64	59.4	20	51.0
Cat2	176	65.9	173	61.7	164	62.0	147	60.6	39	47.8
Cat3	32	67.1	40	63.1	28	63.5	15	57.9	2	47.4
Cat4	10	69.9	21	64.7	20	63.8	4	61.9	0	.0
Cat5	2	64.7	11	65.8	10	64.3	1	51.3	1	30.2

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	453	21.4	59.8	1302	61.4	61.2	219	10.3	62.7	107	5.0	64.8	40	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.444+/-	2.101	37	N VA 102'	.227+/-	1.425
12	N Dasibi CO	1.098+/-	.436	38	S BOT PER	.050+/-	2.025
13	N TOP PAR	7.396+/-	1.839	39	N VA 74'	-.126+/-	1.224
14	N Dasibi O3	.023+/-	.004	40	S BOT PAR	3.729+/-	2.532
15	N TOP VER	.268+/-	1.183	41	N GND PER	.434+/-	2.240
16	N NOX/TECO	.113+/-	.080	42	S BOT VER	.437+/-	1.120
17	N BOT PER	1.171+/-	2.171	43	N GND PAR	5.052+/-	2.364
19	N BOT PAR	6.838+/-	2.099	45	N GND VER	.336+/-	.801
20	N NO2/TECO	.027+/-	.008	48	N Ecolyzer-1	.988+/-	.466
21	N BOT VER	.253+/-	1.051	50	S TOP PER	.633+/-	2.126
22	N NO/TECO	.085+/-	.055	51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	8.461+/-	1.764	52	S TOP PAR	4.679+/-	2.049
24	N THC/Byron	2.071+/-	.101	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	255.345+/-	13.509	54	S TOP VER	.458+/-	1.077
26	N NMHC/Byro	2.975+/-	.298	55	N Ecolyzer-4	1.458+/-	.641
27	N Gnd Temp	79.251+/-	2.671	56	S GND PER	-.268+/-	1.733
28	N CH4/Byron	1.270+/-	.058	57	N Ecolyzer-5	1.576+/-	1.135
29	N WV 74'	244.134+/-	15.774	58	S GND PAR	1.862+/-	1.813
30	N CO/Byron	1.272+/-	.418	59	N R01 Hum	66.634+/-	1.032
31	N 74' Temp	75.160+/-	3.044	60	S GND VER	.230+/-	.605
32	N CO2/Byron	436.411+/-	8.033	61	N Solar Rad	506.843+/-	134.514
35	N HA 74'	9.168+/-	2.489	64	S VA 55'	.278+/-	1.308

UVW		Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)
			Vector Sum (mph)			
01	11 13 15		7.80+/- 1.82	265.8+/-	15.8	2.2+/- 9.1
02	17 19 21		7.38+/- 2.04	259.1+/-	17.2	2.5+/- 9.3
03	38 40 42		4.80+/- 2.35	251.1+/-	32.3	8.7+/- 21.7
04	41 43 45		5.72+/- 2.08	262.4+/-	28.2	4.1+/- 10.1
05	50 52 54		5.33+/- 1.99	260.6+/-	23.1	6.6+/- 13.7
06	56 58 60		2.56+/- 1.82	258.1+/-	39.1	12.1+/- 28.2

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2097 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	57.9	65	55.3	73	59.6	29	59.2	8	55.6
Cat2	94	59.0	136	57.0	181	58.7	136	58.2	74	50.5
Cat3	13	65.0	35	60.0	32	56.1	12	61.2	7	49.3
Cat4	15	61.1	16	60.8	11	57.1	7	58.8	3	47.5
Cat5	7	66.8	15	66.1	0	.0	0	.0	1	47.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	65.1	49	60.5	45	60.5	45	58.9	16	46.6
Cat2	194	66.0	182	62.1	166	62.4	135	61.0	39	46.7
Cat3	11	68.8	26	62.3	33	63.0	15	57.9	2	42.6
Cat4	8	70.8	14	62.6	25	63.1	3	57.4	0	.0
Cat5	2	65.7	3	65.5	9	66.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	433	20.6	59.9	1339	63.9	60.4	186	8.9	61.4	102	4.9	65.6	37	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.294+/-	2.755	37	N VA 102'	.528+/-	1.488
12	N Dasibi CO	1.279+/-	.488	38	S BOT PER	1.397+/-	2.210
13	N TOP PAR	6.554+/-	2.186	39	N VA 74'	-.112+/-	1.561
14	N Dasibi O3	.022+/-	.005	40	S BOT PAR	2.253+/-	1.883
15	N TOP VER	.380+/-	1.312	41	N GND PER	2.533+/-	2.542
16	N NOX/TECO	.140+/-	.052	42	S BOT VER	.401+/-	1.377
17	N BOT PER	3.486+/-	2.596	43	N GND PAR	3.421+/-	2.608
19	N BDT PAR	5.809+/-	2.356	45	N GND VER	.334+/-	.995

20	N ND2/TECD	.028+/-	.008	ppm	49	N Ecolyzer-1	*****+/-*****	ppm	
21	N BDT VER	.382+/-	1.271	mph	50	S TOP PER	2.355+/-	2.332	mph
22	N ND/TECD	.112+/-	.047	ppm	51	N Ecolyzer-2	1.273+/-	.319	ppm
23	N HA 102'	10.529+/-	2.011	mph	52	S TOP PAR	3.064+/-	2.093	mph
24	N THC/Byron	2.161+/-	.115	ppm	53	N Ecolyzer-3	1.472+/-	.666	ppm
25	N WV 102'	234.903+/-	17.640	DEGR AZ	54	S TOP VER	1.185+/-	1.260	mph
26	N NMHC/Byro	2.816+/-	.094	ppm	55	N Ecolyzer-4	1.724+/-	.625	ppm
27	N Gnd Temp	78.880+/-	2.175	DEGR F	56	S GND PER	1.516+/-	1.758	mph
28	N CH4/Byron	1.327+/-	.094	ppm	57	N Ecolyzer-5	1.810+/-	1.077	ppm
29	N WV 74'	223.877+/-	16.562	DEGR AZ	58	S GND PAR	.856+/-	1.531	mph
30	N CD/Byron	.863+/-	.417	ppm	59	N Rel Hum	65.364+/-	%	
31	N 74' Temp	74.978+/-	2.313	DEGR F	60	S GND VER	2.289+/-	.762	mph
32	N CD2/Byron	429.409+/-	13.095	ppm	61	N Solar Rad	512.066+/-	24.663	W/m**2
35	N HA 74'	9.156+/-	2.756	mph	64	S VA 55'	.091+/-	-1.399	mph

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	8.01+/-	1.97	242.9+/-	20.1	3.6+/-	10.2
02	17 19 21	7.47+/-	2.04	238.3+/-	20.9	3.8+/-	10.7
03	38 40 42	3.70+/-	1.94	240.1+/-	38.5	10.4+/-	26.8
04	41 43 45	5.31+/-	2.07	231.5+/-	32.8	4.7+/-	14.5
05	50 52 54	4.51+/-	2.45	235.7+/-	29.8	8.8+/-	23.7
06	56 58 60	2.03+/-	1.72	233.4+/-	43.2	13.8+/-	35.9

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8311 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	221	57.4	236	55.5	282	57.4	144	58.7	23	53.1
Cat2	335	59.3	545	57.3	640	58.6	514	59.1	337	51.4
Cat3	60	61.4	131	60.5	117	57.6	51	58.8	26	51.2
Cat4	37	62.6	74	62.5	42	58.2	37	57.9	13	50.1
Cat5	20	69.3	33	68.2	9	60.3	5	57.9	1	47.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	187	64.6	177	60.1	222	61.4	215	59.3	76	49.1
Cat2	728	66.0	668	61.8	629	62.3	580	61.1	192	48.1
Cat3	78	67.1	157	62.4	126	63.1	57	59.1	7	47.2
Cat4	41	69.4	69	64.0	85	63.2	13	61.7	2	44.5
Cat5	9	69.1	27	64.1	30	64.9	2	55.1	1	30.2

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	1783	21.5	59.9	5168	62.2	60.9	810	9.7	62.2	413	5.0	65.4	137	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	1.288+/-	2.388	37	N VA 102'	.387+/-	1.261	mph
12	N Dasibi CO	1.302+/-	.486	38	S BDT VER	.331+/-	2.014	mph
13	N TOP PAR	6.616+/-	2.173	39	N VA 74'	.100+/-	1.296	mph
14	N Dasibi D3	.020+/-	.005	40	S BDT PAR	3.408+/-	2.280	mph
15	N TOP VER	.493+/-	1.207	41	N GND PER	1.383+/-	2.285	mph
16	N ND/TECD	.149+/-	.065	42	S BDT VER	.342+/-	1.233	mph
17	N BDT PER	1.754+/-	2.229	43	N GND PAR	4.042+/-	2.396	mph
19	N BDT PAR	6.070+/-	2.269	45	N GND VER	.342+/-	.785	ppm
20	N ND2/TECD	.030+/-	.007	49	N Ecolyzer-1	1.026+/-	.405	ppm
21	N BDT VER	.446+/-	1.115	50	S TOP PER	.921+/-	2.042	mph
22	N ND/TECD	.119+/-	.061	51	N Ecolyzer-2	1.202+/-	.430	ppm
23	N HA 102'	8.876+/-	2.101	52	S TOP PAR	4.359+/-	2.171	mph
24	N THC/Byron	2.138+/-	.107	53	N Ecolyzer-3	1.742+/-	.704	ppm
25	N WV 102'	249.315+/-	16.930	54	S TOP VER	.173+/-	1.135	mph
26	N NMHC/Byro	2.794+/-	.417	55	N Ecolyzer-4	1.843+/-	.703	ppm
27	N Gnd Temp	78.150+/-	2.660	56	S GND PER	-.170+/-	1.658	mph
28	N CH4/Byron	1.299+/-	.069	57	N Ecolyzer-5	1.655+/-	1.134	ppm
29	N WV 74'	237.087+/-	17.134	58	S GND PAR	1.589+/-	1.621	mph
30	N CD/Byron	.976+/-	.467	59	N Rel Hum	67.184+/-	3.473	%
31	N 74' Temp	74.854+/-	2.700	60	S GND VER	.220+/-	.739	mph
32	N CD2/Byron	426.559+/-	14.409	61	N Solar Rad	326.292+/-	199.970	W/m**2
35	N HA 74'	8.765+/-	2.707	64	S VA 55'	-.048+/-	1.251	mph

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	7.29+/-	2.08	258.1+/-	18.7	5.0+/-	11.3
02	17 19 21	6.85+/-	2.12	252.8+/-	19.2	4.7+/-	10.9
03	38 40 42	4.28+/-	2.14	259.1+/-	32.4	7.1+/-	22.5
04	41 43 45	5.06+/-	2.07	247.5+/-	30.4	4.8+/-	12.2
05	50 52 54	5.06+/-	2.12	257.0+/-	24.5	5.3+/-	18.0
06	56 58 60	2.33+/-	1.75	258.7+/-	39.6	12.5+/-	29.8

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2163 vehicles averaging 60.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	58.6	68	55.8	79	58.2	37	59.1	6	52.3
Cat2	99	60.4	116	57.9	178	58.9	120	58.3	81	51.2
Cat3	21	60.8	27	61.0	30	58.4	20	59.7	9	49.1
Cat4	10	66.4	19	66.7	10	60.5	10	59.3	6	55.9
Cat5	4	64.6	11	66.4	3	61.8	2	60.7	1	31.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	64.6	48	60.5	45	62.7	45	60.6	17	49.1
Cat2	190	67.7	184	62.6	156	63.3	140	62.4	73	48.5
Cat3	22	68.3	43	83.2	30	62.0	11	62.5	1	42.4
Cat4	16	68.9	15	62.6	15	64.0	9	62.8	1	35.3
Cat5	3	66.4	9	62.6	15	63.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.1	443	20.5	60.4	1347	62.3	61.3	214	9.9	63.7	111	5.1	63.3	48	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.394+/-	2.394	37	N VA 102'	.471+/-	1.421
12	N Dasibi CO	1.311+/-	.380	38	S BOT PER	.937+/-	1.941
13	N TOP PAR	7.090+/-	1.913	39	N VA 74'	-.129+/-	1.375
14	N Dasibi O3	.022+/-	.005	40	S BOT PAR	2.201+/-	1.917
15	N TOP VER	.244+/-	1.186	41	N GND PER	2.965+/-	2.314
16	N ND/TECO	.156+/-	.056	42	S BOT VER	.394+/-	1.394
17	N BOT PER	3.525+/-	2.326	43	N GND PAR	4.312+/-	2.494
19	N BOT PAR	6.234+/-	1.751	45	N GND VER	.257+/-	1.003
20	N ND2/TECO	.030+/-	.009	49	N Ecolyzer-1	.825+/-	.360
21	N BOT VER	.359+/-	1.191	50	S TOP PER	1.782+/-	1.757
22	N ND/TECO	.126+/-	.048	51	N Ecolyzer-2	1.215+/-	.308
23	N HA 102'	11.092+/-	1.989	52	S TOP PAR	2.715+/-	2.111
24	N THC/Byron	2.138+/-	.104	53	N Ecolyzer-3	1.491+/-	.584
25	N WV 102'	238.179+/-	14.331	54	S TOP VER	.315+/-	1.335
26	N NMHC/Byro	2.724+/-	.101	55	N Ecolyzer-4	1.714+/-	.636
27	N Gnd Temp	79.720+/-	2.487	56	S GND PER	.353+/-	1.538
28	N CH4/Byron	1.286+/-	.083	57	N Ecolyzer-5	1.735+/-	1.030
29	N WV 74'	226.170+/-	14.355	58	S GND PAR	.860+/-	1.398
30	N CO/Byron	.895+/-	.398	59	N Rel Hum	64.419+/-	.763
31	N 74' Temp	76.098+/-	2.839	60	S GND VER	.332+/-	.846
32	N CO2/Byron	401.889+/-	5.975	61	N Solar Rad	443.624+/-	10.953
35	N HA 74'	9.088+/-	2.805	64	S VA 55'	.168+/-	1.397

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.27+/- 2.06	244.9+/- 14.8	2.7+/- 10.3
02	17 19 21	7.58+/- 1.96	241.5+/- 15.8	3.7+/- 9.9
03	38 40 42	3.40+/- 1.92	245.0+/- 39.7	11.5+/- 28.0
04	41 43 45	5.98+/- 2.11	233.0+/- 26.2	3.6+/- 13.2
05	50 52 54	3.85+/- 2.26	238.3+/- 28.4	12.7+/- 22.2
06	56 58 60	2.04+/- 1.35	234.6+/- 47.7	20.2+/- 32.2

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2196 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	58.4	59	55.7	75	57.2	37	59.0	4	56.8
Cat2	94	60.0	126	57.7	156	58.4	124	59.3	78	50.5
Cat3	18	57.7	33	60.0	36	58.1	13	55.9	5	54.7
Cat4	13	63.4	19	61.4	12	59.0	7	58.4	6	46.5
Cat5	5	63.6	6	61.7	3	62.4	2	61.4	1	35.6

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	65.1	46	60.1	50	61.1	62	60.7	21	47.3
Cat2	203	66.4	184	61.2	162	61.5	143	61.3	70	47.8
Cat3	26	68.6	39	62.7	50	60.9	14	61.3	2	47.7
Cat4	20	68.3	29	63.0	25	60.6	2	60.7	1	39.7
Cat5	3	69.5	12	62.6	7	63.4	2	60.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	445	20.3	59.8	1340	61.0	60.8	236	10.7	61.6	134	6.1	62.4	41	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.599+/-	1.809	37	N VA 102'	.648+/-	1.188
12	N Dasibi CO	1.512+/-	.472	38	S BOT PER	.515+/-	2.197
13	N TOP PAR	5.795+/-	2.218	39	N VA 74'	.258+/-	1.276
14	N Dasibi O3	.021+/-	.004	40	S BOT PAR	3.332+/-	2.101
15	N TOP VER	.526+/-	1.144	41	N GND PER	1.694+/-	1.975
16	N ND/TECO	.171+/-	.087	42	S BOT VER	.165+/-	1.253
17	N BOT PER	2.164+/-	1.892	43	N GND PAR	3.528+/-	2.347
19	N BOT PAR	5.348+/-	2.146	45	N GND VER	.272+/-	.885
20	N ND2/TECO	.032+/-	.007	49	N Ecolyzer-1	.945+/-	.369
21	N BOT VER	.517+/-	1.097	50	S TOP PER	1.227+/-	1.704
22	N ND/TECO	.139+/-	.062	51	N Ecolyzer-2	1.362+/-	.336
23	N HA 102'	8.480+/-	1.743	52	S TOP PAR	4.348+/-	2.120
24	N THC/Byron	2.097+/-	.093	53	N Ecolyzer-3	1.970+/-	.809
25	N WV 102'	244.451+/-	15.397	54	S TOP VER	.102+/-	1.083
26	N NMHC/Byro	2.951+/-	.158	55	N Ecolyzer-4	1.890+/-	.756
27	N Gnd Temp	77.870+/-	3.326	56	S GND PER	-.057+/-	1.898
28	N CH4/Byron	1.322+/-	.055	57	N Ecolyzer-5	1.894+/-	1.089
29	N WV 74'	233.323+/-	16.432	58	S GND PAR	1.672+/-	1.602
30	N CO/Byron	.855+/-	.159	59	N Rel Hum	65.690+/-	.699
31	N 74' Temp	75.186+/-	1.751	60	S GND VER	.228+/-	.903
32	N CO2/Byron	414.753+/-	6.475	61	N Solar Rad	298.156+/-	140.698
35	N HA 74'	7.856+/-	2.587	64	S VA 55'	-.145+/-	1.155

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	6.44+/-	2.11	252.9+/-	16.6	7.0+/-	13.0
02	17	19	21	6.21+/-	2.03	246.7+/-	16.5	7.5+/-	14.1
03	38	40	42	4.29+/-	1.93	239.1+/-	33.9	5.3+/-	20.9
04	41	43	45	4.84+/-	2.00	238.9+/-	33.2	5.3+/-	16.3
05	50	52	54	5.02+/-	1.94	252.8+/-	22.0	4.7+/-	15.8
06	56	58	60	2.64+/-	1.69	261.0+/-	42.0	6.6+/-	29.8

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2156 vehicles averaging 60.2 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	57.6	56	56.1	68	58.3	38	59.3	13	54.1
Cat2	100	59.6	142	57.4	146	58.5	126	60.3	95	53.1
Cat3	17	61.4	35	60.0	34	59.3	17	61.1	4	57.5
Cat4	12	65.5	20	62.2	12	58.1	10	60.4	1	41.5
Cat5	4	61.6	5	67.1	8	58.3	4	62.9	1	52.3

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	66.7	38	61.0	69	60.4	49	60.5	26	46.6
Cat2	178	67.7	185	62.5	172	61.5	130	61.3	61	48.1
Cat3	27	69.1	44	62.2	32	61.6	14	59.3	6	45.4
Cat4	9	70.7	17	64.0	22	62.1	2	61.4	0	0
Cat5	5	70.0	9	64.4	10	66.6	1	56.0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	441	20.5	60.2	1335	61.9	61.5	228	10.6	62.7	105	4.9	63.9	47	2.2

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.747+/-	2.507	mph	37	N VA 102'	1.677+/-	1.465	mph		
12	N Dasibi CD	1.373+/-	.532	ppm	38	S BOT PER	1.767+/-	2.179	mph		
13	N TOP PAR	5.509+/-	2.070	mph	39	N VA 74'	1.469+/-	1.298	mph		
14	N Dasibi O3	.022+/-	.005	ppm	40	S BOT PAR	1.846+/-	1.937	mph		
15	N TOP VER	.436+/-	1.204	mph	41	N GND PER	1.632+/-	2.249	mph		
16	N NOX/TECO	.141+/-	.077	ppm	42	S BOT VER	1.417+/-	1.106	mph		
17	N BOT PER	1.981+/-	2.209	mph	43	N GND PAR	3.258+/-	2.467	mph		
18	N BOT PAR	5.188+/-	2.209	mph	44	N GND VER	1.238+/-	.938	ppm		
19	N NO2/TECO	.030+/-	.008	ppm	45	N Ecolyzer-1	1.125+/-	.456	ppm		
20	N BOT VER	1.284+/-	1.026	mph	46	S TOP PER	2.178+/-	2.194	mph		
21	N NO/TECO	.111+/-	.071	ppm	47	N Ecolyzer-2	1.443+/-	.390	ppm		
22	N HA 102'	7.875+/-	2.175	mph	48	S TOP PAR	3.098+/-	1.823	mph		
23	N THC/Byron	1.998+/-	.075	ppm	49	N Ecolyzer-3	1.862+/-	.740	ppm		
24	N WV 102'	240.880+/-	22.072	DEGR AZ	50	S TOP VER	1.386+/-	1.128	mph		
25	N NMHC/Byro	2.899+/-	.089	ppm	51	N Ecolyzer-4	1.854+/-	.722	ppm		
26	N Gnd Temp	80.267+/-	2.847	DEGR F	52	S GND PER	1.199+/-	1.807	mph		
27	N CH4/Byron	1.262+/-	.081	ppm	53	N Ecolyzer-5	1.836+/-	1.158	ppm		
28	N WV 74'	232.145+/-	21.797	DEGR AZ	54	S GND PAR	1.583+/-	1.429	mph		
29	N CO/Byron	.342+/-	.271	ppm	55	N Rel Hum	65.673+/-	.950	%		
30	N 74' Temp	75.838+/-	3.252	DEGR F	56	S GND VER	1.114+/-	.837	mph		
31	N CO2/Byron	407.914+/-	13.567	ppm	60	N Solar Rad	398.025+/-	27.378	W/m <sup>2</sup>		
32	N HA 74'	7.063+/-	2.589	mph	61	S VA 55'	1.497+/-	1.321	mph		
35					64						

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	6.44+/-	2.04	251.4+/-	21.9	4.5+/-	12.0
02	17 19 21	6.12+/-	2.05	247.3+/-	21.4	3.0+/-	11.4
03	38 40 42	3.59+/-	1.87	222.3+/-	37.3	12.2+/-	25.0
04	41 43 45	4.58+/-	2.09	238.9+/-	34.8	5.0+/-	15.4
05	50 52 54	4.49+/-	1.94	234.8+/-	25.9	9.8+/-	20.3
06	56 58 60	2.34+/-	1.57	213.3+/-	41.2	9.5+/-	35.6

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2243 vehicles averaging 60.3 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	57.6	62	55.2	54	57.1	31	59.6	10	49.9
Cat2	109	59.6	140	57.3	160	58.8	135	59.7	103	52.3
Cat3	22	61.8	38	59.9	35	59.5	20	57.9	13	51.3
Cat4	16	65.1	22	64.3	23	59.8	11	66.9	6	49.1
Cat5	4	65.8	7	64.1	7	62.6	4	59.2	1	71.6

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	64.9	30	59.3	45	61.4	51	58.7	18	48.6
Cat2	201	67.3	222	62.2	189	62.3	145	61.9	50	50.4
Cat3	20	67.5	35	63.7	27	61.8	26	61.2	1	51.8
Cat4	7	68.8	20	63.7	29	63.6	5	59.9	0	0
Cat5	5	71.8	9	65.6	6	65.0	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	370	16.5	60.5	1454	64.8	60.9	237	10.6	62.5	139	6.2	65.1	43	1.9

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.651+/-	2.064	mph	37	N VA 102'	1.510+/-	1.376	mph		
12	N Dasibi CD	1.636+/-	.337	ppm	38	S BOT PER	2.060+/-	1.795	mph		
13	N TOP PAR	5.166+/-	1.618	mph	39	N VA 74'	1.130+/-	1.336	mph		
14	N Dasibi O3	.021+/-	.004	ppm	40	S BOT PAR	1.985+/-	1.601	mph		
15	N TOP VER	.108+/-	1.191	mph	41	N GND PER	2.905+/-	1.784	mph		
16	N NOX/TECO	.181+/-	.046	ppm	42	S BOT VER	1.433+/-	1.073	mph		
17	N BOT PER	4.216+/-	1.948	mph	43	N GND PAR	1.911+/-	2.415	mph		
18	N BOT PAR	4.167+/-	1.764	mph	44	N GND VER	1.143+/-	.952	ppm		
19	N NO2/TECO	.027+/-	.005	ppm	45	N Ecolyzer-1	.723+/-	1.013	ppm		
20	N BOT VER	.148+/-	1.075	mph	46	S TOP PER	2.595+/-	1.968	mph		
21	N NO/TECO	.154+/-	.043	ppm	47	N Ecolyzer-2	1.175+/-	2.751	ppm		
22	N HA 102'	10.296+/-	1.803	mph	48	S TOP PAR	3.190+/-	1.604	ppm		
23	N THC/Byron	2.083+/-	.066	ppm	49	N Ecolyzer-3	1.545+/-	.957	ppm		
24	N WV 102'	225.798+/-	11.764	DEGR AZ	50	S TOP VER	1.380+/-	1.104	ppm		
25	N NMHC/Byro	2.418+/-	.416	ppm	51	N Ecolyzer-4	1.864+/-	.899	ppm		
26	N Gnd Temp	79.485+/-	2.319	DEGR F	52	S GND PER	1.140+/-	1.604	mph		
27	N CH4/Byron	1.269+/-	.089	ppm	53	N Ecolyzer-5	2.057+/-	2.218	ppm		
28	N WV 74'	211.371+/-	13.678	DEGR AZ	54	S GND PAR	1.759+/-	1.246	mph		
29	N CO/Byron	.840+/-	.485	ppm	55	N Rel Hum	65.983+/-	.519	%		
30					58						

31	N 74' Temp	74.952+/-	2.541	DEGR F	60	S GND VER	.312+/-	.740	mph
32	N C02/Byron	413.125+/-	16.330	ppm	61	N Solar Rad	295.749+/-	19.315	W/m**2
35	N HA 74'	7.622+/-	2.371	mph	64	S VA 55'	.218+/-	1.178	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	7.30+/- 1.84	229.3+/- 15.1	2.5+/- 11.2			
02	17	19	21	6.29+/- 1.89	225.3+/- 17.4	3.5+/- 13.5			
03	38	40	42	3.58+/- 1.55	222.7+/- 30.4	9.4+/- 23.9			
04	41	43	45	4.34+/- 1.76	209.3+/- 33.4	3.6+/- 15.7			
05	50	52	54	4.62+/- 1.83	233.0+/- 21.1	9.1+/- 20.4			
06	56	58	60	2.21+/- 1.33	222.3+/- 41.2	13.7+/- 28.2			

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8758 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	198	58.1	245	55.7	276	57.7	143	59.2	33	52.8
Cat2	402	59.9	524	57.6	640	56.6	505	59.6	367	51.8
Cat3	78	60.5	133	60.2	135	58.8	70	58.8	31	52.0
Cat4	51	65.0	80	63.7	57	59.4	38	59.3	19	50.0
Cat5	17	63.9	29	65.0	21	60.8	12	61.0	4	47.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	145	65.3	163	60.3	209	61.3	207	60.1	80	47.8
Cat2	772	67.3	775	62.1	679	62.1	558	61.7	254	48.6
Cat3	95	68.4	161	62.9	139	61.5	65	61.0	8	46.4
Cat4	52	68.1	81	63.3	91	62.5	18	61.6	2	37.5
Cat5	16	69.8	39	63.7	38	64.4	3	58.9	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	1699	19.4	60.2	5476	62.5	61.1	915	10.4	62.6	489	5.6	63.7	179	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.848+/- 2.540	mph	37	N VA 102'	.576+/- 1.366	mph
12	N Desibi CO	1.458+/- .454	ppm	38	S BOT PER	1.320+/- 2.124	mph
13	N TOP PAR	5.890+/- 2.094	mph	39	N VA 74'	.117+/- 1.365	mph
14	N Desibi D3	.022+/- .008	ppm	40	S BOT PAR	2.341+/- 1.983	mph
15	N TOP VER	.329+/- 1.190	mph	41	N GND PER	2.299+/- 2.178	mph
16	N NOX/TECO	.162+/- .064	ppm	42	S BOT VER	.326+/- 1.215	mph
17	N BOT PER	2.971+/- 2.296	mph	43	N GND PAR	3.252+/- 2.576	mph
19	N BOT PAR	5.233+/- 2.105	mph	45	N GND VER	.227+/- .940	ppm
20	N NO2/TECO	.029+/- .008	ppm	49	N Ecolyzer-1	.904+/- .630	ppm
21	N BOT VER	.327+/- 1.105	mph	50	S TOP PER	1.945+/- 1.977	mph
22	N NO/TECO	.132+/- .059	ppm	51	N Ecolyzer-2	1.299+/- 1.411	ppm
23	N HA 102'	9.461+/- 2.316	mph	52	S TOP PAR	3.336+/- 2.018	mph
24	N THC/Byron	2.079+/- .098	ppm	53	N Ecolyzer-3	1.717+/- .809	ppm
25	N WV 102'	237.258+/- 17.683	DEGR A2	54	S TOP VER	.285+/- 1.170	ppm
26	N WMHC/Byro	2.748+/- .309	ppm	55	N Ecolyzer-4	1.831+/- .707	ppm
27	N Gnd Temp	79.336+/- 2.848	DEGR F	56	S GND PER	.659+/- 1.795	mph
28	N CH4/Byron	1.285+/- .075	ppm	57	N Ecolyzer-5	1.880+/- 1.462	ppm
29	N WV 74'	225.677+/- 18.806	DEGR A2	58	S GND PAR	.971+/- 1.481	mph
30	N CO/Byron	.758+/- .423	ppm	59	N Rel Hum	65.441+/- .951	%
31	N 74' Temp	75.519+/- 2.628	DEGR F	60	S GND VER	.246+/- .862	mph
32	N C02/Byron	409.420+/- 12.290	ppm	61	N Solar Rad	359.139+/- 95.804	W/m**2
35	N HA 74'	7.907+/- 2.691	mph	64	S VA 55'	.184+/- 1.284	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	7.11+/- 2.15	244.6+/- 19.5	4.2+/- 11.8			
02	17	19	21	6.55+/- 2.08	240.2+/- 19.8	4.4+/- 12.5			
03	38	40	42	3.72+/- 1.85	237.0+/- 37.5	9.6+/- 24.7			
04	41	43	45	4.88+/- 2.09	230.1+/- 33.5	4.4+/- 15.0			
05	50	52	54	4.49+/- 2.04	239.6+/- 25.0	9.0+/- 22.1			
06	56	58	60	2.31+/- 1.51	232.3+/- 44.7	13.0+/- 31.8			

15:30:46 -- BEGIN RECAL. NCD-5 GRO  
 15:40:45 -- END CAL. NCD-5  
 15:40:53 -- BEGIN CAL. NCD-4  
 15:50:49 -- END CAL. NCD-4 GRO

Average for 15 minute period ending at 15:15:00  
Traffic Data  
 Total Traffic = 2290 vehicles averaging 60.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.4	68	55.7	75	58.2	39	60.7	5	50.0
Cat2	105	59.9	131	57.6	168	59.0	117	60.2	98	52.3
Cat3	21	59.9	38	61.8	27	59.5	17	60.1	15	46.9
Cat4	11	64.9	16	61.8	14	58.3	8	59.2	5	45.1
Cat5	4	65.3	7	65.4	3	56.7	2	62.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	65.9	41	59.2	51	61.4	52	60.7	23	48.9
Cat2	201	67.8	202	61.9	198	62.4	144	61.4	68	49.7
Cat3	18	67.2	42	62.5	33	63.9	9	61.7	2	50.7
Cat4	17	69.0	31	64.2	26	62.0	8	58.0	2	45.1
Cat5	7	67.4	15	65.8	12	63.9	4	72.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.0	444	19.4	60.5	1432	62.5	61.0	222	9.7	61.9	138	6.0	65.3	54	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.292+/-	1.912	37	N VA 102'	.415+/-	1.402
12	N Dasibi CO	1.395+/-	.342	38	S BOT PER	1.975+/-	1.808
13	N TOP PAR	5.664+/-	1.599	39	N VA 74'	-.213+/-	1.189
14	N Dasibi O3	.022+/-	.004	40	S BOT PAR	1.706+/-	1.488
15	N TOP VER	.138+/-	1.048	41	N GND PER	2.980+/-	1.915
16	N NOX/TECO	.163+/-	.048	42	S BOT VER	.298+/-	1.016
17	N BOT PER	4.655+/-	2.053	43	N GND PAR	2.496+/-	2.219
18	N BOT PAR	4.896+/-	1.653	45	N GND VER	.091+/-	1.103
19	N NO2/TECO	.027+/-	.007	49	N Ecolyzer-1	.794+/-	.236
20	N BOT VER	.104+/-	.911	50	S TOP PER	2.360+/-	1.822
21	N NO/TECO	.135+/-	.044	51	N Ecolyzer-2	1.093+/-	.257
22	N HA 102'	9.804+/-	2.101	52	S TOP PAR	3.334+/-	1.807
23	N THC/Byron	2.070+/-	.048	53	N Ecolyzer-3	1.307+/-	.436
24	N WV 102'	228.762+/-	12.993	54	S TOP VER	.184+/-	1.129
25	N NMHC/Byro	2.996+/-	.137	55	N Ecolyzer-4	1.478+/-	.447
26	N Gnd Temp	78.782+/-	1.830	56	S GND PER	.863+/-	1.346
27	N CH4/Byron	1.339+/-	.078	57	N Ecolyzer-5	1.817+/-	1.115
28	N WV 74'	218.589+/-	12.152	58	S GND PAR	.843+/-	1.169
29	N CO/Byron	.892+/-	.289	59	N Rel Hum	65.576+/-	.701
30	N 74' Temp	74.551+/-	2.254	60	S GND VER	.105+/-	.838
31	N CO2/Byron	409.542+/-	10.793	61	N Solar Rad	277.992+/-	24.687
32	N HA 74'	7.406+/-	2.260	64	S VA 55'	-.037+/-	1.190

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.38+/- 1.93	233.1+/- 13.3	1.9+/- 9.3
02	17 19 21	7.02+/- 2.02	226.6+/- 15.7	2.1+/- 9.0
03	38 40 42	3.26+/- 1.66	224.3+/- 35.2	11.6+/- 24.4
04	41 43 45	4.63+/- 1.85	218.7+/- 29.3	3.7+/- 17.1
05	50 52 54	4.52+/- 2.04	237.4+/- 21.5	7.5+/- 22.0
06	56 58 60	1.86+/- 1.35	226.1+/- 39.9	9.9+/- 30.7

Average for 15 minute period ending at 15:30:00  
Traffic Data  
 Total Traffic = 2394 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	58.0	70	55.8	38	56.7	43	59.3	6	52.1
Cat2	95	60.4	130	58.0	155	58.4	150	59.7	109	52.7
Cat3	21	63.1	37	59.5	38	58.3	16	58.9	8	51.3
Cat4	20	66.0	28	63.6	23	59.4	9	64.5	3	46.6
Cat5	8	67.0	6	65.4	8	58.3	4	61.6	1	47.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	64.2	58	60.5	62	60.9	64	58.8	31	49.3
Cat2	209	66.9	200	62.2	186	60.9	139	61.1	73	50.4
Cat3	14	68.5	50	62.9	41	62.8	21	61.7	6	46.2
Cat4	14	68.9	21	63.7	36	62.9	4	56.9	1	49.5
Cat5	6	66.0	7	62.1	10	59.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	479	20.0	60.1	1456	60.8	61.0	250	10.4	62.9	159	6.6	62.6	50	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.699+/-	1.565	37	N VA 102'	.231+/-	1.059
12	N Dasibi CO	1.539+/-	.398	38	S BOT PER	.062+/-	1.997
13	N TOP PAR	6.554+/-	2.044	39	N VA 74'	-.184+/-	1.030
14	N Dasibi O3	.019+/-	.004	40	S BOT PAR	3.117+/-	2.293
15	N TOP VER	.247+/-	.901	41	N GND PER	1.532+/-	1.937
16	N NOX/TECO	.168+/-	.059	42	S BOT VER	.298+/-	1.966
17	N BOT PER	2.191+/-	1.478	43	N GND PAR	3.571+/-	2.254
18	N BOT PAR	5.791+/-	2.045	45	N GND VER	.240+/-	.719
19	N NO2/TECO	.028+/-	.006	49	N Ecolyzer-1	.970+/-	.456
20	N BOT VER	.175+/-	.824	50	S TOP PER	.863+/-	1.693
21	N NO/TECO	.139+/-	.056	51	N Ecolyzer-2	1.326+/-	.388
22	N HA 102'	8.720+/-	1.504	52	S TOP PAR	4.035+/-	2.218
23	N THC/Byron	2.169+/-	.153	53	N Ecolyzer-3	1.859+/-	.734
24	N WV 102'	247.849+/-	10.473	54	S TOP VER	.327+/-	1.116
25	N NMHC/Byro	2.835+/-	.240	55	N Ecolyzer-4	2.018+/-	.730
26	N Gnd Temp	78.600+/-	2.335	56	S GND PER	-.287+/-	1.599
27	N CH4/Byron	1.288+/-	.074	57	N Ecolyzer-5	2.312+/-	1.276
28	N WV 74'	233.516+/-	11.597	58	S GND PAR	1.516+/-	1.584
29	N CO/Byron	.935+/-	.178	59	N Rel Hum	65.624+/-	1.992
30	N 74' Temp	75.603+/-	2.401	60	S GND VER	.215+/-	.741
31	N CO2/Byron	430.874+/-	10.271	61	N Solar Rad	216.680+/-	26.696
32	N HA 74'	8.640+/-	2.620	64	S VA 55'	.101+/-	1.337

UVW		Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)	
			Vector Sum (mph)				
01	11 13 15		7.05+/- 1.92		254.1+/- 13.6	2.6+/-	8.7
02	17 19 21		5.50+/- 1.77		247.4+/- 15.6	2.3+/-	9.0
03	38 40 42		3.89+/- 2.19		263.1+/- 35.0	9.0+/-	21.0
04	41 43 45		4.58+/- 1.86		244.0+/- 30.5	5.0+/-	12.1
05	50 52 54		4.63+/- 2.11		259.0+/- 23.7	9.5+/-	21.5
06	56 58 60		2.22+/- 1.76		260.7+/- 40.6	11.9+/-	29.1

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2588 vehicles averaging 60.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	58.0	65	55.6	66	56.3	44	60.4	7	51.5
Cat2	130	60.4	168	58.2	175	59.5	159	60.5	108	52.8
Cat3	16	62.1	40	61.2	41	59.4	22	60.9	15	53.3
Cat4	13	64.6	22	63.4	16	59.7	7	62.1	4	54.4
Cat5	7	66.0	7	65.6	3	60.9	3	67.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	66.5	44	60.2	61	60.8	59	56.8	18	47.5
Cat2	184	68.5	231	61.5	241	61.2	176	59.9	78	49.2
Cat3	15	68.9	48	61.0	54	60.5	18	59.0	3	45.3
Cat4	15	71.1	30	62.9	26	61.9	6	60.9	0	0
Cat5	4	70.6	14	62.3	12	64.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	477	18.4	60.2	1650	63.8	60.5	272	10.5	63.1	139	5.4	64.7	50	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.195+/-	1.320	37	N VA 102'	.411+/-	1.133
12	N Dasibi CO	1.525+/-	.473	38	S BOT PER	.594+/-	1.258
13	N TOP PAR	5.510+/-	2.133	39	N VA 74'	.481+/-	.981
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	1.524+/-	1.427
15	N TOP VER	.684+/-	.951	41	N GND PER	.896+/-	1.731
16	N NOX/TECO	.160+/-	.077	42	S BOT VER	.300+/-	.863
17	N BOT PER	.763+/-	1.220	43	N GND PAR	2.944+/-	2.376
18	N BOT PAR	4.921+/-	2.477	45	N GND VER	.232+/-	.827
20	N NO2/TECO	.031+/-	.006	49	N Ecolyzer-1	1.625+/-	.494
21	N BOT VER	.611+/-	.958	50	S TOP PER	.653+/-	1.084
22	N NO/TECO	.129+/-	.073	51	N Ecolyzer-2	1.654+/-	.334
23	N HA 102'	7.538+/-	1.761	52	S TOP PAR	2.481+/-	1.478
24	N THC/Byron	2.063+/-	.063	53	N Ecolyzer-3	2.354+/-	.867
25	N WV 102'	255.575+/-	15.965	54	S TOP VER	.180+/-	.808
26	N NMHC/Byro	2.631+/-	.260	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	78.652+/-	2.691	56	S GND PER	.256+/-	.923
28	N CH4/Byron	1.278+/-	.069	57	N Ecolyzer-5	*****+/-*****	
30	N WV 74'	244.769+/-	16.318	58	S GND PAR	.639+/-	.800
31	N CO/Byron	.576+/-	.248	59	N Re1 Hum	85.103+/-	.651
31	N 74' Temp	75.603+/-	3.631	60	S GND VER	1.109+/-	.462
32	N CO2/Byron	412.148+/-	14.552	61	N Solar Rad	179.802+/-	20.707
35	N HA 74'	7.586+/-	2.934	64	S VA 55'	.084+/-	.971

UVW		Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)	
			Vector Sum (mph)				
01	11 13 15		5.84+/- 1.98		265.6+/- 15.7	8.2+/-	12.9
02	17 19 21		5.39+/- 2.14		255.7+/- 21.6	9.3+/-	15.9
03	38 40 42		2.24+/- 1.45		240.7+/- 35.6	11.6+/-	28.1
04	41 43 45		3.99+/- 1.71		249.3+/- 37.2	4.4+/-	16.0
05	50 52 54		2.80+/- 1.50		256.1+/- 21.9	7.6+/-	19.0
06	56 58 60		1.13+/- .96		238.5+/- 36.4	13.3+/-	32.2

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2653 vehicles averaging 59.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	58.1	75	56.2	77	58.9	53	59.5	10	50.3
Cat2	116	59.6	159	57.8	175	59.9	147	60.6	119	51.0
Cat3	14	63.8	41	61.8	26	60.2	9	59.8	14	49.3
Cat4	14	65.1	23	64.1	10	60.2	5	61.7	8	48.8
Cat5	9	71.9	6	65.6	5	63.9	2	70.5	1	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	63.5	37	58.3	51	59.2	55	58.3	31	46.6
Cat2	217	66.5	245	60.3	221	60.1	164	60.4	106	46.7
Cat3	18	68.3	64	60.8	50	60.3	18	59.4	2	46.7
Cat4	18	67.8	27	60.8	40	60.8	7	60.8	3	48.6
Cat5	7	69.9	18	62.8	20	63.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	507	19.1	59.3	1869	62.9	60.6	254	9.6	61.6	195	7.3	66.2	68	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.770+/-	1.473	37	N VA 102'	.313+/-	1.081
12	N Dasibi CO	2.230+/-	.686	38	S BOT PER	1.055+/-	1.356
13	N TOP PAR	4.124+/-	1.348	39	N VA 74'	.067+/-	.770
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	1.586+/-	1.497
15	N TOP VER	.132+/-	.700	41	N GND PER	1.992+/-	1.419
16	N NOX/TECO	.217+/-	.075	42	S BOT VER	.223+/-	.764
17	N BOT PER	3.117+/-	1.481	43	N GND PAR	1.342+/-	1.878
18	N BOT PAR	3.449+/-	1.251	45	N GND VER	.223+/-	.793
20	N NO2/TECO	.032+/-	.006	49	N Ecolyzer-1	1.108+/-	.316
21	N BOT VER	.131+/-	.759	50	S TOP PER	1.238+/-	1.400
22	N NO/TECO	.185+/-	.072	51	N Ecolyzer-2	1.483+/-	1.782
23	N HA 102'	6.818+/-	1.534	52	S TOP PAR	2.836+/-	1.447
24	N THC/Byron	2.233+/-	.123	53	N Ecolyzer-3	1.953+/-	.948
25	N WV 102'	231.956+/-	11.801	54	S TOP VER	.205+/-	.882
26	N NMHC/Byro	2.759+/-	.327	55	N Ecolyzer-4	*****+/-*****	

27	N Gnd Temp	78.235+/-	1.885	DEGR F	56	S GND PER	.324+/-	.956	mph
28	N CH4/Byron	1.234+/-	.068	ppm	57	N Ecolyzer-5	2.788+/-	1.360	ppm
29	N WV 74'	219.335+/-	12.990	DEGR A2	58	S GND PAR	.897+/-	1.023	mph
30	N CO/Byron	1.273+/-	.848	ppm	59	N Rel Hum	64.061+/-	.669	%
31	N 74' Temp	76.359+/-	1.800	DEGR F	60	S GND VER	.141+/-	.575	mph
32	N CO2/Byron	414.102+/-	18.183	ppm	61	N Solar Rad	89.105+/-	24.732	W/m <sup>2</sup>
35	N HA 74'	5.600+/-	2.359	mph	64	S VA 55'	.077+/-	1.038	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg A2	Elevation Angle (Deg)
01	11 13 15	5.22+/-	1.39	236.5+/-	15.6	1.9+/- 8.2
02	17 19 21	4.92+/-	1.32	228.8+/-	16.9	2.2+/- 9.8
03	38 40 42	2.52+/-	1.41	227.9+/-	35.4	11.5+/- 24.8
04	41 43 45	3.18+/-	1.36	210.4+/-	38.0	6.5+/- 18.1
05	50 52 54	3.49+/-	1.49	248.1+/-	21.7	8.0+/- 21.0
06	56 58 60	1.46+/-	1.05	235.9+/-	38.5	15.6+/- 30.0

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 9925 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	261	58.1	278	55.8	276	58.2	179	59.9	28	50.9
Cat2	446	60.1	588	57.9	683	59.2	573	60.3	434	52.1
Cat3	72	62.1	156	61.1	132	59.3	64	60.0	52	50.1
Cat4	58	65.2	89	63.3	63	59.4	29	62.0	20	48.6
Cat5	28	68.1	26	65.5	19	59.9	11	65.0	2	80.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	147	65.0	180	59.7	225	60.6	230	59.1	103	48.1
Cat2	811	67.4	878	61.4	846	61.1	623	60.7	325	48.7
Cat3	63	68.2	204	61.7	178	61.6	86	60.4	11	48.9
Cat4	54	68.7	109	62.9	128	61.9	25	59.3	6	47.6
Cat5	24	68.8	54	63.4	54	63.2	4	72.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	1907	19.2	60.0	6207	62.5	60.7	998	10.1	62.4	591	6.0	64.8	222	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	2.239+/-	2.177	37	N VA 102'	.343+/-	1.177	mph
12	N Das1b1 CO	1.872+/-	.591	38	S BOT PER	.922+/-	1.776	mph
13	N TOP PAR	5.463+/-	2.025	39	N VA 74'	.038+/-	1.060	mph
14	N Das1b1 O3	.019+/-	.004	40	S BOT PAR	1.983+/-	1.834	mph
15	N TOP VER	.300+/-	.935	41	N GND PER	1.850+/-	1.917	mph
16	N NOX/TECO	.177+/-	.070	42	S BOT VER	.280+/-	.906	mph
17	N BOT PER	2.681+/-	2.124	43	N GND PAR	2.588+/-	2.332	mph
19	N BOT PAR	4.764+/-	2.085	45	N GND VER	.187+/-	.673	mph
20	N NO2/TECO	.029+/-	.005	49	N Ecolyzer-1	1.124+/-	.498	ppm
21	N BOT VER	.255+/-	.889	50	S TOP PER	1.236+/-	1.672	mph
22	N NO/TECO	.147+/-	.066	51	N Ecolyzer-2	1.389+/-	.958	ppm
23	N HA 102'	8.220+/-	2.078	52	S TOP PAR	3.171+/-	1.856	mph
24	N THC/Byron	2.134+/-	.126	53	N Ecolyzer-3	1.871+/-	.858	ppm
25	N WV 102'	240.980+/-	16.782	54	S TOP VER	.224+/-	.994	mph
26	N NMHC/Byro	2.805+/-	.278	55	N Ecolyzer-4	1.971+/-	.784	ppm
27	N Gnd Temp	78.567+/-	2.185	56	S GND PER	.289+/-	1.301	mph
28	N CH4/Byron	1.285+/-	.080	57	N Ecolyzer-5	2.324+/-	1.274	ppm
29	N WV 74'	228.962+/-	16.956	58	S GND PAR	.974+/-	1.217	mph
30	N CO/Byron	.919+/-	.524	59	N Rel Hum	65.091+/-	1.292	%
31	N 74' Temp	75.532+/-	2.624	60	S GND VER	.143+/-	.669	mph
32	N CO2/Byron	416.667+/-	15.891	61	N Solar Rad	190.895+/-	72.964	W/m <sup>2</sup>
35	N HA 74'	7.309+/-	2.776	64	S VA 55'	.056+/-	1.142	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg A2	Elevation Angle (Deg)
01	11 13 15	6.37+/-	2.02	247.3+/-	19.2	3.6+/- 10.3
02	17 19 21	5.98+/-	2.02	239.7+/-	21.2	4.0+/- 11.7
03	38 40 42	2.98+/-	1.82	238.9+/-	37.2	10.9+/- 24.7
04	41 43 45	4.10+/-	1.80	230.7+/-	36.4	4.9+/- 16.0
05	50 52 54	3.88+/-	1.94	250.1+/-	23.5	8.1+/- 20.9
06	56 58 60	1.67+/-	1.38	240.3+/-	39.4	12.7+/- 30.5



16:01:41 -- BEGIN RECAL. NCO-3 GRD  
 16:11:08 -- END CAL. NCO-3  
 16:11:20 -- BEGIN CAL. NCO-2 GRD  
 16:20:52 -- END CAL. NCO-2 GRD  
 16:21:03 -- BEGIN CAL. NCO-1  
 16:36:15 -- END CAL. NCO-1 GRD

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2606 Vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	57.3	79	55.3	51	58.3	45	58.9	10	52.6
Cat2	127	59.7	159	57.9	184	59.5	137	60.4	131	51.8
Cat3	15	63.4	34	59.9	43	59.1	12	58.7	10	53.2
Cat4	12	62.6	23	63.6	16	60.5	8	64.3	2	42.9
Cat5	6	65.8	8	64.7	8	58.8	4	61.6	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	64.0	45	58.6	62	59.6	67	58.9	29	47.0
Cat2	207	65.8	228	60.6	237	60.0	176	59.7	94	48.2
Cat3	18	66.6	43	60.7	43	59.3	12	59.5	5	49.1
Cat4	12	69.1	31	62.3	28	62.1	7	62.5	1	66.5
Cat5	5	68.5	13	63.1	14	59.4	1	49.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	492	18.9	59.2	1680	64.5	59.9	235	9.0	62.7	140	5.4	62.4	59	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.750+/-	1.514	37	N VA 102'	.344+/-	.998
12	N Dasibi CO	2.157+/-	.575	38	S BOT PER	.608+/-	1.336
13	N TOP PAR	4.130+/-	1.231	39	N VA 74'	.171+/-	.798
14	N Dasibi O3	.015+/-	.003	40	S BOT PAR	1.028+/-	1.366
15	N TOP VER	.245+/-	.780	41	N GND PER	1.813+/-	1.590
16	N NOX/TECO	.206+/-	.061	42	S BOT VER	.453+/-	.580
17	N BOT PER	1.871+/-	1.462	43	N GND PAR	1.578+/-	1.741
18	N BOT PAR	3.461+/-	1.268	44	N GND VER	.174+/-	.649
19	N NO2/TECO	.032+/-	.006	45	N EcoLyzr-1	1.287+/-	.453
20	N BOT VER	.223+/-	.744	46	S TOP PER	.771+/-	1.250
21	N NO/TECO	.174+/-	.060	47	N EcoLyzr-2	*****	*****
22	N HA 102'	5.969+/-	1.212	48	S TOP PAR	1.983+/-	1.492
23	N THC/Byron	2.055+/-	.140	49	N EcoLyzr-3	*****	*****
24	N WV 102'	238.333+/-	14.240	50	S TOP VER	.533+/-	.675
25	N MMHC/Byro	3.275+/-	.532	51	N EcoLyzr-4	2.489+/-	.723
26	N Gnd Temp	77.922+/-	1.995	52	S GND PER	2.293+/-	.862
27	N CH4/Byron	1.286+/-	.051	53	N EcoLyzr-5	2.551+/-	.988
28	N WV 74'	227.024+/-	15.183	54	S GND PAR	4.439+/-	.825
29	N CO/Byron	1.252+/-	.622	55	N Rel Hum	64.928+/-	.973
30	N 74' Temp	75.681+/-	2.818	56	S GND VER	2.300+/-	.374
31	N CO2/Byron	436.874+/-	13.231	57	N Solar Rad	58.541+/-	7.040
32	N HA 74'	5.632+/-	2.351	58	S VA 55'	.360+/-	.754
33				59			
34				60			
35				61			
				62			
				63			
				64			

UVW vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.81+/- 1.22	247.9+/- 18.2	3.6+/- 10.8
02	17 19 21	4.24+/- 1.35	242.4+/- 18.2	4.2+/- 12.2
03	38 40 42	1.98+/- 1.30	229.0+/- 43.0	18.3+/- 23.0
04	41 43 45	3.09+/- 1.48	218.2+/- 37.4	4.9+/- 15.3
05	50 52 54	2.85+/- 1.44	247.3+/- 27.0	20.5+/- 25.8
06	56 58 60	.98+/- .99	223.0+/- 35.7	25.9+/- 25.3

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2711 Vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	56.3	98	54.5	30	57.2	47	57.9	11	52.4
Cat2	121	58.8	181	56.6	208	57.4	147	59.1	152	51.6
Cat3	27	61.5	36	61.8	61	57.9	24	60.0	19	52.4
Cat4	19	61.8	23	63.2	31	58.4	12	61.3	4	51.6
Cat5	3	55.6	10	64.7	6	60.0	3	68.7	1	44.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	65.0	57	59.0	54	58.8	55	57.0	25	47.4
Cat2	194	66.0	262	59.4	209	59.2	155	58.7	102	46.3
Cat3	13	66.6	41	60.6	31	58.6	12	58.2	3	44.3
Cat4	9	67.8	24	61.2	29	60.8	2	63.1	2	42.0
Cat5	4	71.0	11	58.9	21	61.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	499	18.4	58.0	1731	63.9	59.3	267	9.8	60.9	155	5.7	61.9	59	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.430+/-	1.001	37	N VA 102'	.342+/-	.962
12	N Dasibi CO	2.318+/-	.636	38	S BOT PER	.359+/-	.921
13	N TOP PAR	3.265+/-	1.184	39	N VA 74'	.207+/-	.663
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	.870+/-	1.235
15	N TOP VER	.273+/-	.720	41	N GND PER	1.722+/-	1.532
16	N NOX/TECO	.241+/-	.082	42	S BOT VER	.234+/-	.273
17	N BOT PER	1.889+/-	1.161	43	N GND PAR	1.475+/-	1.645
18	N BOT PAR	2.794+/-	1.355	44	N GND VER	.170+/-	.724
19	N NO2/TECO	.035+/-	.006	45	N EcoLyzr-1	*****	*****
20	N BOT VER	.260+/-	.833	46	S TOP PER	.328+/-	.680
21	N NO/TECO	.206+/-	.080	47	N EcoLyzr-2	*****	*****
22	N HA 102'	5.087+/-	1.047	48	S TOP PAR	1.751+/-	1.098
23	N THC/Byron	2.260+/-	.052	49	N EcoLyzr-3	2.449+/-	1.101
24	N WV 102'	240.840+/-	13.228	50	S TOP VER	.333+/-	.546
25	N MMHC/Byro	2.876+/-	.260	51	N EcoLyzr-4	2.893+/-	.824
26	N Gnd Temp	78.285+/-	2.775	52	S GND PER	.076+/-	.544
27	N CH4/Byron	1.321+/-	.081	53	N EcoLyzr-5	3.102+/-	1.285
28	N WV 74'	227.356+/-	14.209	54	S GND PAR	3.400+/-	.575
29	N CO/Byron	1.202+/-	.658	55	N Rel Hum	67.155+/-	.289
30	N 74' Temp	73.910+/-	3.030	56	S GND VER	1.176+/-	.296
31	N CO2/Byron	400.586+/-	8.410	57	N Solar Rad	47.233+/-	2.659
32				58			
				59			
				60			
				61			
				62			
				63			
				64			

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.80+/- 1.13	245.9+/- 15.9	5.2+/- 13.4
02	17 19 21	3.59+/- 1.27	237.9+/- 20.9	5.9+/- 17.7
03	38 40 42	1.39+/- 1.21	225.1+/- 39.7	18.4+/- 19.0
04	41 43 45	2.67+/- 1.28	201.0+/- 41.6	6.5+/- 20.2
05	50 52 54	2.02+/- 1.08	257.1+/- 17.0	15.5+/- 22.1
06	56 58 60	.61+/- .70	228.5+/- 31.4	25.3+/- 27.3

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2618 Vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	57.8	87	55.1	12	57.4	50	58.7	12	51.5
Cat2	119	59.7	176	57.7	202	58.4	140	60.5	112	51.7
Cat3	19	60.2	26	62.2	50	58.5	15	60.0	13	51.1
Cat4	18	62.7	25	64.2	28	59.3	7	61.7	4	51.7
Cat5	8	66.1	12	63.2	7	62.4	2	64.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	63.0	53	59.1	70	59.1	50	57.7	41	46.8
Cat2	171	64.7	236	59.3	227	59.8	176	59.0	99	47.2
Cat3	9	65.1	40	60.9	31	61.6	12	60.4	4	50.5
Cat4	15	66.1	24	61.0	31	61.9	4	56.2	1	48.4
Cat5	1	63.6	21	60.9	16	63.1	1	64.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	516	19.7	58.5	1658	63.3	59.9	219	8.4	61.7	157	6.0	62.8	68	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.910+/- .593	mph	37	N VA 102'	.260+/- .957	mph
12	N Dasibi CO	2.623+/- .657	ppm	38	S BDT PER	.598+/- .673	mph
13	N TOP PAR	2.788+/- 1.411	mph	39	N VA 74'	.162+/- .693	mph
14	N Dasibi O3	.014+/- .002	ppm	40	S BDT PAR	.519+/- .733	mph
15	N TDP VER	.385+/- .769	mph	41	N GND PER	1.288+/- 1.364	mph
16	N NOX/TECO	.254+/- .074	ppm	42	S BDT VER	.104+/- .363	mph
17	N BDT PER	1.212+/- 1.081	mph	43	N GND PAR	.565+/- 1.641	mph
19	N BDT PAR	2.283+/- 1.564	mph	45	N GND VER	.245+/- .641	mph
20	N ND2/TECO	.035+/- .006	ppm	49	N Ecolyzer-1	*****	ppm
21	N BDT VER	.416+/- .835	mph	50	S TOP PER	.260+/- .401	mph
22	N ND/TECO	.218+/- .074	ppm	51	N Ecolyzer-2	1.791+/- .779	ppm
23	N HA 102'	4.777+/- 1.077	mph	52	S TOP PAR	1.669+/- .928	mph
24	N THC/Byron	2.810+/- .163	ppm	53	N Ecolyzer-3	3.091+/- 1.178	ppm
25	N WV 102'	246.729+/- 13.484	DEGR AZ	54	S TOP VER	.110+/- .384	ppm
26	N NMHC/Byro	3.087+/- .260	ppm	55	N Ecolyzer-4	3.545+/- 1.014	ppm
27	N Gnd Temp	77.610+/- 2.091	DEGR F	56	S GND PER	.135+/- .162	mph
28	N CH4/Byron	1.260+/- .074	ppm	57	N Ecolyzer-5	3.097+/- 1.381	ppm
29	N WV 74'	231.444+/- 18.023	DEGR AZ	58	S GND PAR	1.73+/- .231	mph
30	N CO/Byron	1.847+/- .792	ppm	59	N Rel Hum	66.455+/- .580	%
31	N 74' Temp	74.770+/- 3.888	DEGR F	60	S GND VER	.099+/- .211	mph
32	N CO2/Byron	447.973+/- 19.945	ppm	61	N Solar Rad	44.508+/- 3.461	W/m^2=2
35	N HA 74'	4.551+/- 2.333	mph	64	S VA 55'	.073+/- .429	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.29+/- 1.23	249.2+/- 22.1	9.4+/- 17.6
02	17 19 21	3.09+/- 1.26	236.3+/- 29.5	11.6+/- 20.4
03	38 40 42	1.07+/- .79	217.2+/- 38.5	12.9+/- 19.9
04	41 43 45	2.35+/- 1.18	206.0+/- 46.7	9.9+/- 20.1
05	50 52 54	1.76+/- .94	260.0+/- 10.5	8.5+/- 14.7
06	56 58 60	.33+/- .27	224.5+/- 20.5	26.2+/- 28.7

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2717 Vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	56.4	90	54.4	18	55.8	37	57.9	14	53.0
Cat2	117	58.5	179	57.0	205	57.5	162	59.0	133	51.3
Cat3	17	61.4	43	61.7	39	61.5	15	58.0	3	55.2
Cat4	17	65.5	17	61.6	31	59.6	11	58.9	1	50.0
Cat5	8	65.9	7	68.2	8	59.7	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	62.4	57	59.9	70	59.0	66	58.2	39	46.1
Cat2	175	64.9	276	60.8	227	60.3	164	58.9	113	47.7
Cat3	13	63.5	44	61.2	42	61.2	13	55.4	1	43.7
Cat4	11	65.4	23	61.5	21	60.4	3	64.9	0	.0
Cat5	1	63.1	11	60.2	19	61.6	1	61.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	544	20.0	58.3	1753	64.5	60.1	230	8.5	61.5	135	5.0	62.3	55	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	1.163+/- .830	mph	37	N VA 102'	.260+/- .960	mph
12	N Dasibi CO	3.187+/- 1.130	ppm	38	S BDT PER	.531+/- .640	mph
13	N TOP PAR	2.854+/- 1.165	mph	39	N VA 74'	.108+/- .542	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BDT PAR	.365+/- .562	mph
15	N TDP VER	.175+/- .551	mph	41	N GND PER	1.252+/- 1.160	mph
16	N ND/TECO	.261+/- .084	ppm	42	S BDT VER	.190+/- .318	mph
17	N BDT PER	1.605+/- 1.014	mph	43	N GND PAR	.497+/- 1.509	mph
19	N BDT PAR	2.337+/- 1.195	mph	45	N GND VER	.071+/- .820	ppm
20	N ND2/TECO	.033+/- .005	ppm	49	N Ecolyzer-1	1.530+/- .502	ppm
21	N BDT VER	.174+/- .608	mph	50	S TOP PER	.292+/- .465	mph
22	N ND/TECO	.227+/- .083	ppm	51	N Ecolyzer-2	1.493+/- .838	ppm
23	N HA 102'	4.363+/- 1.054	mph	52	S TOP PAR	1.440+/- .857	mph
24	N THC/Byron	2.586+/- .180	ppm	53	N Ecolyzer-3	2.823+/- 1.620	ppm

25	N WV 102'	243.504+/-	13.419	DEGR AZ	54	S TOP VER	.119+/-	.398	mph
26	N NMHC/Byron	3.105+/-	.352	ppm	55	N Ecolyzer-4	3.474+/-	1.266	ppm
27	N Gnd Temp	75.994+/-	2.016	DEGR F	56	S GND PER	.175+/-	.236	mph
28	N CH4/Byron	1.281+/-	.068	ppm	57	N Ecolyzer-5	3.626+/-	1.271	ppm
29	N WV 74'	229.723+/-	14.534	DEGR AZ	58	S GND PAR	.162+/-	.200	mph
30	N CO/Byron	3.017+/-	.566	ppm	59	N Rel Hum	67.204+/-	.293	%
31	N 74' Temp	74.848+/-	1.937	DEGR F	60	S GND VER	.124+/-	.223	mph
32	N CO2/Byron	435.271+/-	12.324	ppm	61	N Solar Rad	34.198+/-	4.954	W/m**2
35	N HA 74'	4.063+/-	2.166	mph	64	S VA 55'	.056+/-	.446	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.25+/-	1.15	247.4+/-	14.8	5.0+/- 11.9
02	17 19 21	3.07+/-	1.21	234.4+/-	19.1	5.3+/- 15.6
03	38 40 42	.92+/-	.65	214.6+/-	39.6	18.0+/- 24.0
04	41 43 45	2.22+/-	1.08	207.5+/-	44.7	5.4+/- 25.0
05	50 52 54	1.57+/-	.90	257.8+/-	14.8	10.5+/- 19.2
06	56 58 60	.36+/-	.30	221.2+/-	23.3	26.1+/- 29.3

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10552 vehicles averaging 58.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	299	56.9	354	54.8	111	57.5	179	58.4	47	52.4
Cat2	484	59.2	695	57.3	799	58.2	586	59.7	528	51.6
Cat3	78	61.5	139	61.3	193	58.2	66	59.3	45	52.4
Cat4	66	63.1	88	63.3	106	59.3	38	61.3	11	49.9
Cat5	25	64.7	37	64.5	29	60.4	9	64.7	1	44.4

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	221	63.4	212	59.2	256	59.1	238	58.0	134	46.8
Cat2	747	65.4	1004	60.0	900	59.8	671	58.1	408	47.3
Cat3	53	65.6	168	60.8	147	60.2	49	58.3	13	48.0
Cat4	47	67.0	102	61.5	109	61.4	16	61.4	4	49.7
Cat5	11	68.5	56	60.9	70	61.5	3	58.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	2051	19.3	58.5	6822	64.0	59.8	851	8.8	61.7	587	5.5	62.4	241	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.313+/-	1.157	37	N VA 102'	.301+/-	.968
12	N Dasibi CO	2.571+/-	.874	38	S BOT PER	.524+/-	.939
13	N TOP PAR	3.259+/-	1.358	39	N VA 74'	.161+/-	.680
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.696+/-	1.062
15	N TOP VER	.270+/-	.713	41	N GND PER	1.513+/-	1.441
16	N NDK/TECO	.240+/-	.078	42	S BOT VER	.245+/-	.420
17	N BOT PER	1.569+/-	1.213	43	N GND PAR	.779+/-	1.697
18	N BOT PAR	2.719+/-	1.430	45	N GND VER	.165+/-	.714
20	N ND2/TECO	.034+/-	.006	48	N Ecolyzer-1	1.512+/-	.486
21	N BOT VER	.288+/-	.077	50	S TOP PER	.413+/-	.801
22	N ND/TECO	.208+/-	.077	51	N Ecolyzer-2	1.538+/-	.754
23	N HA 102'	5.049+/-	1.248	52	S TOP PAR	1.713+/-	1.316
24	N THC/Byron	2.378+/-	.272	53	N Ecolyzer-3	2.742+/-	1.316
25	N WV 102'	242.354+/-	13.885	54	S TOP VER	.273+/-	.536
26	N NMHC/Byron	3.086+/-	.388	55	N Ecolyzer-4	3.100+/-	1.070
27	N Gnd Temp	76.945+/-	2.341	56	S GND PER	.170+/-	.542
28	N CH4/Byron	1.290+/-	.073	57	N Ecolyzer-5	3.094+/-	1.292
29	N WV 74'	228.876+/-	15.630	58	S GND PAR	.278+/-	.537
30	N CO/Byron	1.830+/-	.981	59	N Rel Hum	68.435+/-	1.097
31	N 74' Temp	74.802+/-	2.990	60	S GND VER	.157+/-	.287
32	N CO2/Byron	430.101+/-	22.560	61	N Solar Rad	46.120+/-	9.922
35	N HA 74'	4.729+/-	2.320	64	S VA 55'	.169+/-	.587

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.78+/-	1.34	247.6+/-	18.0	5.8+/- 13.8
02	17 19 21	3.50+/-	1.36	237.8+/-	22.8	6.8+/- 17.0
03	38 40 42	1.34+/-	1.10	221.3+/-	40.0	16.9+/- 21.7
04	41 43 45	2.58+/-	1.31	208.5+/-	43.0	6.7+/- 20.5
05	50 52 54	2.00+/-	1.18	255.8+/-	19.0	13.8+/- 21.3
06	56 58 60	.57+/-	.65	224.2+/-	28.6	25.9+/- 27.6

17:23:14 -- TRAFFIC GOING ON TO IH45 IS MOVING QUITE SLOWLY.  
 17:35:39 -- TRAFFIC STARTING TO BREAK BACK UP GOING ON TO IH45  
 17:35:55 -- START ECOLYZER CALIBRATION PERIOD  
 17:36:04 -- BEGIN CALIBRATION ON CH 57 NCO-5  
 17:36:10 -- IGNORE SPAN ON CH 57  
 17:38:31 -- LEAK IN SPAN GAS BAG FOR CH 57. WILL RESPAN.  
 17:40:32 -- PLACING BACK ON LINE CH 57. WILL NEED TO REPAIR  
 17:40:46 -- WAS NOT ABLE TO PLACE BACK ONLINE. WILL CALIBRATE NOW  
 17:43:28 -- WILL RESTART PROGRAM AFTER GETTING CO-5 BACK ONLINE  
 17:47:37 -- RESTART 3  
 17:47:38 -- 12/10/84  
 17:47:39 -- THIS IS THE THIRD RESTART OF THE DAY (4th file of tape ZX1320).  
 17:48:50 -- END CALIBRATION OF CH 57 NCO-5  
 17:49:24 -- BEGIN CAL CH 55 NCO-4  
 17:55:47 -- BEGIN CALIBRATION OF CH 53 NCO-3  
 17:56:18 -- END CALIBRATION OF CH 55 NCO-4

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2784 vehicles averaging 57.3 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	56.1	94	53.4	8	57.8	54	58.3	7	53.4
Cat2	128	58.1	173	56.6	198	57.8	152	59.1	114	50.8
Cat3	23	60.7	32	59.6	41	57.6	17	59.2	5	48.0
Cat4	18	52.7	26	61.7	30	58.9	7	61.1	6	49.1
Cat5	6	64.1	8	63.8	10	60.6	2	61.1	1	47.3

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	61.8	44	58.0	65	58.8	68	56.8	36	43.9
Cat2	200	63.3	303	57.4	250	56.9	157	57.3	117	45.4
Cat3	14	65.1	54	60.2	42	56.2	11	57.0	4	42.2
Cat4	12	66.6	34	60.1	28	59.9	5	62.0	2	41.4
Cat5	3	79.5	18	62.0	17	61.7	1	60.9	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	514	18.5	57.0	1792	64.4	58.6	243	8.7	60.3	189	6.1	62.6	66	2.4

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TOP PER	1.261+/-	.758	mph	37	N VA 102'	.215+/-	.965	mph					
12	N Dasibi CO	3.443+/-	.778	ppm	38	S BOT PER	.658+/-	.541	mph					
13	N TOP PAR	2.415+/-	.855	mph	39	N VA 74'	.130+/-	.345	mph					
14	N Dasibi O3	.014+/-	.002	ppm	40	S BOT PAR	.286+/-	.399	mph					
15	N TOP VER	.190+/-	.501	mph	41	N GND PER	1.470+/-	1.011	mph					
16	N NOX/TECO	.320+/-	.085	ppm	42	S BOT VER	.247+/-	.273	mph					
17	N BOT PER	1.706+/-	.833	mph	43	N GND PAR	.469+/-	1.281	mph					
19	N BOT PAR	1.657+/-	.941	mph	45	N GND VER	.278+/-	.583	mph					
20	N NO2/TECO	.035+/-	.006	ppm	49	N Ecolyzer-1	1.188+/-	.294	ppm					
21	N BOT VER	.187+/-	.471	mph	50	S TOP PER	.359+/-	.547	ppm					
22	N NO/TECO	.285+/-	.086	ppm	51	N Ecolyzer-2	1.009+/-	.664	ppm					
23	N HA 102'	4.330+/-	.995	mph	52	S TOP PAR	1.472+/-	.745	mph					
24	N THC/Byron	2.674+/-	.083	ppm	53	N Ecolyzer-3	2.884+/-	1.334	ppm					
25	N WV 102'	237.776+/-	8.525	DEGR AZ	54	S TOP VER	.070+/-	.367	mph					
26	N NMHC/Byro	3.483+/-	.324	ppm	55	N Ecolyzer-4	3.690+/-	1.204	ppm					
27	N Gnd Temp	75.760+/-	1.916	DEGR F	56	S GND PER	.159+/-	.218	mph					
28	N CH4/Byron	1.321+/-	.113	ppm	57	N Ecolyzer-5	4.277+/-	1.393	ppm					
29	N WV 74'	223.315+/-	9.656	DEGR AZ	58	S GND PAR	.156+/-	.189	mph					
30	N CO/Byron	3.545+/-	.993	ppm	59	N Rel Hum	68.132+/-	.944	%					
31	N 74' Temp	75.134+/-	4.475	DEGR F	60	S GND VER	.094+/-	.222	mph					
32	N CO2/Byron	422.895+/-	10.478	ppm	61	N Solar Rad	20.937+/-	5.049	W/m**2					
35	N HA 74'	3.234+/-	2.062	ppm	64	S VA 55'	.003+/-	.343	mph					

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg	Elevation Angle (Deg)
01	11 13 15	2.88+/-	.86	242.7+/-	15.2	5.3+/- 13.4
02	17 19 21	2.56+/-	.97	222.3+/-	20.3	5.4+/- 13.0
03	38 40 42	.89+/-	.54	203.8+/-	25.7	21.5+/- 25.3
04	41 43 45	2.09+/-	1.02	185.3+/-	40.1	8.7+/- 18.7
05	50 52 54	1.60+/-	.85	258.8+/-	11.4	6.1+/- 13.3
06	56 58 60	.34+/-	.27	222.8+/-	25.0	23.9+/- 28.1

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 3013 vehicles averaging 54.1 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	96	55.9	80	53.6	10	58.4	45	57.9	13	51.2
Cat2	189	57.4	181	55.0	198	57.4	185	57.9	144	51.0
Cat3	23	59.8	48	59.3	57	56.1	13	59.4	11	49.5
Cat4	19	63.0	31	58.8	34	58.7	20	60.3	3	48.8
Cat5	8	67.0	11	62.6	14	60.5	1	57.4	2	68.7

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.3	27	51.6	41	51.4	64	51.3	48	44.7
Cat2	195	58.4	333	51.2	273	50.6	211	52.5	113	44.6
Cat3	19	58.1	40	51.9	48	48.7	11	52.7	4	43.4
Cat4	14	58.7	28	51.8	37	48.9	5	58.4	0	.0
Cat5	4	69.0	13	58.7	19	51.8	2	69.0	1	99.2

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.6	493	16.4	53.8	1980	65.7	54.9	274	9.1	56.4	191	6.3	60.0	75	2.5

Regular Channels														
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units							
11	N TOP PER	.881+/-	.652	mph	37	N VA 102'	.181+/-	.961	mph					
12	N Dasibi CO	4.838+/-	.889	ppm	38	S BOT PER	.398+/-	.354	mph					
13	N TOP PAR	1.751+/-	.793	mph	39	N VA 74'	.204+/-	.300	mph					
14	N Dasibi O3	.014+/-	.002	ppm	40	S BOT PAR	.181+/-	.226	ppm					
15	N TOP VER	.326+/-	.545	mph	41	N GND PER	1.343+/-	1.135	mph					
16	N NOX/TECO	.382+/-	.087	ppm	42	S BOT VER	.183+/-	.204	mph					
17	N BOT PER	1.320+/-	.880	mph	43	N GND PAR	-1.086+/-	1.423	mph					
19	N BOT PAR	1.036+/-	.887	mph	45	N GND VER	.146+/-	.603	mph					
20	N NO2/TECO	.038+/-	.007	ppm	48	N Ecolyzer-1	1.521+/-	.537	ppm					
21	N BOT VER	.323+/-	.691	mph	50	S TOP PER	.193+/-	.322	mph					
22	N NO/TECO	.344+/-	.070	ppm	51	N Ecolyzer-2	1.542+/-	.858	ppm					

23	N HA 102'	3.836+/-	.750	mph	52	S TOP PAR	.830+/-	.540	mph
24	N THC/Byron	3.105+/-	.253	ppm	53	N Ecolyzer-3	4.070+/-	1.729	ppm
25	N WV 102'	241.480+/-	7.360	DEGR AZ	54	S TOP VER	.157+/-	.184	mph
26	N NMHC/Byro	4.135+/-	.504	ppm	55	N Ecolyzer-4	5.333+/-	1.486	ppm
27	N Gnd Temp	75.890+/-	1.942	DEGR F	56	S GND PER	.141+/-	.065	mph
28	N CH4/Byron	1.342+/-	.093	ppm	57	N Ecolyzer-5	5.758+/-	1.536	ppm
29	N WV 74'	225.980+/-	10.559	DEGR AZ	58	S GND PAR	.147+/-	.125	mph
30	N CD/Byron	4.978+/-	1.534	ppm	59	N Rel Hum	69.761+/-	1.060	%
31	N 74' Temp	73.441+/-	2.507	DEGR F	60	S GND VER	.132+/-	.069	mph
32	N CD2/Byron	440.645+/-	24.631	ppm	61	N Solar Rad	9.174+/-	3.235	W/m <sup>2</sup>
35	N HA 74'	2.896+/-	1.999	mph	64	S VA 55'	.072+/-	.172	mph

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	2.18+/- .73	245.0+/- 22.1	12.3+/- 20.7			
02	17 19 21	2.03+/- .89	217.7+/- 28.3	11.7+/- 24.0			
03	38 40 42	.55+/- .38	209.6+/- 27.4	25.6+/- 21.8			
04	41 43 45	2.31+/- 1.17	143.8+/- 41.3	3.5+/- 17.9			
05	50 52 54	1.01+/- .58	258.6+/- 10.0	12.4+/- 13.6			
06	56 58 60	.26+/- .12	224.5+/- 17.1	32.3+/- 15.9			

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2549 vehicles averaging 58.2 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	55.7	75	53.0	10	54.7	46	58.4	9	48.6
Cat2	135	57.4	155	55.0	206	56.8	180	58.7	130	50.2
Cat3	21	58.6	32	59.9	40	57.5	7	60.1	4	49.8
Cat4	12	62.5	28	61.6	22	55.3	6	60.4	2	45.1
Cat5	5	63.5	4	66.9	12	60.2	0	.0	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	63.6	55	59.4	66	60.3	50	57.9	38	47.9
Cat2	158	65.7	264	60.9	232	59.8	132	60.2	95	48.4
Cat3	16	65.6	46	60.9	38	60.6	7	62.0	0	.0
Cat4	3	65.2	21	61.9	19	60.9	5	60.2	0	.0
Cat5	2	71.9	5	63.3	4	65.3	2	58.8	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	499	19.6	58.0	1887	66.2	60.0	211	8.3	60.2	118	4.6	63.1	34	1.3

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.815+/- .688	mph	37	N VA 102'	.280+/- .906	mph				
12	N Dasibi CD	4.217+/- .642	ppm	38	S BOT PER	.357+/- .258	mph				
13	N TOP PAR	2.037+/- .827	ppm	39	N VA 74'	.178+/- .294	mph				
14	N Dasibi 03	.014+/- .002	ppm	40	S BOT PAR	.158+/- .137	mph				
15	N TOP VER	.282+/- .424	mph	41	N GND PER	1.578+/- 1.054	mph				
16	N NOX/TECO	.344+/- .065	ppm	42	S BOT VER	.271+/- .280	mph				
17	N BOT PER	1.284+/- .768	mph	43	N GND PAR	-.341+/- 1.313	mph				
18	N BOT PAR	1.396+/- .856	mph	44	N GND VER	.148+/- .475	mph				
19	N NO2/TECO	.040+/- .006	ppm	45	N Ecolyzer-1	1.733+/- .248	ppm				
20	N BOT VER	.259+/- .534	mph	46	S TOP PER	.175+/- .230	ppm				
21	N NO/TECO	.304+/- .064	ppm	47	N Ecolyzer-2	1.545+/- .631	ppm				
22	N HA 102'	4.513+/- .741	mph	48	S TOP PAR	1.250+/- .416	ppm				
23	N THC/Byron	3.133+/- .149	ppm	49	N Ecolyzer-3	4.107+/- 1.226	ppm				
24	N WV 102'	243.101+/- 6.516	DEGR AZ	50	S TOP VER	.149+/- .145	ppm				
25	N NMHC/Byro	4.121+/- .579	ppm	51	N Ecolyzer-4	4.916+/- .999	ppm				
26	N Gnd Temp	75.184+/- 3.284	DEGR F	52	S GND PER	.146+/- .066	mph				
27	N CH4/Byron	1.581+/- .184	ppm	53	N Ecolyzer-5	*****	ppm				
28	N WV 74'	228.433+/- 7.655	DEGR AZ	54	S GND PAR	.123+/- .052	mph				
29	N CD/Byron	5.840+/- .328	ppm	55	N Rel Hum	70.858+/- .442	%				
30	N 74' Temp	74.580+/- 2.655	DEGR F	56	S GND VER	.127+/- .066	mph				
31	N CD2/Byron	472.532+/- 9.357	ppm	57	N Solar Rad	3.716+/- 1.232	W/m <sup>2</sup>				
32	N HA 74'	3.608+/- 1.874	mph	58	S VA 55'	.052+/- .168	mph				

UVW Vector Calculations							
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	2.36+/- .83	248.9+/- 16.8	8.7+/- 15.2			
02	17 19 21	2.12+/- .85	229.1+/- 25.7	9.4+/- 17.1			
03	38 40 42	.57+/- .25	208.1+/- 23.8	30.9+/- 29.6			
04	41 43 45	2.16+/- 1.01	170.5+/- 39.7	4.8+/- 14.4			
05	50 52 54	1.29+/- .43	262.1+/- 6.8	8.0+/- 7.6			
06	56 58 60	.25+/- .06	220.8+/- 16.6	31.9+/- 15.7			

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 1949 vehicles averaging 57.3 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	55.2	92	57.8	2	48.1	32	57.3	7	51.5
Cat2	88	56.9	124	55.5	188	55.9	128	57.2	110	49.0
Cat3	20	58.1	23	58.5	29	57.4	10	57.9	7	48.2
Cat4	13	61.2	10	59.8	22	59.4	8	60.5	2	43.3
Cat5	2	60.5	7	64.7	10	57.8	3	58.9	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	62.5	36	57.7	49	58.5	42	57.5	22	47.9
Cat2	124	64.5	180	59.9	177	59.7	109	58.6	47	47.2
Cat3	7	63.6	24	60.3	21	59.6	2	58.7	1	42.8
Cat4	6	64.9	18	61.1	15	58.4	2	53.1	1	41.0
Cat5	0	.0	3	63.3	7	82.2	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	413	21.2	57.3	1263	64.8	58.5	144	7.4	59.6	97	5.0	61.1	32	1.6

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.576+/- .502	mph	37	N VA 102'	.203+/- .916	mph				
12	N Dasibi CD	4.861+/- .559	ppm	38	S BOT PER	.478+/- .241	mph				
13	N TOP PAR	2.117+/- .737	ppm	39	N VA 74'	.261+/- .293	mph				

14	N Dasibi 03	.014+/-	.001	ppm	40	S BOT PAR	.184+/-	.104	mph
15	N TOP VER	.255+/-	.478	mph	41	N GND PER	1.488+/-	1.012	mph
16	N ND/TECD	.414+/-	.048	ppm	42	S BOT VER	.181+/-	.116	mph
17	N BOT PER	1.243+/-	.709	mph	43	N GND PAR	-.936+/-	1.421	mph
18	N BOT PAR	1.320+/-	.691	mph	45	N GND VER	.265+/-	.532	mph
20	N ND2/TECD	.039+/-	.008	ppm	49	N EcoLyzer-1	2.058+/-	.247	ppm
21	N BOT VER	.262+/-	.572	mph	50	S TOP PER	.142+/-	.072	mph
22	N ND/TECD	.377+/-	.052	ppm	51	N EcoLyzer-2	1.855+/-	.611	ppm
23	N HA 102'	4.356+/-	.737	mph	52	S TOP PAR	1.209+/-	.319	mph
24	N THC/Byron	3.171+/-	.197	ppm	53	N EcoLyzer-3	*****+/-	*****	ppm
25	N WV 102'	246.148+/-	5.114	DEGR AZ	54	S TOP VER	.181+/-	.140	mph
26	N NMHC/Byro	3.570+/-	.331	ppm	55	N EcoLyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	74.086+/-	2.294	DEGR F	56	S GND PER	.145+/-	.065	mph
28	N CH4/Byron	1.417+/-	.137	ppm	57	N EcoLyzer-5	*****+/-	*****	ppm
29	N WV 74'	232.296+/-	6.614	DEGR AZ	58	S GND PAR	.120+/-	.060	mph
30	N CD/Byron	3.662+/-	1.100	ppm	59	N Rel Hum	72.118+/-	.445	%
31	N 74' Temp	73.174+/-	1.932	DEGR F	60	S GND VER	.142+/-	.079	mph
32	N CD2/Byron	360.023+/-	19.688	ppm	61	N Solar Rad	3.179+/-	1.403	W/m**2
35	N HA 74'	4.162+/-	1.856	mph	64	S VA 55'	.074+/-	.111	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.33+/- .87	254.9+/- 14.3	8.1+/- 15.9		
02	17 19 21	2.05+/- .70	227.3+/- 20.8	10.4+/- 19.3		
03	38 40 42	.57+/- .21	205.4+/- 19.2	18.3+/- 13.8		
04	41 43 45	2.30+/- 1.09	153.9+/- 39.8	7.8+/- 17.5		
05	50 52 54	1.24+/- .31	262.8+/- 3.9	9.2+/- 7.4		
06	56 58 60	.26+/- .06	218.6+/- 19.2	34.2+/- 17.4		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10295 vehicles averaging 56.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	326	55.7	342	53.2	30	56.3	176	58.1	36	51.3
Cat2	530	57.5	633	55.5	768	57.0	623	58.3	498	50.3
Cat3	87	59.4	135	59.6	167	57.0	47	59.1	27	49.2
Cat4	62	62.4	95	60.9	108	58.2	41	60.5	13	47.6
Cat5	21	64.7	30	64.0	46	59.8	6	59.4	3	61.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	244	61.5	162	57.3	222	57.8	234	55.7	145	45.8
Cat2	677	62.7	1080	56.8	932	56.3	609	56.5	372	46.5
Cat3	56	62.7	164	58.4	148	55.7	31	56.7	8	42.8
Cat4	35	63.0	101	58.4	100	55.8	17	59.4	3	41.3
Cat5	9	73.1	39	60.5	47	58.1	5	63.3	1	99.2

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	1919	18.6	56.3	6722	65.3	57.8	872	8.5	58.9	575	5.6	61.5	207	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.895+/- .704	mph	37	N VA 102'	.220+/- .937	mph
12	N Dasibi CD	4.317+/- .931	ppm	38	S BOT PER	.473+/- .390	mph
13	N TOP PAR	2.078+/- .841	mph	39	N VA 74'	.191+/- .312	mph
14	N Dasibi D3	.018+/- .002	ppm	40	S BOT PAR	.198+/- .252	mph
15	N TOP VER	.264+/- .493	mph	41	N GND PER	1.469+/- 1.057	mph
16	N ND/TECD	.363+/- .076	ppm	42	S BOT VER	.218+/- .235	mph
17	N BOT PER	1.389+/- .819	mph	43	N GND PAR	.598+/- 1.386	mph
18	N BOT PAR	1.354+/- .883	mph	45	N GND VER	.207+/- .554	mph
20	N ND2/TECD	.038+/- .007	ppm	49	N EcoLyzer-1	1.608+/- .472	ppm
21	N BOT VER	.262+/- .573	mph	50	S TOP PER	.221+/- .355	mph
22	N ND/TECD	.325+/- .078	ppm	51	N EcoLyzer-2	1.473+/- .763	ppm
23	N HA 102'	4.255+/- .854	mph	52	S TOP PAR	1.215+/- .570	mph
24	N THC/Byron	3.004+/- .275	ppm	53	N EcoLyzer-3	3.797+/- 1.517	ppm
25	N WV 102'	241.960+/- 7.632	DEGR AZ	54	S TOP VER	.138+/- .235	mph
26	N NMHC/Byro	3.820+/- .528	ppm	55	N EcoLyzer-4	4.729+/- 1.400	ppm
27	N Gnd Temp	75.298+/- 2.387	DEGR F	56	S GND PER	.148+/- .125	mph
28	N CH4/Byron	1.402+/- .181	ppm	57	N EcoLyzer-5	5.339+/- 1.673	ppm
29	N WV 74'	227.572+/- 9.421	DEGR AZ	58	S GND PAR	.137+/- .123	mph
30	N CD/Byron	4.474+/- 1.451	ppm	59	N Rel Hum	70.061+/- 1.683	%
31	N 74' Temp	74.086+/- 3.170	DEGR F	60	S GND VER	.123+/- .130	mph
32	N CD2/Byron	446.627+/- 25.853	ppm	61	N Solar Rad	10.013+/- 8.011	W/m**2
35	N HA 74'	3.446+/- 2.002	mph	64	S VA 55'	.049+/- .221	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	2.44+/- .82	247.6+/- 18.0	8.6+/- 16.7		
02	17 19 21	2.20+/- .88	224.0+/- 24.5	9.2+/- 18.9		
03	38 40 42	.65+/- .40	206.7+/- 24.5	24.3+/- 24.1		
04	41 43 45	2.21+/- 1.07	158.7+/- 40.8	6.1+/- 17.5		
05	50 52 54	1.29+/- .62	280.4+/- 8.9	8.9+/- 11.2		
06	56 58 60	.28+/- .16	222.0+/- 19.9	30.4+/- 20.4		

18:00:59 -- WILL TRY ANOTHER PROGRAM RESTART AFTER ECOLYZER CALIBRATION PERIOD IS OVER.  
 18:01:46 -- BEGIN CALIBRATION NCD-2 CH 51  
 18:01:57 -- END CALIBRATION NCD-3 CH 53  
 18:08:41 -- BEGIN CALIBRATION CH 49 NCD-1  
 18:08:51 -- END CALIBRATION NCD-2 CH 51  
 18:18:54 -- END ALL ECOLYZER CALIBRATION MWH  
 18:20:42 -- RESTART 4. Probably best data run of tape ZX1320.  
 18:20:43 -- 12/10/84  
 18:20:44 -- This is the fifth start of the day (5th tape file)  
 18:21:51 -- Program restart file!!!!!!!  
 18:27:45 -- THERE IS A BURNING ODOR IN THE AIR

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2129 vehicles averaging 57.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	54.3	106	53.3	7	54.1	31	58.4	5	53.0
Cat2	110	56.3	140	55.5	185	56.8	124	58.8	100	50.4
Cat3	10	61.1	25	58.3	29	56.3	7	59.7	2	52.9
Cat4	5	61.6	9	60.6	23	55.3	3	54.9	4	46.2
Cat5	3	62.8	5	62.2	3	56.2	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	62.9	57	56.2	68	59.0	43	57.5	33	47.5
Cat2	146	64.4	216	60.2	199	58.6	110	58.0	73	47.5
Cat3	9	62.3	30	61.1	19	58.7	6	58.6	1	50.8
Cat4	7	66.7	13	61.1	15	61.3	2	53.6	0	0
Cat5	0	0	3	65.1	3	62.8	1	71.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	486	22.8	57.7	1406	66.0	58.0	138	6.5	58.8	81	3.8	62.4	18	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.512+/-	.493 mph	37	N VA 102'	.236+/-	.891 mph
12	N Dasibi CO	4.722+/-	.606 ppm	38	S BOT PER	.527+/-	.251 mph
13	N TOP PAR	2.117+/-	.701 mph	39	N VA 74'	.226+/-	.304 mph
14	N Dasibi D3	.014+/-	.002 ppm	40	S BOT PAR	.148+/-	.100 mph
15	N TOP VER	.227+/-	.531 mph	41	N GND PER	1.627+/-	.950 mph
16	N NOX/TECO	.388+/-	.053 ppm	42	S BOT VER	.179+/-	.104 mph
17	N BOT PER	1.138+/-	.865 mph	43	N GND PAR	-.709+/-	1.190 mph
18	N BOT PAR	1.385+/-	.747 ppm	45	N GND VER	.184+/-	.395 mph
20	N ND2/TECO	.037+/-	.006 ppm	49	N Ecolyzer-1	*****	***** ppm
21	N BOT VER	.340+/-	.527 mph	50	S TOP PER	.110+/-	.066 mph
22	N ND/TECO	.351+/-	.056 ppm	51	N Ecolyzer-2	*****	***** ppm
23	N HA 102'	4.203+/-	.891 mph	52	S TOP PAR	1.147+/-	.314 mph
24	N THC/Byron	3.356+/-	.104 ppm	53	N Ecolyzer-3	4.444+/-	1.112 ppm
25	N WV 102'	248.593+/-	4.690 DEGR AZ	54	S TOP VER	.159+/-	.148 mph
26	N NMHC/Byro	4.021+/-	.078 ppm	55	N Ecolyzer-4	5.380+/-	1.185 ppm
27	N Gnd Temp	72.920+/-	2.866 DEGR F	56	S GND PER	.138+/-	.060 mph
28	N CH4/Byron	1.508+/-	.121 ppm	57	N Ecolyzer-5	5.850+/-	1.273 ppm
29	N WV 74'	235.624+/-	7.622 DEGR AZ	58	S GND PAR	.121+/-	.052 mph
30	N CO/Byron	5.203+/-	.186 ppm	59	N Rel Hum	73.164+/-	.530 %
31	N 74' Temp	72.086+/-	2.764 DEGR F	60	S GND VER	.123+/-	.079 mph
32	N CO2/Byron	489.822+/-	14.358 ppm	61	N Solar Rad	2.770+/-	2.352 W/m**2
35	N HA 74'	4.150+/-	1.716 mph	64	S VA 55'	.090+/-	.102 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.33+/- .61	255.9+/- 14.5	7.0+/- 16.2
02	17 19 21	2.04+/- .67	231.0+/- 24.0	13.0+/- 20.0
03	38 40 42	1.61+/- .22	197.6+/- 18.2	21.1+/- 17.4
04	41 43 45	2.17+/- .98	159.5+/- 38.5	6.3+/- 13.5
05	50 52 54	1.18+/- .31	264.1+/- 3.8	6.5+/- 7.8
06	56 58 60	.24+/- .06	222.6+/- 17.4	31.0+/- 18.4

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 1669 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	55.3	70	53.6	4	51.2	38	58.8	7	52.4
Cat2	75	56.9	128	55.3	141	56.8	96	59.4	71	50.4
Cat3	15	58.9	18	59.6	25	55.3	7	60.1	5	50.7
Cat4	5	62.1	5	66.3	12	57.4	0	0	1	51.5
Cat5	2	59.9	2	62.0	10	58.7	1	61.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	51	62.4	46	57.8	56	59.4	38	57.1	15	48.1
Cat2	107	63.9	143	59.7	163	60.1	114	58.5	47	47.4
Cat3	11	63.6	27	59.5	17	59.0	4	61.2	0	0
Cat4	7	60.9	17	59.7	8	64.3	0	0	0	0
Cat5	1	66.4	3	61.3	6	59.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	377	22.6	57.8	1085	65.0	58.4	127	7.6	60.7	55	3.3	60.0	25	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.585+/-	.511 mph	37	N VA 102'	.264+/-	.900 mph
12	N Dasibi CO	5.006+/-	.531 ppm	38	S BOT PER	.436+/-	.227 mph
13	N TOP PAR	1.690+/-	.789 mph	39	N VA 74'	.237+/-	.254 mph
14	N Dasibi D3	.014+/-	.002 ppm	40	S BOT PAR	.172+/-	.086 mph
15	N TOP VER	.388+/-	.460 mph	41	N GND PER	1.335+/-	.956 mph
16	N NOX/TECO	.378+/-	.053 ppm	42	S BOT VER	.148+/-	.201 mph
17	N BOT PER	1.106+/-	.669 mph	43	N GND PAR	-.683+/-	.958 mph
18	N BOT PAR	1.107+/-	.753 ppm	45	N GND VER	.162+/-	.365 mph
20	N ND2/TECO	.037+/-	.006 ppm	49	N Ecolyzer-1	*****	***** ppm
21	N BOT VER	.305+/-	.445 mph	50	S TOP PER	.134+/-	.070 mph
22	N ND/TECO	.341+/-	.052 ppm	51	N Ecolyzer-2	3.541+/-	.671 ppm
23	N HA 102'	4.041+/-	.733 mph	52	S TOP PAR	1.089+/-	.376 mph
24	N THC/Byron	3.395+/-	.141 ppm	53	N Ecolyzer-3	5.308+/-	1.309 ppm
25	N WV 102'	249.450+/-	6.818 DEGR AZ	54	S TOP VER	.176+/-	.135 mph
26	N NMHC/Byro	4.030+/-	.166 ppm	55	N Ecolyzer-4	6.070+/-	.977 ppm
27	N Gnd Temp	72.457+/-	2.528 DEGR F	56	S GND PER	.150+/-	.058 mph

28	N CH4/Byron	1.561+/-	.132	ppm	57	N Ecolyzer-5	6.567+/-	1.301	ppm
29	N WV 74'	236.462+/-	8.773	DEGR AZ	58	S GND PAR	.125+/-	.048	mph
30	N CD/Byron	3.872+/-	1.177	ppm	59	N Rel Hum	74.459+/-	.673	%
31	N 74' Temp	72.913+/-	3.388	DEGR F	60	S GND VER	.139+/-	.068	mph
32	N CD2/Byron	512.846+/-	28.102	ppm	61	N Solar Rad	2.328+/-	1.466	W/m**2
35	N HA 74'	3.566+/-	1.706	mph	64	S VA 55'	.092+/-	.111	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.01+/- .63	247.8+/- 24.2	14.0+/- 17.7
02	17 19 21	1.81+/- .68	222.1+/- 26.0	14.1+/- 21.5
03	38 40 42	.55+/- .20	204.8+/- 18.2	15.2+/- 25.2
04	41 43 45	1.81+/- 1.01	157.8+/- 34.1	7.1+/- 16.7
05	50 52 54	1.12+/- .37	262.3+/- 4.9	10.1+/- 7.7
06	56 58 60	.25+/- .06	220.8+/- 15.6	34.1+/- 15.5

Average for 15 minute period ending at 18:45:00  
Traffic Data  
 Total Traffic = 1856 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	54.6	112	53.6	4	55.6	35	59.0	8	48.8
Cat2	92	56.3	117	55.5	187	56.7	114	58.5	85	50.5
Cat3	10	58.0	32	59.5	34	57.0	8	59.5	4	51.2
Cat4	5	61.3	9	60.8	11	58.2	3	56.0	2	49.5
Cat5	2	60.0	3	66.3	3	59.5	2	60.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	63.1	53	59.1	65	59.2	47	57.8	19	45.5
Cat2	123	64.3	167	60.5	145	80.1	87	58.4	46	46.2
Cat3	14	62.4	23	58.8	18	61.0	3	54.1	0	.0
Cat4	4	68.3	15	59.8	13	60.9	0	.0	0	.0
Cat5	0	.0	3	61.2	4	66.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	468	25.2	57.8	1163	62.7	58.8	146	7.9	60.1	62	3.3	62.7	17	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.449+/- .498	mph	37	N VA 102'	.272+/- .918	mph
12	N Dasibi CD	4.950+/- .408	ppm	38	S BOT PER	.654+/- .187	mph
13	N TOP PAR	1.293+/- .830	mph	39	N VA 74'	.283+/- .423	mph
14	N Dasibi D3	.014+/- .002	ppm	40	S BOT PAR	.183+/- .099	mph
15	N TOP VER	.516+/- .803	mph	41	N GND PER	1.273+/- .949	mph
16	N NOX/TECO	.415+/- .051	ppm	42	S BOT VER	.150+/- .105	mph
17	N BOT PER	.917+/- .673	mph	43	N GND PAR	.675+/- 1.109	mph
19	N BOT PAR	.661+/- .725	mph	45	N GND VER	.222+/- .307	mph
20	N ND2/TECO	.036+/- .006	ppm	49	N Ecolyzer-1	3.523+/- .840	ppm
21	N BOT VER	.457+/- .559	mph	50	S TOP PER	.126+/- .066	mph
22	N NO/TECO	.381+/- .054	ppm	51	N Ecolyzer-2	4.142+/- .651	ppm
23	N HA 102'	3.245+/- .713	mph	52	S TOP PAR	.637+/- .216	mph
24	N THC/Byron	3.757+/- .137	ppm	53	N Ecolyzer-3	6.102+/- 1.063	ppm
25	N WV 102'	255.393+/- 6.863	DEGR AZ	54	S TOP VER	.165+/- .103	mph
26	N NMHC/Byro	4.081+/- .313	ppm	55	N Ecolyzer-4	6.621+/- .933	ppm
27	N Gnd Temp	72.581+/- 2.539	DEGR F	56	S GND PER	.140+/- .058	mph
28	N CH4/Byron	1.690+/- .145	ppm	57	N Ecolyzer-5	6.093+/- .889	ppm
29	N WV 74'	236.071+/- 9.276	DEGR AZ	58	S GND PAR	.130+/- .048	mph
30	N CD/Byron	4.198+/- .456	ppm	59	N Rel Hum	75.753+/- .459	%
31	N 74' Temp	71.643+/- 3.108	DEGR F	60	S GND VER	.136+/- .073	mph
32	N CD2/Byron	470.770+/- 8.484	ppm	61	N Solar Rad	2.952+/- 1.759	W/m**2
35	N HA 74'	3.516+/- 1.962	mph	64	S VA 55'	.119+/- .084	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.72+/- .71	247.4+/- 28.7	22.1+/- 25.1
02	17 19 21	1.49+/- .76	215.2+/- 29.3	20.9+/- 24.0
03	38 40 42	.72+/- .17	196.2+/- 9.1	13.0+/- 10.9
04	41 43 45	1.85+/- .95	153.1+/- 38.5	9.7+/- 14.4
05	50 52 54	.68+/- .21	257.6+/- 10.6	15.4+/- 10.0
06	56 58 60	.25+/- .06	223.9+/- 16.1	33.6+/- 16.0

Average for 15 minute period ending at 19:00:00  
Traffic Data  
 Total Traffic = 1703 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	55.3	70	54.8	7	55.0	36	58.5	8	52.7
Cat2	90	57.6	132	55.7	175	56.5	99	59.0	62	50.6
Cat3	8	58.7	21	61.3	17	57.8	6	55.9	5	52.4
Cat4	9	61.5	10	62.0	19	56.5	7	58.2	1	47.7
Cat5	1	64.6	4	65.1	7	58.1	1	61.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	63.4	59	60.0	61	60.5	41	59.2	13	47.9
Cat2	129	64.8	156	60.9	138	60.4	87	59.3	29	48.1
Cat3	5	65.0	20	59.5	18	60.3	3	59.5	0	.0
Cat4	10	59.4	8	63.2	6	63.6	0	.0	0	.0
Cat5	0	.0	2	61.0	2	66.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	418	24.5	58.5	1097	64.4	59.3	101	5.9	58.7	70	4.1	60.8	17	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.344+/- .368	mph	37	N VA 102'	.257+/- .916	mph
12	N Dasibi CD	4.873+/- .512	ppm	38	S BOT PER	.914+/- .138	mph
13	N TOP PAR	.323+/- .007	mph	39	N VA 74'	.252+/- .340	mph
14	N Dasibi D3	.014+/- .001	ppm	40	S BOT PAR	.184+/- .110	mph
15	N TOP VER	.649+/- .824	mph	41	N GND PER	1.518+/- .972	mph
16	N NOX/TECO	.411+/- .028	ppm	42	S BOT VER	.149+/- .091	mph
17	N BOT PER	.781+/- .515	mph	43	N GND PAR	-1.505+/- .985	mph
19	N BOT PAR	-.038+/- .601	mph	45	N GND VER	.228+/- .306	mph



20	N NO2/TECO	.035+/-	.005	ppm	49	N Ecolyzer-1	3.228+/-	1.114	ppm
21	N BOT VER	.591+/-	.541	mph	50	S TOP PER	.130+/-	.061	mph
22	N NO/TECO	.375+/-	.027	ppm	51	N Ecolyzer-2	4.200+/-	1.109	ppm
23	N HA 102'	2.388+/-	.761	mph	52	S TOP PAR	3.55+/-	.224	mph
24	N THC/Byron	3.899+/-	.187	ppm	53	N Ecolyzer-3	6.349+/-	1.361	ppm
25	N WV 102'	248.414+/-	14.230	DEGR AZ	54	S TOP VER	.161+/-	.066	mph
26	N NMHC/Byro	4.320+/-	.564	ppm	55	N Ecolyzer-4	6.805+/-	1.085	ppm
27	N Gnd Temp	70.940+/-	2.073	DEGR F	56	S GND PER	.144+/-	.060	mph
28	N CH4/Byron	1.860+/-	.092	ppm	57	N Ecolyzer-5	6.128+/-	1.073	ppm
29	N WV 74'	230.718+/-	17.738	DEGR AZ	58	S GND PAR	.130+/-	.053	mph
30	N CO/Byron	5.504+/-	1.161	ppm	59	N Rel Hum	70.974+/-	.605	%
31	N 74' Temp	71.226+/-	2.905	DEGR F	60	S GND VER	.155+/-	.073	mph
32	N CO2/Byron	487.217+/-	21.785	ppm	61	N Solar Rad	2.987+/-	1.761	W/m**2
35	N HA 74'	1.711+/-	1.833	mph	64	S VA 55'	.148+/-	.058	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.07+/-	.55	221.3+/-	41.7	38.6+/-	31.1
02	17	19	21	1.24+/-	.58	182.0+/-	35.6	29.1+/-	23.4
03	38	40	42	.96+/-	.14	191.4+/-	6.9	9.1+/-	5.6
04	41	43	45	2.40+/-	.92	135.8+/-	26.5	6.6+/-	9.5
05	50	52	54	.43+/-	.20	243.4+/-	18.2	26.5+/-	14.7
06	56	58	60	.26+/-	.06	222.1+/-	17.4	36.4+/-	15.9

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 7357 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	253	54.8	358	53.7	22	54.1	138	58.7	29	51.6
Cat2	367	56.7	517	55.5	688	58.7	433	58.9	318	50.5
Cat3	43	58.5	94	59.6	105	56.5	28	58.9	16	51.6
Cat4	24	61.6	33	62.0	65	56.5	13	58.9	8	47.9
Cat5	8	61.6	14	63.8	23	57.7	4	60.8	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	228	63.0	215	58.8	250	59.5	176	57.9	80	47.2
Cat2	503	64.4	682	60.3	645	60.0	398	58.8	200	47.3
Cat3	39	63.0	100	59.8	70	59.7	18	58.6	1	50.8
Cat4	28	62.9	53	60.6	42	62.1	2	53.6	0	0
Cat5	1	66.4	11	62.3	15	62.8	1	71.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.0	1749	23.8	57.9	4751	64.6	58.8	512	7.0	59.7	268	3.6	61.3	77	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.487+/-	.476	37	N VA 102'	.257+/-	.905
12	N Dasibi CD	4.882+/-	.528	38	S BOT PER	.642+/-	.271
13	N TOP PAR	1.341+/-	.981	39	N VA 74'	.250+/-	.340
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	.171+/-	.103
15	N TOP VER	.447+/-	.583	41	N GND PER	1.443+/-	.972
16	N NOX/TECO	.400+/-	.048	42	S BOT VER	.157+/-	.129
17	N BOT PER	.979+/-	.653	43	N GND PAR	.902+/-	1.126
19	N BOT PAR	.763+/-	.891	45	N GND VER	.203+/-	.345
20	N NO2/TECO	.036+/-	.006	49	N Ecolyzer-1	2.995+/-	.973
21	N BOT VER	.429+/-	.534	50	S TOP PER	.124+/-	.066
22	N NO/TECO	.363+/-	.051	51	N Ecolyzer-2	3.834+/-	.952
23	N HA 102'	3.443+/-	1.026	52	S TOP PAR	.794+/-	.436
24	N THC/Byron	3.639+/-	.304	53	N Ecolyzer-3	5.602+/-	1.426
25	N WV 102'	250.518+/-	9.456	54	S TOP VER	.165+/-	.117
26	N NMHC/Byro	4.117+/-	.356	55	N Ecolyzer-4	6.226+/-	1.190
27	N Gnd Temp	72.212+/-	2.971	56	S GND PER	.143+/-	.059
28	N CH4/Byron	1.660+/-	.184	57	N Ecolyzer-5	6.169+/-	1.159
29	N WV 74'	234.880+/-	11.916	58	S GND PAR	.127+/-	.050
30	N CO/Byron	4.737+/-	1.061	59	N Rel Hum	75.121+/-	1.566
31	N 74' Temp	71.817+/-	3.005	60	S GND VER	.138+/-	.074
32	N CO2/Byron	488.991+/-	23.583	61	N Solar Rad	2.785+/-	1.849
35	N HA 74'	3.221+/-	2.034	64	S VA 55'	.113+/-	.093

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.77+/-	.79	244.7+/-	31.5	20.7+/-	26.3
02	17	19	21	1.64+/-	.74	213.6+/-	33.3	19.5+/-	23.2
03	38	40	42	.71+/-	.24	197.1+/-	13.7	14.5+/-	16.6
04	41	43	45	2.07+/-	.99	150.8+/-	35.1	7.4+/-	13.7
05	50	52	54	.84+/-	.41	256.8+/-	13.8	15.3+/-	12.7
06	56	58	60	.25+/-	.08	222.4+/-	16.7	33.8+/-	16.6

19:37:23 -- TURNING DOWN RANGE ON RADAR#5 SLIGHTLY.  
 19:46:45 -- BEGIN ECOLYZER RECALIBRATION PERIOD.  
 19:46:53 -- BEGIN CALIBRATION OF CH 57 NCO-5  
 19:53:45 -- END CALIBRATION OF NCO-5 CH 57  
 19:53:54 -- BEGIN CALIBRATION OF NCO-4 CH 55

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1584 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	54.7	96	54.5	9	55.6	36	58.7	7	52.8
Cat2	65	55.4	114	55.9	178	57.4	103	58.6	51	50.4
Cat3	5	58.6	11	58.9	18	55.7	6	57.3	3	52.8
Cat4	2	63.5	6	62.8	13	57.2	4	60.5	2	47.4
Cat5	1	82.3	3	62.6	5	56.8	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	64.3	58	59.1	57	60.7	32	58.0	15	49.3
Cat2	134	65.8	140	61.6	118	60.8	74	60.3	21	48.6
Cat3	8	67.6	23	62.8	11	65.2	8	60.5	0	0
Cat4	8	67.6	9	63.8	8	63.8	2	62.1	0	0
Cat5	1	70.7	1	62.0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	428	27.0	59.0	998	63.0	60.6	93	5.9	61.7	54	3.4	60.2	11	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	.343+/-	.360	37	N VA 102'	.162+/-	1.530
12	N Dasibi CD	5.188+/-	.440	38	S BDT PER	.681+/-	.282
13	N TOP PAR	-.008+/-	.555	39	N VA 74'	.269+/-	.384
14	N Dasibi D3	.014+/-	.002	40	S BDT PAR	.147+/-	.118
15	N TOP VER	.405+/-	.514	41	N GND PER	1.158+/-	.938
16	N NOX/TECD	.407+/-	.038	42	S BDT VER	.178+/-	.127
17	N BDT PER	.587+/-	.539	43	N GND PAR	-1.651+/-	.902
18	N BDT PAR	-.376+/-	.620	45	N GND VER	.237+/-	.293
20	N NO2/TECD	.032+/-	.005	48	N Ecolyzer-1	3.153+/-	1.187
21	N BDT VSR	.253+/-	.301	50	S TOP PER	.113+/-	.063
22	N ND/TECD	.374+/-	.037	51	N Ecolyzer-2	4.315+/-	1.155
23	N HA 102'	2.373+/-	1.031	52	S TOP PAR	.133+/-	.069
24	N THC/Byron	4.061+/-	.168	53	N Ecolyzer-3	7.116+/-	1.401
25	N WV 102'	224.674+/-	8.056	54	S TOP VER	.154+/-	.093
26	N NMHC/Byro	4.130+/-	.253	55	N Ecolyzer-4	7.312+/-	.812
27	N Gnd Temp	70.627+/-	2.267	56	S GND PER	.155+/-	.085
28	N CH4/Byron	1.848+/-	.069	57	N Ecolyzer-5	6.974+/-	1.024
29	N WV 74'	196.491+/-	22.583	58	S GND PAR	.142+/-	.056
30	N CO/Byron	5.343+/-	.627	59	N Rel Hum	78.847+/-	.673
31	N 74' Temp	69.950+/-	3.575	60	S GND VER	.122+/-	.072
32	N CO2/Byron	488.683+/-	19.810	61	N Solar Rad	5.132+/-	4.421
35	N HA 74'	.513+/-	3.810	64	S VA 55'	.132+/-	.069

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	.88+/- .48	190.5+/- 48.6	27.0+/- 35.8
02	17 19 21	1.09+/- .56	154.4+/- 41.6	15.7+/- 19.7
03	38 40 42	.75+/- .24	195.1+/- 20.1	15.8+/- 14.0
04	41 43 45	2.23+/- .98	123.9+/- 24.6	6.6+/- 9.2
05	50 52 54	.28+/- .07	229.7+/- 22.5	37.4+/- 19.2
06	56 58 60	.26+/- .08	224.2+/- 18.6	29.4+/- 16.3

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1554 vehicles averaging 59.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	55.2	82	54.3	2	60.9	19	57.7	6	49.2
Cat2	61	56.2	92	56.4	170	57.9	98	59.5	73	51.0
Cat3	2	64.1	12	62.5	18	58.3	4	58.0	1	50.6
Cat4	5	61.6	8	60.0	10	58.5	2	52.5	1	48.4
Cat5	1	71.1	0	0	5	56.1	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	63.6	49	60.6	70	61.3	41	60.2	17	47.8
Cat2	144	65.0	152	61.8	126	61.7	73	60.8	23	49.5
Cat3	6	67.0	28	61.1	9	62.6	3	59.5	0	0
Cat4	3	60.5	5	61.4	8	64.9	0	0	2	48.8
Cat5	0	0	2	63.1	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	407	26.2	59.4	1012	65.1	61.0	83	5.3	59.6	44	2.8	59.7	8	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.206+/-	.273	37	N VA 102'	.510+/-	1.883
12	N Dasibi CD	5.632+/-	.457	38	S BDT PER	.682+/-	.186
13	N TOP PAR	-.055+/-	.461	39	N VA 74'	.207+/-	.381
14	N Dasibi D3	.014+/-	.002	40	S BDT PAR	.168+/-	.131
15	N TOP VER	.332+/-	.451	41	N GND PER	.583+/-	.974
16	N NOX/TECD	.406+/-	.048	42	S BDT VER	.178+/-	.132
17	N BDT PER	.484+/-	.519	43	N GND PAR	-.692+/-	1.277
18	N BDT PAR	-.348+/-	.663	45	N GND VER	.172+/-	.294
19	N NO2/TECD	.032+/-	.006	48	N Ecolyzer-1	4.317+/-	1.592
20	N BDT VER	.247+/-	.300	50	S TOP PER	.120+/-	.082
21	N ND/TECD	.374+/-	.047	51	N Ecolyzer-2	5.338+/-	1.354
22	N HA 102'	2.434+/-	1.112	52	S TOP PAR	.119+/-	.076
23	N THC/Byron	4.367+/-	.257	53	N Ecolyzer-3	7.968+/-	1.080
24	N WV 102'	223.757+/-	9.397	54	S TOP VER	.159+/-	.089
25	N NMHC/Byro	4.608+/-	.161	55	N Ecolyzer-4	8.060+/-	.661
26	N Gnd Temp	69.324+/-	2.911	56	S GND PER	.150+/-	.068
27	N CH4/Byron	1.946+/-	.228	57	N Ecolyzer-5	7.387+/-	1.358
28	N WV 74'	187.967+/-	24.927	58	S GND PAR	.142+/-	.073
29	N CO/Byron	5.291+/-	.344	59	N Rel Hum	79.792+/-	.658
30	N 74' Temp	70.966+/-	4.095	60	S GND VER	.146+/-	.078
31	N CO2/Byron	508.223+/-	19.110	61	N Solar Rad	9.583+/-	4.426
35	N HA 74'	.598+/-	4.088	64	S VA 55'	.142+/-	.079

UYW Vector Calculations							
UYW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	.68+/- .43	182.9+/- 52.6	26.2+/- 37.9	
02	17	19	21	.91+/- .65	165.7+/- 48.6	19.6+/- 24.1	
03	38	40	42	.75+/- .18	194.1+/- 11.6	14.3+/- 11.0	
04	41	43	45	1.48+/- 1.16	140.2+/- 54.6	9.2+/- 19.5	
05	50	52	54	.26+/- .07	225.2+/- 26.4	39.1+/- 21.5	
06	56	58	60	.27+/- .07	223.5+/- 18.9	32.7+/- 16.9	

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 1284 vehicles averaging 59.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	52	54.1	88	54.2	24	55.4	31	57.8	2	49.4
Cat 2	44	56.1	75	57.1	134	57.2	72	58.6	33	50.4
Cat 3	2	66.0	10	59.4	14	55.3	5	58.8	1	42.9
Cat 4	0	.0	4	61.4	8	58.2	0	.0	0	.0
Cat 5	1	64.7	0	.0	1	61.1	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	58	64.2	43	60.5	56	62.2	33	59.8	8	47.7
Cat 2	104	67.3	118	62.4	106	62.1	66	62.1	16	46.9
Cat 3	10	65.5	13	62.7	6	61.1	0	.0	0	.0
Cat 4	3	70.5	7	65.4	5	60.4	1	64.6	0	.0
Cat 5	1	****	1	68.1	1	67.1	0	.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
58.2	396	30.8	59.7	794	61.8	60.2	61	4.8	62.4	28	2.2	73.3	5	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.215+/-	.256	37	N VA 102'	.273+/-	1.680
12	N Dasibi CO	5.872+/-	.599	38	S BOT PER	.789+/-	.196
13	N TOP PAR	.015+/-	.452	39	N VA 74'	.208+/-	.448
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	.187+/-	.146
15	N TOP VER	.348+/-	.458	41	N GND PER	1.000+/-	.953
16	N NOX/TECO	.417+/-	.035	42	S BOT VER	.181+/-	.129
17	N BOT PER	.406+/-	.453	43	N GND PAR	-1.292+/-	1.106
19	N BOT PAR	-.289+/-	.630	45	N GND VER	.203+/-	.305
20	N NO2/TECO	.032+/-	.006	49	N Ecolyzer-1	3.685+/-	1.716
21	N BOT VER	.234+/-	.236	50	S TOP PER	.122+/-	.073
22	N NO/TECO	.384+/-	.034	51	N Ecolyzer-2	5.798+/-	1.891
23	N HA 102'	2.149+/-	1.020	52	S TOP PAR	.124+/-	.084
24	N THC/Byron	5.108+/-	.332	53	N Ecolyzer-3	8.082+/-	1.637
25	N WV 102'	215.316+/-	12.994	54	S TOP VER	.156+/-	.086
26	N MMHC/Byro	4.568+/-	.258	55	N Ecolyzer-4	8.347+/-	1.168
27	N Gnd Temp	67.605+/-	2.315	56	S GND PER	.148+/-	.074
28	N CH4/Byron	2.472+/-	.115	57	N Ecolyzer-5	8.223+/-	1.580
29	N WV 74'	195.853+/-	20.350	58	S GND PAR	.123+/-	.066
30	N CO/Byron	5.787+/-	.331	59	N Rel Hum	81.748+/-	.884
31	N 74' Temp	67.735+/-	5.129	60	S GND VER	.144+/-	.089
32	N CO2/Byron	521.413+/-	15.362	61	N Solar Rad	8.584+/-	5.982
35	N HA 74'	-.441+/-	4.164	64	S VA 55'	.147+/-	.079

UYW Vector Calculations							
UYW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13	15	.71+/- .39	194.1+/- 51.5	28.2+/- 34.7	
02	17	19	21	.84+/- .50	157.1+/- 50.1	19.2+/- 21.1	
03	38	40	42	.85+/- .19	193.7+/- 10.9	12.5+/- 9.1	
04	41	43	45	1.98+/- 1.04	128.3+/- 39.8	8.4+/- 16.2	
05	50	52	54	.26+/- .08	224.3+/- 26.3	37.4+/- 20.7	
06	56	58	60	.27+/- .07	221.0+/- 22.2	33.7+/- 19.2	

Average for 15 minute period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 1161 vehicles averaging 59.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	35	54.5	78	54.3	85	56.5	22	60.6	5	49.7
Cat 2	45	55.8	75	56.8	86	57.9	54	58.4	52	49.9
Cat 3	5	60.3	12	58.4	1	61.7	1	59.3	1	53.5
Cat 4	6	60.3	7	60.9	2	55.6	0	.0	0	.0
Cat 5	0	.0	1	69.0	0	.0	0	.0	1	42.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	47	64.6	53	59.4	52	62.2	33	61.6	5	60.2
Cat 2	87	65.8	126	61.7	105	62.0	46	59.6	16	46.7
Cat 3	10	64.6	11	65.3	13	63.0	2	63.4	0	.0
Cat 4	6	64.2	3	62.1	6	64.1	2	61.6	1	46.3
Cat 5	1	71.9	1	60.6	1	63.3	0	.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
58.5	385	34.0	59.3	672	57.9	62.3	56	4.8	61.4	33	2.8	61.4	5	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.286+/-	.326	37	N VA 102'	.236+/-	1.609
12	N Dasibi CO	5.945+/-	.658	38	S BOT PER	.702+/-	.252
13	N TOP PAR	-.104+/-	.527	39	N VA 74'	.258+/-	.463
14	N Dasibi O3	.015+/-	.001	40	S BOT PAR	.164+/-	.132
15	N TOP VER	.301+/-	.367	41	N GND PER	.348+/-	.771
16	N NOX/TECO	.398+/-	.057	42	S BOT VER	.172+/-	.132
17	N BOT PER	.477+/-	.452	43	N GND PAR	-.331+/-	.803
19	N BOT PAR	-.277+/-	.544	45	N GND VER	.208+/-	.324
20	N NO2/TECO	.029+/-	.006	49	N Ecolyzer-1	3.432+/-	1.323
21	N BOT VER	.212+/-	.250	50	S TOP PER	.119+/-	.078
22	N NO/TECO	.368+/-	.058	51	N Ecolyzer-2	5.335+/-	1.182
23	N HA 102'	2.611+/-	1.065	52	S TOP PAR	.125+/-	.076
24	N THC/Byron	5.585+/-	.087	53	N Ecolyzer-3	8.365+/-	1.039
25	N WV 102'	192.651+/-	10.802	54	S TOP VER	.158+/-	.102

26	N NMHC/Byro	5.383+/-	.422	ppm	55	N Ecolyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	68.595+/-	2.094	DEGR F	56	S GND PER	.144+/-	.073	mph
28	N CH4/Byron	2.798+/-	.150	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	179.171+/-	24.533	DEGR AZ	58	S GND PAR	.128+/-	.063	mph
30	N CO/Byron	5.950+/-	.232	ppm	59	N Rel Hum	81.908+/-	.560	%
31	N 74' Temp	68.282+/-	4.277	DEGR F	60	S GND VER	.141+/-	.074	mph
32	N CO2/Byron	501.058+/-	21.291	ppm	61	N Solar Rad	8.311+/-	5.027	W/m^2
35	N HA 74'	1.187+/-	3.962	mph	64	S VA 55'	.148+/-	.073	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	.71+/-	.46	171.8+/-	48.4	25.2+/-	34.2
02	17 19 21	.84+/-	.46	158.4+/-	44.0	17.5+/-	24.3
03	38 40 42	.77+/-	.28	193.7+/-	11.7	14.4+/-	11.9
04	41 43 45	1.08+/-	.68	134.1+/-	55.1	15.4+/-	25.3
05	50 52 54	.27+/-	.08	226.4+/-	26.9	37.1+/-	21.5
06	56 58 60	.26+/-	.06	222.5+/-	21.2	33.5+/-	16.9

Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 5583 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	204	54.7	347	54.3	100	56.5	108	58.7	20	50.6
Cat2	215	55.8	356	56.5	548	57.6	327	58.8	235	50.8
Cat3	14	61.1	45	59.8	51	56.6	16	58.1	6	50.9
Cat4	13	61.3	25	61.2	33	57.7	6	57.8	3	47.1
Cat5	3	66.0	4	64.2	11	56.4	0	.0	1	42.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	225	64.2	203	59.8	235	61.6	139	58.8	45	48.5
Cat2	469	65.9	536	61.8	455	61.8	259	60.7	76	48.1
Cat3	34	66.0	75	62.5	39	63.3	13	60.7	0	.0
Cat4	20	66.0	24	63.4	27	63.6	5	62.4	3	45.3
Cat5	3	82.7	5	63.4	2	65.2	0	.0	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
58.2	1626	59.3	3476	62.3	293	61.0	159	62.5	29

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.262+/-	.317	37	N VA 102'	.295+/-	1.732
12	N Dasibi CO	5.659+/-	.621	38	S BOT PER	.713+/-	.247
13	N TOP PAR	-.038+/-	.502	39	N VA 74'	.236+/-	.421
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.166+/-	.133
15	N TOP VER	.347+/-	.451	41	N GND PER	.772+/-	.966
16	N NOX/TECO	.407+/-	.045	42	S BOT VER	.177+/-	.129
17	N BOT PER	.516+/-	.519	43	N GND PAR	-.894+/-	1.158
19	N BOT PAR	-.322+/-	.616	45	N GND VER	.205+/-	.304
20	N NO2/TECO	.031+/-	.006	49	N Ecolyzer-1	3.647+/-	1.643
21	N BOT VER	.236+/-	.273	50	S TOP PER	.115+/-	.074
22	N NO/TECO	.375+/-	.045	51	N Ecolyzer-2	5.197+/-	1.465
23	N HA 102'	2.392+/-	1.068	52	S TOP PAR	.125+/-	.077
24	N THC/Byron	4.781+/-	.646	53	N Ecolyzer-3	7.883+/-	1.391
25	N WV 102'	214.230+/-	16.325	54	S TOP VER	.157+/-	.095
26	N NMHC/Byro	4.672+/-	.535	55	N Ecolyzer-4	8.038+/-	1.013
27	N Gnd Temp	69.038+/-	2.603	56	S GND PER	.149+/-	.075
28	N CH4/Byron	2.266+/-	.418	57	N Ecolyzer-5	7.569+/-	1.405
29	N WV 74'	189.863+/-	24.002	58	S GND PAR	.134+/-	.065
30	N CO/Byron	5.593+/-	.491	59	N Rel Hum	80.573+/-	1.476
31	N 74' Temp	68.233+/-	4.392	60	S GND VER	.138+/-	.079
32	N CO2/Byron	504.844+/-	22.048	61	N Solar Rad	7.902+/-	5.158
35	N HA 74'	.464+/-	4.042	64	S VA 55'	.142+/-	.075

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	.74+/-	.45	184.5+/-	50.5	26.7+/-	35.6
02	17 19 21	.82+/-	.56	158.5+/-	46.3	18.0+/-	22.4
03	38 40 42	.78+/-	.23	194.1+/-	14.1	14.2+/-	11.6
04	41 43 45	1.69+/-	1.07	128.8+/-	47.9	9.9+/-	18.7
05	50 52 54	.26+/-	.08	226.4+/-	25.5	37.8+/-	20.7
06	56 58 60	.27+/-	.07	222.8+/-	19.9	32.3+/-	17.4

20:02:02 -- END CALIBRATION OF CH 55 NCO-4  
 20:02:15 -- BEGIN CALIBRATION OF CH 53 NCO-3  
 20:07:11 -- END CALIBRATION OF CH 53 NCO-3  
 20:07:20 -- BEGIN CALIBRATION OF CH 51 NCO-2  
 20:17:07 -- END CALIBRATION OF CH 51 NCO-2  
 20:17:26 -- BEGIN CALIBRATION OF NCO-1 CH 49  
 20:26:32 -- END ALL ECOLYZER CALIBRATION

Average for 15 minute period ending at 20:15:00  
Traffic Data  
 Total Traffic = 1040 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	53.9	79	55.4	66	57.0	16	59.1	8	49.0
Cat2	34	54.0	62	56.6	59	58.5	43	58.8	55	48.5
Cat3	3	53.8	8	58.8	5	58.5	1	60.3	0	.0
Cat4	0	.0	1	60.5	4	57.5	1	55.6	2	53.7
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	63.2	35	60.0	49	60.5	29	58.1	8	47.1
Cat2	97	64.1	96	61.2	79	61.3	50	59.4	16	47.3
Cat3	9	63.3	18	60.5	9	63.1	1	65.1	0	.0
Cat4	3	67.4	6	58.6	6	63.4	0	.0	0	.0
Cat5	1	57.2	2	65.0	1	61.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	388	35.4	58.7	591	56.8	60.9	54	5.2	60.3	23	2.2	64.6	4	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.561+/-	.544	37	N VA 102'	.360+/-	1.568
12	N Dasibi CO	5.933+/-	.554	38	S BOT PER	1.013+/-	.214
13	N TOP PAR	-.238+/-	.536	39	N VA 74'	.203+/-	.409
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.190+/-	.142
15	N TOP VER	.314+/-	.386	41	N GND PER	1.039+/-	.928
16	N NDX/TECO	.409+/-	.047	42	S BOT VER	.164+/-	.135
17	N BOT PER	.858+/-	.554	43	N GND PAR	-1.200+/-	.912
19	N BOT PAR	-.290+/-	.607	45	N GND VER	.223+/-	.319
20	N ND2/TECO	.031+/-	.007	49	N Ecolyzer-1	5.038+/-	.864
21	N BOT VER	.184+/-	.241	50	S TOP PER	.131+/-	.082
22	N ND/TECO	.377+/-	.048	51	N Ecolyzer-2	*****	*****
23	N HA 102'	3.231+/-	1.068	52	S TOP PAR	-.214+/-	.351
24	N THC/Byron	5.997+/-	.387	53	N Ecolyzer-3	*****	*****
25	N WV 102'	164.242+/-	6.289	54	S TOP VER	.161+/-	.084
26	N NMHC/Byro	5.859+/-	.089	55	N Ecolyzer-4	8.315+/-	1.319
27	N Gnd Temp	55.182+/-	3.084	56	S GND PER	.135+/-	.073
28	N CH4/Byron	2.830+/-	.072	57	N Ecolyzer-5	7.445+/-	1.377
29	N WV 74'	152.038+/-	11.998	58	S GND PAR	.131+/-	.069
30	N CO/Byron	6.054+/-	.226	59	N Rel Hum	82.348+/-	.760
31	N 74' Temp	70.366+/-	3.554	60	S GND VER	.139+/-	.073
32	N CO2/Byron	525.484+/-	5.370	61	N Solar Rad	6.903+/-	3.453
35	N HA 74'	1.016+/-	4.259	64	S VA 55'	.143+/-	.073

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	.98+/- .50	159.4+/- 44.2	20.6+/- 31.2
02	17 19 21	1.16+/- .49	162.3+/- 37.2	10.5+/- 15.3
03	38 40 42	1.06+/- .21	190.8+/- 8.1	9.2+/- 7.7
04	41 43 45	1.89+/- .90	127.0+/- 36.0	9.7+/- 15.8
05	50 52 54	.43+/- .21	153.8+/- 50.1	27.6+/- 17.8
06	56 58 60	.26+/- .06	225.2+/- 22.6	33.5+/- 17.0

Average for 15 minute period ending at 20:30:00  
Traffic Data  
 Total Traffic = 1080 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	55.5	92	55.0	76	57.7	25	59.4	5	49.1
Cat2	38	56.8	71	57.9	65	60.3	43	60.2	52	51.3
Cat3	1	59.3	13	60.3	4	60.6	2	59.7	2	53.3
Cat4	1	65.3	2	62.8	4	59.2	0	.0	0	.0
Cat5	2	65.0	1	57.6	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	63.1	47	58.8	49	60.1	28	57.9	6	45.4
Cat2	96	65.2	110	60.2	82	61.3	41	59.7	12	48.1
Cat3	5	66.1	9	60.7	5	62.2	2	65.7	0	.0
Cat4	2	66.3	3	63.7	1	48.2	0	.0	0	.0
Cat5	1	67.0	1	59.3	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	419	38.4	59.7	610	56.0	61.2	43	3.9	61.5	13	1.2	62.8	5	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.168+/-	1.125	37	N VA 102'	.035+/-	2.381
12	N Dasibi CO	6.274+/-	.509	38	S BOT PER	1.076+/-	.611
13	N TOP PAR	.112+/-	.606	39	N VA 74'	.104+/-	.544
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.170+/-	.159
15	N TOP VER	.191+/-	.513	41	N GND PER	1.140+/-	.854
16	N NDX/TECO	.389+/-	.039	42	S BOT VER	.189+/-	.227
17	N BOT PER	1.891+/-	1.078	43	N GND PAR	-1.232+/-	1.143
19	N BOT PAR	-.130+/-	.534	45	N GND VER	.165+/-	.330
20	N ND2/TECO	.032+/-	.007	49	N Ecolyzer-1	*****	*****
21	N BOT VER	.162+/-	.341	50	S TOP PER	1.491+/-	1.103
22	N ND/TECO	.356+/-	.039	51	N Ecolyzer-2	4.982+/-	.380
23	N HA 102'	6.401+/-	1.361	52	S TOP PAR	.144+/-	.388
24	N THC/Byron	6.237+/-	.148	53	N Ecolyzer-3	6.459+/-	.989
25	N WV 102'	175.626+/-	6.777	54	S TOP VER	.151+/-	.215
26	N NMHC/Byro	5.721+/-	.317	55	N Ecolyzer-4	7.669+/-	.875
27	N Gnd Temp	67.370+/-	3.104	56	S GND PER	.157+/-	.081
28	N CH4/Byron	3.068+/-	.125	57	N Ecolyzer-5	8.534+/-	1.383
29	N WV 74'	163.483+/-	10.507	58	S GND PAR	.136+/-	.070
30	N CO/Byron	6.247+/-	.332	59	N Rel Hum	82.902+/-	.562
31	N 74' Temp	68.517+/-	3.674	60	S GND VER	.138+/-	.074

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11	13	15	3.29+/- 1.09	182.3+/- 11.9	4.8+/- 11.2
02	17	19	21	2.04+/- 1.00	175.3+/- 26.5	7.6+/- 16.0
03	38	40	42	1.16+/- .58	190.8+/- 13.9	13.6+/- 15.8
04	41	43	45	2.01+/- .96	134.1+/- 32.9	6.2+/- 15.2
05	50	52	54	1.80+/- 1.07	193.4+/- 25.0	14.5+/- 18.6
06	56	58	60	.27+/- .08	221.1+/- 21.5	32.3+/- 17.3

Average for 15 minute period ending at 20:45:00  
 Traffic Data  
 Total Traffic = 971 vehicles averaging 59.2 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	53.4	76	55.4	67	57.7	13	58.3	0	.0
Cat2	24	54.2	63	56.6	69	58.8	36	60.5	41	50.7
Cat3	4	56.9	6	60.9	7	57.2	2	60.1	1	53.1
Cat4	2	62.1	3	61.9	1	60.0	1	57.9	0	.0
Cat5	0	.0	1	70.6	0	.0	0	.0	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	64.3	45	60.3	39	60.6	28	59.3	10	46.0
Cat2	78	65.3	94	61.6	87	62.2	41	61.8	14	47.0
Cat3	3	66.1	15	61.9	5	61.6	3	67.8	0	.0
Cat4	3	65.5	4	63.6	2	67.2	0	.0	0	.0
Cat5	0	.0	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	361	37.2	59.7	547	56.3	61.0	46	4.7	63.3	16	1.6	70.6	1	.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.531+/- 1.177	mph	37	N VA 102'	.450+/- 2.075	mph
12	N Dasibi CO	4.207+/- .725	ppm	38	S BOT PER	1.297+/- .546	mph
13	N TOP PAR	.281+/- .734	mph	39	N VA 74'	.039+/- .614	mph
14	N Dasibi D3	.012+/- .003	ppm	40	S BOT PAR	.194+/- .181	mph
15	N TOP VER	.095+/- .590	mph	41	N GND PER	.864+/- .762	mph
16	N NOX/TECD	.306+/- .041	ppm	42	S BOT VER	.120+/- .376	mph
17	N BOT PER	1.988+/- 1.348	mph	43	N GND PAR	-.839+/- .960	mph
19	N BOT PAR	-.087+/- .585	mph	45	N GND VER	.204+/- .320	mph
20	N NO2/TECD	.035+/- .005	ppm	48	N Ecolyzer-1	5.142+/- .525	ppm
21	N BOT VER	.060+/- .418	mph	50	S TOP PER	2.140+/- 1.079	ppm
22	N NO/TECO	.270+/- .041	ppm	51	N Ecolyzer-2	4.518+/- .506	ppm
23	N HA 102'	6.393+/- 1.335	mph	52	S TOP PAR	.249+/- .607	mph
24	N THC/Byron	5.983+/- .114	ppm	53	N Ecolyzer-3	5.870+/- .586	ppm
25	N WV 102'	176.967+/- 7.751	DEGR A2	54	S TOP VER	.131+/- .368	mph
26	N NMHC/Byro	5.537+/- .807	ppm	55	N Ecolyzer-4	6.101+/- .543	ppm
27	N Gnd Temp	67.005+/- 2.251	DEGR F	56	S GND PER	.166+/- .145	mph
28	N CH4/Byron	3.231+/- .122	ppm	57	N Ecolyzer-5	5.408+/- 1.704	ppm
29	N WV 74'	167.134+/- 11.314	DEGR A2	58	S GND PAR	.128+/- .068	mph
30	N CO/Byron	5.709+/- .796	ppm	59	N Rel Hum	83.374+/- .551	%
31	N 74' Temp	66.432+/- 3.707	DEGR F	60	S GND VER	.138+/- .152	mph
32	N CO2/Byron	511.969+/- 11.034	ppm	61	N Solar Rad	9.219+/- 4.222	W/m**2
35	N HA 74'	3.771+/- 3.901	mph	64	S VA 55'	.291+/- .494	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11	13	15	3.67+/- 1.15	184.3+/- 13.0	2.5+/- 10.9
02	17	19	21	2.18+/- 1.24	179.0+/- 32.3	3.8+/- 21.4
03	38	40	42	1.38+/- .54	189.8+/- 9.7	6.9+/- 15.7
04	41	43	45	1.55+/- .80	140.2+/- 39.4	8.9+/- 17.3
05	50	52	54	2.28+/- 1.07	187.8+/- 18.1	6.9+/- 13.4
06	56	58	60	.29+/- .16	219.8+/- 21.3	32.5+/- 21.7

Average for 15 minute period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 914 vehicles averaging 59.4 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	51.0	60	54.5	54	57.1	22	59.0	2	41.7
Cat2	30	55.4	57	56.1	67	58.9	35	60.6	45	48.6
Cat3	4	56.6	11	61.3	5	57.9	1	58.2	3	51.3
Cat4	3	60.3	5	60.6	4	58.0	2	68.7	0	.0
Cat5	0	.0	1	57.9	0	.0	1	57.9	0	.0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	64.5	49	61.8	44	61.9	24	59.0	6	48.9
Cat2	70	67.2	82	63.3	69	62.4	39	58.7	11	47.6
Cat3	6	63.3	7	61.0	6	62.5	2	56.9	1	47.1
Cat4	4	63.2	10	62.1	5	65.4	0	.0	0	.0
Cat5	1	57.5	1	68.2	1	65.4	1	67.0	0	.0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	324	35.4	59.7	505	55.3	59.7	46	5.0	62.2	33	3.6	62.3	6	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.502+/- 1.028	mph	37	N VA 102'	.128+/- 2.060	mph
12	N Dasibi CO	3.184+/- .353	ppm	38	S BOT PER	1.280+/- .653	mph
13	N TOP PAR	.332+/- .767	mph	39	N VA 74'	.074+/- .577	mph
14	N Dasibi D3	.012+/- .002	ppm	40	S BOT PAR	.140+/- .156	mph
15	N TOP VER	.092+/- .643	mph	41	N GND PER	.873+/- .842	mph
16	N NOX/TECO	.271+/- .034	ppm	42	S BOT VER	.120+/- .392	mph
17	N BOT PER	1.959+/- 1.207	mph	43	N GND PAR	-.999+/- 1.104	mph
19	N BOT PAR	-.007+/- .697	mph	45	N GND VER	.119+/- .368	mph
20	N NO2/TECD	.037+/- .039	ppm	49	N Ecolyzer-1	5.386+/- .497	ppm
21	N BOT VER	.146+/- .499	mph	50	S TOP PER	1.943+/- .933	ppm
22	N NO/TECO	.232+/- .033	ppm	51	N Ecolyzer-2	3.771+/- .463	ppm
23	N HA 102'	6.233+/- 1.106	mph	52	S TOP PAR	.371+/- .469	mph

24	N THC/Byron	4.482+/-	.244	ppm	53	N Ecolyzer-3	5.440+/-	.549	ppm
25	N WV 102'	178.473+/-	7.644	DEGR AZ	54	S TOP VER	.017+/-	.404	mph
26	N MMHC/Byro	4.361+/-	.135	ppm	55	N Ecolyzer-4	5.409+/-	.516	ppm
27	N Gnd Temp	67.553+/-	2.776	DEGR F	56	S GND PER	.151+/-	.074	ppm
28	N CH4/Byron	2.672+/-	.302	ppm	57	N Ecolyzer-5	3.980+/-	1.548	ppm
29	N WV 74'	168.442+/-	10.552	DEGR AZ	58	S GND PAR	.133+/-	.072	mph
30	N CO/Byron	3.701+/-	.628	ppm	59	N Rel Hum	84.335+/-	.484	%
31	N 74' Temp	67.969+/-	3.334	DEGR F	60	S GND VER	.132+/-	.114	mph
32	N CO2/Byron	459.697+/-	23.175	ppm	61	N Solar Rad	9.174+/-	6.405	W/m <sup>2</sup> =2
35	N HA 74'	4.120+/-	4.125	mph	64	S VA 55'	.253+/-	.349	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	3.66+/-	1.03	185.1+/-	12.1	2.2+/-	11.3
02	17	19	21	2.21+/-	1.09	181.0+/-	31.9	5.6+/-	19.1
03	38	40	42	1.36+/-	.66	188.3+/-	11.3	7.1+/-	16.2
04	41	43	45	1.71+/-	.94	133.4+/-	41.7	6.8+/-	20.1
05	50	52	54	2.07+/-	.93	193.5+/-	16.5	2.6+/-	12.7
06	56	58	60	.27+/-	.08	222.0+/-	21.8	26.9+/-	21.5

Average for hourly period ending at 21:00:00  
 Traffic Data  
 Total Traffic = 4015 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	126	53.8	307	55.1	263	57.4	81	58.0	13	47.9
Cat2	126	55.2	253	56.9	260	58.1	157	60.0	193	50.0
Cat3	12	56.3	38	60.6	21	58.3	6	59.7	6	52.3
Cat4	6	61.7	11	61.3	13	58.3	4	62.7	2	53.7
Cat5	2	65.0	3	62.0	0	.0	1	57.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	176	63.8	176	60.3	181	60.8	109	58.6	31	46.4
Cat2	341	65.3	382	61.4	317	61.8	171	59.9	53	47.7
Cat3	23	64.3	49	61.1	25	62.5	8	64.2	1	47.1
Cat4	12	65.4	23	61.6	14	63.5	0	.0	0	.0
Cat5	3	63.8	4	64.4	2	63.4	1	67.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1		Spd.	CAT 2		Spd.	CAT 3		Spd.	CAT 4		Spd.	CAT 5	
	Total	%		Total	%		Total	%		Total	%		Total	%
58.0	1472	36.7	59.4	2253	56.1	60.7	189	4.7	61.8	85	2.1	63.6	16	.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.690+/-	1.591	37	N VA 102'	.243+/-	2.044
12	N Desibi CD	4.899+/-	1.378	38	S BOT PER	1.167+/-	.548
13	N TOP PAR	.117+/-	.701	39	N VA 74'	.105+/-	.544
14	N Desibi D3	.013+/-	.003	40	S BOT PAR	.173+/-	.172
15	N TOP VER	.173+/-	.548	41	N GND PER	.979+/-	.855
16	N NOX/TECO	.388+/-	.070	42	S BOT VER	.148+/-	.303
17	N BOT PER	1.669+/-	1.183	43	N GND PAR	-1.067+/-	1.044
19	N BOT PAR	.121+/-	.612	45	N GND VER	.178+/-	.336
20	N NO2/TECO	.034+/-	.006	48	N Ecolyzer-1	5.155+/-	.729
21	N BOT VER	.138+/-	.389	50	S TOP PER	1.426+/-	1.195
22	N NO/TECO	.309+/-	.072	51	N Ecolyzer-2	4.625+/-	.966
23	N HA 102'	5.564+/-	1.821	52	S TOP PAR	.137+/-	.512
24	N THC/Byron	5.670+/-	.750	53	N Ecolyzer-3	5.985+/-	1.078
25	N WV 102'	173.830+/-	9.041	54	S TOP VER	.115+/-	.302
26	N MMHC/Byro	5.369+/-	.727	55	N Ecolyzer-4	6.821+/-	1.437
27	N Gnd Temp	66.777+/-	2.911	56	S GND PER	.152+/-	.089
28	N CH4/Byron	2.950+/-	.277	57	N Ecolyzer-5	6.342+/-	2.322
29	N WV 74'	162.798+/-	12.752	58	S GND PAR	.132+/-	.070
30	N CO/Byron	5.428+/-	1.153	59	N Rel Hum	83.240+/-	.936
31	N 74' Temp	68.321+/-	3.756	60	S GND VER	.136+/-	.108
32	N CO2/Byron	503.786+/-	29.404	61	N Solar Rad	8.856+/-	5.840
35	N HA 74'	3.106+/-	4.242	64	S VA 55'	.245+/-	.357

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.80+/-	1.48	179.6+/-	27.2	7.5+/-	19.8
02	17	19	21	1.89+/-	1.08	174.7+/-	32.7	6.9+/-	18.3
03	38	40	42	1.24+/-	.54	188.9+/-	11.0	9.2+/-	14.5
04	41	43	45	1.79+/-	.92	133.6+/-	37.9	7.9+/-	17.2
05	50	52	54	1.80+/-	1.15	186.2+/-	34.2	12.9+/-	18.5
06	56	58	60	.27+/-	.11	222.0+/-	21.8	31.8+/-	19.5

21:14:28 -- POWER OUTAGE\*\*\*\*\*  
 21:14:49 -- DATA SHOULD BE STILL GOOD; ONLY PRINTER AND LIGHTS IN MEL-3 WENT OUT.  
 21:16:52 -- DATA FOR ECOLYZERS IS INVALID AT POWER OUTAGE; LOST VACUUM PUMPS .  
 21:31:50 -- PERFORMING ECOLYZER END CALIBRATIONS  
 21:32:07 -- END CALIBRATION OF CH 57 NCD-5  
 21:34:14 -- END CALIBRATION OF CH 55 NCD-4  
 21:37:33 -- END CALIBRATION OF CH 53 NCO-3  
 21:39:34 -- END CALIBRATION OF NCD-2 CH 51  
 21:42:37 -- END CALIBRATION OF CH 49 NCD-1  
 21:46:34 -- READ ALL ECOLYZER ENDING ZEROS

Average for 15 minute period ending at 21:15:00  
 Traffic Data  
 Total Traffic = 943 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	51.4	62	54.9	64	57.0	24	56.8	3	47.0
Cat2	23	53.0	53	55.5	60	57.8	40	57.5	41	50.7
Cat3	2	56.4	5	59.5	1	56.7	0	0	3	53.6
Cat4	2	60.2	4	61.8	2	62.8	1	53.7	0	0
Cat5	0	0	1	62.4	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	64.3	46	60.9	50	62.2	27	58.7	9	49.4
Cat2	80	65.4	95	61.9	81	61.1	48	61.9	12	46.7
Cat3	1	61.1	3	62.1	5	63.4	1	65.2	0	0
Cat4	2	65.5	8	67.0	4	61.0	0	0	0	0
Cat5	1	65.6	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	364	38.6	59.3	533	56.5	59.9	21	2.2	63.4	23	2.4	64.0	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.422+/-	1.268	37	N VA 102'	.674+/-	2.457
12	N Dasidi CO	2.510+/-	.320	38	S BOT PER	1.240+/-	.584
13	N TOP PAR	.380+/-	.794	39	N VA 74'	.082+/-	.696
14	N Dasidi O3	.011+/-	.001	40	S BOT PAR	.156+/-	.155
15	N TOP VER	.131+/-	.719	41	N GND PER	1.057+/-	.990
16	N NOX/TECO	.222+/-	.041	42	S BOT VER	.238+/-	.402
17	N BOT PER	2.445+/-	1.080	43	N GND PAR	-.806+/-	1.003
19	N BOT PAR	.183+/-	.685	45	N GND VER	.178+/-	.383
20	N NO2/TECO	.039+/-	.005	49	N Ecolyzer-1	4.381+/-	.473
21	N BOT VER	.134+/-	.584	50	S TOP PER	1.794+/-	.832
22	N NO/TECO	.182+/-	.041	51	N Ecolyzer-2	3.362+/-	.404
23	N HA 102'	5.927+/-	1.540	52	S TOP PAR	.183+/-	.514
24	N THC/Byron	4.066+/-	.194	53	N Ecolyzer-3	4.178+/-	.515
25	N WV 102'	177.659+/-	8.451	54	S TOP VER	.121+/-	.402
26	N NMHC/Byro	3.900+/-	.237	55	N Ecolyzer-4	4.332+/-	.488
27	N Gnd Temp	67.031+/-	3.263	56	S GND PER	.185+/-	.248
28	N CH4/Byron	2.457+/-	.088	57	N Ecolyzer-5	3.164+/-	1.395
29	N WV 74'	167.044+/-	12.325	58	S GND PAR	.128+/-	.091
30	N CD/Byron	3.504+/-	.433	59	N Re1 Hum	84.465+/-	.647
31	N 74' Temp	66.458+/-	3.361	60	S GND VER	.113+/-	.134
32	N CO2/Byron	483.472+/-	22.736	61	N Solar Rad	10.264+/-	8.615
35	N HA 74'	3.886+/-	4.152	64	S VA 55'	.386+/-	.515

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.63+/- 1.21	187.2+/- 14.7	4.0+/- 13.9
02	17 19 21	2.62+/- 1.06	183.5+/- 19.3	5.9+/- 14.3
03	38 40 42	1.34+/- .58	189.5+/- 13.3	11.1+/- 15.8
04	41 43 45	1.78+/- .92	141.2+/- 38.1	8.0+/- 19.2
05	50 52 54	1.92+/- .83	187.0+/- 17.7	6.3+/- 14.7
06	56 58 60	.30+/- .24	220.4+/- 23.0	28.0+/- 22.8

Average for 15 minute period ending at 21:30:00  
 Traffic Data  
 Total Traffic = 990 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	53.0	47	54.2	62	56.5	14	56.6	5	52.3
Cat2	29	54.6	70	56.9	61	58.3	42	59.5	45	50.7
Cat3	1	57.3	10	59.6	9	57.9	0	0	0	0
Cat4	1	63.8	3	60.1	3	61.0	0	0	2	45.4
Cat5	0	0	0	0	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	63.2	48	58.4	54	60.6	27	58.2	9	43.5
Cat2	85	63.9	104	60.0	73	60.9	38	58.5	10	48.7
Cat3	7	61.6	7	62.7	7	61.3	3	61.3	1	43.5
Cat4	4	64.9	13	64.6	2	63.5	1	65.8	0	0
Cat5	2	71.9	0	0	0	0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	357	36.1	58.8	557	56.3	60.0	45	4.5	62.4	29	2.9	71.9	2	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.063+/-	.967	37	N VA 102'	-.014+/-	2.391
12	N Dasidi CO	2.661+/-	.323	38	S BOT PER	.628+/-	.389
13	N TOP PAR	.622+/-	.581	39	N VA 74'	.152+/-	.423
14	N Dasidi O3	.012+/-	.001	40	S BOT PAR	.153+/-	.145
15	N TOP VER	.190+/-	.484	41	N GND PER	.808+/-	.863
16	N NDX/TECO	.219+/-	.039	42	S BOT VER	.223+/-	.232
17	N BOT PER	1.528+/-	.770	43	N GND PAR	-.673+/-	1.032
19	N BOT PAR	.241+/-	.535	45	N GND VER	.195+/-	.344
20	N NO2/TECO	.042+/-	.006	49	N Ecolyzer-1	2.959+/-	.294
21	N BOT VER	.131+/-	.366	50	S TOP PER	.968+/-	7.16
22	N NO/TECO	.177+/-	.037	51	N Ecolyzer-2	3.125+/-	.328
23	N HA 102'	4.718+/-	1.186	52	S TOP PAR	.336+/-	.351
24	N THC/Byron	3.923+/-	.147	53	N Ecolyzer-3	3.679+/-	.581
25	N WV 102'	185.993+/-	6.901	54	S TOP VER	.151+/-	.199
26	N NMHC/Byro	3.869+/-	.182	55	N Ecolyzer-4	4.023+/-	.484
27	N Gnd Temp	65.651+/-	2.287	56	S GND PER	.140+/-	.073
28	N CH4/Byron	2.268+/-	.097	57	N Ecolyzer-5	3.808+/-	1.092





21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	53.51+/-*****	-4.7+/- 1.9	123.6+/-*****		
02	17 19 21	46.19+/-84.86	-1.6+/- 1.1	128.2+/-*****		
03	38 40 42	9.31+/- 3.65	-16.6+/- 14.5	752.4+/-*****		
04	41 43 45	48.12+/-*****	21.8+/- 18.6	74.3+/-*****		
05	50 52 54	7.10+/- 2.17	-16.3+/- 14.0	931.6+/-*****		
06	56 58 60	6.62+/- 1.74	-17.5+/- 12.7	943.8+/-*****		

Average for hourly period ending at 22:00:00  
 Traffic Data  
 Total Traffic = 3026 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	52.3	185	54.8	187	56.9	67	57.6	11	46.6
Cat2	83	54.4	197	56.7	203	58.3	131	58.5	137	50.3
Cat3	4	57.1	31	59.9	18	58.4	0	.0	4	53.9
Cat4	4	61.9	11	60.9	7	62.1	1	53.7	2	45.4
Cat5	0	.0	2	67.0	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	139	63.6	130	59.9	170	61.2	81	58.1	24	46.3
Cat2	269	64.4	309	60.9	234	61.2	143	60.2	35	47.2
Cat3	15	61.9	22	60.8	15	62.2	8	62.6	1	43.5
Cat4	8	64.1	25	65.3	8	62.9	1	65.6	0	.0
Cat5	3	69.8	0	.0	0	.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1		Spd.	CAT 2		Spd.	CAT 3		Spd.	CAT 4		Spd.	CAT 5	
	Total	%		Total	%		Total	%		Total	%		Total	%
57.8	1095	36.2	59.0	1741	57.5	60.1	118	3.9	62.8	67	2.2	68.7	5	.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.468+/-	1.202 mph	37	N VA 102'	.387+/-	2.289 mph
12	N Dasibi CO	2.630+/-	.337 ppm	38	S BOT PER	.790+/-	.551 mph
13	N TOP PAR	.472+/-	.632 mph	39	N VA 74'	.130+/-	.518 mph
14	N Dasibi O3	.012+/-	.001 ppm	40	S BOT PAR	.160+/-	.144 mph
15	N TOP VER	.176+/-	.555 mph	41	N GND PER	.858+/-	.882 mph
16	N NOX/TECO	.226+/-	.040 ppm	42	S BOT VER	.282+/-	.355 mph
17	N BOT PER	1.788+/-	.983 mph	43	N GND PAR	.814+/-	.388 mph
19	N BOT PAR	.189+/-	.549 ppm	45	N GND VER	.190+/-	.346 mph
20	N NO2/TECO	.040+/-	.005 ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.134+/-	.430 mph	50	S TOP PER	1.166+/-	.844 mph
22	N NO/TECO	.185+/-	.040 ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	5.025+/-	1.438 mph	52	S TOP PAR	.234+/-	.373 mph
24	N THC/Byron	4.067+/-	.186 ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	184.367+/-	8.532 DEGR A2	54	S TOP VER	.143+/-	.285 mph
26	N NMHC/Byro	3.822+/-	.377 ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	65.868+/-	3.108 DEGR F	56	S GND PER	.158+/-	.154 mph
28	N CH4/Byron	2.360+/-	.127 ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	174.254+/-	12.155 DEGR A2	58	S GND PAR	.131+/-	.077 mph
30	N CO/Byron	2.848+/-	.595 ppm	59	N Re1 Hum	88.829+/-	.568 %
31	N 74' Temp	67.110+/-	3.960 DEGR F	60	S GND VER	.128+/-	.100 mph
32	N CO2/Byron	467.568+/-	24.160 ppm	61	N Solar Rad	8.902+/-	6.283 W/m**2
35	N HA 74'	3.005+/-	4.098 mph	64	S VA 55'	.294+/-	.347 mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	2.67+/- 1.17	192.4+/- 16.8	6.0+/- 16.1		
02	17 19 21	1.94+/- .97	186.4+/- 21.0	7.2+/- 16.3		
03	38 40 42	.96+/- .53	186.3+/- 20.2	20.3+/- 21.6		
04	41 43 45	1.59+/- .89	139.0+/- 43.2	9.9+/- 20.3		
05	50 52 54	1.30+/- .83	197.7+/- 22.6	13.1+/- 19.5		
06	56 58 60	.28+/- .15	222.5+/- 22.7	31.0+/- 19.5		

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	08:00:00	1095 vehicles
02	08:00:00	1201 vehicles
03	08:00:00	1358 vehicles
04	08:00:00	1564 vehicles
05	08:00:00	1344 vehicles
06	17:00:00	1482 vehicles
07	08:00:00	1182 vehicles
08	08:00:00	1071 vehicles
09	17:00:00	632 vehicles
10	17:00:00	559 vehicles
11	15:00:00	2.848 mph
12	08:00:00	6.277 ppm
13	12:00:00	7.174 ppm
14	15:00:00	.022 ppm
15	12:00:00	.560 ppm
16	08:00:00	.426 ppm
17	15:00:00	2.971 ppm
18	12:00:00	6.347 ppm
20	22:00:00	.040 ppm
21	12:00:00	.527 ppm
22	08:00:00	.423 ppm
23	12:00:00	10.340 ppm
24	21:00:00	5.670 ppm
25	09:00:00	291.284 DEGR AZ
26	21:00:00	5.369 ppm
27	15:00:00	79.336 DEGR F
28	21:00:00	2.950 ppm
29	09:00:00	281.530 DEGR AZ
30	20:00:00	5.593 ppm
31	16:00:00	75.532 DEGR F
32	08:00:00	775.729 ppm
35	12:00:00	9.968 mph
37	15:00:00	.576 mph
38	13:00:00	1.480 mph
39	08:00:00	.298 mph
40	12:00:00	3.492 mph
41	15:00:00	2.299 mph
42	10:00:00	.367 mph
43	12:00:00	4.544 mph
45	14:00:00	.342 mph
49	09:00:00	5.407 ppm
50	13:00:00	2.048 ppm
51	20:00:00	5.197 ppm
52	12:00:00	5.009 ppm
53	20:00:00	7.863 ppm
54	09:00:00	.351 ppm
55	20:00:00	8.038 ppm
56	13:00:00	.773 ppm
57	08:00:00	7.958 ppm
58	12:00:00	1.641 ppm
59	08:00:00	88.997 %
60	15:00:00	.246 ppm
61	12:00:00	528.332 W/m**2
64	09:00:00	.305 ppm

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 11, 1984  
 06:04:23 -- 12/11/84  
 06:04:24 -- Data run of 12/11/84. Operators are Michael Hlavinka and Guy Donaldson. Me  
 06:04:25 -- t conditions--southerly winds with ground fog. (Fog is now beginning to lift Slow  
 06:04:26 -- 1y.) This is the 17th file of tape ZK1320.  
 06:04:34 -- TURNING ON NOX, BYRON, AND DASIBI CO  
 06:05:30 -- WILL NOT NEED TO MULTIPLY CO2 READINGS BY 2.0 TODAY. HAVE CHANGED 'SYSTEM.DAT'  
 06:06:42 -- READ ALL ECOLYZER ZEROS  
 06:08:02 -- BEGIN CALIBRATION OF NCD-5 CH 57  
 06:15:23 -- END CAL. NCD-5 GRD  
 06:15:41 -- BEGIN CAL. NCD-4  
 06:22:00 -- END CAL. NCD-4 GRD  
 06:22:21 -- BEGIN CAL. NCD-3 GRD  
 06:30:29 -- END CAL. NCD-3 GRD  
 06:30:42 -- BEGIN CAL. NCD-2 GRD  
 06:37:32 -- END CAL. NCD-2 GRD  
 06:37:47 -- BEGIN CAL. NCD-1 GRD  
 06:48:50 -- END CAL. NCD-1 GRD

Average for 15 minute period ending at 06:15:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	N GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rot Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.66+/- .79	107.1+/- 20.9	11.7+/- 18.9
02	17 19 21	2.22+/- .86	104.6+/- 14.0	8.9+/- 8.7
03	38 40 42	.35+/- .15	231.0+/- 28.7	38.6+/- 31.7
04	41 43 45	3.45+/- 1.04	108.4+/- 15.0	6.4+/- 9.0
05	50 52 54	.60+/- .28	112.7+/- 28.7	20.6+/- 15.4
06	56 58 60	.25+/- .06	219.4+/- 16.8	33.4+/- 17.2

Average for 15 minute period ending at 06:30:00  
 Traffic Data  
 Total Traffic = 1983 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	55.4	103	52.4	80	54.8	38	56.8	5	51.6
Cat2	133	57.8	148	54.9	153	55.9	159	57.5	87	51.3
Cat3	25	57.6	24	55.2	23	53.0	6	53.3	3	58.7
Cat4	11	60.8	5	58.5	10	57.4	6	56.7	0	.0
Cat5	10	62.2	2	60.2	0	.0	1	63.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	63.3	59	59.2	62	60.2	60	59.5	6	49.3
Cat2	124	66.7	146	61.5	107	60.5	136	60.7	24	49.6
Cat3	16	66.0	27	61.2	19	58.2	6	62.0	0	.0
Cat4	11	65.0	12	59.1	15	59.6	3	61.2	0	.0
Cat5	4	67.8	4	62.6	5	63.8	1	63.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.9	540	27.2	58.6	1195	60.3	58.0	147	7.4	60.0	74	3.7	63.3	27	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.904+/-	1.033	37	N VA 102'	.129+/-	1.040
12	N Dasibi CO	3.846+/-	.393	38	S BOT PER	.125+/-	.088
13	N TOP PAR	-1.199+/-	.895	39	N VA 74'	.099+/-	.434
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	.139+/-	.097
15	N TOP VER	.224+/-	.600	41	N GND PER	.674+/-	1.207
16	N NOX/TECO	.344+/-	.068	42	S BOT VER	.248+/-	.215
17	N BOT PER	.681+/-	.790	43	N GND PAR	-1.660+/-	1.544
19	N BOT PAR	-1.432+/-	.873	45	N GND VER	.238+/-	.467
20	N ND2/TECO	.016+/-	.007	49	N Ecolyzer-1	*****+/-*****	ppm

21	N BOT VER	.234+/-	.451	mph	50	S TOP PER	.142+/-	.156	mph
22	N NO/TECO	.330+/-	.068	ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	3.249+/-	1.205	ppm	52	S TOP PAR	.077+/-	.275	ppm
24	N THC/Byron	5.445+/-	.870	ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	163.653+/-	15.202	DEGR AZ	54	S TOP VER	.148+/-	.097	ppm
26	N NMHC/Byro	4.205+/-	.439	ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	64.843+/-	2.535	DEGR F	56	S GND PER	.149+/-	.058	ppm
28	N CH4/Byron	2.843+/-	.546	ppm	57	N EcoLyzer-5	5.539+/-	1.382	ppm
29	N WV 74'	141.179+/-	21.640	DEGR AZ	58	S GND PAR	.123+/-	.064	ppm
30	N CO/Byron	3.275+/-	.393	ppm	59	N Rel Hum	86.843+/-	.985	%
31	N 74' Temp	63.201+/-	3.447	DEGR F	60	S GND VER	.130+/-	.066	ppm
32	N CO2/Byron	471.910+/-	7.280	ppm	61	N Solar Rad	8.629+/-	4.487	W/m**2
35	N HA 74'	2.635+/-	2.428	mph	64	S VA 55'	.143+/-	.114	ppm

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.95+/-	.85	123.3+/-	32.8	6.5+/-	22.6
02	17	19	21	1.84+/-	.88	113.1+/-	28.4	7.7+/-	17.0
03	38	40	42	.37+/-	.18	225.9+/-	28.6	40.6+/-	30.8
04	41	43	45	2.25+/-	1.50	110.3+/-	43.9	7.1+/-	20.6
05	50	52	54	.34+/-	.20	181.7+/-	47.4	32.0+/-	21.8
06	56	58	60	.25+/-	.06	219.5+/-	18.6	32.5+/-	15.7

Average for 15 minute period ending at 06:45:00  
 Traffic Data  
 Total Traffic = 2385 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	56.3	102	51.8	92	54.2	37	56.7	8	48.2
Cat2	149	58.9	159	54.6	183	55.8	176	57.0	77	51.2
Cat3	26	60.6	30	58.9	29	58.0	14	54.4	3	45.9
Cat4	17	63.0	7	63.5	13	55.8	10	57.1	0	.0
Cat5	11	61.9	2	62.8	2	51.8	3	55.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	63.3	69	58.4	74	59.6	66	58.2	15	46.9
Cat2	175	55.5	191	60.4	160	60.1	182	60.4	33	49.0
Cat3	13	65.5	27	60.9	23	59.9	16	59.5	0	.0
Cat4	8	66.0	15	61.1	14	59.8	4	56.0	0	.0
Cat5	0	.0	5	62.4	5	62.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	604	25.3	58.5	1485	62.2	59.1	181	7.6	60.4	88	3.7	60.7	28	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.902+/-	.691	37	N VA 102'	.301+/-	.884
12	N Dasibi CO	4.666+/-	.521	38	S BOT PER	.141+/-	.089
13	N TOP PAR	-1.408+/-	1.054	39	N VA 74'	.180+/-	.405
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.149+/-	.161
15	N TOP VER	.259+/-	.711	41	N GND PER	1.324+/-	1.210
16	N NOX/TECO	.421+/-	.058	42	S BOT VER	.168+/-	.219
17	N BOT PER	.911+/-	.582	43	N GND PAR	-3.144+/-	1.418
19	N BOT PAR	-2.175+/-	.910	45	N GND VER	.300+/-	.521
20	N NO2/TECO	.013+/-	.006	49	N EcoLyzer-1	*****+/-*****	
21	N BOT VER	.372+/-	.559	50	S TOP PER	.137+/-	.084
22	N NO/TECO	.412+/-	.061	51	N EcoLyzer-2	*****+/-*****	
23	N HA 102'	3.555+/-	.944	52	S TOP PAR	.595+/-	.323
24	N THC/Byron	4.872+/-	.732	53	N EcoLyzer-3	5.508+/-	1.741
25	N WV 102'	162.532+/-	10.899	54	S TOP VER	.184+/-	.105
26	N NMHC/Byro	3.833+/-	.798	55	N EcoLyzer-4	6.802+/-	1.100
27	N Gnd Temp	68.093+/-	2.240	56	S GND PER	.186+/-	.109
28	N CH4/Byron	3.241+/-	1.012	57	N EcoLyzer-5	5.795+/-	1.005
29	N WV 74'	145.505+/-	17.132	58	S GND PAR	.123+/-	.061
30	N CO/Byron	3.781+/-	.553	59	N Rel Hum	86.680+/-	.826
31	N 74' Temp	63.201+/-	2.985	60	S GND VER	.138+/-	.078
32	N CO2/Byron	485.589+/-	16.802	61	N Solar Rad	6.948+/-	2.846
35	N HA 74'	2.509+/-	1.996	64	S VA 55'	.152+/-	.086

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.98+/-	1.01	126.7+/-	27.9	7.0+/-	24.3
02	17	19	21	2.52+/-	.90	114.5+/-	18.6	8.0+/-	11.6
03	38	40	42	.34+/-	.14	224.9+/-	27.2	29.5+/-	33.2
04	41	43	45	3.63+/-	1.52	111.6+/-	20.3	4.5+/-	10.2
05	50	52	54	.68+/-	.29	106.8+/-	19.4	17.6+/-	14.2
06	56	58	60	.27+/-	.10	218.1+/-	18.2	32.8+/-	17.7

Average for 15 minute period ending at 07:00:00  
 Traffic Data  
 Total Traffic = 2436 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	56.9	116	54.3	100	56.6	52	57.5	11	50.9
Cat2	123	60.3	163	56.3	151	57.8	170	59.3	100	51.0
Cat3	33	61.0	32	60.1	21	56.6	20	60.0	9	51.9
Cat4	16	66.0	12	58.8	12	57.6	12	59.3	2	50.3
Cat5	7	66.0	3	59.8	3	57.0	1	66.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	64.7	82	58.8	85	59.5	91	58.5	20	47.4
Cat2	137	68.4	200	61.4	147	59.9	182	60.3	33	50.2
Cat3	20	66.7	30	60.7	30	58.9	14	64.1	0	.0
Cat4	11	68.3	10	59.4	20	62.2	2	56.0	0	.0
Cat5	1	65.4	2	63.8	2	65.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	705	28.9	59.3	1406	57.7	60.4	209	8.6	61.5	97	4.0	63.3	19	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.676+/-	.646	37	N VA 102'	.404+/-	1.092

12	N Dasib1 CO	5.182+/-	.552	ppm	38	S BOT PER	.138+/-	.085	mph
13	N TOP PAR	-2.164+/-	.962	mph	39	N VA 74'	.285+/-	.507	mph
14	N Dasib1 D3	.015+/-	.002	ppm	40	S BOT PAR	.132+/-	.096	mph
15	N TOP VER	.433+/-	.643	mph	41	N GND PER	.623+/-	1.198	mph
16	N ND1/TECO	.818+/-	.054	ppm	42	S BOT VER	.181+/-	1.177	mph
17	N BOT PER	.825+/-	.871	mph	43	N GND PAR	-2.242+/-	1.298	mph
18	N BOT PAR	-2.226+/-	.871	ppm	45	N GND VER	.204+/-	.510	mph
20	N ND2/TECO	.018+/-	.006	ppm	48	N Ecolyzer-1	3.651+/-	1.303	ppm
21	N BOT VER	.397+/-	.472	mph	50	S TOP PER	.130+/-	.075	ppm
22	N ND/TECO	.406+/-	.058	ppm	51	N Ecolyzer-2	4.567+/-	1.288	ppm
23	N HA 102'	2.897+/-	.845	mph	52	S TOP PAR	-.829+/-	.377	ppm
24	N THC/Byron	5.079+/-	.319	ppm	53	N Ecolyzer-3	7.170+/-	1.235	ppm
25	N WV 102'	152.414+/-	14.682	DEGR AZ	54	S TOP VER	.173+/-	.141	ppm
26	N NMHC/Byro	4.362+/-	.473	ppm	55	N Ecolyzer-4	7.727+/-	.882	ppm
27	N Gnd Temp	66.458+/-	3.258	DEGR F	56	S GND PER	.143+/-	.056	ppm
28	N CH4/Byron	2.736+/-	.314	ppm	57	N Ecolyzer-5	6.406+/-	.858	ppm
29	N WV 74'	124.888+/-	19.789	DEGR AZ	58	S GND PAR	.134+/-	.056	ppm
30	N CO/Byron	3.410+/-	.453	ppm	59	N Rel Hum	86.784+/-	.475	mph
31	N 74' Temp	62.811+/-	2.590	DEGR F	60	S GND VER	.125+/-	.068	mph
32	N CO2/Byron	525.810+/-	16.860	ppm	61	N Solar Rad	8.175+/-	3.696	W/m**2
35	N HA 74'	2.657+/-	1.852	mph	64	S VA 55'	.161+/-	.121	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.49+/- .93	108.1+/- 17.7	10.8+/- 17.0
02	17 19 21	2.48+/- .87	105.0+/- 17.0	9.4+/- 12.1
03	38 40 42	.33+/- .11	222.2+/- 28.4	33.5+/- 30.7
04	41 43 45	2.65+/- 1.33	102.2+/- 29.3	5.4+/- 14.2
05	50 52 54	.88+/- .35	102.9+/- 20.7	13.8+/- 12.2
06	56 58 60	.25+/- .06	222.9+/- 16.6	31.2+/- 15.2

Average for hourly period ending at 07:00:00  
Traffic Data  
 Total Traffic = 7825 vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	266	56.3	346	52.9	330	55.2	148	57.3	26	50.3
Cat2	478	58.8	581	55.2	562	56.6	582	58.0	278	51.3
Cat3	99	59.8	112	57.9	88	55.8	46	57.5	18	51.3
Cat4	47	63.5	31	60.3	35	56.9	30	58.0	2	50.3
Cat5	31	63.0	9	60.4	5	54.8	6	58.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	200	64.0	242	59.0	252	58.7	240	58.9	43	47.6
Cat2	503	66.5	618	61.4	478	60.4	582	60.6	102	49.2
Cat3	49	66.2	94	61.0	81	59.4	39	61.8	0	.0
Cat4	32	68.8	41	60.3	55	61.1	9	57.7	0	.0
Cat5	5	67.3	11	62.7	12	63.5	1	63.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	2093	26.7	58.9	4744	60.6	59.2	626	8.0	60.9	282	3.6	62.2	80	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.747+/-	.773	37	N VA 102'	.256+/-	.895
12	N Dasib1 CO	4.353+/-	.813	38	S BOT PER	.131+/-	.086
13	N TOP PAR	-1.580+/-	1.014	39	N VA 74'	.193+/-	.442
14	N Dasib1 D3	.014+/-	.002	40	S BOT PAR	.142+/-	.099
15	N TOP VER	.311+/-	.629	41	N GND PER	.911+/-	1.191
16	N ND1/TECO	.386+/-	.089	42	S BOT VER	.204+/-	.210
17	N BOT PER	.699+/-	.667	43	N GND PAR	-2.492+/-	1.488
18	N BOT PAR	-1.964+/-	.933	45	N GND VER	.269+/-	.504
20	N ND2/TECO	.015+/-	.006	48	N Ecolyzer-1	*****	*****
21	N BOT VER	.336+/-	.477	50	S TOP PER	.142+/-	.124
22	N ND/TECO	.373+/-	.072	51	N Ecolyzer-2	*****	*****
23	N HA 102'	3.186+/-	.999	52	S TOP PAR	-.499+/-	.430
24	N THC/Byron	4.955+/-	.761	53	N Ecolyzer-3	*****	*****
25	N WV 102'	158.406+/-	13.530	54	S TOP VER	.164+/-	.112
26	N NMHC/Byro	4.099+/-	.611	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	65.891+/-	2.654	56	S GND PER	.151+/-	.074
28	N CH4/Byron	2.920+/-	.647	57	N Ecolyzer-5	*****	*****
29	N WV 74'	136.657+/-	19.806	58	S GND PAR	.126+/-	.061
30	N CO/Byron	3.234+/-	.753	59	N Rel Hum	86.734+/-	.850
31	N 74' Temp	62.785+/-	3.201	60	S GND VER	.133+/-	.072
32	N CO2/Byron	490.074+/-	26.401	61	N Solar Rad	7.952+/-	4.152
35	N HA 74'	2.549+/-	2.077	64	S VA 55'	.149+/-	.101

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.05+/- .95	116.6+/- 27.1	8.7+/- 21.1
02	17 19 21	2.27+/- .92	109.6+/- 20.7	8.5+/- 13.0
03	38 40 42	.35+/- .14	225.6+/- 28.2	34.9+/- 31.8
04	41 43 45	2.96+/- 1.49	108.1+/- 31.1	5.8+/- 14.6
05	50 52 54	.63+/- .35	118.4+/- 39.4	21.0+/- 17.8
06	56 58 60	.26+/- .07	220.1+/- 17.7	32.3+/- 16.7

07:56:09 -- ADJUSTED RANGE (TURNED DOWNSLIGHTLY) ON RADAR CH 9 GRD  
 Average for 15 minute period ending at 07:15:00  
 Traffic Data  
 Total Traffic = 2513 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	58.2	66	53.4	94	56.8	46	58.3	12	51.8
Cat2	124	60.3	197	55.6	174	58.8	174	59.8	76	52.6
Cat3	30	61.9	38	60.9	26	56.8	12	58.0	5	52.2
Cat4	16	68.8	11	64.0	8	61.1	14	62.5	3	49.9
Cat5	8	63.9	1	62.5	1	54.6	3	66.8	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	63.5	64	58.4	110	58.4	94	57.5	29	47.1
Cat2	162	64.3	231	59.6	161	58.6	180	59.0	36	47.3
Cat3	9	65.2	35	60.0	32	59.6	14	58.5	3	47.6
Cat4	13	66.5	14	61.4	22	61.0	2	60.4	0	0
Cat5	2	72.3	8	62.9	6	62.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	662	26.3	58.8	1515	60.3	58.7	204	8.1	62.8	103	4.1	63.8	29	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.360+/-	434	37	N VA 102'	.231+/-	.604
12	N Dasibi CO	4.209+/-	.714	38	S BDT PER	.158+/-	.100
13	N TOP PAR	-2.201+/-	.646	39	N VA 74'	-.217+/-	.302
14	N Dasibi O3	.014+/-	.002	40	S BDT PAR	.147+/-	.088
15	N TOP VER	.279+/-	.507	41	N GND PER	.087+/-	.895
16	N NOX/TECO	.300+/-	.049	42	S BDT VER	.161+/-	.095
17	N BDT PER	.258+/-	.543	43	N GND PAR	-.482+/-	.522
19	N BDT PAR	-1.777+/-	.531	45	N GND VER	.205+/-	.215
20	N NO2/TECO	.017+/-	.005	49	N Ecolyzer-1	5.136+/-	1.171
21	N BDT VER	.238+/-	.232	50	S TOP PER	.134+/-	.057
22	N NO/TECO	.285+/-	.050	51	N Ecolyzer-2	6.215+/-	.961
23	N HA 102'	2.757+/-	.617	52	S TOP PAR	-1.002+/-	.426
24	N THC/Byron	5.590+/-	.334	53	N Ecolyzer-3	7.623+/-	.792
25	N WV 102'	125.705+/-	14.662	54	S TOP VER	.159+/-	.077
26	N NMHC/Byro	4.734+/-	.596	55	N Ecolyzer-4	7.716+/-	.668
27	N Gnd Temp	64.061+/-	2.741	56	S GND PER	.158+/-	.106
28	N CH4/Byron	3.270+/-	.163	57	N Ecolyzer-5	5.204+/-	1.245
29	N WV 74'	107.830+/-	15.482	58	S GND PAR	.135+/-	.048
30	N CO/Byron	4.232+/-	.554	59	N Rel Hum	86.631+/-	.253
31	N 74' Temp	64.426+/-	3.372	60	S GND VER	.123+/-	.053
32	N CO2/Byron	498.987+/-	17.709	61	N Solar Rad	7.039+/-	2.596
35	N HA 74'	2.808+/-	1.211	64	S VA 55'	.140+/-	.051

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.35+/- .62	99.8+/- 13.2	6.8+/- 12.9
02	17 19 21	1.90+/- .55	96.1+/- 15.9	7.7+/- 8.0
03	38 40 42	.29+/- .11	223.0+/- 18.4	34.8+/- 17.7
04	41 43 45	1.08+/- .68	78.8+/- 51.2	15.2+/- 18.6
05	50 52 54	1.03+/- .41	99.6+/- 8.7	11.1+/- 8.4
06	56 58 60	.26+/- .10	222.8+/- 15.2	31.6+/- 12.8

Average for 15 minute period ending at 07:30:00  
 Traffic Data  
 Total Traffic = 2824 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	58.4	22	53.4	113	56.7	55	57.8	22	52.5
Cat2	127	60.2	248	56.0	185	57.9	188	59.1	98	51.0
Cat3	25	61.8	31	60.1	22	58.0	27	58.3	5	48.4
Cat4	14	65.4	33	62.8	18	59.0	12	60.7	3	50.1
Cat5	8	68.0	4	64.3	1	54.6	3	59.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	62.6	90	58.0	116	57.8	96	57.5	24	48.0
Cat2	182	64.0	254	59.1	192	58.0	202	58.5	49	49.0
Cat3	20	65.7	38	60.7	35	57.7	12	56.1	1	48.4
Cat4	8	68.5	22	60.9	23	61.1	3	58.5	0	0
Cat5	1	67.4	4	59.7	7	61.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	718	25.4	58.2	1726	61.1	59.6	216	7.6	61.7	136	4.8	63.2	28	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.645+/-	.699	37	N VA 102'	.206+/-	.636
12	N Dasibi CO	5.638+/-	.787	38	S BDT PER	.208+/-	.225
13	N TOP PAR	-2.345+/-	.920	39	N VA 74'	.304+/-	.479
14	N Dasibi O3	.015+/-	.002	40	S BDT PAR	.152+/-	.073
15	N TOP VER	.442+/-	.607	41	N GND PER	1.104+/-	1.242
16	N NOX/TECO	.437+/-	.076	42	S BDT VER	.194+/-	.124
17	N BDT PER	.754+/-	.629	43	N GND PAR	-2.844+/-	1.627
19	N BDT PAR	-2.375+/-	.931	45	N GND VER	.310+/-	.417
20	N NO2/TECO	.012+/-	.009	49	N Ecolyzer-1	4.685+/-	1.114
21	N BDT VER	.400+/-	.475	50	S TOP PER	.140+/-	.065
22	N NO/TECO	.433+/-	.081	51	N Ecolyzer-2	5.366+/-	1.356
23	N HA 102'	3.652+/-	.712	52	S TOP PAR	-1.087+/-	.410
24	N THC/Byron	5.269+/-	.298	53	N Ecolyzer-3	7.025+/-	1.316
25	N WV 102'	123.935+/-	10.535	54	S TOP VER	.171+/-	.094
26	N NMHC/Byro	4.001+/-	.319	55	N Ecolyzer-4	7.900+/-	1.055
27	N Gnd Temp	64.322+/-	2.522	56	S GND PER	.153+/-	.053
28	N CH4/Byron	3.084+/-	.059	57	N Ecolyzer-5	6.798+/-	1.329
29	N WV 74'	116.474+/-	15.161	58	S GND PAR	.129+/-	.055
30	N CO/Byron	4.019+/-	1.116	59	N Rel Hum	86.582+/-	.303
31	N 74' Temp	62.680+/-	2.319	60	S GND VER	.140+/-	.063
32	N CO2/Byron	494.382+/-	9.633	61	N Solar Rad	15.578+/-	3.520
35	N HA 74'	3.334+/-	1.165	64	S VA 55'	.155+/-	.065

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	2.70+/-	.90	109.9+/-	17.4	8.8+/-	13.2
02	17	19	21	2.65+/-	.90	108.1+/-	18.2	8.6+/-	10.6
03	38	40	42	.36+/-	.21	222.3+/-	20.0	36.7+/-	19.2
04	41	43	45	3.32+/-	1.66	105.4+/-	29.4	7.1+/-	10.6
05	50	52	54	1.12+/-	.39	98.9+/-	6.8	10.6+/-	8.4
06	56	58	60	.28+/-	.06	220.5+/-	14.4	33.5+/-	13.5

Average for 15 minute period ending at 07:45:00  
Traffic Data  
 Total Traffic = 2981 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	113	68.0	28	51.3	110	55.6	54	56.9	5	52.1
Cat2	131	60.3	256	58.0	174	58.0	200	57.0	145	51.1
Cat3	23	62.7	50	58.6	37	55.0	22	56.2	3	51.8
Cat4	17	64.2	20	63.3	14	55.2	22	57.7	4	48.6
Cat5	9	65.7	14	63.8	1	58.1	8	56.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	99	63.1	86	58.0	124	57.5	72	58.1	41	47.4
Cat2	221	64.0	281	58.6	176	58.3	177	58.1	75	48.1
Cat3	13	64.4	48	59.1	33	56.8	22	58.2	3	35.4
Cat4	11	66.2	19	60.8	16	61.2	6	55.9	0	0
Cat5	1	59.3	6	61.8	12	61.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	732	24.6	57.5	1816	60.9	58.0	254	8.5	60.6	128	4.3	62.0	51	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.035+/-	.676	37	N VA 102'	.171+/-	.623
12	N Dasibi CO	6.166+/-	.817	38	S BOT PER	.139+/-	.059
13	N TOP PAR	-1.226+/-	.790	39	N VA 74'	.202+/-	.332
14	N Dasibi O3	.016+/-	.003	40	S BOT PAR	.152+/-	.070
15	N TOP VER	.331+/-	.626	41	N GND PER	1.408+/-	1.133
16	N ND/TECO	.475+/-	.049	42	S BOT VER	.212+/-	.175
17	N BOT PER	-1.102+/-	.591	43	N GND PAR	-3.187+/-	1.242
19	N BOT PAR	-1.794+/-	.972	45	N GND VER	.284+/-	.521
20	N ND2/TECO	.014+/-	.008	48	N Ecolyzer-1	4.254+/-	.510
21	N BOT VER	.344+/-	.520	50	S TOP PER	.158+/-	.244
22	N ND/TECO	.474+/-	.057	51	N Ecolyzer-2	4.474+/-	.889
23	N HA 102'	3.850+/-	.616	52	S TOP PAR	-.385+/-	.385
24	N THC/Byron	4.564+/-	.097	53	N Ecolyzer-3	6.518+/-	1.503
25	N WV 102'	136.873+/-	8.635	54	S TOP VER	.182+/-	.080
26	N NMHC/Byro	4.416+/-	.759	55	N Ecolyzer-4	7.938+/-	1.443
27	N Gnd Temp	66.458+/-	3.831	56	S GND PER	.144+/-	.050
28	N CH4/Byron	2.558+/-	.185	57	N Ecolyzer-5	7.525+/-	1.539
29	N WV 74'	133.042+/-	13.205	58	S GND PAR	.125+/-	.053
30	N CO/Byron	5.660+/-	.239	59	N Rel Hum	86.615+/-	.314
31	N 74' Temp	64.270+/-	3.540	60	S GND VER	.125+/-	.057
32	N CO2/Byron	504.967+/-	16.985	61	N Solar Rad	27.522+/-	3.236
35	N HA 74'	2.828+/-	1.162	64	S VA 55'	.163+/-	.091

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.90+/- .75	131.4+/- 25.8	11.5+/- 21.0
02	17 19 21	2.32+/- .86	124.9+/- 21.2	8.8+/- 12.6
03	38 40 42	.32+/- .14	226.6+/- 19.1	39.3+/- 20.2
04	41 43 45	3.69+/- 1.29	113.1+/- 17.2	4.4+/- 10.2
05	50 52 54	.91+/- .39	124.5+/- 32.8	27.9+/- 18.8
06	56 58 60	.24+/- .05	220.4+/- 14.9	32.4+/- 14.5

Average for 15 minute period ending at 08:00:00  
Traffic Data  
 Total Traffic = 2883 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	100	58.0	29	53.7	131	56.3	58	56.9	24	51.2
Cat2	131	60.0	274	55.9	162	58.3	208	56.9	137	51.5
Cat3	23	61.6	39	60.5	27	58.6	25	55.9	4	46.0
Cat4	22	65.3	24	63.0	14	55.1	15	57.6	4	52.0
Cat5	4	64.7	14	63.5	3	55.7	9	60.6	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	65.5	95	58.2	126	58.3	105	58.6	58	48.3
Cat2	187	67.4	206	59.7	182	58.0	137	58.8	71	48.6
Cat3	8	67.4	45	61.5	28	56.8	12	58.3	2	48.5
Cat4	9	68.3	21	61.2	15	60.6	4	56.7	1	41.9
Cat5	2	75.5	4	62.2	7	62.1	1	***	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	792	27.5	58.0	1705	59.1	59.3	213	7.4	61.0	129	4.5	63.7	44	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.113+/-	.775	37	N VA 102'	.269+/-	.629
12	N Dasibi CO	7.023+/-	.815	38	S BOT PER	.204+/-	.258
13	N TOP PAR	-1.313+/-	.912	39	N VA 74'	.177+/-	.395
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	.158+/-	.067
15	N TOP VER	.296+/-	.552	41	N GND PER	1.732+/-	1.276
16	N ND/TECO	.489+/-	.018	42	S BOT VER	.180+/-	.138
17	N BOT PER	-1.217+/-	.706	43	N GND PAR	-3.413+/-	1.473
19	N BOT PAR	-1.813+/-	.884	45	N GND VER	.263+/-	.535
20	N ND2/TECO	.017+/-	.008	48	N Ecolyzer-1	4.278+/-	.428
21	N BOT VER	.375+/-	.504	50	S TOP PER	.277+/-	.344
22	N ND/TECO	.487+/-	.025	51	N Ecolyzer-2	4.498+/-	.962
23	N HA 102'	3.766+/-	.576	52	S TOP PAR	-.564+/-	.443
24	N THC/Byron	4.862+/-	.080	53	N Ecolyzer-3	6.943+/-	1.614
25	N WV 102'	136.286+/-	7.649	54	S TOP VER	.158+/-	.043
26	N NMHC/Byro	4.854+/-	.640	55	N Ecolyzer-4	8.547+/-	1.204
27	N Gnd Temp	66.797+/-	3.000	56	S GND PER	.154+/-	.102
28	N CH4/Byron	2.418+/-	.120	57	N Ecolyzer-5	8.640+/-	1.259
29	N WV 74'	128.057+/-	13.803	58	S GND PAR	.130+/-	.053



30	N CO/Byron	5.911+/-	.432	ppm	59	N Rel Hum	86.663+/-	.359	%
31	N 74' Temp	63.853+/-	3.898	DEGR F	60	S GND VER	.141+/-	.058	mph
32	N CO2/Byron	537.372+/-	22.081	ppm	61	N Solar Rad	37.741+/-	2.182	W/m**2
35	N HA 74'	2.966+/-	1.307	mph	64	S VA 55'	.181+/-	.115	mph

UVW Vector Calculations									
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		1.98+/- .90	131.0+/- 25.2	8.5+/- 16.5		
02	17	19	21		2.42+/- .88	126.4+/- 22.0	7.8+/- 14.4		
03	38	40	42		.37+/- .28	227.8+/- 23.0	34.6+/- 20.4		
04	41	43	45		4.11+/- 1.38	117.9+/- 20.8	3.3+/- 8.8		
05	50	52	54		.72+/- .47	122.0+/- 33.1	20.8+/- 17.2		
06	56	58	60		.26+/- .09	221.9+/- 17.0	34.5+/- 13.2		

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 11201 vehicles averaging 58.2 mph

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	370	58.1	145	53.1	448	56.4	213	57.4	63	51.8
Cat2	513	60.2	975	55.9	696	57.3	770	58.1	456	51.4
Cat3	101	62.0	158	59.9	112	56.9	86	57.0	17	48.9
Cat4	69	65.4	88	63.1	54	57.3	63	58.3	14	50.2
Cat5	29	65.7	33	63.7	6	56.2	23	60.0	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	337	63.5	335	58.1	476	58.0	367	58.0	150	48.0
Cat2	762	65.1	952	59.2	711	58.2	696	58.6	231	48.3
Cat3	50	65.5	166	60.3	128	57.8	60	58.1	9	43.4
Cat4	41	67.7	76	61.1	76	61.0	14	57.3	1	41.9
Cat5	6	70.4	22	61.8	32	61.7	1	****	0	0

Vehicle Classification Summary														
CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
57.5	2904	25.9	58.1	6762	60.4	59.1	887	7.9	61.5	496	4.4	63.1	152	1.4

Regular Channels													
Channel	Instrument	Value		Units	Channel	Instrument	Value		Units				
11	N TDP PER	.838+/-	.720	mph	37	N VA 102'	.219+/-	.623	mph				
12	N Desibi CO	5.759+/-	1.262	ppm	38	S BDT PER	.177+/-	.197	mph				
13	N TDP PAR	-1.771+/-	.966	mph	39	N VA 74'	.225+/-	.385	mph				
14	N Desibi O3	.015+/-	.002	ppm	40	S BDT PAR	.152+/-	.070	mph				
15	N TDP VER	.337+/-	.577	mph	41	N GND PER	1.082+/-	1.317	mph				
16	N NOX/TECO	.426+/-	.091	ppm	42	S BDT VER	.187+/-	.137	mph				
17	N BDT PER	.833+/-	.723	mph	43	N GND PAR	-2.482+/-	1.740	mph				
19	N BDT PAR	-1.980+/-	.909	mph	45	N GND VER	.285+/-	.442	ppm				
20	N NO2/TECO	.015+/-	.008	ppm	49	N Ecolyzer-1	4.633+/-	.952	ppm				
21	N BDT VER	.339+/-	.452	mph	50	S TDP PER	.179+/-	.222	mph				
22	N NO/TECO	.420+/-	.088	ppm	51	N Ecolyzer-2	5.138+/-	1.275	ppm				
23	N HA 102'	3.508+/-	.768	mph	52	S TDP PAR	-.759+/-	.508	mph				
24	N TNC/Byron	5.121+/-	.415	ppm	53	N Ecolyzer-3	7.027+/-	1.398	ppm				
25	N WV 102'	130.766+/-	12.184	DEGR AZ	54	S TDP VER	.162+/-	.084	mph				
26	N NMHC/Byro	4.501+/-	.673	ppm	55	N Ecolyzer-4	8.025+/-	1.170	ppm				
27	N Gnd Temp	65.410+/-	3.232	DEGR F	56	S GND PER	.152+/-	.082	mph				
28	N CH4/Byron	2.833+/-	.382	ppm	57	N Ecolyzer-5	7.042+/-	1.836	ppm				
29	N WV 74'	121.403+/-	17.243	DEGR AZ	58	S GND PAR	.130+/-	.053	mph				
30	N CO/Byron	4.956+/-	1.068	ppm	59	N Rel Hum	86.623+/-	.312	%				
31	N 74' Temp	63.807+/-	3.320	DEGR F	60	S GND VER	.134+/-	.058	mph				
32	N CO2/Byron	508.427+/-	24.084	ppm	61	N Solar Rad	21.970+/-	12.085	W/m**2				
35	N HA 74'	2.984+/-	1.228	mph	64	S VA 55'	.160+/-	.085	mph				

UVW Vector Calculations									
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15		2.24+/- .86	117.5+/- 24.6	8.8+/- 16.3		
02	17	19	21		2.32+/- .85	114.2+/- 22.0	8.2+/- 11.7		
03	38	40	42		.34+/- .20	224.9+/- 20.3	36.3+/- 19.5		
04	41	43	45		3.04+/- 1.76	107.8+/- 35.8	7.5+/- 13.5		
05	50	52	54		.85+/- .48	110.0+/- 28.5	17.8+/- 15.8		
06	56	58	60		.25+/- .08	221.4+/- 15.4	33.0+/- 13.5		

08:10:26 -- BEGIN ECDLYZER RECALIBRATION  
 08:10:36 -- CAL CH 57 NCD-5  
 08:20:41 -- END CALIBRATION OF NCD-5 CH 57  
 08:20:50 -- BEGIN CALIBRATION OF CH 55 NCD-4  
 08:30:55 -- END CALIBRATION OF NCD-4 CH 55  
 08:38:04 -- END CALIBRATION OF CH 53 NCD-3  
 08:41:42 -- RESTART 1  
 08:41:43 -- 12/11/84  
 08:41:44 -- \*\*\*\*\*PROGRAM RESTART\*\*\*\*\*  
 08:43:20 -- CONTINUING ECDLYZER CALIBRATION  
 08:45:08 -- THIS IS THE 18th FILE OF ZX1320  
 08:53:29 -- BEGIN CALIBRATION OF NCD-1 CH 49  
 08:53:43 -- END CALIBRATION OF NCD-2 CH 51

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2556 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	58.3	28	53.4	112	56.4	55	58.5	23	53.2
Cat2	127	60.2	226	58.7	186	56.3	188	57.9	85	52.6
Cat3	17	61.4	55	60.1	43	55.8	25	55.2	3	51.6
Cat4	28	64.5	32	63.5	18	56.3	13	57.6	4	50.5
Cat5	7	67.4	11	63.4	1	53.1	7	56.6	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	66.1	67	60.1	96	60.1	75	58.6	46	47.8
Cat2	177	68.0	192	61.7	158	58.5	159	60.4	61	48.2
Cat3	16	67.2	28	61.9	16	60.5	12	59.9	3	38.6
Cat4	9	66.7	14	63.4	18	62.0	4	59.2	0	0
Cat5	0	0	3	65.0	5	62.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	635	24.8	59.1	1529	59.8	59.2	218	8.5	61.7	140	5.5	62.5	34	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.857+/-	.691	37	N VA 102'	.267+/-	.698
12	N Dasibi CD	6.001+/-	.499	38	S BDT PER	.141+/-	.057
13	N TOP PAR	-.684+/-	.811	39	N VA 74'	.218+/-	.387
14	N Dasibi D3	.015+/-	.001	40	S BDT PAR	.149+/-	.084
15	N TOP VER	.312+/-	.537	41	N GND PER	1.374+/-	1.083
16	N ND2/TECO	.474+/-	.033	42	S BDT VER	.228+/-	.280
17	N BDT PER	1.099+/-	.612	43	N GND VER	-2.976+/-	1.362
19	N BDT PAR	-1.263+/-	.990	45	N GND VER	.245+/-	.593
20	N ND2/TECO	.020+/-	.009	48	N Ecolyzer-1	4.615+/-	.559
21	N BDT VER	.360+/-	.502	50	S TOP PER	.108+/-	.048
22	N ND/TECO	.465+/-	.043	51	N Ecolyzer-2	4.330+/-	.866
23	N HA 102'	3.030+/-	.817	52	S TOP PAR	.082+/-	.116
24	N THC/Byron	8.776+/-	.220	53	N Ecolyzer-3	6.544+/-	1.259
25	N WV 102'	142.809+/-	11.380	54	S TOP VER	.162+/-	.107
26	N NMHC/Byro	5.001+/-	.461	55	N Ecolyzer-4	7.788+/-	1.057
27	N Gnd Temp	67.851+/-	2.296	56	S GND PER	.144+/-	.081
28	N CHA/Byron	2.400+/-	.136	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	140.019+/-	14.779	58	S GND PAR	.129+/-	.055
30	N CD/Byron	8.961+/-	.247	59	N Re1 Hum	86.729+/-	.249
31	N 74' Temp	64.113+/-	4.082	60	S GND VER	.126+/-	.053
32	N CD2/Byron	531.184+/-	7.658	61	N Solar Rad	46.057+/-	3.711
35	N HA 74'	2.439+/-	1.249	64	S VA 55'	.137+/-	.072

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	1.45+/- .78	148.8+/- 37.6	14.1+/- 26.1
02	17 19 21	1.93+/- .90	135.2+/- 25.8	10.1+/- 14.4
03	38 40 42	.35+/- .25	225.0+/- 21.0	37.9+/- 20.4
04	41 43 45	3.51+/- 1.38	114.4+/- 18.6	4.0+/- 10.6
05	50 52 54	.25+/- .10	221.2+/- 27.0	41.1+/- 17.6
06	56 58 60	.24+/- .06	222.1+/- 16.9	32.3+/- 13.1

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2591 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	58.0	44	54.5	106	56.9	60	57.5	11	52.4
Cat2	118	59.0	210	56.4	164	56.6	177	57.6	99	52.2
Cat3	24	62.0	43	59.5	37	55.0	23	58.9	8	54.5
Cat4	15	67.4	28	62.0	16	59.0	24	59.8	1	71.5
Cat5	8	71.5	13	65.1	7	58.6	8	58.0	1	75.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	67.9	82	60.2	103	60.2	84	59.2	30	48.3
Cat2	150	68.2	177	60.7	151	60.7	184	59.0	56	48.1
Cat3	14	68.3	28	61.9	32	57.9	29	58.1	1	41.2
Cat4	6	68.8	21	62.7	22	61.6	9	57.3	0	0
Cat5	3	65.5	7	68.1	14	65.7	5	77.0	1	88.4

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	656	25.3	58.7	1486	57.4	59.3	239	9.2	62.0	143	5.5	67.1	67	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	.942+/-	.759	37	N VA 102'	.240+/-	.910
12	N Dasibi CD	6.204+/-	.549	38	S BDT PER	.131+/-	.062
13	N TOP PAR	-.311+/-	.724	39	N VA 74'	.182+/-	.366
14	N Dasibi D3	.015+/-	.002	40	S BDT PAR	.147+/-	.079
15	N TOP VER	.249+/-	.518	41	N GND PER	1.406+/-	1.102
16	N ND2/TECO	.466+/-	.042	42	S BDT VER	.197+/-	.193
17	N BDT PER	1.036+/-	.679	43	N GND PAR	-2.795+/-	1.139
19	N BDT PAR	-.942+/-	.964	45	N GND VER	.215+/-	.573
20	N ND2/TECO	.024+/-	.008	49	N Ecolyzer-1	5.091+/-	.431
21	N BDT VER	.260+/-	.465	50	S TOP PER	.115+/-	.050
22	N ND/TECO	.453+/-	.050	51	N Ecolyzer-2	4.771+/-	.680
23	N HA 102'	2.920+/-	.629	52	S TOP PAR	.039+/-	.186
24	N THC/Byron	8.893+/-	.257	53	N Ecolyzer-3	6.392+/-	1.259
25	N WV 102'	147.219+/-	10.273	54	S TOP VER	.165+/-	.100

26	N NMHC/Byron	4.758+/-	.111	ppm	55	N Ecolyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	67.188+/-	2.677	DEGR F	56	S GND PER	.142+/-	.047	mph
28	N CH4/Byron	2.358+/-	.112	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	147.110+/-	19.415	DEGR AZ	58	S GND PAR	.121+/-	.048	mph
30	N CO/Byron	5.859+/-	.541	ppm	59	N Rel Hum	86.305+/-	.475	%
31	N 74' Temp	67.182+/-	4.005	DEGR F	60	S GND VER	.132+/-	.060	mph
32	N CO2/Byron	514.248+/-	13.966	ppm	61	N Solar Rad	63.446+/-	16.445	W/m <sup>2</sup>
35	N HA 74'	2.338+/-	1.430	mph	64	S VA 55'	.175+/-	.132	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	1.35+/- .76	165.8+/- 39.2	12.5+/- 26.7
02	17 19 21	1.71+/- .85	146.1+/- 33.4	10.6+/- 19.3
03	38 40 42	.31+/- .17	226.6+/- 21.3	38.5+/- 21.1
04	41 43 45	3.36+/- 1.18	115.7+/- 18.6	3.2+/- 11.7
05	50 52 54	.27+/- .12	208.9+/- 37.5	40.5+/- 19.8
06	56 58 60	.24+/- .05	220.0+/- 14.6	34.2+/- 15.0

Average for 15 minute period ending at 08:45:00  
Traffic Data  
 Total Traffic = 1816 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	57.8	44	54.7	77	58.4	39	59.9	8	54.9
Cat2	74	59.4	151	57.8	122	58.5	117	60.1	84	52.6
Cat3	16	63.1	31	61.0	19	57.5	15	60.2	6	50.9
Cat4	10	63.1	16	64.5	5	57.9	8	63.1	0	.0
Cat5	1	74.1	5	68.7	2	60.3	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	65.9	58	61.0	54	60.8	50	62.4	27	49.4
Cat2	133	67.8	137	61.8	111	62.4	141	61.1	44	50.2
Cat3	6	65.7	18	62.2	22	60.5	21	62.0	0	.0
Cat4	7	69.9	16	61.3	12	65.9	3	60.8	1	43.2
Cat5	1	68.8	1	66.8	3	66.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.3	459	25.3	60.1	1114	61.3	60.7	154	8.5	63.4	76	4.2	67.3	13	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.177+/- .746	mph	37	N VA 102'	.160+/- .725	mph
12	N Dasibi CO	5.742+/- .588	ppm	38	S BOT PER	.132+/- .067	mph
13	N TOP PAR	-.183+/- .589	mph	39	N VA 74'	.195+/- .373	mph
14	N Dasibi O3	.014+/- .002	ppm	40	S BOT PAR	.139+/- .046	mph
15	N TOP VER	.214+/- .526	mph	41	N GND PER	1.291+/- 1.150	mph
16	N NOX/TECO	.436+/- .057	ppm	42	S BOT VER	.266+/- .317	mph
17	N BOT PER	1.138+/- .651	mph	43	N GND PAR	-2.447+/- 1.207	mph
19	N BOT PAR	-.694+/- .874	mph	45	N GND VER	.320+/- .595	mph
20	N NO2/TECO	.026+/- .006	ppm	49	N Ecolyzer-1	5.378+/- .426	ppm
21	N BOT VER	.257+/- .586	mph	50	S TOP PER	.388+/- .560	mph
22	N NO/TECO	.419+/- .059	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	2.896+/- .713	mph	52	S TOP PAR	-.092+/- .431	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	159.488+/- 10.080	DEGR AZ	54	S TOP VER	.168+/- .149	mph
26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	7.724+/- 1.056	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	.140+/- .052	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	7.288+/- 1.373	ppm
29	N WV 74'	152.057+/- 19.306	DEGR AZ	58	S GND PAR	.117+/- .116	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	.119+/- .067	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	2.322+/- 1.247	mph	64	S VA 55'	.187+/- .187	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	1.48+/- .67	169.3+/- 32.2	9.2+/- 24.0
02	17 19 21	1.72+/- .86	152.1+/- 32.3	10.2+/- 22.3
03	38 40 42	.39+/- .27	225.3+/- 23.5	40.5+/- 28.6
04	41 43 45	3.01+/- 1.35	116.0+/- 22.9	6.9+/- 14.1
05	50 52 54	.64+/- .58	192.7+/- 43.7	30.6+/- 21.9
06	56 58 60	.24+/- .09	221.0+/- 19.0	31.3+/- 14.5

Average for 15 minute period ending at 09:00:00  
Traffic Data  
 Total Traffic = 2306 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	58.1	57	55.8	107	58.0	51	60.3	17	54.6
Cat2	94	59.8	156	57.6	142	58.9	132	59.8	102	53.0
Cat3	18	62.4	58	60.9	20	58.6	20	59.0	8	53.1
Cat4	10	63.8	19	64.0	10	56.9	11	61.8	2	48.5
Cat5	7	66.2	9	65.5	0	.0	3	59.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	66.2	50	59.6	79	60.6	72	59.8	20	48.8
Cat2	180	67.1	183	61.3	126	61.7	169	61.1	42	48.3
Cat3	26	67.8	24	60.5	39	61.0	18	62.2	1	45.6
Cat4	16	68.5	31	61.1	24	63.6	4	61.3	0	.0
Cat5	3	66.3	7	62.7	6	65.3	2	62.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	584	25.3	60.1	1326	57.5	61.2	232	10.1	62.7	127	5.5	64.5	37	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.099+/- 1.376	mph	37	N VA 102'	.275+/- .764	mph
12	N Dasibi CO	4.885+/- .905	ppm	38	S BOT PER	1.009+/- .778	mph
13	N TOP PAR	-.016+/- .974	mph	39	N VA 74'	.048+/- .709	mph
14	N Dasibi O3	.014+/- .003	ppm	40	S BOT PAR	.159+/- .363	mph
15	N TOP VER	.206+/- .826	mph	41	N GND PER	1.328+/- 1.163	mph
16	N NOX/TECO	.400+/- .072	ppm	42	S BOT VER	.232+/- .454	mph

17	N BOT PER	1.745+/-	1.062	mph	43	N GND PAR	-2.085+/-	1.481	mph
19	N BOT PAR	-.586+/-	1.067	mph	45	N GND VER	.254+/-	.622	mph
20	N ND2/TECO	.030+/-	.008	ppm	49	N Ecolyzer-1	*****+/-	*****	ppm
21	N BOT VER	.179+/-	.748	mph	50	S TDP PER	.706+/-	.755	mph
22	N ND/TECO	.374+/-	.077	ppm	51	N Ecolyzer-2	*****+/-	*****	ppm
23	N HA 102'	4.029+/-	1.106	mph	52	S TOP PAR	-.058+/-	.628	mph
24	N THC/Byron	4.670+/-	.428	ppm	53	N Ecolyzer-3	5.796+/-	1.539	ppm
25	N WV 102'	168.542+/-	17.847	DEGR AZ	54	S TDP VER	.268+/-	.376	ppm
26	N NMHC/Byro	4.631+/-	.169	ppm	55	N Ecolyzer-4	6.417+/-	1.414	ppm
27	N Gnd Temp	71.721+/-	2.829	DEGR F	56	S GND PER	.221+/-	.304	mph
28	N CH4/Byron	2.431+/-	.068	ppm	57	N Ecolyzer-5	6.207+/-	1.602	ppm
29	N WV 74'	163.785+/-	21.079	DEGR AZ	58	S GND PAR	.043+/-	.297	mph
30	N CO/Byron	5.828+/-	.067	ppm	59	N Rel Hum	79.710+/-	1.047	%
31	N 74' Temp	70.158+/-	2.863	DEGR F	60	S GND VER	.142+/-	.190	mph
32	N CO2/Byron	517.505+/-	9.497	ppm	61	N Solar Rad	190.248+/-	15.718	W/m <sup>2</sup> =2
35	N HA 74'	3.931+/-	1.662	mph	64	S VA 55'	.302+/-	.497	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.49+/-	1.32	180.4+/-	29.8	9.1+/-	25.1
02	17	19	21	2.29+/-	.98	159.5+/-	31.2	5.5+/-	23.2
03	38	40	42	1.19+/-	.78	199.8+/-	23.7	17.3+/-	27.9
04	41	43	45	2.85+/-	1.41	122.4+/-	30.9	5.2+/-	18.1
05	50	52	54	1.01+/-	.72	180.0+/-	41.3	21.8+/-	27.2
06	56	58	60	.38+/-	.38	214.3+/-	30.6	28.6+/-	23.6

Average for hourly period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 9265 vehicles averaging 59.5 mph

Westbound Traffic

		Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1		312	58.0	174	54.8	402	57.4	205	58.9	57	53.6
Cat 2		413	59.6	743	57.0	594	57.5	594	58.7	380	52.6
Cat 3		75	62.2	187	60.4	119	56.3	83	58.1	25	52.8
Cat 4		63	64.8	96	63.3	49	57.5	54	60.0	7	53.0
Cat 5		23	68.8	38	65.2	10	58.4	18	57.7	1	75.5

Eastbound Traffic

		Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1		191	66.5	257	59.9	332	60.4	281	59.8	123	48.4
Cat 2		640	67.8	689	61.4	546	60.9	653	60.4	203	48.7
Cat 3		62	67.5	98	61.6	109	59.9	80	60.7	5	40.5
Cat 4		36	68.4	82	61.9	76	63.0	20	59.0	1	43.2
Cat 5		7	74.9	18	65.4	28	65.1	7	73.0	1	88.4

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
58.6	2334	25.2	59.4	5455	58.9	60.0	843	9.1	62.3	466	5.2	65.4	151	1.6

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	1.273+/-	1.069	mph	37	N VA 102'	.239+/-	.781	mph
12	N Dasibi CO	5.701+/-	.842	ppm	38	S BOT PER	.364+/-	.556	mph
13	N TOP PAR	-.304+/-	.834	mph	39	N VA 74'	.160+/-	.489	mph
14	N Dasibi O3	.014+/-	.002	ppm	40	S BOT PAR	.149+/-	.199	mph
15	N TOP VER	.247+/-	.620	mph	41	N GND PER	1.352+/-	1.122	mph
16	N NOX/TECO	.444+/-	.050	ppm	42	S BOT VER	.229+/-	.325	mph
17	N BOT PER	1.260+/-	.829	mph	43	N GND PAR	-2.582+/-	1.352	mph
19	N BOT PAR	-.880+/-	1.011	mph	45	N GND VER	.256+/-	.596	mph
20	N ND2/TECO	.025+/-	.008	ppm	49	N Ecolyzer-1	4.931+/-	.604	ppm
21	N BOT VER	.270+/-	.588	mph	50	S TOP PER	-.322+/-	.524	ppm
22	N ND/TECO	.628+/-	.058	ppm	51	N Ecolyzer-2	4.510+/-	.839	ppm
23	N HA 102'	3.235+/-	.926	mph	52	S TDP PAR	-.003+/-	.412	ppm
24	N THC/Byron	4.755+/-	.312	ppm	53	N Ecolyzer-3	6.305+/-	1.390	ppm
25	N WV 102'	154.386+/-	16.508	DEGR AZ	54	S TDP VER	.192+/-	.222	ppm
26	N NMHC/Byro	4.803+/-	.306	ppm	55	N Ecolyzer-4	7.402+/-	1.365	ppm
27	N Gnd Temp	68.949+/-	3.109	DEGR F	56	S GND PER	.163+/-	.166	ppm
28	N CH4/Byron	2.394+/-	.106	ppm	57	N Ecolyzer-5	7.157+/-	1.527	ppm
29	N WV 74'	150.549+/-	20.503	DEGR AZ	58	S GND PAR	.102+/-	.169	ppm
30	N CO/Byron	6.221+/-	.594	ppm	59	N Rel Hum	84.210+/-	3.143	%
31	N 74' Temp	67.246+/-	4.235	DEGR F	60	S GND VER	.130+/-	.110	mph
32	N CO2/Byron	518.629+/-	13.585	ppm	61	N Solar Rad	102.739+/-	62.657	W/m <sup>2</sup> =2
35	N HA 74'	2.779+/-	1.571	mph	64	S VA 55'	.201+/-	.286	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	1.71+/-	1.04	166.0+/-	38.4	11.3+/-	25.6
02	17	19	21	1.92+/-	.90	147.8+/-	31.7	9.0+/-	20.1
03	38	40	42	.57+/-	.58	218.9+/-	24.6	35.2+/-	26.3
04	41	43	45	3.19+/-	1.35	117.0+/-	23.8	4.7+/-	14.0
05	50	52	54	.54+/-	.58	202.9+/-	39.7	33.7+/-	23.3
06	56	58	60	.28+/-	.21	219.4+/-	21.6	31.6+/-	17.3

Average for 15 minute period ending at 09:15:00  
Traffic Data  
Total Traffic = 2157 vehicles averaging 60.1 mph

Westbound Traffic

Table with 5 columns for Radar 1, Radar 3, Radar 5, Radar 7, and Radar 9. Each column contains 'No.' and 'Spd.' for categories Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns for Radar 2, Radar 4, Radar 6, Radar 8, and Radar 10. Each column contains 'No.' and 'Spd.' for categories Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, and CAT 5, showing Spd., Total, and %.

Regular Channels

Large table listing Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Includes various sensors like TOP PER, Desibi CO, etc.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows data for channels 01 through 06.

Average for 15 minute period ending at 09:30:00  
Traffic Data  
Total Traffic = 2022 vehicles averaging 60.1 mph

Westbound Traffic

Table with 5 columns for Radar 1, Radar 3, Radar 5, Radar 7, and Radar 9. Each column contains 'No.' and 'Spd.' for categories Cat1 through Cat5.

Eastbound Traffic

Table with 5 columns for Radar 2, Radar 4, Radar 6, Radar 8, and Radar 10. Each column contains 'No.' and 'Spd.' for categories Cat1 through Cat5.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, and CAT 5, showing Spd., Total, and %.

Regular Channels

Large table listing Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Includes various sensors like TOP PER, Desibi CD, etc.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows data for channels 01 through 06.

01	11	13	15	5.16+/-	2.14	178.0+/-	18.8	3.8+/-	12.1
02	17	19	21	4.08+/-	1.87	171.0+/-	21.9	5.2+/-	15.3
03	38	40	42	3.70+/-	1.58	178.0+/-	19.2	5.4+/-	16.1
04	41	43	45	3.22+/-	1.47	141.2+/-	28.2	3.1+/-	13.9
05	50	52	54	4.16+/-	1.66	178.4+/-	20.0	5.0+/-	14.1
06	56	58	60	2.41+/-	1.50	189.8+/-	32.8	7.1+/-	21.8

Average for 15 minute period ending at 09:45:00  
Traffic Data  
 Total Traffic = 2184 vehicles averaging 60.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	57.4	57	55.0	87	57.7	37	58.3	2	59.4
Cat2	105	59.5	189	57.1	147	58.3	138	59.6	98	51.2
Cat3	15	61.8	25	58.7	30	55.8	25	58.5	9	47.3
Cat4	13	61.5	17	62.6	8	57.8	4	57.9	5	50.4
Cat5	2	68.8	11	65.3	0	.0	4	57.6	1	48.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	66.1	58	60.5	44	61.0	47	59.8	15	49.1
Cat2	186	68.2	159	61.1	126	62.5	161	61.3	50	49.2
Cat3	26	69.6	43	62.2	31	62.6	14	59.4	3	46.5
Cat4	12	70.3	17	64.7	19	64.5	5	60.7	0	.0
Cat5	3	69.5	6	65.0	11	61.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
58.9	466	21.3	59.9	1359	62.2	60.5	221	10.1	62.8	100	4.6	63.3	38	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.248+/-	2.637	37	N VA 102'	.158+/-	1.349
12	N Dasibi CO	2.034+/-	.547	38	S BOT PER	3.330+/-	1.843
13	N TOP PAR	1.040+/-	1.589	39	N VA 74'	-.026+/-	1.391
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	.332+/-	1.615
15	N TOP VER	.165+/-	1.355	41	N GND PER	2.315+/-	1.679
16	N NDX/TECO	.211+/-	.060	42	S BOT VER	.153+/-	1.250
17	N BOT PER	4.572+/-	2.801	43	N GND PAR	-1.282+/-	1.971
19	N BOT PAR	.300+/-	1.869	45	N GND VER	.111+/-	1.085
20	N NO2/TECO	.031+/-	.005	49	N Ecolyzer-1	1.486+/-	.273
21	N BOT VER	.221+/-	1.104	50	S TOP PER	4.159+/-	2.179
22	N NO/TECO	.180+/-	.058	51	N Ecolyzer-2	1.632+/-	.321
23	N HA 102'	7.571+/-	1.942	52	S TOP PAR	.698+/-	1.772
24	N THC/Byron	2.878+/-	.195	53	N Ecolyzer-3	1.893+/-	.650
25	N WV 102'	178.374+/-	15.576	54	S TOP VER	.252+/-	1.045
26	N NMHC/Byro	3.258+/-	.181	55	N Ecolyzer-4	2.259+/-	.737
27	N Gnd Temp	75.239+/-	1.786	56	S GND PER	1.548+/-	1.392
28	N CH4/Byron	1.550+/-	.073	57	N Ecolyzer-5	2.205+/-	1.203
29	N WV 74'	170.084+/-	14.144	58	S GND PAR	-.384+/-	1.576
30	N CO/Byron	2.008+/-	.212	59	N Rel Hum	75.590+/-	.691
31	N 74' Temp	72.425+/-	2.606	60	S GND VER	-.119+/-	.713
32	N CO2/Byron	442.273+/-	12.370	61	N Solar Rad	325.406+/-	13.119
35	N HA 74'	7.645+/-	2.687	64	S VA 55'	.613+/-	1.171

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	6.69+/-	2.58	190.1+/-	14.9	3.5+/-	14.0
02	17 19 21	5.14+/-	2.72	184.5+/-	25.0	4.8+/-	17.4
03	38 40 42	3.86+/-	1.86	187.5+/-	23.0	5.4+/-	23.0
04	41 43 45	3.46+/-	1.72	152.2+/-	37.5	4.1+/-	22.4
05	50 52 54	4.70+/-	2.17	190.1+/-	23.1	5.8+/-	14.9
06	56 58 60	2.21+/-	1.63	201.0+/-	35.8	8.2+/-	26.7

Average for 15 minute period ending at 10:00:00  
Traffic Data  
 Total Traffic = 2112 vehicles averaging 59.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	58.1	49	55.3	92	58.3	38	60.1	1	48.8
Cat2	85	60.1	182	58.1	143	58.1	133	59.2	70	52.1
Cat3	24	61.8	35	61.1	24	56.9	18	60.3	10	53.0
Cat4	14	64.2	21	63.1	11	59.0	10	58.0	1	49.3
Cat5	4	63.9	10	65.6	3	54.7	4	60.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	65.6	38	58.5	60	59.8	45	59.5	15	45.2
Cat2	171	64.0	148	60.0	151	59.5	154	60.1	47	48.3
Cat3	20	66.9	41	60.3	28	59.3	18	59.3	1	40.3
Cat4	15	68.1	26	62.1	23	60.7	5	63.0	0	.0
Cat5	3	66.6	4	63.1	8	63.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
58.6	447	21.2	59.1	1264	60.8	60.2	219	10.4	62.3	126	6.0	63.3	36	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.978+/-	2.608	37	N VA 102'	.476+/-	1.414
12	N Dasibi CO	1.773+/-	.307	38	S BOT PER	3.579+/-	1.729
13	N TOP PAR	.304+/-	2.073	39	N VA 74'	.162+/-	1.400
14	N Dasibi O3	.014+/-	.003	40	S BOT PAR	-.331+/-	1.837
15	N TOP VER	.099+/-	1.105	41	N GND PER	2.408+/-	1.743
16	N NDX/TECO	.203+/-	.047	42	S BOT VER	.230+/-	1.117
17	N BOT PER	4.304+/-	2.490	43	N GND PAR	-1.756+/-	1.954
19	N BOT PAR	-.360+/-	2.021	45	N GND VER	.152+/-	.761
20	N NO2/TECO	.029+/-	.005	49	N Ecolyzer-1	1.116+/-	.263
21	N BOT VER	.222+/-	1.005	50	S TOP PER	4.591+/-	2.156
22	N NO/TECO	.174+/-	.046	51	N Ecolyzer-2	-.022+/-	1.969
23	N HA 102'	7.915+/-	2.008	52	N Ecolyzer-3	1.836+/-	.560
24	N THC/Byron	2.579+/-	.038	53	S TOP VER	2.184+/-	1.058
25	N WV 102'	177.306+/-	17.361	54	N Ecolyzer-4	1.929+/-	.562
26	N NMHC/Byro	2.855+/-	.152	55	S GND PER	1.882+/-	1.368
27	N Gnd Temp	76.984+/-	2.733	56	N Ecolyzer-5	2.018+/-	1.215
28	N CH4/Byron	1.558+/-	.059	57	S GND PAR	-.591+/-	1.591
29	N WV 74'	167.913+/-	18.494	58			

30	N CO/Byron	1.208+/-	.534	ppm	59	N Rel Hum	73.620+/-	.727	%
31	N 74' Temp	72.242+/-	2.142	DEGR F	60	S GND VER	.261+/-	.624	mph
32	N CO2/Byron	435.434+/-	15.461	ppm	61	N Solar Rad	365.009+/-	9.460	W/m**2
35	N HA 74'	7.573+/-	2.585	mph	64	S VA 55'	.557+/-	1.247	mph

UVW	Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)		
		Vector Sum (mph)					
01	11 13 15	6.47+/-	2.50	184.3+/-	21.0	4.2+/-	14.3
02	17 19 21	4.93+/-	2.35	175.8+/-	29.6	7.0+/-	18.9
03	38 40 42	4.07+/-	1.81	178.7+/-	23.4	5.4+/-	16.2
04	41 43 45	3.67+/-	1.73	145.3+/-	32.9	3.6+/-	13.9
05	50 52 54	5.11+/-	2.18	182.1+/-	23.7	5.9+/-	15.3
06	56 58 60	2.51+/-	1.56	173.3+/-	36.3	11.4+/-	22.9

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 8475 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	274	57.5	237	55.5	332	57.8	151	59.2	16	53.6
Cat2	369	59.8	691	57.6	577	58.3	503	59.4	345	51.5
Cat3	86	61.6	120	59.9	106	57.2	83	58.6	53	52.1
Cat4	49	64.5	74	63.2	36	58.6	30	58.5	12	49.0
Cat5	15	67.9	39	65.0	7	56.5	11	62.8	2	50.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	184	66.1	190	60.0	235	60.7	180	60.3	61	48.1
Cat2	725	66.8	617	61.0	544	61.5	623	61.1	194	49.2
Cat3	80	68.1	152	61.9	124	61.7	62	59.8	5	43.6
Cat4	47	68.5	73	63.2	77	63.2	20	62.4	0	0
Cat5	9	69.4	22	64.2	32	62.5	1	59.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	1860	21.9	59.8	5188	61.2	60.4	871	10.3	62.8	418	4.9	64.0	138	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.557+/-	2.499	37	N VA 102'	.323+/-	1.257
12	N Dasibi CO	2.090+/-	.452	38	S BOT PER	3.048+/-	1.706
13	N TOP PAR	385+/-	1.680	39	N VA 74'	.055+/-	1.177
14	N Dasibi O3	.013+/-	.003	40	S BOT PAR	-.024+/-	1.423
15	N TOP VER	.155+/-	1.096	41	N GND PER	2.163+/-	1.528
16	N NOX/TECO	.222+/-	.052	42	S BOT VER	-.238+/-	1.034
17	N BOT PER	4.038+/-	2.354	43	N GND PAR	-1.616+/-	1.833
19	N BOT PAR	-.226+/-	1.639	45	N GND VER	.177+/-	.847
20	N NO2/TECO	.030+/-	.006	49	N Ecolyzer-1	1.660+/-	.476
21	N BOT VER	.222+/-	.942	50	S TOP PER	3.755+/-	2.067
22	N NO/TECO	.193+/-	.051	51	N Ecolyzer-2	1.747+/-	.453
23	N HA 102'	7.260+/-	1.921	52	S TOP PAR	.133+/-	1.641
24	N THC/Byron	2.872+/-	.393	53	N Ecolyzer-3	2.198+/-	.690
25	N WV 102'	176.216+/-	15.364	54	S TOP VER	.278+/-	.967
26	N NMHC/Byro	3.090+/-	.573	55	N Ecolyzer-4	2.438+/-	.739
27	N Gnd Temp	75.398+/-	2.772	56	S GND PER	1.536+/-	1.343
28	N CH4/Byron	1.889+/-	.254	57	N Ecolyzer-5	2.530+/-	1.179
29	N WV 74'	167.398+/-	15.655	58	S GND PAR	-.194+/-	1.455
30	N CO/Byron	2.147+/-	1.187	59	N Rel Hum	76.193+/-	1.967
31	N 74' Temp	71.435+/-	2.761	60	S GND VER	.187+/-	.576
32	N CO2/Byron	454.848+/-	26.479	61	N Solar Rad	303.186+/-	48.746
35	N HA 74'	6.905+/-	2.602	64	S VA 55'	.541+/-	1.121

UVW	Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)		
		Vector Sum (mph)					
01	11 13 15	6.95+/-	2.44	184.9+/-	19.1	4.1+/-	13.8
02	17 19 21	4.50+/-	2.30	177.6+/-	26.0	6.4+/-	18.2
03	38 40 42	3.48+/-	1.80	183.4+/-	22.5	7.5+/-	20.3
04	41 43 45	3.34+/-	1.61	145.4+/-	33.7	4.0+/-	17.7
05	50 52 54	4.23+/-	2.05	183.9+/-	24.3	8.1+/-	18.1
06	56 58 60	2.06+/-	1.56	186.1+/-	35.9	11.6+/-	24.5

10:13:02 -- BEGIN ECOL. RECAL. GRD  
 10:13:15 -- BEGIN RECAL. NCO-5 GRD  
 10:20:38 -- END CALIBRATION NCO-5 CH 57  
 10:20:49 -- BEGIN CALIBRATION NCO-4 CH 55  
 10:30:48 -- END CALIBRATION CH 55 NCO-4  
 10:31:00 -- BEGIN CALIBRATION NCO-3 CH 53  
 10:40:37 -- END CAL. NCO-3 GRD  
 10:41:04 -- BEGIN CAL. NCO-2  
 10:55:52 -- END CAL. NCO-2 GRD  
 10:57:46 -- BEGIN CAL. NCO-1 GRD

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 2063 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	57.7	73	56.1	71	58.9	43	59.9	7	50.7
Cat2	93	60.5	158	58.3	154	59.2	133	60.1	74	51.5
Cat3	23	61.0	37	62.3	19	58.1	17	57.9	11	50.1
Cat4	15	64.0	19	63.8	14	60.1	9	58.1	7	48.5
Cat5	7	67.6	13	68.8	0	60.0	1	61.3	1	52.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	63.8	40	59.2	70	61.1	51	59.8	16	46.0
Cat2	159	65.7	128	60.2	129	61.0	141	60.6	51	48.4
Cat3	31	68.3	28	60.9	29	61.3	17	59.6	3	40.3
Cat4	12	66.9	20	62.5	16	60.2	3	59.1	1	44.6
Cat5	7	60.4	7	64.3	7	61.7	1	50.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	468	22.7	59.7	1220	59.1	60.8	215	10.4	61.3	116	5.6	64.5	44	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.732+/-	2.894	37	N VA 102'	.175+/-	1.645
12	N Dasibi CO	1.546+/-	.350	38	S BOT PER	4.135+/-	1.706
13	N TOP PAR	.241+/-	2.073	39	N VA 74'	-.107+/-	1.421
14	N Dasibi D3	.016+/-	.002	40	S BOT PAR	-.140+/-	1.527
15	N TOP VER	.075+/-	1.241	41	N GND PER	3.028+/-	2.068
16	N NOX/TECO	.167+/-	.051	42	S BOT VER	.161+/-	1.168
17	N BOT PER	5.714+/-	2.879	43	N GND PAR	-2.011+/-	2.299
19	N BOT PAR	-.594+/-	1.968	45	N GND VER	.120+/-	.987
20	N ND2/TECO	.024+/-	.005	49	N Ecolyzer-1	.790+/-	.204
21	N BOT VER	.022+/-	1.221	50	S TOP PER	5.869+/-	2.088
22	N ND/TECO	.143+/-	.049	51	S TOP PAR	1.012+/-	.235
23	N HA 102'	8.842+/-	2.245	52	N Ecolyzer-2	.388+/-	2.329
24	N THC/Byron	2.478+/-	.058	53	N Ecolyzer-3	1.654+/-	.525
25	N WV 102'	176.610+/-	14.674	54	S TOP VER	-.165+/-	1.061
26	N NMHC/Byro	2.705+/-	.431	55	N Ecolyzer-4	1.512+/-	.514
27	N Gnd Temp	76.098+/-	2.173	56	S GND PER	2.100+/-	1.531
28	N CH4/Byron	1.466+/-	.098	57	N Ecolyzer-5	1.742+/-	1.269
29	N WV 74'	163.369+/-	15.984	58	S GND PAR	-.540+/-	1.563
30	N CO/Byron	1.654+/-	.196	59	N Rel Hum	70.770+/-	.687
31	N 74' Temp	72.972+/-	4.200	60	S GND VER	.282+/-	.603
32	N CO2/Byron	404.494+/-	9.673	61	N Solar Rad	399.207+/-	9.808
35	N HA 74'	8.618+/-	2.703	64	S VA 55'	.487+/-	1.304

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 16	7.19+/- 2.80	181.1+/- 19.9	3.5+/- 13.8
02	17 19 21	6.25+/- 2.76	169.9+/- 21.9	1.9+/- 14.6
03	38 40 42	4.55+/- 1.74	180.1+/- 18.1	4.3+/- 16.9
04	41 43 45	4.50+/- 1.85	145.3+/- 33.4	2.5+/- 15.4
05	50 52 54	6.24+/- 2.06	185.7+/- 21.8	3.4+/- 12.2
06	56 58 60	2.68+/- 1.65	177.0+/- 33.2	10.4+/- 22.3

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 2062 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	57.1	70	55.2	79	58.2	33	60.0	8	50.3
Cat2	97	58.6	150	57.6	147	58.4	130	59.4	83	51.9
Cat3	18	61.4	40	60.8	15	58.5	19	58.7	12	48.7
Cat4	7	65.4	12	64.8	5	58.6	6	60.8	7	49.1
Cat5	8	63.4	10	66.6	2	54.6	3	58.6	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	66.1	52	60.9	62	61.0	45	60.4	18	47.5
Cat2	168	68.2	170	62.1	151	63.0	168	61.5	52	48.1
Cat3	24	68.9	20	62.7	28	62.7	11	59.3	3	48.5
Cat4	11	68.8	14	62.0	17	63.3	4	64.5	0	0
Cat5	2	74.9	7	64.6	5	69.7	1	64.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	460	22.3	60.3	1286	62.9	60.9	189	9.2	62.6	83	4.0	66.6	34	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.304+/-	3.052	37	N VA 102'	.414+/-	1.590
12	N Dasibi CO	1.168+/-	.314	38	S BOT PER	4.455+/-	2.214
13	N TOP PAR	.315+/-	2.138	39	N VA 74'	.037+/-	1.718
14	N Dasibi D3	.018+/-	.004	40	S BOT PAR	-.118+/-	2.130
15	N TOP VER	.211+/-	1.486	41	N GND PER	3.032+/-	2.140
16	N NOX/TECO	.150+/-	.042	42	S BOT VER	.391+/-	1.473
17	N BOT PER	5.998+/-	3.073	43	N GND PAR	-1.870+/-	2.361
19	N BOT PAR	-.608+/-	2.108	45	N GND VER	.234+/-	.929
20	N ND2/TECO	.024+/-	.005	49	N Ecolyzer-1	.627+/-	.233
21	N BOT VER	.142+/-	1.290	50	S TOP PER	5.493+/-	2.565
22	N ND/TECO	.125+/-	.040	51	N Ecolyzer-2	.785+/-	.303
23	N HA 102'	9.125+/-	2.499	52	S TOP PAR	.713+/-	2.022
24	N THC/Byron	2.229+/-	.133	53	N Ecolyzer-3	1.562+/-	.514
25	N WV 102'	177.430+/-	14.616	54	S TOP VER	.306+/-	1.293
26	N NMHC/Byro	2.916+/-	.270	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	77.114+/-	2.608	56	S GND PER	2.393+/-	1.750
28	N CH4/Byron	1.420+/-	.058	57	N Ecolyzer-5	*****	*****



29	N WV 74'	165.857+/-	16.398	DEGR AZ	58	S GND PAR	- .412+/-	1.859	mph
30	N CD/Byron	1.028+/-	.235	ppm	59	N Rel Hum	68.930+/-	.834	%
31	N 74' Temp	72.816+/-	2.859	DEGR F	60	S GND VER	258+/-	.855	mph
32	N CD2/Byron	413.125+/-	13.656	ppm	61	N Solar Rad	431.725+/-	12.542	W/m <sup>2</sup>
35	N HA 74'	8.822+/-	2.681	mph	64	S VA 55'	.437+/-	1.453	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.86+/-	2.79	183.9+/-	20.4	4.4+/-	16.3
02	17	19	21	6.58+/-	2.94	172.4+/-	22.5	4.3+/-	14.7
03	38	40	42	5.09+/-	2.38	181.0+/-	22.0	7.3+/-	18.9
04	41	43	45	4.44+/-	2.06	150.4+/-	34.6	4.1+/-	14.6
05	50	52	54	6.06+/-	2.51	187.4+/-	20.7	6.6+/-	16.0
06	56	58	60	3.09+/-	1.90	175.7+/-	34.2	8.7+/-	26.8

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 2095 Vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	57.8	59	55.5	94	58.4	39	60.5	4	51.1
Cat2	83	60.2	151	57.6	132	59.8	137	60.1	95	53.2
Cat3	17	58.6	31	62.2	24	58.6	22	59.1	7	51.6
Cat4	4	64.1	17	62.0	7	58.4	8	62.0	3	46.2
Cat5	10	64.5	9	66.8	1	60.7	2	61.5	1	43.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	65.6	40	60.2	61	60.6	50	59.6	26	45.5
Cat2	175	67.1	155	61.9	154	61.4	116	61.6	69	45.8
Cat3	23	67.4	40	60.7	31	60.3	22	60.5	2	42.8
Cat4	11	67.6	20	62.9	15	62.0	5	60.6	0	.0
Cat5	3	68.1	5	62.6	8	60.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	470	22.4	60.0	1277	61.0	60.5	219	10.5	62.1	90	4.3	63.6	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.515+/-	3.019	37	N VA 102'	404+/-	1.415
12	N Dasibi CD	1.369+/-	.302	38	S BDT PER	3.828+/-	1.799
13	N TOP PAR	.712+/-	2.299	39	N VA 74'	-.217+/-	1.636
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	503+/-	1.889
15	N TOP VER	.369+/-	1.441	41	N GND PER	2.431+/-	1.701
16	N ND/TECD	.158+/-	.052	42	S BDT VER	.220+/-	1.225
17	N BDT PER	5.458+/-	2.717	43	N GND PAR	-.877+/-	2.551
19	N BDT PAR	-.017+/-	2.048	45	N GND VER	.283+/-	1.029
20	N ND2/TECD	.025+/-	.005	48	N Ecolyzer-1	.481+/-	.233
21	N BDT VER	-.284+/-	1.272	50	S TDP PER	4.760+/-	2.234
22	N ND/TECD	.133+/-	.048	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.896+/-	2.383	52	S TOP PAR	.755+/-	2.102
24	N THC/Byron	2.247+/-	.037	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	182.897+/-	17.193	54	S TDP VER	.352+/-	1.108
26	N NMHC/Byro	2.739+/-	1.38	55	N Ecolyzer-4	1.645+/-	.496
27	N Gnd Temp	77.688+/-	2.763	56	S GND PER	2.049+/-	1.417
28	N CH4/Byron	1.381+/-	.044	57	N Ecolyzer-5	1.658+/-	.955
29	N WV 74'	171.650+/-	19.854	58	S GND PAR	.154+/-	1.735
30	N CD/Byron	.822+/-	.402	59	N Rel Hum	69.678+/-	.848
31	N 74' Temp	72.842+/-	2.993	60	S GND VER	.093+/-	.930
32	N CD2/Byron	439.668+/-	12.692	61	N Solar Rad	317.640+/-	135.682
35	N HA 74'	8.635+/-	2.731	64	S VA 55'	.705+/-	1.408

UVW Vector Calculations

UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.21+/-	2.74	187.8+/-	22.2	7.0+/-	18.0
02	17	19	21	6.06+/-	2.51	180.8+/-	23.4	7.5+/-	19.3
03	38	40	42	4.41+/-	1.94	186.6+/-	22.2	5.3+/-	18.8
04	41	43	45	3.81+/-	1.63	157.8+/-	41.8	5.4+/-	19.0
05	50	52	54	5.35+/-	2.30	187.6+/-	21.3	7.5+/-	16.1
06	56	58	60	2.74+/-	1.63	183.0+/-	34.6	5.1+/-	24.2

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 2124 Vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	58.4	54	55.1	96	61.3	42	59.0	5	51.2
Cat2	103	59.8	152	58.0	143	59.1	144	60.2	90	52.1
Cat3	17	62.7	35	61.7	18	58.2	18	61.4	8	53.1
Cat4	7	64.2	19	63.8	7	59.5	7	62.8	5	49.9
Cat5	2	65.6	7	67.3	0	.0	2	62.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	65.8	39	58.8	55	61.1	41	57.7	25	48.0
Cat2	188	66.5	178	60.8	132	60.6	152	60.6	67	46.8
Cat3	17	68.7	34	61.0	24	61.2	14	54.6	0	.0
Cat4	13	71.6	11	63.3	17	64.2	6	58.4	0	.0
Cat5	4	70.6	8	62.5	11	63.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	484	22.8	59.5	1329	62.6	61.0	185	8.7	63.5	82	4.3	64.8	34	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.881+/-	2.788	37	N VA 102'	.303+/-	1.405
12	N Dasibi CD	1.417+/-	.286	38	S BDT PER	3.862+/-	2.107
13	N TOP PAR	-1.315+/-	2.681	39	N VA 74'	-.138+/-	1.402
14	N Dasibi D3	.018+/-	.005	40	S BDT PAR	-.833+/-	1.888
15	N TOP VER	.288+/-	1.348	41	N GND PER	3.048+/-	1.824
16	N ND/TECD	.170+/-	.048	42	S BDT VER	2.16+/-	1.807
17	N BDT PER	5.228+/-	2.488	43	N GND PAR	-2.925+/-	2.515
19	N BDT PAR	-1.897+/-	2.422	45	N GND VER	.201+/-	.792
20	N ND2/TECD	.023+/-	.005	48	N Ecolyzer-1	.356+/-	.200

21	N BOT VER	.267+/-	1.151	mph	50	S TDP PER	4.887+/-	2.402	mph
22	N ND/TECD	.147+/-	.045	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	9.388+/-	2.286	mph	52	S TDP PAR	-1.029+/-	2.216	mph
24	N THC/Byron	2.106+/-	.057	ppm	53	N Ecolyzer-3	1.515+/-	.586	ppm
25	N WV 102'	159.288+/-	17.438	DEGR AZ	54	S TDP VER	1.136+/-	.984	ppm
26	N NMHC/Byro	2.557+/-	.101	ppm	55	N Ecolyzer-4	1.800+/-	.553	ppm
27	N Gnd Temp	76.906+/-	2.165	DEGR F	56	S GND PER	2.100+/-	1.779	ppm
28	N CH4/Byron	1.246+/-	.115	ppm	57	N Ecolyzer-5	2.105+/-	.909	ppm
29	N WV 74'	159.459+/-	19.161	DEGR AZ	58	S GND PAR	-1.115+/-	1.751	mph
30	N CO/Byron	1.016+/-	.388	ppm	59	N Re1 Hum	68.572+/-	.863	%
31	N 74' Temp	73.910+/-	2.104	DEGR F	60	S GND VER	2.23+/-	.679	mph
32	N CO2/Byron	418.499+/-	15.686	ppm	61	N Solar Rad	344.299+/-	171.201	W/m**2
35	N HA 74'	8.928+/-	2.739	mph	64	S VA 55'	.635+/-	1.089	mph

UWV Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.55+/- 2.98	173.1+/- 21.4	5.0+/- 13.4		
02	17 19 21	6.13+/- 2.59	163.6+/- 25.7	5.3+/- 15.7		
03	38 40 42	4.39+/- 2.23	171.6+/- 24.5	5.5+/- 16.2		
04	41 43 45	4.85+/- 2.15	140.4+/- 31.1	3.9+/- 14.3		
05	50 52 54	5.49+/- 2.53	171.8+/- 24.1	3.5+/- 12.6		
06	56 58 60	2.89+/- 2.01	163.9+/- 36.5	11.1+/- 22.1		

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 8344 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	226	57.8	296	55.5	340	58.4	157	59.8	24	50.8
Cat2	376	60.0	611	57.9	576	59.1	544	60.0	342	52.2
Cat3	76	61.0	143	61.7	76	58.4	76	59.3	38	50.9
Cat4	33	64.3	67	63.5	33	59.4	30	60.8	22	48.7
Cat5	23	65.4	39	67.5	3	56.7	8	60.7	2	47.8

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	144	65.4	171	59.9	248	60.9	191	59.4	85	46.8
Cat2	670	66.9	641	61.3	546	61.5	577	61.1	239	47.1
Cat3	95	68.3	122	61.2	110	61.3	64	58.8	8	44.0
Cat4	47	68.8	65	62.7	65	62.5	18	60.5	1	44.6
Cat5	16	66.2	27	63.5	31	63.3	2	79.2	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	1862	22.6	59.8	5122	61.4	60.8	808	9.7	62.3	381	4.6	64.8	151	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	6.858+/- 2.950	mph	37	N VA 102'	.324+/- 1.517	mph
12	N Desibi CO	1.375+/- .342	ppm	38	S BOT PER	4.070+/- 1.980	mph
13	N TDP PAR	-.011+/- 2.432	mph	39	N VA 74'	.002+/- 1.554	mph
14	N Desibi O3	.018+/- .004	ppm	40	S BOT PAR	-.088+/- 1.925	mph
15	N TDP VER	.230+/- 1.383	mph	41	N GND PER	2.885+/- 1.955	mph
16	N ND/TECD	.161+/- .048	ppm	42	S BOT VER	.247+/- 1.193	mph
17	N BOT PER	5.600+/- 2.802	mph	43	N GND PAR	-1.921+/- 2.539	mph
19	N BOT PAR	-.779+/- 2.247	mph	45	N GND VER	.210+/- .938	mph
20	N ND2/TECD	.024+/- .005	ppm	49	N Ecolyzer-1	.574+/- .270	ppm
21	N BOT VER	.179+/- 1.236	mph	50	S TDP PER	5.202+/- 2.358	mph
22	N ND/TECD	.137+/- .046	ppm	51	N Ecolyzer-2	.808+/- .309	ppm
23	N HA 102'	9.084+/- 2.355	mph	52	S TDP PAR	-.207+/- 2.285	ppm
24	N THC/Byron	2.285+/- .157	ppm	53	N Ecolyzer-3	1.574+/- .545	ppm
25	N WV 102'	178.564+/- 16.859	DEGR AZ	54	S TDP VER	1.240+/- 1.119	ppm
26	N NMHC/Byro	2.729+/- .281	ppm	55	N Ecolyzer-4	1.852+/- .531	ppm
27	N Gnd Temp	76.952+/- 2.447	DEGR F	56	S GND PER	2.160+/- 1.629	mph
28	N CH4/Byron	1.378+/- .116	ppm	57	N Ecolyzer-5	1.755+/- 1.039	ppm
29	N WV 74'	165.070+/- 18.378	DEGR AZ	58	S GND PAR	-.478+/- 1.784	mph
30	N CO/Byron	1.155+/- .427	ppm	59	N Re1 Hum	68.488+/- 1.130	%
31	N 74' Temp	73.135+/- 3.084	DEGR F	60	S GND VER	.214+/- .780	mph
32	N CO2/Byron	418.946+/- 18.278	ppm	61	N Solar Rad	373.218+/- 115.859	W/m**2
35	N HA 74'	8.751+/- 2.714	mph	64	S VA 55'	.566+/- 1.323	mph

UWV Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.45+/- 2.84	181.5+/- 21.8	5.0+/- 15.5		
02	17 19 21	6.25+/- 2.70	171.7+/- 24.0	4.7+/- 16.2		
03	38 40 42	4.61+/- 2.10	179.9+/- 22.5	5.6+/- 17.7		
04	41 43 45	4.40+/- 1.96	148.0+/- 35.9	4.0+/- 15.9		
05	50 52 54	5.79+/- 2.38	183.1+/- 22.8	5.3+/- 14.4		
06	56 58 60	2.85+/- 1.81	174.9+/- 35.0	9.1+/- 24.0		

11:08:39 -- END CAL. NCO-1 GRD  
 11:09:41 -- ALL ECOL BACK ON LINE SCATTERED CLOUD COVER HAS DEVELOPED COVERING APROX 2/3 -  
 11:09:49 -- 3/4 OF SKY  
 11:23:35 -- SOMETHING WRONG WITH NCO-2 (STAYS AT ZERO) WILL TAKE OFF LINE GRD  
 11:33:09 -- SPAN AND DRIFT ON NCO-2 CHECK OUT WILL PUT BACK ON LINE  
 11:38:50 -- NCO-2 STILL OFF. (NOW SHOWING NEGATIVE VALUES) WILL TAKE OFF-LINE AGAIN AND CHECK  
 11:38:51 -- VACUUM GRD  
 11:46:02 -- WILL TRY TO CAL. NCO-2 BETTER GRD  
 11:53:18 -- DISREGARD ABOVE SPAN DRIFT VALUE WILL RESPAN GRD

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 2063 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	57.3	61	55.8	110	58.0	35	60.5	8	51.4
Cat2	104	59.9	158	57.9	146	59.2	142	60.0	75	52.3
Cat3	10	59.7	40	60.0	18	56.7	23	59.1	5	51.9
Cat4	14	63.3	11	62.0	3	60.1	11	59.1	4	46.5
Cat5	3	58.1	9	64.1	0	0	1	54.4	1	50.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	65.4	44	60.2	55	61.5	41	59.1	15	51.3
Cat2	176	67.5	145	61.9	116	62.0	134	60.9	58	48.0
Cat3	21	67.5	35	61.7	33	61.9	17	57.8	3	48.9
Cat4	10	68.6	21	64.2	28	65.4	3	64.2	1	44.9
Cat5	6	71.4	10	63.9	14	67.0	1	59.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	454	22.0	60.2	1253	60.7	60.4	205	9.9	63.1	106	5.1	64.9	45	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.349+/-	3.588	37	N VA 102'	.368+/-	1.833
12	N Dasibi CO	1.146+/-	.286	38	S BOT PER	5.023+/-	2.435
13	N TOP PAR	.035+/-	2.952	39	N VA 74'	-.026+/-	1.732
14	N Dasibi D3	.020+/-	.003	40	S BOT PAR	-.148+/-	2.526
15	N TOP VER	.113+/-	1.524	41	N GND PER	3.559+/-	2.379
16	N NOX/TECO	.146+/-	.049	42	S BOT VER	.192+/-	1.208
17	N BOT PER	7.276+/-	3.169	43	N GND PAR	-1.587+/-	2.758
19	N BOT PAR	-.837+/-	2.812	45	N GND VER	-.180+/-	1.058
20	N NO2/TECO	-.022+/-	.006	48	N EcoLyzer-1	*****	*****
21	N BOT VER	.212+/-	1.344	50	S TOP PER	5.845+/-	3.211
22	N NO/TECO	.125+/-	.045	51	N EcoLyzer-2	-.584+/-	.220
23	N HA 102'	10.433+/-	3.089	52	S TOP PAR	-.038+/-	2.698
24	N THC/Byron	2.044+/-	.114	53	N EcoLyzer-3	1.390+/-	.449
25	N WV 102'	178.503+/-	17.204	54	S TOP VER	.315+/-	1.212
26	N NMHC/Byro	2.856+/-	.074	55	N EcoLyzer-4	1.384+/-	.453
27	N Gnd Temp	78.704+/-	2.402	56	S GND PER	-.589+/-	1.646
28	N CH4/Byron	1.195+/-	.064	57	N EcoLyzer-5	1.859+/-	.723
29	N WV 74'	165.543+/-	18.090	58	S GND PAR	-.589+/-	2.272
30	N CO/Byron	1.001+/-	.419	59	N Rel Hum	67.334+/-	.743
31	N 74' Temp	73.493+/-	2.719	60	S GND VER	-.265+/-	.921
32	N CO2/Byron	421.918+/-	6.940	61	N Solar Rad	504.073+/-	183.849
35	N HA 74'	10.488+/-	3.575	64	S VA 55'	.689+/-	1.525

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.00+/- 3.53	181.1+/- 20.4	2.6+/- 12.4
02	17 19 21	7.85+/- 3.19	171.3+/- 20.7	2.9+/- 12.2
03	38 40 42	5.87+/- 2.61	180.7+/- 23.7	5.2+/- 15.8
04	41 43 45	4.84+/- 2.26	157.5+/- 35.3	2.5+/- 15.9
05	50 52 54	6.53+/- 3.25	182.8+/- 24.5	8.4+/- 17.8
06	56 58 60	3.75+/- 1.91	171.0+/- 32.7	6.2+/- 16.6

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 2083 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	59.1	84	56.3	124	58.0	40	61.3	7	54.9
Cat2	84	60.1	188	58.4	139	59.5	121	60.3	87	52.8
Cat3	16	62.3	32	62.8	23	58.4	18	58.2	7	53.8
Cat4	19	64.8	14	63.4	5	55.5	8	61.3	1	51.7
Cat5	4	66.9	9	65.0	0	0	2	66.5	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	65.4	41	59.2	47	60.9	48	61.0	9	47.1
Cat2	188	68.4	147	60.9	139	61.8	133	61.4	52	48.0
Cat3	10	68.1	35	59.8	35	60.6	7	58.4	1	47.3
Cat4	16	66.2	18	63.6	26	65.0	6	59.3	2	42.7
Cat5	4	77.2	5	65.3	4	67.7	3	60.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.9	495	23.8	60.2	1258	60.4	60.5	184	8.8	63.2	115	5.5	66.8	31	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.205+/-	3.218	37	N VA 102'	.118+/-	1.788
12	N Dasibi CO	.917+/-	.212	38	S BOT PER	5.159+/-	2.409
13	N TOP PAR	.200+/-	3.082	39	N VA 74'	-.349+/-	1.888
14	N Dasibi D3	.023+/-	.004	40	S BOT PAR	-.153+/-	2.498
15	N TOP VER	-.198+/-	1.883	41	N GND PER	4.184+/-	2.451
16	N NOX/TECO	.121+/-	.040	42	S BOT VER	.286+/-	1.230
17	N BOT PER	8.684+/-	2.988	43	N GND PAR	-1.702+/-	3.155
19	N BOT PAR	-.685+/-	2.749	45	N GND VER	.780+/-	1.173
20	N NO2/TECO	-.019+/-	.005	48	N EcoLyzer-1	*****	*****
21	N BOT VER	-.018+/-	1.562	50	S TOP PER	6.832+/-	2.667
22	N NO/TECO	.102+/-	.038	51	N EcoLyzer-2	*****	*****
23	N HA 102'	12.172+/-	2.431	52	S TOP PAR	.182+/-	2.535
24	N THC/Byron	1.830+/-	.060	53	N EcoLyzer-3	1.153+/-	.346
25	N WV 102'	174.628+/-	13.349	54	S TOP VER	.283+/-	1.318
26	N NMHC/Byro	2.509+/-	.357	55	N EcoLyzer-4	1.112+/-	.338
27	N Gnd Temp	79.173+/-	2.416	56	S GND PER	3.099+/-	1.774
28	N CH4/Byron	1.169+/-	.087	57	N EcoLyzer-5	1.437+/-	.944
29	N WV 74'	165.655+/-	13.807	58	S GND PAR	-.578+/-	2.009

30	N CO/Byron	.326+/-	.101	ppm	59	N Rel Hum	67.041+/-	.831	%
31	N 74' Temp	74.509+/-	2.830	DEGR F	60	S GND VER	.344+/-	.893	mph
32	N CD2/Byron	392.444+/-	27.799	ppm	61	N Solar Rad	508.433+/-	193.052	W/m <sup>2</sup>
35	N HA 74'	12.034+/-	2.976	mph	64	S VA 55'	.887+/-	1.623	mph

UVW Vector Calculations											
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)					
01	11	13	15	10.82+/-	3.24	180.9+/-	15.5				4+/- 11.3
02	17	18	21	9.29+/-	2.95	175.3+/-	17.5				1.8+/- 11.6
03	38	40	42	5.82+/-	2.52	180.5+/-	23.9				4.3+/- 14.3
04	41	43	45	5.64+/-	2.44	180.0+/-	33.6				4.0+/- 13.9
05	50	52	54	7.43+/-	2.62	182.1+/-	20.5				4.2+/- 13.2
06	56	58	60	3.83+/-	1.83	173.4+/-	32.2				6.9+/- 17.6

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2127 vehicles averaging 59.7 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	57.7	85	56.1	96	56.4	32	60.2	8	53.3
Cat2	85	60.7	155	57.8	145	59.3	149	59.9	101	53.4
Cat3	16	61.4	42	61.7	30	57.5	18	59.4	5	52.7
Cat4	16	64.5	24	61.6	14	58.3	8	59.6	3	52.4
Cat5	3	64.8	11	65.9	1	55.8	4	68.2	0	0

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	64.9	38	59.1	55	60.8	46	60.0	20	47.1
Cat2	193	66.6	160	60.5	121	60.6	118	59.7	69	46.6
Cat3	21	66.4	34	60.6	26	60.9	12	58.0	3	49.3
Cat4	16	67.2	21	63.0	23	62.9	5	59.4	0	0
Cat5	4	70.9	5	64.0	13	64.0	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	453	21.3	59.5	1295	60.9	60.4	207	9.7	62.3	130	6.1	65.5	41	1.9

Regular Channels									
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	8.500+/-	3.431	mph	37	N VA 102'	.888+/-	2.038	mph
12	N Dasibi CO	1.305+/-	.306	ppm	38	S BOT PER	5.010+/-	2.250	mph
13	N TOP PAR	-1.481+/-	-2.812	mph	39	N VA 74'	.153+/-	1.786	mph
14	N Dasibi O3	.021+/-	.003	ppm	40	S BOT PAR	-1.802+/-	-2.481	mph
15	N TOP VER	.292+/-	1.603	mph	41	N GND PER	3.461+/-	3.337	mph
16	N NOX/TECO	.157+/-	.053	ppm	42	S BOT VER	.268+/-	1.209	mph
17	N BOT PER	7.325+/-	3.330	mph	43	N GND PAR	-2.364+/-	-2.818	mph
19	N BOT PAR	-1.150+/-	-2.586	mph	45	N GND VER	.185+/-	1.000	mph
20	N ND2/TECO	.022+/-	.006	ppm	49	N Ecolyzer-1	.828+/-	.206	ppm
21	N BOT VER	.342+/-	1.360	mph	50	S TOP PER	6.076+/-	2.479	mph
22	N ND/TECO	.146+/-	.050	ppm	51	N Ecolyzer-2	*****	*****	ppm
23	N HA 102'	10.944+/-	2.751	mph	52	S TOP PAR	-1.111+/-	-2.591	mph
24	N THC/Byron	1.907+/-	.059	ppm	53	N Ecolyzer-3	1.418+/-	.553	ppm
25	N WV 102'	174.555+/-	15.084	DEGR AZ	54	S TOP VER	.346+/-	1.181	mph
26	N NMHC/Byro	2.452+/-	.203	ppm	55	N Ecolyzer-4	1.462+/-	.581	ppm
27	N Gnd Temp	77.870+/-	2.629	DEGR F	56	S GND PER	2.814+/-	1.841	mph
28	N CH4/Byron	1.203+/-	.055	ppm	57	N Ecolyzer-5	2.246+/-	1.241	ppm
29	N WV 74'	163.582+/-	15.721	DEGR AZ	58	S GND PAR	-1.936+/-	-2.059	mph
30	N CO/Byron	.523+/-	.391	ppm	59	N Rel Hum	66.569+/-	1.068	%
31	N 74' Temp	75.217+/-	2.665	DEGR F	60	S GND VER	.302+/-	1.035	mph
32	N CD2/Byron	390.816+/-	19.843	ppm	61	N Solar Rad	305.378+/-	184.655	W/m <sup>2</sup>
35	N HA 74'	10.391+/-	3.359	mph	64	S VA 55'	.779+/-	1.470	mph

UVW Vector Calculations											
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)					
01	11	13	15	9.12+/-	3.40	176.8+/-	18.6				4.1+/- 13.0
02	17	19	21	8.01+/-	3.25	170.5+/-	20.5				4.9+/- 13.7
03	38	40	42	5.75+/-	2.27	175.2+/-	26.1				4.4+/- 14.3
04	41	43	45	5.16+/-	2.31	146.0+/-	32.9				2.6+/- 16.0
05	50	52	54	6.70+/-	2.84	179.7+/-	21.6				5.7+/- 12.4
06	56	58	60	3.71+/-	1.95	165.9+/-	34.6				7.0+/- 21.7

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2008 vehicles averaging 59.4 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	58.5	64	55.9	93	57.6	37	61.5	5	50.0
Cat2	83	60.3	143	58.6	121	58.5	148	60.2	90	53.1
Cat3	19	62.3	22	61.3	23	57.8	14	59.5	4	48.8
Cat4	6	60.3	26	60.8	9	55.0	8	63.8	4	45.8
Cat5	6	62.4	7	66.1	1	59.9	4	57.1	1	53.3

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	65.0	40	58.9	58	59.4	41	58.7	20	44.9
Cat2	186	65.8	185	60.3	140	60.5	107	60.5	63	45.8
Cat3	20	67.8	26	59.0	25	59.3	13	57.7	2	43.0
Cat4	12	68.7	18	62.5	17	60.3	6	56.1	1	44.8
Cat5	8	67.9	2	64.4	4	63.3	3	58.2	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	431	21.5	59.5	1266	63.0	60.1	168	8.4	60.7	107	5.3	63.3	36	1.8

Regular Channels									
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	8.401+/-	3.245	mph	37	N VA 102'	.590+/-	1.878	mph
12	N Dasibi CO	1.255+/-	.312	ppm	38	S BOT PER	5.478+/-	2.330	mph
13	N TOP PAR	-1.797+/-	-3.097	mph	39	N VA 74'	.205+/-	1.986	mph
14	N Dasibi O3	.021+/-	.003	ppm	40	S BOT PAR	-1.021+/-	-2.227	mph
15	N TOP VER	.352+/-	1.720	mph	41	N GND PER	3.502+/-	1.926	mph
16	N NOX/TECO	.146+/-	.046	ppm	42	S BOT VER	.261+/-	1.441	mph
17	N BOT PER	7.051+/-	2.981	mph	43	N GND PAR	-2.131+/-	-2.781	mph
19	N BOT PAR	-1.636+/-	-2.711	mph	45	N GND VER	.216+/-	1.090	mph
20	N ND2/TECO	.021+/-	.006	ppm	49	N Ecolyzer-1	.708+/-	.198	ppm
21	N BOT VER	.416+/-	1.494	mph	50	S TOP PER	6.929+/-	2.675	mph

22	N NO/TECO	.125+/-	.044	ppm	51	N Ecolyzer-2	*****-*****		ppm
23	N HA 102'	11.072+/-	2.787	mph	52	S TOP PAR	-.405+/-	2.530	mph
24	N THC/Byron	1.912+/-	.105	ppm	53	N Ecolyzer-3	1.454+/-	.447	ppm
25	N WV 102'	171.807+/-	13.758	DEGR AZ	54	S TOP VER	1.144+/-	1.271	ppm
26	N NMHC/Byro	2.166+/-	.201	ppm	55	N Ecolyzer-4	1.307+/-	.450	ppm
27	N Gnd Temp	78.600+/-	2.654	DEGR F	56	S GND PER	3.417+/-	1.858	ppm
28	N CH4/Byron	1.248+/-	.044	ppm	57	N Ecolyzer-5	2.231+/-	1.145	ppm
29	N WV 74'	163.479+/-	15.376	DEGR AZ	58	S GND PAR	-1.528+/-	2.101	ppm
30	N CO/Byron	1.194+/-	.720	ppm	59	N Rel Hum	66.341+/-	.804	%
31	N 74' Temp	74.822+/-	2.647	DEGR F	60	S GND VER	66.199+/-	.931	ppm
32	N CD2/Byron	386.419+/-	14.485	ppm	61	N Solar Rad	410.288+/-	158.812	W/m <sup>2</sup> =2
35	N HA 74'	10.604+/-	3.246	mph	64	S VA 55'	.606+/-	1.508	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (deg)	
01	11	13	15	9.11+/-	3.36	176.3+/-	19.7	4.1+/-	12.4
02	17	19	21	7.86+/-	3.02	168.4+/-	21.0	5.5+/-	13.8
03	38	40	42	6.13+/-	2.43	174.0+/-	21.9	4.2+/-	16.4
04	41	43	45	4.92+/-	2.28	152.5+/-	31.2	3.9+/-	16.2
05	50	52	54	7.48+/-	2.72	179.1+/-	19.5	2.9+/-	12.1
06	56	58	60	4.27+/-	2.16	162.2+/-	28.5	4.9+/-	18.0

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8281 vehicles averaging 59.8 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	221 58.2	274 55.7	423 58.0	144 60.9	28 52.6				
Cat2	356 60.2	624 58.2	551 59.1	560 60.1	353 52.9				
Cat3	61 61.6	136 61.4	94 57.6	73 59.0	21 52.2				
Cat4	55 63.8	75 61.7	31 57.0	35 60.8	12 48.2				
Cat5	16 63.2	36 65.3	2 57.8	11 62.6	2 51.7				

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	125 65.4	163 59.3	215 60.6	176 59.7	64 47.4				
Cat2	743 66.6	636 60.8	516 61.2	492 60.7	242 47.0				
Cat3	72 67.4	130 60.4	119 60.7	49 57.9	9 47.5				
Cat4	54 67.5	78 63.3	94 63.7	20 59.1	4 43.8				
Cat5	22 71.1	22 64.3	35 65.6	7 59.2	0 .0				

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	1833	22.1	59.8	5073	61.3	60.4	764	9.2	62.3	458	5.5	65.1	153	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.883+/-	3.450	37	N VA 102'	.436+/-	1.894
12	N DasIbi CD	1.156+/-	.319	38	S BDT PER	5.167+/-	2.360
13	N TOP PAR	-.261+/-	3.008	39	N VA 74'	-.004+/-	1.860
14	N DasIbi 03	.021+/-	.004	40	S BDT PAR	-4.81+/-	2.458
15	N TOP VER	.140+/-	1.693	41	N GND PER	3.677+/-	2.297
16	N NOX/TECO	.145+/-	.050	42	S BDT VER	.252+/-	1.273
17	N BDT PER	7.586+/-	3.180	43	N GND PAR	-1.846+/-	2.896
19	N BDT PAR	-1.104+/-	2.732	45	N GND VER	.204+/-	1.080
20	N NO2/TECO	.021+/-	.006	49	N Ecolyzer-1	.783+/-	.207
21	N BDT VER	.238+/-	1.448	50	S TOP PER	6.421+/-	2.805
22	N NO/TECO	.124+/-	.047	51	N Ecolyzer-2	*****-*****	ppm
23	N HA 102'	11.155+/-	2.840	52	S TOP PAR	-.074+/-	2.593
24	N THC/Byron	1.923+/-	.116	53	N Ecolyzer-3	1.354+/-	.470
25	N WV 102'	174.364+/-	14.986	54	S TOP VER	1.272+/-	1.246
26	N NMHC/Byro	2.446+/-	.258	55	N Ecolyzer-4	1.316+/-	.481
27	N Gnd Temp	78.587+/-	2.507	56	S GND PER	3.068+/-	1.803
28	N CH4/Byron	1.204+/-	.068	57	N Ecolyzer-5	1.943+/-	1.083
29	N WV 74'	164.564+/-	15.827	58	S GND PAR	-.908+/-	2.143
30	N CO/Byron	.761+/-	.573	59	N Rel Hum	66.821+/-	.935
31	N 74' Temp	74.535+/-	2.731	60	S GND VER	66.278+/-	.946
32	N CD2/Byron	397.889+/-	23.205	61	N Solar Rad	432.043+/-	194.808
35	N HA 74'	10.874+/-	3.358	64	S VA 55'	.740+/-	1.533

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (deg)	
01	11	13	15	9.51+/-	3.46	178.8+/-	19.0	2.8+/-	12.4
02	17	18	21	8.28+/-	3.15	171.4+/-	20.1	3.7+/-	12.9
03	38	40	42	5.84+/-	2.46	177.6+/-	24.1	4.5+/-	15.2
04	41	43	45	5.17+/-	2.34	153.9+/-	33.5	3.2+/-	15.5
05	50	52	54	7.03+/-	2.82	180.8+/-	21.6	5.3+/-	14.2
06	56	58	60	3.89+/-	1.98	168.1+/-	32.3	6.2+/-	18.6

12:08:05 -- PLACED CH 51 ONLINE SLIGHTLY EARLY.  
 12:09:43 -- BEGIN ECOLYZER CALIBRATIONS  
 12:09:53 -- BEGIN CALIBRATION OF CH 57 NCO-5  
 12:18:30 -- BEGIN CALIBRATION OF CH 55  
 12:23:18 -- WILL RESTART PROGRAM DUE TO PRINTING ERRORS.  
 12:25:26 -- RESTART 2  
 12:25:27 -- 12/11/84  
 12:25:28 -- This is a program restart. It is file 19 on tape ZX1320.  
 12:26:41 -- CONTINUING CALIBRATION OF ECOLYZERS  
 12:33:53 -- END CALIBRATION OF CH 53 NCO-3  
 12:43:24 -- END ALL ECOLYZER CALIBRATION

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 2076 vehicles averaging 59.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	57.5	62	55.7	90	57.4	53	59.4	11	55.3
Cat2	97	58.8	147	58.1	137	59.4	124	60.3	90	51.9
Cat3	18	61.6	33	60.4	22	58.1	11	60.0	7	50.7
Cat4	13	64.5	21	62.1	12	59.8	12	62.3	2	44.6
Cat5	5	63.1	10	65.0	4	57.5	0	0	1	48.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	65.4	49	58.9	55	60.8	44	60.1	23	46.1
Cat2	200	66.6	154	60.9	144	60.4	110	61.7	46	48.6
Cat3	22	67.4	40	61.7	23	61.1	11	61.5	1	53.6
Cat4	12	69.0	20	62.5	20	62.2	2	63.6	1	43.2
Cat5	2	71.1	9	64.2	5	65.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	488	23.5	60.0	1249	60.2	61.1	188	9.1	62.5	115	5.5	63.6	36	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.277+/-	3.069 mph	37	N VA 102'	.478+/-	1.478 mph
12	N Dasibi CD	1.384+/-	.371 ppm	38	S BDT PER	4.021+/-	2.053 mph
13	N TOP PAR	.458+/-	2.784 mph	39	N VA 74'	.035+/-	1.514 mph
14	N Dasibi D3	.020+/-	.003 ppm	40	S BDT PAR	-.171+/-	1.963 mph
15	N TOP VER	.307+/-	1.292 mph	41	N GND PER	2.879+/-	1.798 mph
16	N NOX/TECO	.151+/-	-.046 ppm	42	S BDT VER	-.201+/-	.898 mph
17	N BDT PER	5.257+/-	2.989 mph	43	N GND PAR	-1.188+/-	2.712 mph
18	N BDT PAR	-.061+/-	2.666 mph	45	N GND VER	.151+/-	.819 mph
20	N ND2/TECO	.024+/-	-.006 ppm	49	N Ecolyzer-1	.766+/-	.227 ppm
21	N BDT VER	.245+/-	1.156 mph	50	S TOP PER	4.905+/-	2.367 mph
22	N ND/TECO	.127+/-	-.042 ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.184+/-	2.381 mph	52	S TOP PAR	.048+/-	2.212 mph
24	N THC/Byron	3.016+/-	1.091 ppm	53	N Ecolyzer-3	1.619+/-	.555 ppm
25	N WV 102'	181.776+/-	18.595 DEGR AZ	54	S TOP VER	.420+/-	.951 mph
26	N NMHC/Byro	2.993+/-	.312 ppm	55	N Ecolyzer-4	1.839+/-	.540 ppm
27	N Gnd Temp	78.417+/-	2.902 DEGR F	56	S GND PER	2.145+/-	1.694 mph
28	N CH4/Byron	1.356+/-	-.066 ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	169.198+/-	20.456 DEGR AZ	58	S GND PAR	-.519+/-	1.753 mph
30	N CO/Byron	.414+/-	-.098 ppm	59	N Rel Hum	65.869+/-	.953 %
31	N 74' Temp	76.281+/-	3.420 DEGR F	60	S GND VER	.253+/-	.672 mph
32	N CO2/Byron	422.081+/-	20.398 ppm	61	N Solar Rad	239.343+/-	104.128 W/m**2
35	N HA 74'	8.172+/-	3.339 mph	64	S VA 55'	.690+/-	1.216 mph

UVW vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	6.99+/- 3.11	184.6+/- 23.6	5.2+/- 13.2
02	17 19 21	6.01+/- 2.96	179.2+/- 27.4	5.5+/- 15.5
03	38 40 42	4.54+/- 2.12	181.1+/- 25.4	4.8+/- 14.2
04	41 43 45	3.86+/- 2.23	160.4+/- 37.4	4.2+/- 17.2
05	50 52 54	5.47+/- 2.39	182.7+/- 24.5	8.2+/- 14.4
06	56 58 60	2.82+/- 1.85	178.8+/- 36.9	9.3+/- 21.6

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1578 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	56.9	48	55.2	60	58.9	35	59.8	10	54.0
Cat2	55	59.3	117	58.1	102	59.0	90	60.3	67	52.7
Cat3	9	62.0	31	62.4	9	57.1	8	60.5	9	49.6
Cat4	4	64.7	8	62.0	3	58.7	4	64.2	7	44.9
Cat5	6	66.3	3	64.7	0	0	3	64.0	1	46.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	66.3	31	58.6	45	58.9	42	59.4	17	45.9
Cat2	128	67.8	139	60.2	107	60.2	96	60.5	51	48.3
Cat3	6	64.1	26	62.7	25	61.8	9	61.2	4	47.5
Cat4	12	67.3	17	59.2	19	63.5	2	64.1	0	0
Cat5	5	72.1	7	62.5	5	65.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	386	24.5	59.7	952	60.3	60.6	136	8.6	61.2	74	4.7	65.2	30	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.745+/-	2.361 mph	37	N VA 102'	.369+/-	1.769 mph
12	N Dasibi CD	1.209+/-	.302 ppm	38	S BDT PER	3.815+/-	2.031 mph
13	N TOP PAR	1.808+/-	2.156 mph	39	N VA 74'	.140+/-	1.311 mph
14	N Dasibi D3	.018+/-	-.003 ppm	40	S BDT PAR	.506+/-	1.938 mph
15	N TOP VER	.098+/-	1.243 mph	41	N GND PER	2.635+/-	1.601 mph
16	N NOX/TECO	.152+/-	-.055 ppm	42	S BDT VER	-.298+/-	.844 mph
17	N BDT PER	5.006+/-	2.393 mph	43	N GND PAR	-.269+/-	2.353 mph
18	N BDT PAR	.861+/-	2.154 mph	45	N GND VER	-.189+/-	.800 mph
20	N ND2/TECO	.025+/-	-.005 ppm	49	N Ecolyzer-1	.740+/-	.243 ppm
21	N BDT VER	.121+/-	1.073 mph	50	S TOP PER	4.406+/-	2.387 mph
22	N ND/TECO	.127+/-	-.054 ppm	51	N Ecolyzer-2	.546+/-	.283 ppm
23	N HA 102'	8.803+/-	2.393 mph	52	S TOP PAR	.999+/-	2.340 mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	190.527+/-	16.588 DEGR AZ	54	S TOP VER	.335+/-	.947 mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	1.968+/-	1.554 mph



20	N NO2/TECO	.023+/-	.005	ppm	49	N Ecolyzer-1	.782+/-	.263	ppm
21	N BOT VER	.113+/-	1.335	mph	50	S TOP PER	5.018+/-	2.845	mph
22	N NO/TECO	.115+/-	.039	ppm	51	N Ecolyzer-2	.510+/-	.345	ppm
23	N HA 102'	10.567+/-	2.987	mph	52	S TOP PAR	2.302+/-	2.121	mph
24	N THC/Byron	1.874+/-	.056	ppm	53	N Ecolyzer-3	1.455+/-	.534	ppm
25	N WV 102'	196.952+/-	15.498	DEGR AZ	54	S TOP VER	.306+/-	1.082	mph
26	N NMHC/Byro	1.866+/-	.546	ppm	55	N Ecolyzer-4	1.228+/-	.540	ppm
27	N Gnd Temp	79.381+/-	3.167	DEGR F	56	S GND PER	1.922+/-	1.521	ppm
28	N CH4/Byron	1.299+/-	.067	ppm	57	N Ecolyzer-5	1.595+/-	.944	ppm
29	N WV 74'	186.317+/-	17.332	DEGR AZ	58	S GND PAR	.332+/-	1.263	mph
30	N CO/Byron	.716+/-	.248	ppm	59	N Rel Hum	65.592+/-	1.394	%
31	N 74' Temp	76.411+/-	3.219	DEGR F	60	S GND VER	.236+/-	.898	mph
32	N CO2/Byron	437.551+/-	23.041	ppm	61	N Solar Rad	494.399+/-	199.750	W/m**2
35	N HA 74'	8.964+/-	3.966	mph	64	S VA 55'	.512+/-	1.306	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.14+/- 2.80	202.4+/- 18.5	3.5+/- 14.4		
02	17 19 21	7.39+/- 2.81	197.1+/- 20.0	3.4+/- 13.7		
03	38 40 42	4.49+/- 2.20	195.7+/- 24.6	7.8+/- 18.6		
04	41 43 45	4.39+/- 1.74	183.8+/- 41.8	5.1+/- 19.1		
05	50 52 54	5.95+/- 2.80	204.5+/- 20.1	6.7+/- 16.2		
06	56 58 60	2.57+/- 1.40	192.6+/- 37.7	9.3+/- 26.5		

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 7774 vehicles averaging 59.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	191	57.1	244	55.1	336	57.8	161	59.2	39	53.5
Cat2	326	59.3	562	57.6	501	58.8	472	60.0	338	52.2
Cat3	69	61.1	126	60.6	79	57.4	62	58.5	37	49.6
Cat4	38	64.3	73	63.0	30	58.4	32	61.9	18	48.7
Cat5	21	64.9	26	63.8	8	56.5	8	62.0	2	47.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	118	65.6	176	59.4	231	60.6	163	59.1	91	46.4
Cat2	689	67.4	601	61.1	520	60.8	495	60.9	233	48.2
Cat3	86	67.3	136	61.8	116	61.2	43	60.2	8	48.2
Cat4	52	68.4	74	61.3	69	62.8	15	63.8	2	42.8
Cat5	13	69.1	31	62.8	31	64.2	2	62.9	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	1750	22.5	59.8	4737	60.9	60.3	742	9.5	62.4	403	5.2	63.6	142	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.632+/- 2.816	mph	37	N VA 102'	.238+/- 1.828	mph
12	N Desibi CO	1.245+/- .355	ppm	38	S BOT PER	4.038+/- 2.007	mph
13	N TOP PAR	1.637+/- 2.550	mph	39	N VA 74'	.043+/- 1.482	mph
14	N Desibi O3	.021+/- .004	ppm	40	S BOT PAR	.636+/- 2.041	mph
15	N TOP VER	.132+/- 1.400	mph	41	N GND PER	2.814+/- 1.872	mph
16	N NOX/TECO	.148+/- .045	ppm	42	S BOT VER	.267+/- .942	mph
17	N BOT PER	5.808+/- 2.746	mph	43	N GND PAR	-.553+/- 2.672	mph
19	N BOT PAR	.835+/- 2.511	mph	45	N GND VER	.249+/- .952	mph
20	N NO2/TECO	.024+/- .005	ppm	49	N Ecolyzer-1	.788+/- .248	ppm
21	N BOT VER	.143+/- 1.199	mph	50	S TOP PER	4.949+/- 2.466	mph
22	N NO/TECO	.123+/- .043	ppm	51	N Ecolyzer-2	.533+/- .302	ppm
23	N HA 102'	9.297+/- 2.688	mph	52	S TOP PAR	1.301+/- 2.389	mph
24	N THC/Byron	2.272+/- .752	ppm	53	N Ecolyzer-3	1.501+/- .524	ppm
25	N WV 102'	189.274+/- 16.973	DEGR AZ	54	S TOP VER	.322+/- .979	mph
26	N NMHC/Byro	2.384+/- .597	ppm	55	N Ecolyzer-4	1.422+/- .568	ppm
27	N Gnd Temp	78.084+/- 3.035	DEGR F	56	S GND PER	2.032+/- 1.532	ppm
28	N CH4/Byron	1.293+/- .083	ppm	57	N Ecolyzer-5	1.785+/- 1.095	ppm
29	N WV 74'	178.410+/- 19.564	DEGR AZ	58	S GND PAR	-.061+/- 1.840	mph
30	N CO/Byron	.827+/- .310	ppm	59	N Rel Hum	66.408+/- 1.280	%
31	N 74' Temp	75.433+/- 3.411	DEGR F	60	S GND VER	.234+/- .773	mph
32	N CO2/Byron	420.580+/- 21.037	ppm	61	N Solar Rad	301.632+/- 172.153	W/m**2
35	N HA 74'	8.249+/- 3.652	mph	64	S VA 55'	.599+/- 1.244	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.43+/- 2.79	184.2+/- 20.9	3.2+/- 12.7		
02	17 19 21	6.50+/- 2.74	187.8+/- 23.5	3.7+/- 13.9		
03	38 40 42	4.61+/- 2.14	188.7+/- 25.2	5.9+/- 15.1		
04	41 43 45	4.02+/- 1.81	188.9+/- 39.8	5.0+/- 18.0		
05	50 52 54	5.67+/- 2.61	193.4+/- 24.1	7.0+/- 15.0		
06	58 58 80	2.70+/- 1.59	184.2+/- 37.3	9.7+/- 24.4		



Average for 15 minute period ending at 13:15:00  
Traffic Data  
 Total Traffic = 2046 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	57.9	84	54.8	97	57.3	42	60.4	6	52.3
Cat2	89	59.2	138	56.8	137	57.8	137	59.6	99	51.7
Cat3	20	61.0	28	59.7	26	57.8	20	58.6	12	52.6
Cat4	15	64.2	22	62.0	13	58.6	10	60.0	4	53.1
Cat5	0	0	10	64.9	0	0	3	63.6	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	55.1	47	61.0	73	60.9	44	58.9	18	47.0
Cat2	167	68.1	143	62.0	133	62.1	136	61.5	44	48.8
Cat3	12	67.2	37	61.3	27	60.7	13	60.7	2	42.9
Cat4	10	69.9	16	63.3	16	66.0	3	58.0	1	44.1
Cat5	2	67.5	4	64.5	4	68.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	491	24.0	60.1	1223	59.8	59.8	197	9.6	62.6	112	5.5	65.4	23	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.023+/-	3.467	37	N VA 102'	.748+/-	2.250
12	N Dasibi CO	1.164+/-	.350	38	S BOT PER	4.279+/-	2.141
13	N TOP PAR	1.005+/-	2.753	39	N VA 74'	.288+/-	1.701
14	N Dasibi D3	.023+/-	.005	40	S BOT PAR	-.389+/-	2.033
15	N TOP VER	.376+/-	1.484	41	N GND PER	2.344+/-	2.023
16	N NOX/TECO	.148+/-	.047	42	S BOT VER	-.179+/-	1.079
17	N BOT PER	5.105+/-	3.372	43	N GND PAR	-.676+/-	2.668
19	N BOT PAR	.234+/-	2.696	45	N GND VER	.060+/-	.963
20	N NO2/TECO	.026+/-	.006	49	N Ecolyzer-1	.802+/-	.252
21	N BOT VER	.404+/-	1.313	50	S TOP PER	4.993+/-	2.684
22	N NO/TECO	.123+/-	.044	51	N Ecolyzer-2	.524+/-	.375
23	N HA 102'	8.807+/-	3.260	52	S TOP PAR	-.089+/-	2.238
24	N THC/Byron	2.057+/-	.085	53	N Ecolyzer-3	1.559+/-	.477
25	N WV 102'	186.567+/-	21.173	54	S TOP VER	.148+/-	1.132
26	N NMHC/Byro	2.711+/-	.173	55	N Ecolyzer-4	1.195+/-	.438
27	N Gnd Temp	82.899+/-	2.445	56	S GND PER	2.630+/-	1.965
28	N CH4/Byron	1.347+/-	.055	57	N Ecolyzer-5	1.680+/-	1.020
29	N WV 74'	175.853+/-	21.770	58	S GND PAR	-1.034+/-	1.703
30	N CO/Byron	.767+/-	.303	59	N Rel Hum	62.205+/-	1.423
31	N 74' Temp	76.150+/-	3.524	60	S GND VER	.170+/-	.785
32	N CO2/Byron	431.037+/-	7.717	61	N Solar Rad	553.077+/-	152.886
35	N HA 74'	7.463+/-	4.216	64	S VA 55'	.589+/-	1.431

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.89+/- 3.43	191.4+/- 24.8	6.5+/- 18.3
02	17 19 21	5.92+/- 3.60	185.1+/- 28.1	8.0+/- 18.2
03	38 40 42	4.85+/- 2.19	178.9+/- 24.5	2.7+/- 16.2
04	41 43 45	3.62+/- 2.22	167.0+/- 44.1	3.8+/- 22.6
05	50 52 54	5.55+/- 2.75	181.0+/- 25.7	4.6+/- 14.3
06	55 58 60	3.42+/- 1.92	165.1+/- 36.4	3.7+/- 23.4

Average for 15 minute period ending at 13:30:00  
Traffic Data  
 Total Traffic = 2103 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	57.4	57	55.3	100	57.9	41	60.1	7	52.6
Cat2	95	59.6	151	57.6	126	58.2	147	59.9	96	52.9
Cat3	16	59.4	40	60.2	24	57.8	13	59.6	5	54.1
Cat4	12	64.4	26	60.8	11	57.5	12	59.7	5	53.1
Cat5	8	66.6	11	65.1	1	58.8	3	59.6	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	61.2	50	56.3	40	57.4	35	57.8	23	48.2
Cat2	180	64.0	151	58.8	148	57.8	139	58.6	60	48.6
Cat3	23	65.2	32	58.4	33	57.4	20	66.5	3	40.8
Cat4	11	65.2	21	59.5	34	58.0	8	59.2	1	54.5
Cat5	1	66.9	7	61.0	6	58.3	2	63.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	436	20.7	58.4	1283	60.9	58.8	209	9.9	59.8	141	6.7	63.0	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.689+/-	3.359	37	N VA 102'	.118+/-	2.121
12	N Dasibi CO	1.052+/-	.266	38	S BOT PER	4.664+/-	2.152
13	N TOP PAR	1.617+/-	2.523	39	N VA 74'	-.282+/-	1.778
14	N Dasibi D3	.025+/-	.005	40	S BOT PAR	.724+/-	2.235
15	N TOP VER	-.095+/-	1.867	41	N GND PER	3.392+/-	2.203
16	N NOX/TECO	.130+/-	.047	42	S BOT VER	.441+/-	.965
17	N BOT PER	7.474+/-	3.028	43	N GND PAR	-.701+/-	2.666
19	N BOT PAR	.756+/-	2.356	45	N GND VER	.195+/-	1.090
20	N NO2/TECO	.020+/-	.006	49	N Ecolyzer-1	.585+/-	.228
21	N BOT VER	.145+/-	1.738	50	S TOP PER	5.747+/-	2.582
22	N NO/TECO	.110+/-	.044	51	N Ecolyzer-2	.318+/-	.270
23	N HA 102'	11.734+/-	2.731	52	S TOP PAR	1.353+/-	2.637
24	N THC/Byron	1.988+/-	.102	53	N Ecolyzer-3	1.246+/-	.428
25	N WV 102'	184.967+/-	14.239	54	S TOP VER	.432+/-	1.140
26	N NMHC/Byro	2.197+/-	.427	55	N Ecolyzer-4	.996+/-	.463
27	N Gnd Temp	80.033+/-	2.596	56	S GND PER	2.525+/-	1.702
28	N CH4/Byron	1.428+/-	.067	57	N Ecolyzer-5	1.393+/-	.835
29	N WV 74'	175.896+/-	15.079	58	S GND PAR	-.120+/-	2.045
30	N CO/Byron	.308+/-	.175	59	N Rel Hum	63.752+/-	.885
31	N 74' Temp	74.717+/-	3.772	60	S GND VER	.326+/-	.729
32	N CO2/Byron	426.152+/-	10.107	61	N Solar Rad	298.928+/-	148.597
35	N HA 74'	10.305+/-	4.147	64	S VA 55'	.737+/-	1.431

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	9.44+/-	3.19	190.5+/-	18.2	2.1+/-	14.9
02	17	19	21	8.13+/-	2.84	185.1+/-	20.7	3.5+/-	15.0
03	38	40	42	5.23+/-	2.37	188.5+/-	20.0	6.6+/-	14.4
04	41	43	45	4.55+/-	2.11	168.9+/-	36.9	4.4+/-	17.9
05	50	52	54	6.53+/-	2.69	193.9+/-	22.0	6.3+/-	12.1
06	56	58	60	3.24+/-	1.89	186.6+/-	33.8	8.8+/-	21.1

Average for 15 minute period ending at 13:45:00  
Traffic Data  
 Total Traffic = 2079 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	57.8	60	55.2	97	57.4	34	58.8	7	57.3
Cat2	88	59.5	150	57.7	131	58.8	121	60.3	98	51.6
Cat3	17	60.2	30	59.7	26	58.7	15	61.7	9	55.9
Cat4	9	65.7	24	62.7	7	65.0	7	62.1	4	49.9
Cat5	8	64.6	7	64.6	0	0	3	64.8	1	49.5

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	64.9	47	59.5	48	59.4	43	60.3	15	50.9
Cat2	179	67.2	164	61.1	134	61.1	144	60.5	50	48.5
Cat3	20	68.5	33	62.3	45	61.2	15	62.1	3	42.8
Cat4	17	68.9	41	62.3	25	61.4	6	58.7	1	45.0
Cat5	2	69.7	3	60.6	6	62.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	435	20.9	59.8	1260	60.6	61.1	213	10.2	62.7	141	6.8	63.6	30	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.233+/-	2.361	37	N VA 102'	.657+/-	2.021
12	N Dasibi CD	1.356+/-	.332	38	S BOT PER	3.357+/-	1.901
13	N TOP PAR	2.458+/-	1.981	39	N VA 74'	.207+/-	1.178
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	.531+/-	1.808
15	N TOP VER	.435+/-	1.268	41	N GND PER	2.262+/-	1.677
16	N NOX/TECO	.157+/-	.056	42	S BOT VER	.313+/-	.970
17	N BOT PER	4.140+/-	2.208	43	N GND PAR	.798+/-	1.983
19	N BOT PAR	2.102+/-	1.911	45	N GND VER	.175+/-	.909
20	N NO2/TECO	.022+/-	.005	49	N EcoLyzer-1	.753+/-	.268
21	N BOT VER	.299+/-	1.237	50	S TOP PER	3.868+/-	2.471
22	N NO/TECO	.135+/-	.052	51	N EcoLyzer-2	.578+/-	.396
23	N HA 102'	7.431+/-	2.734	52	S TOP PAR	1.228+/-	2.083
24	N THC/Byron	2.073+/-	.092	53	N EcoLyzer-3	1.894+/-	.761
25	N WV 102'	197.574+/-	20.822	54	S TOP VER	.314+/-	1.020
26	N NMHC/Byro	2.519+/-	.138	55	N EcoLyzer-4	1.600+/-	.729
27	N Gnd Temp	81.049+/-	3.444	56	S GND PER	1.782+/-	1.326
28	N CH4/Byron	1.365+/-	.055	57	N EcoLyzer-5	1.962+/-	.954
29	N WV 74'	190.399+/-	22.322	58	S GND PAR	.038+/-	1.802
30	N CO/Byron	.643+/-	.228	59	N Rel Hum	58.085+/-	1.540
31	N 74' Temp	78.016+/-	2.917	60	S GND VER	.241+/-	.664
32	N CO2/Byron	410.194+/-	4.474	61	N Solar Rad	383.993+/-	215.168
35	N HA 74'	5.537+/-	3.856	64	S VA 55'	.869+/-	1.172

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.47+/- 2.31	211.0+/- 25.1	9.3+/- 18.8
02	17 19 21	5.17+/- 2.21	206.3+/- 23.6	7.5+/- 20.1
03	38 40 42	3.93+/- 2.02	189.9+/- 24.2	7.7+/- 18.4
04	41 43 45	3.30+/- 1.53	199.9+/- 42.0	4.2+/- 20.5
05	50 52 54	4.67+/- 2.49	199.5+/- 27.5	8.5+/- 16.3
06	56 58 60	2.56+/- 1.44	189.9+/- 39.8	5.3+/- 24.7

Average for 15 minute period ending at 14:00:00  
Traffic Data  
 Total Traffic = 2124 vehicles averaging 60.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	57.2	76	55.6	89	57.5	34	58.7	7	53.4
Cat2	72	59.7	158	57.0	148	58.3	131	58.6	98	52.1
Cat3	25	62.2	36	61.4	17	60.1	24	58.8	8	51.2
Cat4	13	62.5	13	63.7	12	58.7	6	59.8	3	53.2
Cat5	4	62.0	11	66.1	2	55.6	6	68.3	0	0

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	67.4	46	61.0	57	61.0	55	59.9	10	50.0
Cat2	183	69.1	189	62.2	136	62.6	130	61.0	48	50.6
Cat3	23	70.0	40	62.9	34	63.0	17	65.4	3	61.6
Cat4	11	70.8	18	64.0	25	63.9	4	61.5	0	0
Cat5	4	70.5	5	65.4	5	62.6	2	75.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	658	21.6	60.3	1295	61.0	62.3	227	10.7	63.2	105	4.9	65.9	39	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.995+/-	3.023	37	N VA 102'	.494+/-	2.076
12	N Dasibi CD	1.056+/-	.283	38	S BOT PER	4.244+/-	2.247
13	N TOP PAR	3.353+/-	2.569	39	N VA 74'	.116+/-	1.550
14	N Dasibi O3	.021+/-	.004	40	S BOT PAR	1.874+/-	2.037
15	N TOP VER	.072+/-	1.610	41	N GND PER	2.739+/-	2.217
16	N NOX/TECO	.128+/-	.034	42	S BOT VER	.356+/-	1.069
17	N BOT PER	6.322+/-	2.984	43	N GND PAR	.728+/-	3.001
19	N BOT PAR	2.488+/-	2.838	45	N GND VER	.267+/-	1.237
20	N NO2/TECO	.019+/-	.005	49	N EcoLyzer-1	.536+/-	.241
21	N BOT VER	.108+/-	1.530	50	S TOP PER	5.656+/-	2.691
22	N NO/TECO	.108+/-	.031	51	N EcoLyzer-2	.348+/-	.278
23	N HA 102'	11.351+/-	2.865	52	S TOP PAR	3.205+/-	2.252
24	N THC/Byron	1.908+/-	.097	53	N EcoLyzer-3	1.258+/-	.472
25	N WV 102'	198.936+/-	16.274	54	S TOP VER	.221+/-	1.220
26	N NMHC/Byro	2.190+/-	.137	55	N EcoLyzer-4	.948+/-	.459
27	N Gnd Temp	81.700+/-	2.315	56	S GND PER	2.000+/-	1.328
28	N CH4/Byron	1.286+/-	.094	57	N EcoLyzer-5	1.472+/-	.905
29	N WV 74'	188.324+/-	18.500	58	S GND PAR	.679+/-	1.603
30	N CO/Byron	.432+/-	.225	59	N Rel Hum	53.525+/-	1.252

31	N 74' Temp	77.662+/-	3.979	DEGR F	60	S GND VER	.262+/-	.895	mph
32	N CO2/Byron	406.448+/-	11.634	ppm	61	N Solar Rad	450.573+/-	161.833	W/m <sup>2</sup> =2
35	N HA 74'	9.167+/-	4.486	mph	64	S VA 55'	.488+/-	1.360	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	8.40+/- 2.81	206.6+/- 22.8	2.7+/- 14.9			
02	17	19	21	7.59+/- 2.80	203.2+/- 26.6	3.0+/- 14.3			
03	38	40	42	5.15+/- 2.34	202.9+/- 22.7	6.4+/- 16.5			
04	41	43	45	4.37+/- 2.10	197.7+/- 43.5	5.8+/- 18.9			
05	50	52	54	6.97+/- 2.73	208.9+/- 19.4	5.0+/- 16.1			
06	56	58	60	2.72+/- 1.50	196.5+/- 32.7	9.1+/- 24.3			

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8357 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	239	57.6	257	55.2	383	57.5	151	59.8	27	54.0
Cat2	344	59.5	596	57.3	542	56.3	536	59.6	393	52.1
Cat3	78	60.9	134	60.3	93	58.5	72	59.5	34	53.3
Cat4	49	64.1	85	62.1	43	59.4	35	60.3	16	52.3
Cat5	20	64.9	39	65.2	3	56.7	15	64.9	1	49.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	105	64.5	190	59.4	218	60.0	183	59.3	67	48.7
Cat2	689	67.4	657	61.0	551	60.8	549	60.4	202	49.1
Cat3	78	67.8	142	61.3	138	60.6	65	61.0	11	44.7
Cat4	49	68.7	98	62.2	100	61.6	21	59.3	3	47.9
Cat5	9	69.2	19	62.9	21	62.4	4	69.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	1820	21.8	59.6	5051	60.5	60.6	845	10.1	62.0	499	6.0	64.4	131	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.485+/- 3.474	mph	37	N VA 102'	.504+/- 2.128	mph
12	N Desibi CO	1.157+/- .333	ppm	38	S BOT PER	4.136+/- 2.163	mph
13	N TOP PAR	2.108+/- 2.622	mph	39	N VA 74'	.085+/- 1.582	mph
14	N Desibi O3	.022+/- .005	ppm	40	S BOT PAR	.685+/- 2.184	mph
15	N TOP VER	.197+/- 1.584	mph	41	N GND PER	2.684+/- 2.086	mph
16	N MDX/TECO	.141+/- .048	ppm	42	S BOT VER	.322+/- 1.025	mph
17	N BOT PER	5.760+/- 3.182	mph	43	N GND PAR	.037+/- 2.696	mph
19	N BOT PAR	1.395+/- 2.640	mph	45	N GND VER	.174+/- 1.058	mph
20	N ND2/TECO	.022+/- .005	ppm	49	N EcoLyzer-1	.669+/- .271	ppm
21	N BOT VER	.239+/- 1.469	mph	50	S TOP PER	5.066+/- 2.709	mph
22	N ND/TECO	.119+/- .044	ppm	51	N EcoLyzer-2	.442+/- .352	ppm
23	N HA 102'	9.781+/- 3.422	mph	52	S TOP PAR	1.424+/- 2.589	mph
24	N THC/Byron	2.007+/- .113	ppm	53	N EcoLyzer-3	1.497+/- .610	ppm
25	N WV 102'	191.998+/- 19.239	DEGR A2	54	S TOP VER	.279+/- 1.133	mph
25	N NMHC/Byro	2.406+/- .331	ppm	55	N EcoLyzer-4	1.184+/- .594	ppm
27	N Gnd Temp	81.420+/- 2.854	DEGR F	56	S GND PER	2.234+/- 1.638	mph
28	N CH4/Byron	1.258+/- .085	ppm	57	N EcoLyzer-5	1.627+/- .956	ppm
29	N WV 74'	182.519+/- 20.630	DEGR A2	58	S GND PAR	-.049+/- 1.895	mph
30	N CO/Byron	.537+/- .293	ppm	59	N Rel Hum	59.392+/- 4.190	%
31	N 74' Temp	76.887+/- 3.839	DEGR F	60	S GND VER	.250+/- .773	mph
32	N CO2/Byron	418.458+/- 13.583	ppm	61	N Solar Rad	421.643+/- 191.800	W/m <sup>2</sup> =2
35	N HA 74'	8.118+/- 4.548	mph	64	S VA 55'	.570+/- 1.354	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	7.55+/- 3.32	199.8+/- 24.4	5.2+/- 16.5			
02	17	19	21	5.70+/- 3.06	194.9+/- 28.4	5.5+/- 17.2			
03	38	40	42	4.79+/- 2.29	190.1+/- 24.2	5.8+/- 16.5			
04	41	43	45	3.96+/- 2.07	183.0+/- 43.0	4.6+/- 20.0			
05	50	52	54	5.93+/- 2.81	196.0+/- 25.5	6.1+/- 14.8			
06	56	58	60	2.99+/- 1.74	185.3+/- 37.0	7.7+/- 23.5			

14:03:03 -- BEGIN ECOLYZER CALIBRATIONS  
 14:09:42 -- END CALIBRATION OF CH 57 NCO-5  
 14:09:50 -- BEGIN CALIBRATION OF CH 55 NCO-6  
 14:15:36 -- END CALIBRATION OF CH 55 NCO-4  
 14:16:52 -- BEGIN CALIBRATION OF CH 53 NCO-3  
 14:21:39 -- END CALIBRATION OF NCO-3 CH 53  
 14:21:50 -- BEGIN CALIBRATION OF NCO-2 CH 51  
 14:27:45 -- END CALIBRATION OF CH 51 NCO-2  
 14:27:55 -- BEGIN CALIBRATION OF NCO-1 CH 49  
 14:36:19 -- END ECOLYZER CALIBRATIONS

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2103 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	57.5	77	55.7	92	58.6	42	60.2	13	52.4
Cat2	97	59.1	165	58.1	122	59.0	144	60.7	91	52.3
Cat3	12	61.1	35	61.4	19	57.7	14	60.9	8	54.1
Cat4	9	53.5	20	62.7	11	56.5	6	60.7	2	49.8
Cat5	10	62.8	11	67.5	0	0	4	63.6	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	64.2	55	59.7	65	60.1	35	58.5	23	64.0
Cat2	165	66.5	167	60.9	147	51.4	132	60.2	56	47.2
Cat3	24	68.1	32	60.1	28	59.8	20	58.5	0	0
Cat4	12	66.3	21	60.9	16	63.1	5	61.5	2	47.0
Cat5	5	68.5	4	59.9	16	63.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	471	22.4	59.7	1285	61.2	60.7	192	9.1	61.5	104	4.9	64.3	50	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.864+/-	3.052 mph	37	N VA 102'	.642+/-	2.073 mph
12	N Dasibi CD	1.376+/-	.383 ppm	38	S BOT PER	4.155+/-	2.759 mph
13	N TOP PAR	3.465+/-	3.057 ppm	39	N VA 74'	.188+/-	1.745 mph
14	N Dasibi D3	.020+/-	.003 ppm	40	S BOT PAR	.895+/-	2.513 mph
15	N TOP VER	.275+/-	1.737 ppm	41	N GND PER	2.921+/-	2.153 mph
16	N NDX/TECD	.157+/-	.051 ppm	42	S BOT VER	.280+/-	1.061 mph
17	N BOT PER	5.507+/-	2.907 ppm	43	N GND PAR	.530+/-	3.090 mph
19	N BOT PAR	2.420+/-	2.802 ppm	45	N GND VER	.207+/-	1.199 mph
20	N ND2/TECD	.024+/-	.006 ppm	49	N Ecolyzer-1	.508+/-	.246 ppm
21	N BDT VER	.245+/-	1.533 ppm	50	S TOP PER	4.988+/-	2.813 ppm
22	N ND/TECD	.133+/-	.048 ppm	51	N Ecolyzer-2	.339+/-	.327 ppm
23	N HA 102'	11.354+/-	3.469 ppm	52	S TOP PAR	2.060+/-	2.647 ppm
24	N THC/Byron	1.931+/-	.119 ppm	53	N Ecolyzer-3	1.419+/-	.633 ppm
25	N WV 102'	201.032+/-	20.650 DEGR AZ	54	S TOP VER	.211+/-	1.044 ppm
26	N NMHC/Byro	2.272+/-	.191 ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	82.091+/-	3.101 DEGR F	56	S GND PER	2.170+/-	2.131 ppm
28	N CH4/Byron	1.251+/-	.038 ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	191.766+/-	22.592 DEGR AZ	58	S GND PAR	-.023+/-	1.901 ppm
30	N CO/Byron	.503+/-	.337 ppm	59	N Rel Hum	50.350+/-	.945 %
31	N 74' Temp	79.121+/-	2.951 DEGR F	60	S GND VER	.244+/-	.920 ppm
32	N CO2/Byron	408.542+/-	8.027 ppm	61	N Solar Rad	338.758+/-	155.861 W/m^2
35	N HA 74'	8.389+/-	4.333 ppm	64	S VA 55'	.280+/-	1.330 ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.74+/- 2.86	211.6+/- 24.6	5.4+/- 18.4
02	17 19 21	6.85+/- 2.81	204.4+/- 26.9	5.5+/- 18.4
03	38 40 42	4.96+/- 2.95	193.8+/- 26.1	6.1+/- 16.7
04	41 43 45	4.42+/- 2.21	188.6+/- 43.4	5.4+/- 19.0
05	50 52 54	6.02+/- 2.98	203.6+/- 24.5	6.1+/- 16.7
06	56 58 80	3.01+/- 2.16	185.2+/- 38.5	7.6+/- 21.0

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2252 vehicles averaging 59.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	58.9	53	54.7	93	59.1	44	60.3	8	48.4
Cat2	116	60.5	182	57.3	145	59.7	126	61.2	114	52.0
Cat3	21	63.9	43	59.6	22	56.1	17	59.3	10	51.1
Cat4	12	64.4	20	60.0	13	57.0	7	59.0	5	50.7
Cat5	6	64.4	5	67.4	2	63.6	0	0	1	51.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	25	63.2	37	58.8	58	59.4	46	58.3	20	47.6
Cat2	180	67.2	191	60.7	152	60.3	146	60.6	53	48.6
Cat3	32	68.6	40	60.3	52	60.9	8	58.7	5	42.2
Cat4	13	68.5	22	59.1	29	62.3	9	65.2	1	40.9
Cat5	3	70.7	10	62.4	17	65.8	1	72.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	441	19.6	59.8	1385	61.5	60.4	250	11.1	61.1	131	5.8	65.1	45	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.566+/-	3.184 mph	37	N VA 102'	.603+/-	2.459 mph
12	N Dasibi CD	1.296+/-	.314 ppm	38	S BOT PER	4.315+/-	2.279 mph
13	N TOP PAR	3.960+/-	3.360 ppm	39	N VA 74'	.093+/-	1.967 mph
14	N Dasibi D3	.024+/-	.004 ppm	40	S BOT PAR	1.539+/-	2.499 mph
15	N TOP VER	.216+/-	1.831 ppm	41	N GND PER	2.934+/-	2.329 mph
16	N NDX/TECO	.145+/-	.043 ppm	42	S BOT VER	.298+/-	1.221 mph
17	N BOT PER	6.091+/-	3.039 ppm	43	N GND PAR	1.672+/-	3.422 mph
19	N BOT PAR	3.081+/-	3.434 ppm	45	N GND VER	.134+/-	1.052 mph
20	N ND2/TECD	.025+/-	.006 ppm	49	N Ecolyzer-1	.525+/-	.227 ppm
21	N BDT VER	.375+/-	1.478 ppm	50	S TOP PER	5.766+/-	3.253 ppm
22	N ND/TECD	.120+/-	.040 ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	12.172+/-	3.873 ppm	52	S TOP PAR	2.600+/-	3.014 ppm
24	N THC/Byron	1.814+/-	.056 ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	200.507+/-	19.812 DEGR AZ	54	S TOP VER	.209+/-	1.156 ppm
26	N NMHC/Byro	1.790+/-	.331 ppm	55	N Ecolyzer-4	1.522+/-	.540 ppm
27	N Gnd Temp	81.908+/-	2.769 DEGR F	56	S GND PER	2.204+/-	2.009 ppm
28	N CH4/Byron	1.260+/-	.041 ppm	57	N Ecolyzer-5	*****+/-*****	ppm

29	N WV 74'	190.885+/-	21.857	DEGR AZ	58	S GND PAR	.609+/-	2.099	mph
30	N CD/Byron	.515+/-	.240	ppm	59	N Rel Hum	49.161+/-	1.017	%
31	N 74' Temp	78.338+/-	3.812	DEGR F	60	S GND VER	.219+/-	.787	mph
32	N CD2/Byron	426.315+/-	21.029	ppm	61	N Solar Rad	382.721+/-	75.438	W/m**2
35	N HA 74'	9.979+/-	4.805	mph	64	S VA 55'	.361+/-	1.727	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	8.53+/- 3.30	209.8+/- 23.3	4.2+/- 15.0			
02	17	19	21	7.72+/- 3.21	204.5+/- 25.7	5.2+/- 14.7			
03	38	40	42	5.27+/- 2.48	199.4+/- 24.8	5.6+/- 15.8			
04	41	43	45	4.90+/- 2.38	203.8+/- 42.1	3.4+/- 16.6			
05	50	52	54	7.04+/- 3.39	204.9+/- 23.4	4.4+/- 12.2			
06	56	58	60	3.12+/- 2.14	198.3+/- 37.9	11.0+/- 25.5			

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2208 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	58.3	52	54.8	102	58.3	41	62.4	11	54.4
Cat2	106	59.9	170	57.6	137	58.0	126	60.5	122	52.1
Cat3	20	61.3	27	60.6	27	57.8	14	58.1	6	49.8
Cat4	13	64.8	20	62.8	8	56.9	9	59.7	5	50.0
Cat5	8	64.4	3	66.0	0	.0	4	63.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	65.3	54	57.9	50	59.6	46	58.5	14	47.6
Cat2	207	66.7	174	60.2	156	60.4	108	60.0	67	47.1
Cat3	13	66.6	42	59.8	37	60.7	24	61.7	3	46.5
Cat4	19	67.8	28	60.0	20	60.6	7	58.7	0	.0
Cat5	6	69.7	8	64.1	7	61.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	456	20.7	58.3	1373	62.2	60.0	213	9.6	61.4	130	5.9	64.7	38	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.938+/- 3.884	mph	37	N VA 102'	.166+/- 2.742	mph
12	N Dasibi CD	.972+/- .256	ppm	38	S BDT PER	5.450+/- 2.920	mph
13	N TOP PAR	4.326+/- 3.360	mph	39	N VA 74'	-.402+/- 2.156	mph
14	N Dasibi 03	.027+/- .004	ppm	40	S BDT PAR	2.149+/- 2.588	mph
15	N TOP VER	-.013+/- 2.114	mph	41	N GND PER	4.060+/- 2.642	mph
16	N ND/TECD	.111+/- .042	ppm	42	S BDT VER	.264+/- 1.149	mph
17	N BDT PER	8.005+/- 3.770	mph	43	N GND PAR	1.180+/- 3.144	mph
19	N BDT PAR	3.082+/- 3.425	mph	45	N GND VER	.131+/- 1.244	mph
20	N ND2/TECD	.020+/- .007	ppm	49	N Ecolyzer-1	*****	ppm
21	N BDT VER	.187+/- 1.787	mph	50	S TOP PER	7.298+/- 3.408	mph
22	N ND/TECD	.091+/- .037	ppm	51	N Ecolyzer-2	-.384+/- 2.291	ppm
23	N HA 102'	14.680+/- 3.687	ppm	52	S TOP PAR	3.350+/- 2.742	ppm
24	N THC/Byron	1.824+/- .044	ppm	53	N Ecolyzer-3	1.041+/- .465	ppm
25	N WV 102'	198.998+/- 16.505	DEGR AZ	54	S TOP VER	1.171+/- 1.148	mph
26	N NMHC/Byro	2.045+/- .306	ppm	55	N Ecolyzer-4	.850+/- .384	ppm
27	N Gnd Temp	80.007+/- 3.301	DEGR F	56	S GND PER	3.050+/- 1.876	ppm
28	N CH4/Byron	1.246+/- .067	ppm	57	N Ecolyzer-5	1.093+/- 1.217	ppm
29	N WV 74'	190.083+/- 18.969	DEGR AZ	58	S GND PAR	.927+/- 1.983	mph
30	N CD/Byron	.375+/- .222	ppm	59	N Rel Hum	49.503+/- 1.210	%
31	N 74' Temp	79.043+/- 3.122	DEGR F	60	S GND VER	.251+/- 1.074	mph
32	N CD2/Byron	430.060+/- 5.889	ppm	61	N Solar Rad	280.081+/- 117.790	W/m**2
35	N HA 74'	11.708+/- 5.308	mph	64	S VA 55'	.395+/- 1.685	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	10.74+/- 3.74	208.6+/- 20.2	2.1+/- 13.8			
02	17	19	21	9.44+/- 3.68	202.2+/- 23.1	3.0+/- 13.4			
03	38	40	42	6.39+/- 3.17	198.4+/- 22.4	5.5+/- 13.5			
04	41	43	45	5.48+/- 2.60	198.7+/- 36.8	3.1+/- 16.6			
05	50	52	54	8.47+/- 3.64	204.2+/- 16.7	4.0+/- 12.2			
06	56	58	60	3.86+/- 1.94	195.8+/- 30.3	9.1+/- 20.7			

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2241 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	58.2	58	55.7	91	58.6	50	60.0	11	50.4
Cat2	86	59.1	185	57.6	143	59.7	134	60.5	133	51.6
Cat3	21	60.5	36	59.5	23	56.9	9	59.4	12	51.8
Cat4	5	65.6	20	63.3	4	59.6	14	60.2	4	43.7
Cat5	3	65.8	6	64.7	0	.0	1	60.8	3	48.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	64.0	45	56.6	70	56.8	51	58.7	20	47.6
Cat2	173	63.1	189	57.8	157	59.1	122	59.0	73	47.7
Cat3	22	61.1	29	58.5	29	57.4	15	57.9	3	41.5
Cat4	17	64.1	24	58.1	35	56.8	8	59.2	1	53.0
Cat5	8	62.9	10	61.9	7	59.0	1	56.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	476	21.2	58.1	1395	62.2	58.2	199	8.9	59.5	132	5.9	61.1	39	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.571+/- 3.855	mph	37	N VA 102'	.441+/- 2.457	mph
12	N Dasibi CD	1.393+/- .367	ppm	38	S BDT PER	3.659+/- 2.288	mph
13	N TOP PAR	2.740+/- 2.993	mph	39	N VA 74'	-.173+/- 1.928	mph
14	N Dasibi 03	.025+/- .005	ppm	40	S BDT PAR	.618+/- 1.722	mph
15	N TOP VER	-.003+/- 1.566	mph	41	N GND PER	3.215+/- 2.384	mph
16	N ND/TECD	.142+/- .034	ppm	42	S BDT VER	.542+/- .790	mph
17	N BDT PER	6.460+/- 3.811	mph	43	N GND PAR	.227+/- 3.099	mph
19	N BDT PAR	1.754+/- 2.965	mph	45	N GND VER	.238+/- 1.167	mph
20	N ND2/TECD	.024+/- .007	ppm	49	N Ecolyzer-1	.748+/- .254	ppm

21	N BOT VER	.010+/-	1.368	mph	50	S TOP PER	4.890+/-	3.124	mph
22	N NO/TECD	.117+/-	.029	ppm	51	N Ecolyzer-2	.463+/-	.301	ppm
23	N HA 102'	11.526+/-	3.582	mph	52	S TOP PAR	1.389+/-	2.275	mph
24	N THC/Byron	1.858+/-	.124	ppm	53	N Ecolyzer-3	1.191+/-	.561	ppm
25	N WV 102'	195.102+/-	17.885	DEGR AZ	54	S TOP VER	4.432+/-	1.019	ppm
26	N NMHC/Byro	1.933+/-	.180	ppm	55	N Ecolyzer-4	1.263+/-	.714	ppm
27	N Gnd Temp	80.449+/-	2.389	DEGR F	56	S GND PER	1.862+/-	1.681	ppm
28	N CH4/Byron	1.270+/-	.070	ppm	57	N Ecolyzer-5	1.670+/-	1.343	ppm
29	N WV 74'	187.653+/-	20.873	DEGR AZ	58	S GND PAR	.040+/-	1.585	ppm
30	N CD/Byron	.150+/-	.051	ppm	59	N Rel Hum	51.637+/-	.561	%
31	N 74' Temp	78.521+/-	3.103	DEGR F	60	S GND VER	.295+/-	.820	ppm
32	N CD2/Byron	417.522+/-	22.997	ppm	61	N Solar Rad	231.168+/-	83.398	W/m <sup>2</sup>
35	N HA 74'	9.478+/-	4.738	mph	64	S VA 55'	.897+/-	1.521	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	8.89+/-	3.47	204.5+/-	22.7	1.7+/-	11.9
02	17	19	21	7.58+/-	3.53	202.0+/-	26.7	3.4+/-	16.0
03	38	40	42	4.20+/-	2.29	189.3+/-	26.9	11.6+/-	17.4
04	41	43	45	4.67+/-	2.42	189.5+/-	38.6	5.4+/-	19.8
05	50	52	54	5.67+/-	3.13	195.5+/-	25.3	9.6+/-	16.5
06	56	58	60	2.83+/-	1.71	185.8+/-	38.9	11.9+/-	30.1

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8804 Vehicles averaging 59.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	216	58.3	240	55.3	378	58.6	177	60.6	43	51.8
Cat2	405	58.7	682	57.6	547	59.1	530	60.7	460	52.0
Cat3	74	61.8	141	60.2	91	57.1	54	59.4	36	51.8
Cat4	39	64.5	80	62.2	36	57.1	36	59.9	17	48.7
Cat5	27	64.0	25	66.6	2	63.6	9	63.4	4	49.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	64.2	191	58.3	243	59.4	178	58.5	77	46.5
Cat2	725	65.9	721	59.9	612	60.3	508	60.0	249	47.2
Cat3	91	66.4	143	59.7	146	60.0	67	59.5	11	43.2
Cat4	61	66.6	95	59.5	100	60.2	29	61.4	4	47.0
Cat5	22	67.1	32	62.3	47	63.1	2	64.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	1844	20.9	59.2	5439	61.8	59.9	854	9.7	60.8	497	5.6	63.9	170	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	7.235+/-	3.693	37	N VA 102'	.463+/-	2.446	mph
12	N Dasibi CO	1.259+/-	.374	38	S BOT PER	4.395+/-	2.653	ppm
13	N TOP PAR	3.623+/-	3.245	39	N VA 74'	-.074+/-	1.955	mph
14	N Dasibi O3	.024+/-	.005	40	S BOT PAR	1.300+/-	2.426	ppm
15	N TOP VER	.119+/-	1.824	41	N GND PER	3.308+/-	2.425	ppm
16	N NOX/TECD	.139+/-	.046	42	S BOT VER	.346+/-	1.071	ppm
17	N BOT PER	6.516+/-	3.523	43	N GND PAR	.902+/-	3.234	ppm
18	N BOT PAR	2.584+/-	3.210	45	N GND VER	.177+/-	1.166	ppm
20	N NO2/TECD	.024+/-	.007	49	N Ecolyzer-1	.611+/-	.265	ppm
21	N BOT VER	.193+/-	1.552	50	S TOP PER	5.738+/-	3.295	ppm
22	N NO/TECD	.115+/-	.042	51	N Ecolyzer-2	.385+/-	.306	ppm
23	N HA 102'	12.433+/-	3.884	52	S TOP PAR	2.350+/-	2.772	ppm
24	N THC/Byron	1.858+/-	.102	53	N Ecolyzer-3	1.249+/-	.595	ppm
25	N WV 102'	198.895+/-	18.875	54	S TOP VER	.255+/-	1.096	ppm
26	N NMHC/Byro	2.010+/-	.308	55	N Ecolyzer-4	1.145+/-	.619	ppm
27	N Gnd Temp	81.114+/-	2.974	56	S GND PER	2.322+/-	1.977	ppm
28	N CH4/Byron	1.257+/-	.055	57	N Ecolyzer-5	*****	*****	ppm
29	N WV 74'	190.089+/-	21.078	58	S GND PAR	.388+/-	1.955	ppm
30	N CD/Byron	.388+/-	.272	59	N Rel Hum	50.163+/-	1.344	%
31	N 74' Temp	78.756+/-	3.198	60	S GND VER	.252+/-	.905	ppm
32	N CD2/Byron	420.860+/-	17.844	61	N Solar Rad	308.182+/-	124.162	W/m <sup>2</sup>
35	N HA 74'	9.889+/-	4.946	64	S VA 55'	.483+/-	1.589	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	8.97+/-	3.53	208.1+/-	22.9	3.3+/-	15.0
02	17	19	21	7.90+/-	3.45	203.3+/-	25.6	4.3+/-	15.8
03	38	40	42	5.21+/-	2.85	195.3+/-	25.3	7.2+/-	16.1
04	41	43	45	4.87+/-	2.40	194.4+/-	40.5	4.3+/-	18.1
05	50	52	54	6.80+/-	3.46	202.1+/-	23.0	6.0+/-	14.7
06	56	58	60	3.15+/-	2.04	191.7+/-	36.6	9.9+/-	24.6

15:37:24 -- TRAFFIC IS BACKING UP HEAVILY GOING TO IH45  
 15:58:22 -- BEGIN ECOLYZER CALIBRATION  
 15:58:35 -- CALIBRATING NCO-5 CH 57

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2319 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	57.4	51	54.2	92	58.0	36	57.5	11	53.6
Cat2	99	59.6	184	56.6	161	58.0	137	58.2	137	50.6
Cat3	20	59.1	34	59.0	24	55.5	18	57.5	11	51.8
Cat4	15	63.9	9	61.6	8	60.2	6	56.8	7	46.4
Cat5	5	63.3	15	64.9	1	58.2	2	59.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	25	64.9	36	58.8	58	59.7	39	58.6	19	47.1
Cat2	200	66.2	189	60.8	186	60.4	153	59.9	77	48.0
Cat3	11	67.7	31	53.9	46	60.5	6	60.0	1	52.0
Cat4	16	69.9	23	60.7	23	61.9	9	65.8	0	.0
Cat5	7	64.2	12	60.0	12	63.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	425	18.3	58.7	1523	65.7	59.1	201	8.7	62.0	116	5.0	62.8	54	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.947+/-	3.564	37	N VA 102'	.467+/-	2.553
12	N Dasibi CD	1.128+/-	.330	38	S BOT PER	5.049+/-	2.873
13	N TOP PAR	4.376+/-	2.937	39	N VA 74'	-.215+/-	1.933
14	N Dasibi D3	-.024+/-	.005	40	S BOT PAR	2.611+/-	2.548
15	N TOP VER	-.069+/-	1.904	41	N GND PER	3.187+/-	2.451
16	N NOX/TECO	.123+/-	.040	42	S BOT VER	1.444+/-	.939
17	N BOT PER	6.994+/-	3.328	43	N GND PAR	1.466+/-	3.054
18	N BOT PAR	3.438+/-	3.116	44	N GND VER	-.082+/-	1.295
19	N NO2/TECO	-.020+/-	.007	45	N Ecolyzer-1	-.674+/-	2.269
20	N BOT VER	-.040+/-	1.716	49	S TOP PER	6.919+/-	3.870
21	N NO/TECO	.103+/-	.037	50	N Ecolyzer-2	.416+/-	.575
22	N HA 102'	13.415+/-	3.842	51	S TOP PAR	3.886+/-	2.828
23	N THC/Byron	1.964+/-	.126	52	N Ecolyzer-3	1.218+/-	.560
24	N WV 102'	202.618+/-	15.887	53	S TOP VER	-.212+/-	1.118
25	N NMHC/Byro	2.244+/-	.386	54	N Ecolyzer-4	1.203+/-	.539
26	N Gnd Temp	79.069+/-	2.315	55	S GND PER	2.491+/-	1.770
27	N CH4/Byron	1.334+/-	.060	56	N Ecolyzer-5	1.505+/-	.940
28	N WV 74'	192.808+/-	16.730	57	S GND PAR	1.012+/-	1.778
29	N CD/Byron	1.576+/-	1.003	58	N Rel Hum	52.451+/-	.438
30	N 74' Temp	79.147+/-	2.833	59	S GND VER	.331+/-	1.002
31	N CO2/Byron	388.536+/-	11.658	60	N Solar Rad	195.562+/-	56.549
32	N HA 74'	10.785+/-	4.769	61	S VA 55'	.608+/-	1.617
35				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	9.69+/- 3.64	209.1+/- 17.6	2.1+/- 17.3
02	17 18 21	8.51+/- 3.47	205.8+/- 19.4	3.0+/- 18.8
03	38 40 42	6.25+/- 3.01	207.1+/- 23.1	7.0+/- 12.3
04	41 43 45	4.75+/- 2.59	200.1+/- 39.3	3.1+/- 21.0
05	50 52 54	8.33+/- 4.03	207.5+/- 22.1	4.6+/- 14.8
06	56 58 60	3.40+/- 1.75	204.4+/- 33.5	8.7+/- 22.1

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2431 vehicles averaging 53.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	55.9	74	51.6	102	56.9	48	57.6	15	48.1
Cat2	79	57.7	183	55.7	168	57.4	146	57.8	167	50.2
Cat3	15	54.2	39	60.4	28	55.4	22	57.5	26	49.2
Cat4	8	59.0	21	59.2	9	56.7	10	57.6	7	47.2
Cat5	3	61.9	9	63.1	2	56.9	1	61.0	3	36.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	6	51.5	31	51.0	40	56.2	47	54.4	31	45.7
Cat2	152	55.9	181	51.9	212	50.4	158	55.2	114	47.1
Cat3	21	55.8	40	51.5	46	49.8	21	50.8	1	43.7
Cat4	13	57.4	22	53.6	28	51.6	6	50.8	0	.0
Cat5	0	.0	7	49.0	18	52.8	3	50.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.1	442	18.2	53.8	1560	64.2	53.8	259	10.7	54.9	124	5.1	53.9	46	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.978+/-	3.618	37	N VA 102'	.333+/-	2.559
12	N Dasibi CD	1.203+/-	.519	38	S BOT PER	5.725+/-	2.701
13	N TOP PAR	3.218+/-	3.005	39	N VA 74'	-.132+/-	1.898
14	N Dasibi D3	-.025+/-	.004	40	S BOT PAR	1.877+/-	2.845
15	N TOP VER	-.255+/-	1.823	41	N GND PER	4.264+/-	2.743
16	N NOX/TECO	.114+/-	.041	42	S BOT VER	.521+/-	.832
17	N BOT PER	8.955+/-	3.475	43	N GND PAR	.427+/-	3.022
18	N BOT PAR	2.122+/-	3.185	44	N GND VER	.162+/-	1.313
19	N NO2/TECO	-.019+/-	.005	45	N Ecolyzer-1	.688+/-	.230
20	N BOT VER	-.212+/-	1.542	49	S TOP PER	7.473+/-	3.195
21	N NO/TECO	.095+/-	.038	50	N Ecolyzer-2	.334+/-	.247
22	N HA 102'	13.805+/-	3.579	51	S TOP PAR	2.941+/-	3.230
23	N THC/Byron	1.808+/-	.067	52	N Ecolyzer-3	1.137+/-	.443
24	N WV 102'	192.570+/-	15.326	53	S TOP VER	.316+/-	1.119
25	N NMHC/Byro	1.866+/-	.204	54	N Ecolyzer-4	1.063+/-	.379
26	N Gnd Temp	79.616+/-	3.354	55	S GND PER	3.244+/-	1.854
27	N CH4/Byron	1.174+/-	.110	56	N Ecolyzer-5	1.558+/-	.969
28	N WV 74'	182.184+/-	15.849	57	S GND PAR	.666+/-	2.268
29	N CD/Byron	.345+/-	.197	58	N Rel Hum	52.304+/-	.918
30	N 74' Temp	78.834+/-	3.380	59	S GND VER	.456+/-	.876
31	N CO2/Byron	401.728+/-	16.197	60	N Solar Rad	220.268+/-	81.610
32	N HA 74'	12.324+/-	5.362	61	S VA 55'	.768+/-	1.677
35				64			

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.07+/- 3.67	198.5+/- 16.0	- .3+/- 11.6
02	17 19 21	9.84+/- 3.53	184.2+/- 18.9	- .3+/- 11.5
03	38 40 42	6.82+/- 2.97	195.4+/- 22.5	6.3+/- 9.3
04	41 43 45	5.50+/- 2.58	183.7+/- 36.8	3.4+/- 19.4
05	50 52 54	8.60+/- 3.54	189.6+/- 20.2	3.7+/- 9.2
06	56 58 60	4.05+/- 2.02	180.5+/- 32.7	9.0+/- 19.4

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2716 vehicles averaging 45.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	57.1	52	53.5	98	56.2	50	58.1	21	50.6
Cat2	151	59.3	189	56.3	158	57.7	139	58.5	162	48.3
Cat3	18	59.2	46	80.0	28	56.6	20	58.4	24	46.3
Cat4	15	64.4	27	62.7	10	57.0	12	59.2	15	45.8
Cat5	9	64.2	13	63.4	0	0	1	66.5	4	54.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	8	38.4	6	25.5	8	31.6	30	39.9	37	38.5
Cat2	156	32.5	227	32.2	193	31.4	264	35.1	192	38.0
Cat3	33	29.7	33	32.7	52	31.8	29	36.6	7	35.1
Cat4	9	30.5	20	33.2	3	30.7	7	34.9	1	41.5
Cat5	5	32.2	15	31.9	22	30.5	6	35.1	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
51.4	371	13.7	44.1	1831	67.4	43.8	290	10.7	46.1	149	5.5	42.8	75	2.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	6.077+/-	3.351	37	N VA 102'	.532+/-	2.143
12	N Dasibi CD	1.824+/-	.486	38	S BDT PER	3.950+/-	2.058
13	N TDP PAR	4.029+/-	2.332	39	N VA 74'	.017+/-	1.697
14	N Dasibi D3	.021+/-	.004	40	S BDT PAR	1.558+/-	1.804
15	N TDP VER	.058+/-	1.585	41	N GND PER	3.199+/-	2.040
16	N NOX/TECO	1.139+/-	.048	42	S BDT VER	.464+/-	.871
17	N BDT PER	5.571+/-	3.498	43	N GND PAR	.377+/-	2.612
19	N BDT PAR	2.894+/-	2.359	44	N GND VER	.411+/-	1.244
20	N NO2/TECO	.019+/-	.006	48	N Ecolyzer-1	.708+/-	.257
21	N BDT VER	.075+/-	1.466	50	S TDP PER	5.394+/-	2.730
22	N NO/TECO	.119+/-	.045	51	N Ecolyzer-2	.556+/-	.365
23	N HA 102'	10.863+/-	3.642	52	S TDP PAR	3.040+/-	1.936
24	N THC/Byron	1.956+/-	.116	53	N Ecolyzer-3	1.685+/-	.791
25	N WV 102'	207.908+/-	15.537	54	S TDP VER	1.150+/-	.888
26	N NMHC/Byro	1.969+/-	.319	55	N Ecolyzer-4	1.787+/-	.790
27	N Gnd Temp	79.095+/-	2.138	56	S GND PER	1.670+/-	1.256
28	N CH4/Byron	1.267+/-	.087	57	N Ecolyzer-5	2.068+/-	1.108
29	N WV 74'	199.007+/-	16.769	58	S GND PAR	.695+/-	1.438
30	N CD/Byron	.842+/-	.160	59	N Rel Hum	53.851+/-	.631
31	N 74' Temp	76.255+/-	2.638	60	S GND VER	3.19+/-	.832
32	N CO2/Byron	410.520+/-	8.279	61	N Solar Rad	151.463+/-	43.672
35	N HA 74'	8.378+/-	4.979	64	S VA 55'	.418+/-	1.310

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.80+/- 3.40	215.7+/- 17.2	2.8+/- 13.8
02	17 19 21	6.84+/- 3.54	210.3+/- 20.4	4.5+/- 18.7
03	38 40 42	4.89+/- 2.11	201.1+/- 22.8	9.0+/- 15.1
04	41 43 45	4.32+/- 2.10	182.9+/- 37.3	6.7+/- 20.3
05	50 52 54	6.54+/- 2.75	211.3+/- 18.7	4.0+/- 11.2
06	56 58 60	2.47+/- 1.29	204.4+/- 33.9	11.8+/- 25.9

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2703 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	57.4	35	54.1	112	57.7	52	59.2	18	51.8
Cat2	115	59.3	214	57.6	140	59.2	143	60.1	156	51.7
Cat3	25	59.6	36	61.3	24	59.5	13	62.7	15	53.2
Cat4	13	64.4	25	64.2	6	67.9	4	51.7	3	53.6
Cat5	3	64.8	7	68.3	1	68.9	1	73.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	64.7	43	55.9	44	58.0	50	56.3	30	44.9
Cat2	226	64.6	258	57.1	227	55.1	184	56.0	117	45.5
Cat3	17	65.5	46	57.4	49	53.3	24	57.2	7	43.4
Cat4	15	66.8	38	59.1	35	54.0	6	61.2	2	45.3
Cat5	6	64.5	15	58.8	21	58.2	1	65.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.5	465	17.2	57.1	1780	65.9	57.7	256	9.5	59.1	147	5.4	61.3	55	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.825+/-	2.988	37	N VA 102'	.273+/-	2.570
12	N Dasibi CD	1.703+/-	.395	38	S BDT PER	4.040+/-	2.362
13	N TDP PAR	3.415+/-	2.457	39	N VA 74'	-.049+/-	1.973
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	1.469+/-	1.858
15	N TDP VER	.329+/-	1.520	41	N GND PER	2.596+/-	1.917
16	N NOX/TECO	.161+/-	.047	42	S BDT VER	.388+/-	.783
17	N BDT PER	5.121+/-	2.649	43	N GND PAR	1.322+/-	2.733
19	N BDT PAR	2.860+/-	2.452	45	N GND VER	.058+/-	1.188
20	N NO2/TECO	.022+/-	.004	49	N Ecolyzer-1	.728+/-	.250
21	N BDT VER	.247+/-	1.427	50	S TDP PER	5.305+/-	2.937
22	N NO/TECO	.139+/-	.046	51	N Ecolyzer-2	.615+/-	.319
23	N HA 102'	9.988+/-	3.479	52	S TDP PAR	2.943+/-	2.309
24	N THC/Byron	2.001+/-	.101	53	N Ecolyzer-3	1.593+/-	.625
25	N WV 102'	203.123+/-	19.835	54	S TDP VER	2.18+/-	.947
26	N NMHC/Byro	2.373+/-	.086	55	N Ecolyzer-4	1.701+/-	.563
27	N Gnd Temp	80.345+/-	1.688	56	S GND PER	1.687+/-	1.271



28	N CH4/Byron	1.215+/-	.088	ppm	57	N Ecolyzer-5	2.108+/-	1.264	ppm
29	N WV 74'	192.680+/-	20.866	DEGR AZ	58	S GND PAR	858+/-	1.187	mph
30	N CO/Byron	490+/-	.283	ppm	59	N Rel Hum	55.496+/-	.880	%
31	N 74' Temp	76.819+/-	3.771	DEGR F	60	S GND VER	283+/-	.882	mph
32	N CO2/Byron	427.292+/-	9.436	ppm	61	N Solar Rad	128.346+/-	30.593	W/m <sup>2</sup>
35	N HA 74'	8.118+/-	3.985	mph	64	S VA 55'	.454+/-	1.582	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	7.41+/- 2.83	212.3+/-	20.7	5.2+/-	16.0	
02	17	19	21	6.55+/- 2.57	210.8+/-	24.0	4.3+/-	14.7	
03	38	40	42	4.68+/- 2.51	198.2+/-	20.8	9.2+/-	15.7	
04	41	43	45	4.18+/- 1.88	202.3+/-	41.0	2.1+/-	19.0	
05	50	52	54	6.45+/- 3.17	210.1+/-	19.5	5.3+/-	11.9	
06	56	58	60	2.30+/- 1.36	202.5+/-	30.1	12.7+/-	25.4	

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10185 vehicles averaging 53.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	228	57.0	212	53.1	404	57.2	186	58.2	65	50.8
Cat 2	444	59.1	770	56.6	627	58.1	565	58.7	622	50.2
Cat 3	78	58.3	155	60.2	104	56.9	73	58.6	76	49.4
Cat 4	51	63.4	82	62.1	33	57.9	32	57.3	32	47.0
Cat 5	20	63.7	44	64.6	4	60.3	5	63.9	7	46.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	58	59.9	116	53.9	150	56.8	166	53.4	117	43.5
Cat 2	734	56.4	855	50.2	818	49.5	759	50.7	500	43.4
Cat 3	82	48.7	150	50.9	192	48.3	80	48.2	16	40.3
Cat 4	53	59.2	103	53.3	119	48.5	28	51.7	3	44.0
Cat 5	18	55.4	49	49.4	73	49.3	10	42.7	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
55.0	1703	16.7	53.1	6694	65.8	52.9	1006	9.9	55.1	526	5.3	54.2	220	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.457+/-	3.773	37	N VA 102'	401+/-	2.460
12	N Dasibi CO	1.465+/-	.533	38	S BOT PER	4.881+/-	2.619
13	N TOP PAR	3.759+/-	2.760	39	N VA 74'	-.085+/-	1.877
14	N Dasibi O3	.022+/-	.005	40	S BOT PAR	1.879+/-	2.346
15	N TDP VER	.016+/-	1.725	41	N GND PER	3.317+/-	2.386
16	N NDX/TECO	.134+/-	.047	42	S BOT VER	.454+/-	.858
17	N BOT PER	6.660+/-	3.577	43	N GND PAR	.898+/-	2.899
19	N BOT PAR	2.828+/-	2.836	45	N GND VER	.137+/-	1.271
20	N NO2/TECO	.020+/-	.006	49	N Ecolyzer-1	.700+/-	.252
21	N BOT VER	.017+/-	1.547	50	S TOP PER	6.273+/-	3.342
22	N NO/TECO	.114+/-	.045	51	N Ecolyzer-2	.480+/-	.415
23	N HA 102'	12.018+/-	3.979	52	S TOP PAR	3.153+/-	2.635
24	N THC/Byron	1.932+/-	.127	53	N Ecolyzer-3	1.408+/-	.660
25	N WV 102'	201.548+/-	17.557	54	S TOP VER	.223+/-	1.025
26	N NMHC/Byro	2.113+/-	.337	55	N Ecolyzer-4	1.439+/-	.654
27	N Gnd Temp	79.531+/-	2.444	56	S GND PER	2.273+/-	1.590
28	N CH4/Byron	1.247+/-	.101	57	N Ecolyzer-5	1.802+/-	1.108
29	N WV 74'	191.857+/-	18.550	58	S GND PAR	.758+/-	1.719
30	N CO/Byron	.813+/-	.710	59	N Rel Hum	53.525+/-	1.462
31	N 74' Temp	77.714+/-	3.366	60	S GND VER	.347+/-	.901
32	N CO2/Byron	407.018+/-	18.282	61	N Solar Rad	173.909+/-	65.812
35	N HA 74'	8.901+/-	5.088	64	S VA 55'	.562+/-	1.586

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ		Elevation Angle (Deg)		
01	11	13	15	8.99+/- 3.70	208.9+/-	18.9	2.5+/-	14.9	
02	17	19	21	7.93+/- 3.55	205.1+/-	21.7	2.9+/-	15.8	
03	38	40	42	5.56+/- 2.81	200.7+/-	22.6	7.9+/-	13.4	
04	41	43	45	4.69+/- 2.36	191.9+/-	39.1	3.8+/-	20.0	
05	50	52	54	7.48+/- 3.54	207.1+/-	20.8	4.4+/-	11.9	
06	56	58	60	3.06+/- 1.78	200.4+/-	32.9	10.6+/-	23.4	

16:06:25 -- TRAFFIC MOVING MUCH BETTER GOING TO IH45  
 16:06:33 -- END CALIBRATION OF CO-5 CH 57  
 16:06:50 -- BEGIN CALIBRATION OF NCO-4 CH 55  
 16:16:53 -- END CAL. NCO-4 GRD  
 16:19:15 -- BEGIN CAL. NCO-3 GRD  
 16:31:42 -- END CAL. NCO-53 GRD  
 16:32:03 -- BEGIN CAL. NCO-2 GRD  
 16:37:55 -- SPAN DRIFT VALUES HAD BEGUN TO FALL JUST BEFORE REC. TYPE WAS TURNED TO ZERO  
 16:44:27 -- BEGIN CAL. NCO-1  
 16:56:43 -- END ALL ECOLYZER CALIBRATIONS.

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2552 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	57.7	61	55.0	82	58.2	34	59.6	7	48.9
Cat2	124	59.9	193	57.3	154	59.3	138	60.7	127	51.5
Cat3	16	62.0	35	61.6	21	58.8	14	60.2	14	51.8
Cat4	19	65.3	25	64.4	8	58.7	6	59.8	5	48.7
Cat5	8	66.3	10	65.6	0	0	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	21	63.7	54	58.8	69	59.4	56	57.8	38	46.7
Cat2	197	67.2	242	59.8	217	58.9	171	59.0	94	47.9
Cat3	17	68.1	45	60.4	52	59.5	17	59.5	6	44.9
Cat4	15	67.3	20	60.5	15	60.5	8	59.4	1	36.8
Cat5	3	72.1	10	61.1	10	57.7	2	60.9	1	45.4

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	492	19.3	58.9	1657	64.9	59.9	237	9.3	62.0	122	4.8	62.7	44	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.028+/-	2.881	37	N VA 102'	.562+/-	2.187
12	N Dasibi CO	1.705+/-	.413	38	S BOT PER	4.621+/-	1.938
13	N TOP PAR	1.372+/-	2.793	39	N VA 74'	.028+/-	1.491
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	.238+/-	1.863
15	N TOP VER	.085+/-	1.344	41	N GND PER	3.017+/-	2.085
16	N NOX/TECO	.169+/-	.046	42	S BOT VER	.380+/-	.712
17	N BOT PER	6.187+/-	2.622	43	N GND PAR	-.655+/-	2.567
19	N BOT PAR	.623+/-	2.901	45	N GND VER	.165+/-	1.137
20	N NO2/TECO	.021+/-	.005	48	N Ecolyzer-1	6.883+/-	2.46
21	N BOT VER	.113+/-	1.235	50	S TOP PER	5.485+/-	2.583
22	N NO/TECO	.148+/-	.044	51	N Ecolyzer-2	.504+/-	.344
23	N HA 102'	10.259+/-	2.964	52	S TOP PAR	1.005+/-	2.338
24	N THC/Byron	2.073+/-	.080	53	N Ecolyzer-3	1.381+/-	.588
25	N WV 102'	187.816+/-	19.187	54	S TOP VER	.132+/-	.876
26	N NMHC/Byro	2.347+/-	.191	55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	60.085+/-	3.125	56	S GND PER	2.481+/-	1.568
28	N CH4/Byron	1.365+/-	.081	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	176.748+/-	20.946	58	S GND PAR	-.684+/-	1.607
30	N CO/Byron	1.023+/-	.222	59	N Rel Hum	55.870+/-	.893
31	N 74' Temp	75.994+/-	4.030	60	S GND VER	.190+/-	.722
32	N CO2/Byron	444.390+/-	5.574	61	N Solar Rad	89.697+/-	14.730
35	N HA 74'	8.404+/-	4.231	64	S VA 55'	.495+/-	1.349

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.81+/- 2.85	191.2+/- 21.1	1.6+/- 12.6
02	17 19 21	6.99+/- 2.58	186.1+/- 23.8	2.5+/- 13.7
03	36 40 42	5.00+/- 2.06	184.3+/- 18.8	6.1+/- 10.5
04	41 43 45	4.19+/- 2.04	169.0+/- 38.5	3.6+/- 20.1
05	50 52 54	6.05+/- 2.69	190.8+/- 22.3	3.7+/- 11.0
06	56 58 60	3.06+/- 1.71	171.8+/- 29.5	7.2+/- 22.0

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2661 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	58.4	64	55.0	101	57.8	41	59.3	19	52.0
Cat2	131	59.9	209	57.5	162	58.5	161	60.5	125	52.5
Cat3	25	60.6	37	61.4	30	59.7	16	60.6	11	53.1
Cat4	16	63.9	26	62.2	7	60.1	4	61.8	3	45.6
Cat5	4	64.0	12	64.5	1	61.3	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	65.8	60	57.4	67	58.1	52	58.8	41	45.7
Cat2	219	67.7	227	59.2	195	57.7	176	58.9	101	45.7
Cat3	13	68.3	36	59.5	38	58.8	21	58.0	1	44.3
Cat4	9	66.7	22	59.5	31	60.3	3	61.6	1	48.6
Cat5	7	70.2	12	59.4	18	59.1	1	59.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	550	20.7	58.8	1706	64.1	60.1	228	8.6	61.1	122	4.6	62.1	55	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.189+/-	2.831	37	N VA 102'	.788+/-	2.048
12	N Dasibi CO	1.694+/-	.376	38	S BOT PER	4.393+/-	2.313
13	N TOP PAR	1.075+/-	1.947	39	N VA 74'	.404+/-	1.555
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	-.153+/-	1.835
15	N TOP VER	.591+/-	1.534	41	N GND PER	2.513+/-	2.000
16	N NOX/TECO	.158+/-	.049	42	S BOT VER	.408+/-	.710
17	N BOT PER	5.207+/-	2.704	43	N GND PAR	-1.079+/-	2.138
19	N BOT PAR	.365+/-	1.733	45	N GND VER	.177+/-	1.016
20	N NO2/TECO	.020+/-	.005	48	N Ecolyzer-1	.737+/-	.240
21	N BOT VER	.417+/-	1.376	50	S TOP PER	5.252+/-	2.175
22	N NO/TECO	.136+/-	.048	51	N Ecolyzer-2	.613+/-	.373
23	N HA 102'	8.960+/-	2.573	52	S TOP PAR	.895+/-	2.019
24	N THC/Byron	2.208+/-	.048	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	183.632+/-	15.599	54	S TOP VER	.245+/-	.809
26	N NMHC/Byro	2.617+/-	.058	55	N Ecolyzer-4	2.054+/-	.632
27	N Gnd Temp	79.355+/-	2.140	56	S GND PER	2.362+/-	1.925
28	N CH4/Byron	1.369+/-	.090	57	N Ecolyzer-5	2.174+/-	1.377

29	N WV 74'	174.081+/-	17.211	DEGR AZ	58	S GND PAR	- .692+/-	1.850	mph
30	N CD/Byron	.941+/-	.357	ppm	59	N Rel Hum	58.557+/-	.780	%
31	N 74' Temp	78.802+/-	2.864	DEGR F	60	S GND VER	.239+/-	.828	mph
32	N CD2/Byron	424.887+/-	7.489	ppm	61	N Solar Rad	69.305+/-	14.610	W/m <sup>2</sup>
35	N HA 74'	7.982+/-	4.414	mph	64	S VA 55'	.651+/-	1.224	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	6.85+/-	2.64	190.0+/-	20.0	8.2+/-	17.8
02	17	19	21	5.76+/-	2.53	182.5+/-	21.7	7.9+/-	18.6
03	38	40	42	4.78+/-	2.42	180.9+/-	20.0	6.7+/-	11.5
04	41	43	45	3.70+/-	1.84	157.5+/-	39.1	4.3+/-	20.6
05	50	52	54	5.72+/-	2.27	189.0+/-	19.2	4.0+/-	9.6
06	56	58	60	2.96+/-	2.21	174.7+/-	32.2	11.6+/-	21.8

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2650 vehicles averaging 58.6 mph

Westbound Traffic											
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		Spd
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat 1	83	57.2	58	54.5	132	58.0	53	60.8	15	55.1	
Cat 2	132	59.3	195	56.6	125	59.0	106	61.2	119	52.8	
Cat 3	18	61.7	48	61.8	27	60.6	4	62.9	8	51.3	
Cat 4	8	65.0	20	63.7	13	58.6	4	61.4	3	53.0	
Cat 5	6	65.1	8	61.9	1	62.9	1	63.5	1	39.7	

Eastbound Traffic											
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		Spd
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat 1	16	63.6	42	57.1	78	57.9	51	56.7	35	45.1	
Cat 2	224	66.2	250	58.7	238	58.5	168	59.2	103	46.4	
Cat 3	20	66.5	47	59.8	49	59.8	6	55.0	3	46.1	
Cat 4	15	67.4	33	59.9	29	60.5	7	60.1	2	39.9	
Cat 5	1	63.0	14	59.9	15	57.8	3	72.3	0		

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	563	21.2	58.5	1660	62.6	60.6	243	9.2	61.2	134	5.1	60.7	50	1.9

Regular Channels													
Channel	Instrument		Value		Units	Channel	Instrument		Value		Units		
11	N TOP PER		5.404+/-	2.411	mph	37	N VA 102'		.281+/-	1.870	mph		
12	N Dasibi CO		2.064+/-	.669	ppm	38	S BOT PER		3.427+/-	1.648	mph		
13	N TOP PAR		.819+/-	1.722	mph	39	N VA 74'		.031+/-	1.483	mph		
14	N Dasibi O3		.015+/-	.002	ppm	40	S BOT PAR		-.251+/-	1.135	mph		
15	N TOP VER		.153+/-	1.392	mph	41	N GND PER		2.027+/-	1.487	mph		
16	N NOX/TECO		.178+/-	.061	ppm	42	S BOT VER		-.358+/-	.662	mph		
17	N BOT PER		4.524+/-	2.412	mph	43	N GND PAR		-1.025+/-	1.997	mph		
19	N BOT PAR		.274+/-	1.585	mph	45	N GND VER		.247+/-	.915	mph		
20	N ND2/TECO		.022+/-	.004	ppm	49	N Ecolyzer-1		.999+/-	.270	ppm		
21	N BOT VER		.078+/-	1.205	mph	50	S TOP PER		3.796+/-	2.019	mph		
22	N NO/TECO		.155+/-	.060	ppm	51	N Ecolyzer-2		*****+/-*****		ppm		
23	N HA 102'		7.506+/-	2.034	mph	52	S TOP PAR		*****+/-*****		mph		
24	N THC/Byron		2.239+/-	.066	ppm	53	N Ecolyzer-3		2.073+/-	.702	ppm		
25	N WV 102'		183.467+/-	17.686	DEGR AZ	54	S TOP VER		.276+/-	.682	mph		
26	N NMHC/Byro		2.900+/-	.096	ppm	55	N Ecolyzer-4		2.350+/-	.801	ppm		
27	N Gnd Temp		79.225+/-	1.325	DEGR F	56	S GND PER		1.889+/-	1.362	mph		
28	N CH4/Byron		1.498+/-	.146	ppm	57	N Ecolyzer-5		2.573+/-	1.344	ppm		
29	N WV 74'		172.754+/-	18.593	DEGR AZ	58	S GND PAR		-.824+/-	1.213	mph		
30	N CD/Byron		1.101+/-	.278	ppm	59	N Rel Hum		60.169+/-	.718	%		
31	N 74' Temp		78.541+/-	4.279	DEGR F	60	S GND VER		.311+/-	.467	mph		
32	N CD2/Byron		423.221+/-	7.001	ppm	61	N Solar Rad		51.774+/-	7.173	W/m <sup>2</sup>		
35	N HA 74'		5.846+/-	3.889	mph	64	S VA 55'		.759+/-	1.169	mph		

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	5.93+/-	2.33	188.9+/-	19.1	4.3+/-	16.1
02	17	19	21	4.97+/-	2.37	183.4+/-	20.9	4.8+/-	16.8
03	38	40	42	3.66+/-	1.72	179.4+/-	16.3	6.0+/-	12.4
04	41	43	45	3.12+/-	1.58	158.3+/-	41.3	5.7+/-	20.6
05	50	52	54	*****+/-*****		1.9+/-	4.7	235.3+/-	*****
06	56	58	60	2.45+/-	1.50	166.4+/-	30.6	11.5+/-	18.7

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2416 vehicles averaging 58.0 mph

Westbound Traffic											
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		Spd
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat 1	69	56.5	56	54.2	115	56.1	47	58.8	8	51.4	
Cat 2	115	58.9	177	57.0	152	57.6	121	59.2	105	50.8	
Cat 3	18	61.0	36	59.6	20	58.7	13	58.5	6	54.7	
Cat 4	8	66.4	20	62.3	5	60.5	7	61.9	5	53.6	
Cat 5	4	68.6	3	64.9	3	58.4	0		0		

Eastbound Traffic											
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		Spd
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat 1	27	64.7	53	56.3	60	57.6	40	55.9	34	44.1	
Cat 2	200	67.2	254	58.3	222	57.8	142	57.7	79	45.6	
Cat 3	20	69.7	36	59.6	31	58.0	15	58.0	4	44.6	
Cat 4	9	67.6	25	59.4	25	60.2	5	57.6	2	42.8	
Cat 5	1	72.5	8	60.6	9	58.8	2	48.4	0		

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	509	21.1	58.1	1567	64.9	59.8	199	8.2	60.8	111	4.6	60.9	30	1.2

Regular Channels													
Channel	Instrument		Value		Units	Channel	Instrument		Value		Units		
11	N TOP PER		7.422+/-	2.851	mph	37	N VA 102'		.347+/-	2.069	mph		
12	N Dasibi CO		1.950+/-	.365	ppm	38	S BOT PER		3.978+/-	1.733	mph		
13	N TOP PAR		1.150+/-	1.974	mph	39	N VA 74'		-.106+/-	1.482	mph		
14	N Dasibi O3		.015+/-	.002	ppm	40	S BOT PAR		-.365+/-	1.697	mph		
15	N TOP VER		.071+/-	1.409	mph	41	N GND PER		3.060+/-	1.846	mph		
16	N NOX/TECO		.165+/-	.047	ppm	42	S BOT VER		-.470+/-	.834	mph		
17	N BOT PER		6.282+/-	2.580	mph	43	N GND PAR		-.909+/-	2.415	mph		
19	N BOT PAR		.324+/-	1.949	mph	45	N GND VER		.076+/-	1.170	mph		
20	N ND2/TECO		.021+/-	.004	ppm	49	N Ecolyzer-1		*****+/-*****		ppm		

21	N BDT VER	.088+/-	1.072	mph	50	S TOP PER	5.186+/-	2.506	mph
22	N ND/TECD	.144+/-	.048	ppm	51	N Ecolyzer-2	.517+/-	.331	ppm
23	N HA 102'	10.256+/-	2.815	mph	52	S TOP PAR	*****	*****	mph
24	N THC/Byron	2.083+/-	.087	ppm	53	N Ecolyzer-3	1.841+/-	.624	ppm
25	N WV 102'	182.101+/-	12.543	DEGR AZ	54	S TOP VER	.334+/-	.878	ppm
26	N NMHC/Byro	1.843+/-	.541	ppm	55	N Ecolyzer-4	2.294+/-	.687	ppm
27	N Gnd Temp	76.889+/-	3.050	DEGR F	56	S GND PER	1.871+/-	1.333	ppm
28	N CH4/Byron	1.330+/-	.053	ppm	57	N Ecolyzer-5	2.829+/-	1.144	ppm
29	N WV 74'	172.871+/-	14.257	DEGR AZ	58	S GND PAR	-.027+/-	1.288	ppm
30	N CD/Byron	.544+/-	.275	ppm	59	N Re1 Hum	82.753+/-	1.061	%
31	N 74' Temp	73.621+/-	3.769	DEGR F	60	S GND VER	.298+/-	.688	ppm
32	N CD2/Byron	405.471+/-	4.085	ppm	61	N Solar Rad	39.574+/-	5.112	W/m**2
35	N HA 74'	8.242+/-	5.104	mph	64	S VA 55'	.546+/-	1.414	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.88+/- 2.87	188.8+/- 14.8	2.2+/- 12.0		
02	17 19 21	6.67+/- 2.58	182.5+/- 17.7	2.7+/- 10.4		
03	38 40 42	4.43+/- 1.77	185.4+/- 21.0	7.9+/- 12.8		
04	41 43 45	4.11+/- 1.96	163.0+/- 34.4	2.9+/- 18.6		
05	50 52 54	5.27+/- 1.91	187.0+/- 25.1	4.8+/- 10.3		
06	58 58 60	2.40+/- 1.31	182.8+/- 34.8	9.7+/- 25.1		

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10279 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	305	57.5	239	54.7	430	57.5	175	60.0	49	52.4
Cat2	502	59.5	774	57.1	593	58.9	526	60.4	476	51.9
Cat3	77	61.2	156	61.1	98	59.8	60	60.7	39	52.5
Cat4	51	65.0	91	63.2	33	59.2	21	61.2	16	50.5
Cat5	22	66.0	33	64.2	5	59.9	1	63.5	1	39.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	64.6	209	57.5	274	58.3	199	56.9	148	45.5
Cat2	840	67.1	973	59.0	872	58.3	657	58.7	377	46.4
Cat3	70	68.1	164	59.9	170	59.3	59	58.2	14	45.0
Cat4	48	67.3	100	59.8	100	60.4	23	59.5	6	41.8
Cat5	12	70.2	44	60.2	52	58.4	8	61.9	1	45.4

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	2114	20.8	58.6	6590	64.1	60.1	907	8.8	61.3	489	4.8	61.7	179	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	6.479+/-	2.848	37	N VA 102'	.500+/-	2.051
12	N Dasibi CD	1.850+/-	.502	38	S BDT PER	4.109+/-	1.982
13	N TDP PAR	1.103+/-	2.158	39	N VA 74'	.085+/-	1.508
14	N Dasibi O3	.015+/-	.002	40	S BDT PAR	.039+/-	1.674
15	N TDP VER	.225+/-	1.436	41	N GND PER	2.640+/-	1.913
16	N NDx/TECD	.167+/-	.051	42	S BDT VER	.402+/-	.728
17	N BDT PER	5.525+/-	2.677	43	N GND PAR	-.917+/-	2.287
19	N BDT PAR	.399+/-	2.110	45	N GND VER	.170+/-	1.080
20	N ND2/TECD	.021+/-	.005	48	N Ecolyzer-1	.811+/-	.296
21	N BDT VER	.177+/-	1.237	50	S TDP PER	4.916+/-	2.439
22	N ND/TECD	.146+/-	.051	51	N Ecolyzer-2	.563+/-	.355
23	N HA 102'	9.210+/-	2.846	52	S TOP PAR	*****	*****
24	N THC/Byron	2.155+/-	.098	53	N Ecolyzer-3	1.730+/-	.696
25	N WV 102'	184.305+/-	16.666	54	S TDP VER	.244+/-	.814
26	N NMHC/Byro	2.468+/-	.453	55	N Ecolyzer-4	2.209+/-	.729
27	N Gnd Temp	79.031+/-	2.654	56	S GND PER	2.186+/-	1.589
28	N CH4/Byron	1.395+/-	.118	57	N Ecolyzer-5	2.443+/-	1.330
29	N WV 74'	174.133+/-	18.071	58	S GND PAR	-.575+/-	1.545
30	N CD/Byron	.928+/-	.344	59	N Re1 Hum	59.093+/-	2.569
31	N 74' Temp	75.891+/-	3.853	60	S GND VER	.274+/-	.632
32	N CD2/Byron	425.797+/-	14.725	61	N Solar Rad	84.231+/-	21.846
35	N HA 74'	7.597+/-	4.520	64	S VA 55'	.615+/-	1.289

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.09+/- 2.79	189.8+/- 19.0	4.1+/- 15.1		
02	17 19 21	6.08+/- 2.63	183.7+/- 21.2	4.5+/- 15.5		
03	38 40 42	4.47+/- 2.08	182.4+/- 19.1	6.8+/- 11.8		
04	41 43 45	3.77+/- 1.80	162.0+/- 38.8	4.2+/- 20.0		
05	50 52 54	5.55+/- 2.44	188.2+/- 21.6	4.1+/- 10.5		
06	58 58 60	2.73+/- 1.75	173.5+/- 32.0	10.0+/- 21.9		

17:00:44 -- RESTART 3  
 17:00:45 -- 12/11/84  
 17:00:45 -- THIS IS A RESTART FILE (FILE 20 ON ZX1320).  
 17:09:11 -- RECALIBRATING CH 51 NCO-2  
 17:22:26 -- END RECAL OF CH 51 NCO-2

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2864 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	56.3	71	53.9	117	56.7	55	58.7	10	52.5
Cat2	125	58.5	178	55.7	151	57.6	146	59.7	107	51.8
Cat3	24	59.0	32	60.3	24	57.4	14	58.8	2	42.9
Cat4	13	63.6	15	62.8	9	56.5	7	61.9	3	47.1
Cat5	7	63.6	18	63.8	2	60.6	2	57.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	63.2	56	56.1	61	57.2	50	58.2	35	45.0
Cat2	230	64.7	276	56.7	218	55.9	164	56.4	97	46.7
Cat3	20	68.1	45	55.5	47	56.8	16	59.0	2	42.8
Cat4	6	68.6	32	58.1	29	59.6	1	55.9	1	41.2
Cat5	9	66.9	13	60.1	12	56.2	1	46.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	567	21.3	57.1	1690	63.4	58.2	226	8.5	59.9	117	4.4	61.5	64	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.507+/-	2.467	37	N VA 102'	3.375+/-	1.982
12	N Dasibi CO	2.344+/-	.595	38	S BOT PER	2.455+/-	1.201
13	N TOP PAR	.562+/-	1.601	39	N VA 74'	.124+/-	1.118
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	.127+/-	.907
15	N TOP VER	.086+/-	1.056	41	N GND PER	2.268+/-	1.417
16	N NOX/TECO	.198+/-	1.056	42	S BOT VER	.395+/-	.560
17	N BOT PER	4.430+/-	2.130	43	N GND PAR	-1.452+/-	1.774
19	N BOT PAR	.021+/-	1.620	45	N GND VER	.116+/-	.856
20	N NO2/TECO	.023+/-	.004	46	N Ecolyzer-1	1.251+/-	.285
21	N BOT VER	.139+/-	1.006	50	S TOP PER	3.008+/-	1.727
22	N NO/TECO	.175+/-	.045	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	7.275+/-	2.517	52	S TOP PAR	.263+/-	1.470
24	N THC/Byron	2.202+/-	.071	53	N Ecolyzer-3	2.236+/-	.750
25	N WV 102'	182.417+/-	13.867	54	S TOP VER	.331+/-	.571
26	N MMHC/Byro	2.861+/-	.250	55	N Ecolyzer-4	2.569+/-	.722
27	N Gnd Temp	75.123+/-	2.451	56	S GND PER	3.878+/-	.840
28	N CH4/Byron	1.356+/-	.037	57	N Ecolyzer-5	3.302+/-	1.254
29	N WV 74'	168.480+/-	15.427	58	S GND PAR	-.071+/-	.740
30	N CO/Byron	.963+/-	.165	59	N Rel Hum	66.282+/-	.739
31	N 74' Temp	72.583+/-	4.861	60	S GND VER	.177+/-	.305
32	N CO2/Byron	438.621+/-	17.343	61	N Solar Rad	25.011+/-	7.402
35	N HA 74'	6.078+/-	4.223	64	S VA 55'	.588+/-	.893

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.91+/- 2.49	185.2+/- 18.1	2.8+/- 12.0
02	17 19 21	4.81+/- 2.16	178.9+/- 20.0	3.8+/- 13.9
03	38 40 42	2.69+/- 1.23	184.7+/- 17.3	10.9+/- 15.8
04	41 43 45	3.29+/- 1.51	148.7+/- 33.5	2.2+/- 17.7
05	50 52 54	3.40+/- 1.78	188.4+/- 26.0	9.5+/- 16.2
06	56 58 60	1.15+/- .92	189.5+/- 35.2	16.6+/- 21.5

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 3023 vehicles averaging 53.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	106	56.4	63	52.8	127	57.1	63	56.3	11	53.7
Cat2	155	58.2	238	56.0	151	57.5	145	59.1	131	51.6
Cat3	14	61.3	39	59.7	42	58.4	21	58.5	5	53.4
Cat4	19	61.6	25	61.8	13	57.1	10	58.8	1	47.0
Cat5	6	64.4	7	62.3	1	52.9	1	54.2	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	58.2	31	50.7	35	52.9	65	51.7	40	43.0
Cat2	262	58.9	295	49.8	275	48.4	185	51.4	128	42.8
Cat3	22	58.2	44	49.2	45	47.8	18	51.2	4	45.0
Cat4	15	60.3	31	48.5	32	48.9	13	51.4	1	33.1
Cat5	4	59.9	25	45.8	20	49.1	3	50.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.6	575	19.0	53.3	1965	65.0	54.5	254	8.4	54.8	180	5.3	51.8	69	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.599+/-	2.118	37	N VA 102'	.403+/-	1.635
12	N Dasibi CO	2.783+/-	.456	38	S BOT PER	2.895+/-	1.035
13	N TOP PAR	.158+/-	1.494	39	N VA 74'	-.006+/-	1.015
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	-.135+/-	1.066
15	N TOP VER	.073+/-	1.056	41	N GND PER	2.204+/-	1.389
16	N NOX/TECO	.205+/-	.044	42	S BOT VER	-.297+/-	.496
17	N BOT PER	4.462+/-	2.370	43	N GND PAR	-1.849+/-	1.761
19	N BOT PAR	-.494+/-	1.374	45	N GND VER	.191+/-	.716
20	N NO2/TECO	.026+/-	.005	49	N Ecolyzer-1	1.409+/-	.231
21	N BOT VER	.124+/-	.857	50	S TOP PER	3.797+/-	1.633
22	N NO/TECO	.179+/-	.044	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	7.257+/-	2.113	52	S TOP PAR	-.058+/-	1.418
24	N THC/Byron	2.327+/-	.090	53	N Ecolyzer-3	2.307+/-	.706
25	N WV 102'	177.744+/-	13.268	54	S TOP VER	.234+/-	.646
26	N MMHC/Byro	2.929+/-	.534	55	N Ecolyzer-4	2.705+/-	.830
27	N Gnd Temp	73.415+/-	2.520	56	S GND PER	1.178+/-	1.030
28	N CH4/Byron	1.431+/-	.050	57	N Ecolyzer-5	3.556+/-	1.861
29	N WV 74'	166.820+/-	14.146	58	S GND PAR	-.297+/-	.803
30	N CO/Byron	1.583+/-	.208	59	N Rel Hum	67.693+/-	.810
31	N 74' Temp	73.180+/-	3.682	60	S GND VER	.207+/-	.438
32	N CO2/Byron	438.854+/-	19.447	61	N Solar Rad	14.533+/-	5.580
35	N HA 74'	6.451+/-	4.023	64	S VA 55'	.491+/-	.984

UUV Vector Calculations						
UUV	Channels		Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	5.88+/- 2.15	181.1+/- 14.3	1.8+/- 11.2	
02	17	19 21	4.78+/- 2.35	171.6+/- 22.7	2.9+/- 12.5	
03	38	40 42	3.13+/- 1.07	178.8+/- 18.2	6.7+/- 11.1	
04	41	43 45	3.44+/- 1.42	140.9+/- 32.0	3.2+/- 15.0	
05	50	52 54	4.09+/- 1.67	178.8+/- 18.7	5.3+/- 11.6	
06	56	58 60	1.49+/- 1.09	177.1+/- 34.4	13.1+/- 23.7	

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2626 vehicles averaging 57.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	54.7	97	53.0	117	55.5	52	57.6	12	48.7
Cat2	130	57.7	177	55.5	159	56.9	149	57.9	115	47.4
Cat3	11	56.5	37	59.1	24	56.4	15	56.7	12	48.9
Cat4	15	61.6	15	63.2	13	56.3	7	57.9	6	41.9
Cat5	5	59.9	7	60.8	2	52.1	0	.0	1	28.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	62.7	48	57.7	69	59.2	37	57.2	41	47.2
Cat2	204	66.9	268	59.5	233	59.1	150	59.3	104	47.3
Cat3	14	68.9	37	60.5	40	58.6	14	59.8	2	65.4
Cat4	8	70.9	27	60.4	22	60.3	3	55.8	0	.0
Cat5	2	66.2	4	61.0	7	62.8	1	63.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	586	22.3	57.8	1889	64.3	58.6	206	7.8	59.9	116	4.4	59.9	29	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.450+/- 2.467	mph	37	N VA 102'	.302+/- 1.940	mph
12	N Dasibi CD	2.406+/- .474	ppm	38	S BOT PER	3.710+/- 1.807	mph
13	N TOP PAR	-1.161+/- 1.737	mph	39	N VA 74'	-.161+/- 1.122	mph
14	N Dasibi 03	.011+/- .002	ppm	40	S BOT PAR	-.603+/- 1.289	mph
15	N TOP VER	-.034+/- .846	mph	41	N GND PER	2.586+/- 1.593	mph
16	N ND/TECO	.209+/- .047	ppm	42	S BOT VER	.226+/- .584	mph
17	N BOT PER	4.750+/- 2.581	mph	43	N GND PAR	-2.239+/- 1.787	mph
19	N BOT PAR	-1.420+/- 1.628	mph	45	N GND VER	.162+/- .736	mph
20	N ND2/TECO	.025+/- .005	ppm	49	N EcoLyzr-1	1.419+/- .237	ppm
21	N BOT VER	.066+/- .923	mph	50	S TOP PER	4.582+/- 2.382	mph
22	N ND/TECO	.183+/- .047	ppm	51	N EcoLyzr-2	1.133+/- .296	ppm
23	N HA 102'	8.545+/- 2.578	mph	52	S TOP PAR	-.728+/- 1.551	mph
24	N THC/Byron	2.472+/- .132	ppm	53	N EcoLyzr-3	2.124+/- .653	ppm
25	N WV 102'	166.420+/- 12.235	DEGR AZ	54	S TOP VER	.226+/- .722	ppm
26	N NMHC/Byro	2.840+/- .276	ppm	55	N EcoLyzr-4	2.610+/- .751	ppm
27	N Gnd Temp	74.275+/- 2.897	DEGR F	56	S GND PER	1.860+/- 1.247	ppm
28	N CH4/Byron	1.418+/- .076	ppm	57	N EcoLyzr-5	3.529+/- 1.483	ppm
29	N WV 74'	155.950+/- 13.847	DEGR AZ	58	S GND PAR	-.612+/- .970	mph
30	N CO/Byron	3.082+/- 1.037	ppm	59	N Rel Hum	70.379+/- 1.145	%
31	N 74' Temp	72.294+/- 2.439	DEGR F	60	S GND VER	-.191+/- .489	mph
32	N CO2/Byron	433.988+/- 32.043	ppm	61	N Solar Rad	10.945+/- 7.063	W/m <sup>2</sup>
35	N HA 74'	7.313+/- 3.860	mph	64	S VA 55'	.679+/- 1.014	mph

UUV Vector Calculations						
UUV	Channels		Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	6.81+/- 2.57	170.4+/- 13.7	.8+/- 8.8	
02	17	19 21	5.29+/- 2.59	162.4+/- 21.4	3.0+/- 15.0	
03	38	40 42	3.98+/- 1.95	173.9+/- 15.6	4.8+/- 9.6	
04	41	43 45	3.98+/- 1.52	140.7+/- 30.1	2.7+/- 13.0	
05	50	52 54	4.91+/- 2.46	173.3+/- 17.2	5.4+/- 10.3	
06	56	58 60	2.19+/- 1.34	189.8+/- 29.8	10.1+/- 18.7	

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2412 vehicles averaging 56.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	55.3	77	53.4	98	56.5	52	58.8	7	50.0
Cat2	119	56.8	188	55.2	148	56.5	115	58.7	120	50.5
Cat3	21	58.8	31	58.5	20	56.5	8	58.4	6	46.7
Cat4	10	60.2	22	61.5	14	58.8	7	59.1	1	47.3
Cat5	5	58.6	3	60.5	0	.0	2	59.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	63.9	40	55.6	52	57.6	48	55.5	32	49.3
Cat2	175	65.7	257	57.5	222	57.8	132	57.7	95	48.8
Cat3	10	68.7	34	57.2	39	58.6	13	58.8	3	42.1
Cat4	10	66.5	27	57.6	21	58.7	2	57.0	0	.0
Cat5	4	67.7	3	61.1	5	63.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	520	21.6	56.9	1571	65.1	58.0	185	7.7	59.8	114	4.7	62.0	22	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.731+/- 2.372	mph	37	N VA 102'	.267+/- 2.058	mph
12	N Dasibi CD	1.943+/- .417	ppm	38	S BOT PER	3.726+/- 2.043	mph
13	N TOP PAR	-1.145+/- 1.695	mph	39	N VA 74'	-.228+/- 1.275	mph
14	N Dasibi 03	.011+/- .003	ppm	40	S BOT PAR	-.559+/- 1.310	mph
15	N TOP VER	.040+/- 1.001	mph	41	N GND PER	2.567+/- 1.698	mph
16	N ND/TECO	.179+/- .047	ppm	42	S BOT VER	.111+/- .600	mph
17	N BOT PER	5.545+/- 2.294	mph	43	N GND PAR	-2.456+/- 1.734	mph
19	N BOT PAR	-1.561+/- 1.925	mph	45	N GND VER	.290+/- .764	mph
20	N ND2/TECO	.022+/- .005	ppm	49	N EcoLyzr-1	1.375+/- .274	ppm
21	N BOT VER	.009+/- .921	mph	50	S TOP PER	4.775+/- 2.274	ppm
22	N ND/TECO	.156+/- .047	ppm	51	N EcoLyzr-2	-.847+/- .301	ppm
23	N HA 102'	8.575+/- 2.355	mph	52	S TOP PAR	-.889+/- .536	mph
24	N 74' Temp	2.415+/- .160	ppm	53	N EcoLyzr-3	1.952+/- .535	ppm
25	N WV 102'	169.323+/- 13.459	DEGR AZ	54	S TOP VER	.189+/- .737	mph

26	N NMHC/Byro	2.688+/-	.153	ppm	55	N Ecolyzer-4	2.251+/-	.627	ppm
27	N Gnd Temp	74.118+/-	2.998	DEGR F	56	S GND PER	1.956+/-	1.446	mph
28	N CH4/Byron	1.299+/-	.104	ppm	57	N Ecolyzer-5	3.165+/-	1.265	ppm
29	N WV 74'	157.264+/-	14.921	DEGR A2	58	S GND PAR	.599+/-	1.060	mph
30	N CD/Byron	2.690+/-	.352	ppm	59	N Rel Hum	72.513+/-	.488	%
31	N 74' Temp	74.066+/-	2.965	DEGR F	60	S GND VER	.179+/-	.448	mph
32	N CO2/Byron	427.292+/-	17.914	ppm	61	N Solar Rad	10.582+/-	7.008	W/m**2
35	N HA 74'	7.748+/-	4.292	mph	64	S VA 55'	.597+/-	.857	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.12+/- 2.48	170.8+/- 14.6	1.5+/- 9.1
02	17 19 21	6.14+/- 2.30	163.8+/- 18.8	1.4+/- 10.2
03	38 40 42	3.99+/- 2.15	175.0+/- 16.7	4.2+/- 9.7
04	41 43 45	4.07+/- 1.64	136.7+/- 25.7	4.7+/- 12.8
05	50 52 54	5.12+/- 2.33	172.1+/- 18.3	4.6+/- 10.5
06	56 58 60	2.30+/- 1.53	172.8+/- 30.3	10.0+/- 22.0

Average for hourly period ending at 18:00:00  
Traffic Data  
 Total Traffic = 10725 vehicles averaging 56.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	366	55.7	308	53.3	459	56.5	222	58.4	40	50.6
Cat2	529	57.8	779	55.6	609	57.1	555	58.9	473	50.3
Cat3	70	59.0	139	59.4	110	57.4	58	58.2	25	48.8
Cat4	57	61.8	78	62.2	49	57.3	31	59.4	11	48.3
Cat5	25	62.1	35	62.6	5	55.6	5	57.7	1	28.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	112	61.8	175	55.5	217	57.2	201	55.2	148	44.9
Cat2	871	63.7	1096	55.7	948	55.0	631	55.9	424	45.5
Cat3	66	64.1	160	55.3	171	55.3	61	56.9	11	43.9
Cat4	39	65.8	117	56.0	104	56.3	19	52.9	2	37.1
Cat5	19	65.5	45	52.3	44	54.8	5	52.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	2248	21.0	56.2	6915	64.5	57.2	871	8.1	58.3	507	4.7	57.7	184	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.079+/-	2.418	37	N VA 102'	.336+/-	1.906
12	N Desibi CD	2.369+/-	.573	38	S BOT PER	3.206+/-	1.669
13	N TOP PAR	.404+/-	1.898	39	N VA 74'	-.070+/-	1.143
14	N Desibi O3	-.012+/-	.002	40	S BOT PAR	-.298+/-	1.194
15	N TOP VER	.036+/-	1.014	41	N GND PER	2.408+/-	1.537
16	N NOX/TECO	.198+/-	.047	42	S BOT VER	.255+/-	.572
17	N BOT PER	4.802+/-	2.390	43	N GND PAR	-2.008+/-	1.801
19	N BOT PAR	-.875+/-	1.770	45	N GND VER	.191+/-	.770
20	N NO2/TECO	.024+/-	.005	49	N Ecolyzer-1	1.366+/-	.265
21	N BOT VER	.084+/-	.927	50	S TOP PER	4.054+/-	2.146
22	N NO/TECO	.173+/-	.047	51	N Ecolyzer-2	.997+/-	.371
23	N HA 102'	7.921+/-	2.477	52	S TOP PAR	-.360+/-	1.565
24	N THC/Byron	2.356+/-	.154	53	N Ecolyzer-3	2.153+/-	.654
25	N WV 102'	173.855+/-	14.561	54	S TOP VER	.244+/-	.674
26	N NMHC/Byro	2.829+/-	.339	55	N Ecolyzer-4	2.533+/-	.756
27	N Gnd Temp	74.218+/-	2.725	56	S GND PER	1.475+/-	1.249
28	N CH4/Byron	1.377+/-	.088	57	N Ecolyzer-5	3.416+/-	1.502
29	N WV 74'	162.279+/-	15.610	58	S GND PAR	-.399+/-	.930
30	N CD/Byron	2.101+/-	1.016	59	N Rel Hum	69.266+/-	2.547
31	N 74' Temp	73.039+/-	3.544	60	S GND VER	.189+/-	.425
32	N CO2/Byron	434.617+/-	22.505	61	N Solar Rad	15.103+/-	8.788
35	N HA 74'	6.908+/-	4.151	64	S VA 55'	.588+/-	.964

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	6.44+/- 2.48	176.8+/- 16.4	1.7+/- 10.5
02	17 19 21	5.26+/- 2.41	189.1+/- 21.6	2.8+/- 13.0
03	38 40 42	3.45+/- 1.75	178.0+/- 17.4	6.6+/- 12.0
04	41 43 45	3.69+/- 1.56	141.8+/- 30.7	3.2+/- 14.7
05	50 52 54	4.39+/- 2.20	177.8+/- 21.1	6.2+/- 12.5
06	56 58 60	1.79+/- 1.33	176.9+/- 32.9	12.4+/- 21.7

18:26:39 -- BEGINNING ENDING ECDLYZER CALIBRATIONS  
 18:26:52 -- END CAL ON CO-5 CH 57  
 18:28:40 -- END CAL ON CH 55 NCO-4  
 18:32:15 -- POWER FAILURE CAUSED STOPPAGE ON AVERAGE PRINTING.  
 18:33:13 -- END CALIBRATION OF CO-3 CH 53  
 18:35:05 -- END CALIBRATION OF CO-2 CH 51  
 18:37:58 -- END CALIBRATION OF CH 49 NCO-1  
 18:41:38 -- BRINGING GROUND MET STAND IN.  
 18:42:00 -- READING ALL ECDLYZER ZEROS  
 18:43:41 -- TURNING OFF (INVALIDATING) ALL ECDLYZERS  
 18:44:10 -- ENDING DATA RUN DF 12/11/84.

MWH  
 Average for 15 minute period ending at 18:15:00  
Traffic Data  
 Total Traffic = 2194 vehicles averaging 56.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	70	55.7	77	52.9	101	55.7	37	57.3	11	51.4
Cat 2	96	56.4	183	54.8	153	56.2	99	57.6	98	50.1
Cat 3	11	59.6	38	57.8	16	58.7	9	57.3	3	48.9
Cat 4	13	60.4	9	61.6	7	54.3	3	58.2	2	47.9
Cat 5	2	61.1	1	64.9	1	64.3	3	53.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	18	63.1	58	58.8	57	57.6	50	56.2	25	45.6
Cat 2	167	64.7	254	58.0	219	57.4	117	57.4	59	46.4
Cat 3	13	65.0	27	57.4	24	56.0	5	57.0	1	40.3
Cat 4	8	65.4	13	58.1	18	58.3	5	59.2	0	0
Cat 5	3	65.6	5	57.1	6	62.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	502	22.9	56.9	1446	65.9	57.9	147	6.7	58.2	78	3.6	60.3	21	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.310+/-	2.819	37	N VA 102'	.289+/-	2.072
12	N Dasibi CD	1.790+/-	.408	38	S BOT PER	3.615+/-	1.744
13	N TOP PAR	-.450+/-	2.027	39	N VA 74'	-.105+/-	1.348
14	N Dasibi D3	-.013+/-	.002	40	S BOT PAR	-.299+/-	1.336
15	N TOP VER	-.143+/-	1.396	41	N GND PER	2.683+/-	1.687
16	N NOX/TECO	-.158+/-	.042	42	S BOT VER	-.259+/-	.728
17	N BOT PER	5.324+/-	2.461	43	N GND PAR	-1.404+/-	2.014
19	N BOT PAR	-.808+/-	1.989	45	N GND VER	.202+/-	.967
20	N NO2/TECO	.024+/-	.004	49	N Ecolyzer-1	1.187+/-	.256
21	N BOT VER	-.106+/-	1.158	50	S TOP PER	4.614+/-	2.102
22	N NO/TECO	-.134+/-	.043	51	N Ecolyzer-2	-.885+/-	.336
23	N HA 102'	8.856+/-	2.328	52	S TOP PAR	-.307+/-	1.689
24	N THC/Byron	2.260+/-	.075	53	N Ecolyzer-3	1.987+/-	.554
25	N WV 102'	171.915+/-	14.082	54	S TOP VER	-.274+/-	.912
26	N NMHC/Byro	2.907+/-	.211	55	N Ecolyzer-4	2.051+/-	.578
27	N Gnd Temp	72.685+/-	2.544	56	S GND PER	1.968+/-	1.398
28	N CH4/Byron	1.379+/-	.077	57	N Ecolyzer-5	2.738+/-	1.348
29	N WV 74'	166.153+/-	17.664	58	S GND PAR	-.467+/-	1.001
30	N CO/Byron	1.314+/-	.771	59	N Rel Hum	75.085+/-	1.071
31	N 74' Temp	72.190+/-	4.929	60	S GND VER	.243+/-	.528
32	N CO2/Byron	439.179+/-	7.787	61	N Solar Rad	10.219+/-	7.449
35	N HA 74'	7.686+/-	3.890	64	S YA 55'	.577+/-	1.206

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.80+/- 2.58	178.1+/- 18.1	4.3+/- 16.7
02	17 19 21	5.87+/- 2.42	172.6+/- 23.2	5.0+/- 17.0
03	38 40 42	3.89+/- 1.85	178.3+/- 17.1	6.6+/- 14.3
04	41 43 45	3.75+/- 1.69	151.4+/- 34.6	4.8+/- 17.0
05	50 52 54	5.04+/- 2.03	180.1+/- 22.8	5.9+/- 13.9
06	56 58 60	2.35+/- 1.35	173.7+/- 33.1	11.3+/- 20.8

Average for 15 minute period ending at 18:30:00  
Traffic Data  
 Total Traffic = 2056 vehicles averaging 56.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	80	55.4	78	52.7	98	57.1	44	57.5	12	48.8
Cat 2	91	56.7	168	55.0	133	57.6	104	57.8	90	50.0
Cat 3	9	59.1	26	59.6	7	55.8	7	59.8	2	48.5
Cat 4	10	60.4	14	61.3	3	54.3	3	61.0	0	0
Cat 5	1	60.0	2	60.4	1	50.6	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	25	63.8	53	57.2	58	58.2	35	56.6	18	46.5
Cat 2	173	64.3	213	57.6	175	57.2	135	57.1	53	45.4
Cat 3	11	63.8	33	56.3	27	54.8	6	53.3	0	0
Cat 4	7	62.9	15	58.3	17	58.4	2	56.9	0	0
Cat 5	3	64.7	8	59.3	5	54.9	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	502	24.4	57.0	1335	64.9	57.4	128	6.2	59.6	71	3.5	58.7	20	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.229+/-	2.359	37	N VA 102'	.477+/-	1.737
12	N Dasibi CO	1.813+/-	.362	38	S BOT PER	2.998+/-	1.291
13	N TOP PAR	-.132+/-	1.586	39	N VA 74'	-.144+/-	1.141
14	N Dasibi D3	-.011+/-	.001	40	S BOT PAR	-.216+/-	1.141
15	N TOP VER	-.045+/-	1.139	41	N GND PER	2.499+/-	1.329
16	N NOX/TECO	-.154+/-	.038	42	S BOT VER	-.310+/-	.509
17	N BOT PER	4.389+/-	2.340	43	N GND PAR	-1.315+/-	1.595
19	N BOT PAR	-.590+/-	1.573	45	N GND VER	.168+/-	.737
20	N NO2/TECO	.024+/-	.005	49	N Ecolyzer-1	1.237+/-	.252
21	N BOT VER	-.113+/-	.999	50	S TOP PER	3.567+/-	1.637
22	N NO/TECO	-.130+/-	.037	51	N Ecolyzer-2	-.975+/-	.310
23	N HA 102'	8.115+/-	1.950	52	S TOP PAR	-.073+/-	1.373
24	N THC/Byron	2.277+/-	.088	53	N Ecolyzer-3	2.099+/-	.544
25	N WV 102'	174.850+/-	12.560	54	S TOP VER	.437+/-	.733
26	N NMHC/Byro	2.835+/-	.351	55	N Ecolyzer-4	2.076+/-	.727
27	N Gnd Temp	72.920+/-	2.586	56	S GND PER	1.369+/-	1.092



28	N CH4/Byron	1.352+/-	.070	ppm	57	N Ecolyzer-5	2.967+/-	1.335	ppm
29	N WV 74'	164.156+/-	15.229	DEGR AZ	58	S GND PAR	.386+/-	.840	mph
30	N CD/Byron	1.327+/-	.490	ppm	59	N Rel Hum	77.528+/-	.715	%
31	N 74' Temp	72.607+/-	3.144	DEGR F	60	S GND VER	.225+/-	.414	mph
32	N CD2/Byron	444.553+/-	9.942	ppm	61	N Solar Rad	12.944+/-	6.695	W/m**2
35	N HA 74'	7.024+/-	4.102	mph	64	S VA 55'	.626+/-	1.032	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	6.56+/- 2.33	178.5+/- 16.0	2.2+/- 11.5
02	17 19 21	4.85+/- 2.25	172.7+/- 25.3	3.3+/- 15.1
03	38 40 42	3.26+/- 1.32	177.6+/- 20.5	7.4+/- 12.2
04	41 43 45	3.33+/- 1.31	181.8+/- 30.1	4.3+/- 14.8
05	50 52 54	3.94+/- 1.59	181.3+/- 22.4	9.5+/- 13.7
06	56 58 60	1.71+/- 1.11	175.0+/- 35.1	14.3+/- 23.3

Average for 15 minute period ending at 18:45:00  
 Traffic Data  
 Total Traffic = 1856 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	55.4	60	52.5	83	54.7	30	57.2	11	48.7
Cat2	94	56.9	186	55.1	134	56.1	105	57.9	74	49.0
Cat3	12	56.9	26	58.1	25	56.4	5	53.7	0	0
Cat4	10	59.9	13	60.5	7	56.9	5	48.0	0	0
Cat5	2	60.7	4	61.7	0	0	3	61.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	63.6	44	56.9	64	57.3	43	55.3	14	47.2
Cat2	156	64.9	160	58.7	153	58.4	100	57.3	41	46.3
Cat3	8	64.8	18	59.7	24	59.6	10	55.8	1	42.2
Cat4	4	62.0	12	58.5	12	61.7	1	48.7	0	0
Cat5	3	64.0	3	55.9	2	59.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	443	23.9	57.3	1203	64.8	58.3	129	7.0	58.8	64	3.4	60.6	17	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.377+/-	1.733	37	N VA 102'	-.015+/-	1.692
12	N Dasibi CD	2.100+/-	.407	38	S BDT PER	3.386+/-	1.580
13	N TOP PAR	-.831+/-	1.581	39	N VA 74'	-.086+/-	1.024
14	N Dasibi Q3	.011+/-	.001	40	S BDT PAR	-.274+/-	1.058
15	N TOP VER	.133+/-	1.034	41	N GND PER	2.221+/-	1.285
16	N NDX/TECO	.155+/-	.031	42	S BDT VER	-.214+/-	1.625
17	N BDT PER	3.623+/-	1.875	43	N GND PAR	-1.883+/-	1.486
19	N BDT PAR	-1.260+/-	1.395	44	N GND VER	.115+/-	1.783
20	N ND2/TECO	-.023+/-	.004	49	N Ecolyzer-1	*****	*****
21	N BDT VER	.209+/-	.776	50	S TOP PER	4.507+/-	1.950
22	N ND/TECO	.132+/-	.032	51	N Ecolyzer-2	*****	*****
23	N HA 102'	7.603+/-	1.829	52	S TOP PAR	-.456+/-	1.469
24	N THC/Byron	2.375+/-	.118	53	N Ecolyzer-3	*****	*****
25	N WV 102'	169.117+/-	12.124	54	S TOP VER	.021+/-	.738
26	N NMHC/Byro	3.008+/-	.245	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	72.795+/-	3.153	56	S GND PER	1.670+/-	1.176
28	N CH4/Byron	1.298+/-	.062	57	N Ecolyzer-5	*****	*****
29	N WV 74'	158.989+/-	13.133	58	S GND PAR	-.587+/-	1.147
30	N CD/Byron	1.825+/-	.489	59	N Rel Hum	79.065+/-	.618
31	N 74' Temp	70.270+/-	5.037	60	S GND VER	.177+/-	.513
32	N CD2/Byron	437.225+/-	5.981	61	N Solar Rad	12.629+/-	9.155
35	N HA 74'	6.095+/-	3.720	64	S VA 55'	.272+/-	.933

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	5.78+/- 1.74	172.5+/- 15.7	3.6+/- 13.4
02	17 19 21	4.40+/- 1.76	159.8+/- 25.2	4.4+/- 12.8
03	38 40 42	3.61+/- 1.62	177.9+/- 15.1	5.2+/- 12.4
04	41 43 45	*****	66.4+/- 57.8	169.7+/-*****
05	50 52 54	4.79+/- 2.01	178.1+/- 16.3	2.9+/- 12.2
06	56 58 60	2.10+/- 1.31	168.1+/- 32.3	10.8+/- 19.7

Average for 15 minute period ending at 19:00:00  
 Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****	mph	37	N VA 102'	*****	mph
12	N Dasibi CD	*****	ppm	38	S BDT PER	*****	mph
13	N TOP PAR	*****	mph	39	N VA 74'	*****	mph
14	N Dasibi Q3	*****	ppm	40	S BDT PAR	*****	mph
15	N TOP VER	*****	mph	41	N GND PER	*****	mph
16	N NDX/TECO	*****	ppm	42	S BDT VER	*****	mph
17	N BDT PER	*****	mph	43	N GND PAR	*****	mph

19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TDP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TDP VER	*****+/-*****	mph
26	N NMHC/Byron	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

<u>UVW Vector Calculations</u>						
<u>UVW</u>	<u>Channels</u>			<u>Vector Sum (mph)</u>	<u>Bearing Deg AZ</u>	<u>Elevation Angle (Deg)</u>
01	11	13	15	6.38+/- 2.29	176.8+/- 16.9	3.3+/- 14.1
02	17	19	21	5.05+/- 2.25	168.6+/- 25.1	4.2+/- 15.1
03	38	40	42	3.99+/- 1.63	177.9+/- 17.7	6.4+/- 13.0
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	4.59+/- 1.94	179.2+/- 20.9	6.2+/- 13.5
06	56	58	60	2.05+/- 1.29	172.3+/- 13.5	12.1+/- 21.0



Daily Hourly Average Maximums for each Active Channel

<u>Channel</u>	<u>Time</u>	<u>Value</u>
01	08:00:00	1082 vehicles
02	08:00:00	1196 vehicles
03	08:00:00	1399 vehicles
04	18:00:00	1593 vehicles
05	08:00:00	1316 vehicles
06	18:00:00	1484 vehicles
07	08:00:00	1155 vehicles
08	08:00:00	1138 vehicles
09	16:00:00	802 vehicles
10	16:00:00	636 vehicles
11	12:00:00	8.863 mph
12	08:00:00	5.759 ppm
13	16:00:00	3.759 mph
14	15:00:00	.024 ppm
15	08:00:00	.337 mph
16	08:00:00	.444 ppm
17	12:00:00	7.586 mph
19	16:00:00	2.828 mph
20	10:00:00	.030 ppm
21	08:00:00	.339 mph
22	09:00:00	.428 ppm
23	15:00:00	12.433 mph
24	08:00:00	5.121 ppm
25	16:00:00	201.548 DEGR AZ
26	09:00:00	4.803 ppm
27	14:00:00	81.420 DEGR F
28	07:00:00	2.920 ppm
29	16:00:00	191.657 DEGR AZ
30	09:00:00	6.221 ppm
31	15:00:00	76.756 DEGR F
32	08:00:00	516.629 ppm
35	12:00:00	10.874 mph
37	14:00:00	.504 mph
38	12:00:00	5.167 mph
39	08:00:00	.225 mph
40	16:00:00	1.879 mph
41	12:00:00	3.677 mph
42	16:00:00	.454 mph
43	15:00:00	.902 mph
45	07:00:00	.289 mph
49	09:00:00	4.931 ppm
50	12:00:00	6.421 mph
51	08:00:00	5.138 ppm
52	16:00:00	3.153 mph
53	08:00:00	7.027 ppm
54	13:00:00	.322 mph
55	08:00:00	8.025 ppm
56	12:00:00	3.068 mph
57	09:00:00	7.157 ppm
58	16:00:00	.758 mph
59	07:00:00	86.734 %
60	16:00:00	.347 mph
61	12:00:00	432.043 W/m**2
64	12:00:00	.740 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 12, 1984  
 06:07:12 -- 12/12/84  
 06:07:13 -- Data run of 12/12/84. operators are Michael Hlavinka and Guy Donaldson. May cut  
 06:07:14 -- this run short and try to do some work on the SF6 experiment. Met conditi  
 06:07:15 -- ons--was drizzling @ 515 hrs but is now clearing. Winds are from the south.  
 06:07:16 -- This is the 21st file of tape ZX1320.  
 06:07:27 -- TURNING ON BYRON 401 AND DASIBI CD  
 06:07:58 -- TURNING ON TECO NOX ANALYZER.  
 06:08:36 -- READ ALL INITIAL ECOLYZER ZEROS  
 06:09:56 -- BEGIN ECOLYZER INITIAL SPANNINGS  
 06:13:10 -- SPANNING CH 57 NCD-5  
 06:18:06 -- END SPAN OF CH 57 NCD-5  
 06:18:49 -- BEGIN SPANS OF CH 55 NCD-4  
 06:20:30 -- BEGIN SPAN OF NCD-3 CH 53  
 06:20:37 -- END SPAN OF CH 55 NCD-4  
 06:23:31 -- END SPAN OF NCD-3 CH 53  
 06:23:41 -- BEGIN SPAN OF NCD-2 CH 51  
 06:26:34 -- END SPAN OF CH 51 NCD-2  
 06:26:40 -- BEGIN SPAN OF NCD-1 CH 49  
 06:29:32 -- END ALL ECOLYZER CALIBRATIONS.

Average for 15 minute period ending at 06:15:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat1	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat1	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR A2	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR A2	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N R01 Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	23 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 06:30:00  
 Traffic Data  
 Total Traffic = 2057 vehicles averaging 57.8 mph

Westbound Traffic

Cat1	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	54.3	42	50.8	85	54.5	29	55.0	5	51.8
Cat2	140	57.2	201	53.2	170	55.4	155	56.3	76	49.5
Cat3	25	59.0	36	58.8	24	54.0	12	55.8	1	48.4
Cat4	12	60.5	17	58.1	13	55.9	6	55.8	0	.0
Cat5	6	61.3	1	59.7	1	50.8	4	57.7	0	.0

Eastbound Traffic

Cat1	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	66.1	49	60.0	71	58.8	53	58.9	9	48.5
Cat2	147	66.7	184	60.8	123	60.4	154	61.9	31	49.1
Cat3	10	67.2	19	60.9	8	61.8	10	60.0	0	.0
Cat4	8	67.6	10	63.5	13	63.4	0	.0	0	.0
Cat5	3	75.0	2	60.1	5	59.1	1	65.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.7	448	21.8	57.9	1361	66.2	58.3	145	7.0	60.4	79	3.8	61.5	23	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.156+/-	1.080	37	N VA 102'	.167+/-	1.742
12	N Dasibi CD	2.973+/-	.662	38	S BOT PER	.858+/-	.520
13	N TOP PAR	.133+/-	.511	39	N VA 74'	.195+/-	.465
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	.161+/-	.163
15	N TOP VER	.207+/-	.631	41	N GND PER	1.245+/-	.937
16	N NOX/TECO	.251+/-	.053	42	S BOT VER	.236+/-	.295
17	N BOT PER	1.479+/-	.924	43	N GND PAR	-2.322+/-	1.160

19	N B0T PAR	-.562+/-	.706	mph	45	N GND VER	.223+/-	.432	mph
20	N ND2/TECO	.017+/-	.006	ppm	49	N Ecolyzer-1	*****+/-*****		ppm
21	N B0T VER	.210+/-	.474	mph	50	S TDP PER	1.387+/-	.832	mph
22	N ND/TECO	.235+/-	.055	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	4.485+/-	1.253	mph	52	S TDP PAR	.063+/-	.422	mph
24	N THC/Byron	2.978+/-	.096	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	181.628+/-	9.878	DEGR AZ	54	S TDP VER	.110+/-	.317	mph
26	N NMHC/Byro	3.133+/-	.536	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	66.458+/-	2.263	DEGR F	56	S GND PER	.153+/-	.079	mph
28	N CH4/Byron	1.837+/-	.094	ppm	57	N Ecolyzer-5	4.468+/-	1.228	ppm
29	N WV 74'	169.398+/-	12.213	DEGR AZ	58	S GND PAR	.135+/-	.075	mph
30	N CD/Byron	1.755+/-	.250	ppm	59	N Rel Hum	85.848+/-	.604	%
31	N 74' Temp	68.256+/-	3.731	DEGR F	60	S GND VER	.120+/-	.091	mph
32	N CD2/Byron	447.810+/-	12.510	ppm	61	N Solar Rad	9.719+/-	5.016	W/m**2
35	N HA 74'	3.070+/-	4.181	mph	64	S VA 55'	.302+/-	.330	mph

UVW Vector Calculations

UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	2.35+/-	1.01	183.4+/-	19.3	7.8+/-	19.6
02	17 19 21	1.86+/-	.80	156.2+/-	31.3	7.4+/-	18.3
03	38 40 42	1.00+/-	.45	194.5+/-	23.1	17.6+/-	22.2
04	41 43 45	2.82+/-	1.20	117.5+/-	20.3	5.1+/-	11.6
05	50 52 54	1.51+/-	.81	185.7+/-	23.4	9.2+/-	18.1
06	56 58 60	.27+/-	.07	221.4+/-	21.7	27.1+/-	19.9

Average for 15 minute period ending at 06:45:00  
Traffic Data  
 Total Traffic = 2444 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	55.1	27	50.8	97	53.5	41	55.0	6	48.9
Cat2	164	56.9	247	53.8	181	55.3	165	56.4	78	50.0
Cat3	36	58.3	47	58.0	40	54.4	23	56.1	1	51.8
Cat4	31	61.5	28	58.8	11	54.4	7	57.4	1	49.7
Cat5	8	61.7	15	62.7	3	57.9	9	59.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	65.4	66	60.1	72	60.1	66	58.8	11	48.9
Cat2	177	67.5	183	62.1	157	60.7	190	61.0	35	49.1
Cat3	6	67.8	17	61.8	26	61.3	11	62.3	0	.0
Cat4	8	69.0	17	60.1	16	62.7	1	67.6	0	.0
Cat5	4	63.6	6	60.1	3	64.2	2	59.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	489	20.0	58.3	1578	64.6	58.3	207	8.5	60.4	120	4.9	61.5	50	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.380+/-	1.374	37	N VA 102'	.140+/-	1.617
12	N Dasibi CD	3.387+/-	.447	38	S B0T PER	1.219+/-	.654
13	N TOP PAR	.574+/-	.891	39	N VA 74'	.104+/-	.576
14	N Dasibi D3	.011+/-	.002	40	S B0T PAR	.152+/-	.275
15	N TOP VER	.059+/-	.882	41	N GND PER	1.520+/-	1.150
16	N ND4/TECO	.285+/-	.055	42	S B0T VER	.200+/-	.315
17	N B0T PER	2.248+/-	1.426	43	N GND PAR	-2.139+/-	1.326
18	N B0T PAR	-.178+/-	.833	45	N GND VER	.170+/-	.531
20	N ND2/TECO	.017+/-	.005	49	N Ecolyzer-1	1.268+/-	.237
21	N B0T VER	.010+/-	.543	50	S TDP PER	1.883+/-	.836
22	N ND/TECO	.249+/-	.057	51	N Ecolyzer-2	1.058+/-	.373
23	N HA 102'	5.607+/-	1.447	52	S TDP PAR	.420+/-	.603
24	N THC/Byron	3.190+/-	.092	53	N Ecolyzer-3	2.428+/-	1.018
25	N WV 102'	187.905+/-	10.610	54	S TDP VER	.215+/-	.343
26	N NMHC/Byro	3.258+/-	.466	55	N Ecolyzer-4	3.439+/-	.966
27	N Gnd Temp	67.657+/-	2.435	56	S GND PER	.190+/-	.254
28	N CH4/Byron	1.832+/-	.084	57	N Ecolyzer-5	4.027+/-	1.121
29	N WV 74'	176.651+/-	13.012	58	S GND PAR	.136+/-	.083
30	N CD/Byron	1.404+/-	.215	59	N Rel Hum	85.838+/-	.448
31	N 74' Temp	64.452+/-	3.163	60	S GND VER	.143+/-	.097
32	N CD2/Byron	459.534+/-	10.722	61	N Solar Rad	9.764+/-	3.894
35	N HA 74'	4.243+/-	4.132	64	S VA 55'	.305+/-	.367

UVW Vector Calculations

UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	3.62+/-	1.33	188.8+/-	17.2	2.9+/-	14.3
02	17 19 21	2.51+/-	1.34	173.6+/-	28.5	2.9+/-	19.6
03	38 40 42	1.32+/-	.63	180.6+/-	14.0	11.5+/-	18.7
04	41 43 45	2.93+/-	1.31	126.1+/-	28.3	3.0+/-	13.9
05	50 52 54	1.64+/-	.90	200.3+/-	28.1	13.8+/-	18.7
06	56 58 60	.32+/-	.24	222.2+/-	23.7	30.8+/-	19.6

Average for 15 minute period ending at 07:00:00  
Traffic Data  
 Total Traffic = 2519 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	92	55.9	24	52.5	107	55.8	45	57.3	5	49.4
Cat2	134	58.2	254	55.2	157	56.4	161	57.1	114	50.9
Cat3	25	59.1	38	60.2	26	54.4	21	57.0	8	48.8
Cat4	18	63.3	25	60.1	18	57.0	8	59.9	3	46.1
Cat5	8	64.6	12	63.7	1	53.9	8	56.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	66.0	70	60.0	102	59.7	73	59.1	22	47.7
Cat2	174	67.5	217	62.5	163	62.0	181	61.8	38	47.6
Cat3	13	70.2	21	62.3	21	63.9	13	58.5	2	40.1
Cat4	8	70.2	13	62.3	14	66.0	5	61.8	0	.0
Cat5	0	.0	4	66.1	3	63.1	1	60.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	589	23.4	59.1	1593	63.2	59.4	188	7.5	61.5	112	4.4	62.2	37	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	2.929+/-	1.197	mph	37	N VA 102'	.224+/-	1.538	mph
12	N Dasibi CD	2.807+/-	.510	ppm	38	S BDT PER	1.017+/-	.557	mph
13	N TOP PAR	.742+/-	.783	mph	39	N VA 74'	.082+/-	.502	mph
14	N Dasibi O3	.010+/-	.002	ppm	40	S BDT PAR	.161+/-	.229	mph
15	N TOP VER	.182+/-	.658	mph	41	N GND PER	1.524+/-	1.367	mph
16	N ND/TECD	.238+/-	.052	ppm	42	S BDT VER	.253+/-	.378	mph
17	N BDT PER	1.786+/-	1.137	mph	43	N GND PAR	-1.782+/-	1.313	mph
19	N BDT PAR	.094+/-	.853	mph	45	N GND VER	.124+/-	.482	mph
20	N ND2/TECD	.017+/-	.006	ppm	49	N EcoLyzer-1	1.234+/-	.234	ppm
21	N BDT VER	.174+/-	.554	mph	50	S TOP PER	1.563+/-	.999	mph
22	N ND/TECD	.221+/-	.054	ppm	51	N EcoLyzer-2	1.054+/-	.337	ppm
23	N HA 102'	5.178+/-	1.289	mph	52	S TOP PAR	.585+/-	.623	mph
24	N THC/Byron	2.949+/-	.169	ppm	53	N EcoLyzer-3	2.268+/-	.904	ppm
25	N WV 102'	190.644+/-	12.047	DEGR AZ	54	S TOP VER	.240+/-	.470	mph
26	N NMHC/Byro	3.203+/-	.621	ppm	55	N EcoLyzer-4	3.226+/-	.800	ppm
27	N Gnd Temp	56.667+/-	2.370	DEGR F	56	S GND PER	.205+/-	.249	mph
28	N CH4/Byron	1.772+/-	.118	ppm	57	N EcoLyzer-5	3.560+/-	1.190	ppm
29	N WV 74'	179.414+/-	14.064	DEGR AZ	58	S GND PAR	.129+/-	.081	mph
30	N CD/Byron	2.280+/-	.232	ppm	59	N Rel Hum	85.654+/-	.484	%
31	N 74' Temp	67.266+/-	4.588	DEGR F	60	S GND VER	.138+/-	.090	mph
32	N CO2/Byron	440.482+/-	30.278	ppm	61	N Solar Rad	11.899+/-	4.912	W/m**2
35	N HA 74'	3.549+/-	3.766	mph	64	S VA 55'	.402+/-	.455	mph

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	3.22+/-	1.14	193.3+/-	16.2	5.7+/-	17.2
02	17	19	21	2.13+/-	1.00	180.7+/-	34.3	8.9+/-	22.4
03	38	40	42	1.15+/-	.55	192.8+/-	17.7	15.2+/-	18.9
04	41	43	45	2.73+/-	1.38	130.5+/-	31.0	2.8+/-	14.4
05	50	52	54	1.86+/-	.99	203.0+/-	23.8	13.1+/-	19.8
06	56	58	60	.32+/-	.23	218.9+/-	24.0	31.1+/-	19.7

Average for hourly period ending at 07:00:00  
 Traffic Data  
 Total Traffic = 7752 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	253	55.1	119	51.6	325	54.7	135	56.0	21	49.8
Cat2	490	57.4	767	54.2	571	55.8	534	56.7	291	50.1
Cat3	92	58.7	133	58.3	98	54.4	61	56.6	12	48.5
Cat4	66	61.6	75	59.1	42	55.8	22	57.8	4	47.0
Cat5	25	62.7	29	62.8	5	55.6	22	58.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	146	55.7	207	59.9	280	59.5	208	59.0	44	48.2
Cat2	544	67.2	616	61.9	484	61.1	511	61.5	118	48.6
Cat3	33	68.5	66	61.5	61	62.4	35	60.2	2	40.1
Cat4	24	68.9	44	61.8	45	63.8	7	62.3	0	.0
Cat5	7	68.5	12	62.1	12	60.8	4	61.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	1718	22.2	58.5	4996	64.4	58.7	593	7.6	60.7	329	4.2	61.7	116	1.5

Regular Channels

Channel	Instrument	Value		Units	Channel	Instrument	Value		Units
11	N TOP PER	2.736+/-	1.306	mph	37	N VA 102'	.203+/-	1.621	mph
12	N Dasibi CD	2.920+/-	.667	ppm	38	S BDT PER	1.012+/-	.600	mph
13	N TOP PAR	.420+/-	.762	mph	39	N VA 74'	.125+/-	.528	mph
14	N Dasibi O3	.012+/-	.003	ppm	40	S BDT PAR	.161+/-	.218	mph
15	N TOP VER	.171+/-	.656	mph	41	N GND PER	1.395+/-	1.154	mph
16	N ND/TECD	.245+/-	.054	ppm	42	S BDT VER	.222+/-	.326	mph
17	N BDT PER	1.787+/-	1.175	mph	43	N GND PAR	-2.102+/-	1.255	mph
19	N BDT PAR	-.227+/-	.814	mph	45	N GND VER	-.173+/-	.477	mph
20	N ND2/TECD	.017+/-	.005	ppm	49	N EcoLyzer-1	*****	*****	ppm
21	N BDT VER	.145+/-	.518	mph	50	S TOP PER	1.431+/-	.935	mph
22	N ND/TECD	.230+/-	.055	ppm	51	N EcoLyzer-2	*****	*****	ppm
23	N HA 102'	5.031+/-	1.365	mph	52	S TOP PAR	.311+/-	.570	mph
24	N THC/Byron	3.020+/-	.153	ppm	53	N EcoLyzer-3	*****	*****	ppm
25	N WV 102'	185.386+/-	11.573	DEGR AZ	54	S TOP VER	.185+/-	.372	mph
26	N NMHC/Byro	3.179+/-	.500	ppm	55	N EcoLyzer-4	*****	*****	ppm
27	N Gnd Temp	67.241+/-	2.680	DEGR F	56	S GND PER	.176+/-	.198	mph
28	N CH4/Byron	1.810+/-	.098	ppm	57	N EcoLyzer-5	*****	*****	ppm
29	N WV 74'	174.256+/-	13.628	DEGR AZ	58	S GND PAR	.132+/-	.078	mph
30	N CD/Byron	1.794+/-	.412	ppm	59	N Rel Hum	85.820+/-	.514	%
31	N 74' Temp	66.279+/-	4.127	DEGR F	60	S GND VER	.135+/-	.091	mph
32	N CO2/Byron	450.237+/-	20.245	ppm	61	N Solar Rad	10.599+/-	4.676	W/m**2
35	N HA 74'	3.513+/-	4.003	mph	64	S VA 55'	.339+/-	.389	mph

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	2.98+/-	1.25	187.7+/-	18.7	6.2+/-	18.2
02	17	19	21	2.11+/-	1.07	169.4+/-	32.0	6.8+/-	19.8
03	38	40	42	1.14+/-	.56	193.1+/-	19.4	14.8+/-	20.5
04	41	43	45	2.82+/-	1.27	123.4+/-	27.1	3.8+/-	13.3
05	50	52	54	1.64+/-	.92	195.2+/-	26.0	12.1+/-	18.9
06	56	58	60	.30+/-	.18	221.1+/-	23.1	30.5+/-	19.5

Average for 15 minute period ending at 07:15:00  
 Traffic Data  
 Total Traffic = 2698 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	56.5	22	52.8	92	56.2	47	57.0	14	51.7
Cat2	154	58.6	223	55.2	174	57.0	202	57.8	89	49.6
Cat3	17	59.6	57	58.9	32	57.2	25	55.7	7	49.2
Cat4	23	62.7	27	60.4	18	55.8	12	58.3	3	51.1
Cat5	11	63.5	9	62.7	4	57.8	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	65.9	98	59.4	114	59.1	88	58.5	21	45.5
Cat2	218	66.8	211	61.3	178	59.9	189	59.9	36	46.8
Cat3	14	67.8	36	61.9	24	61.8	7	61.6	2	47.2
Cat4	9	68.5	22	61.2	15	60.9	2	61.7	0	.0
Cat5	2	69.4	1	64.0	7	61.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	640	23.7	58.8	1574	62.0	59.4	221	8.2	60.6	129	4.8	62.7	34	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.495+/-	1.170	37	N VA 102'	.152+/-	1.125
12	N Dasibi CD	3.440+/-	.560	38	S BOT PER	.993+/-	.696
13	N TOP PAR	.281+/-	.844	39	N VA 74'	.122+/-	.377
14	N Dasibi D3	.012+/-	.003	40	S BOT PAR	.153+/-	.162
15	N TOP VER	.081+/-	.584	41	N GND PER	1.257+/-	1.089
16	N NOX/TECD	.288+/-	.058	42	S BOT VER	.212+/-	.186
17	N BOT PER	1.827+/-	1.057	43	N GND PAR	-2.100+/-	1.325
18	N BOT PAR	-.330+/-	1.002	44	N GND VER	.174+/-	.375
19	N NO2/TECD	.017+/-	.007	45	N GND VER	1.555+/-	.266
20	N BOT VER	.156+/-	.616	46	S TOP PER	1.464+/-	.871
21	N NO/TECD	.272+/-	.062	47	N Ecolyzer-1	1.360+/-	.334
22	N BOT VER	.156+/-	.616	48	S TOP PAR	.127+/-	.732
23	N HA 102'	4.711+/-	1.081	49	N Ecolyzer-2	2.704+/-	1.036
24	N THC/Byron	2.879+/-	.141	50	S TOP VER	.186+/-	.215
25	N WV 102'	183.428+/-	12.464	51	N Ecolyzer-3	3.748+/-	.575
26	N NMHC/Byro	3.464+/-	.264	52	S GND PER	.181+/-	.220
27	N Gnd Temp	68.855+/-	2.833	53	N Ecolyzer-4	4.434+/-	1.173
28	N CH4/Byron	1.685+/-	.059	54	S GND PAR	.094+/-	.193
29	N WV 74'	173.975+/-	16.763	55	N Rel Hum	85.898+/-	.478
30	N CD/Byron	2.254+/-	.553	56	S GND VER	.127+/-	.080
31	N 74' Temp	67.631+/-	3.122	57	N Solar Rad	10.809+/-	2.807
32	N CD2/Byron	504.804+/-	10.637	58	S VA 55'	.314+/-	.297
33	N HA 74'	3.744+/-	2.747	59			
34				60			
35				61			
				62			
				63			
				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.81+/- 1.01	188.1+/- 26.8	3.8+/- 17.6
02	17 19 21	2.25+/- .98	170.6+/- 33.0	5.5+/- 20.0
03	38 40 42	1.08+/- .68	196.6+/- 19.6	16.3+/- 15.4
04	41 43 45	2.74+/- 1.27	122.0+/- 28.9	5.0+/- 12.7
05	50 52 54	1.59+/- .83	152.6+/- 28.6	11.5+/- 16.6
06	56 58 60	.30+/- .24	219.0+/- 25.8	28.9+/- 17.6

Average for 15 minute period ending at 07:30:00  
 Traffic Data  
 Total Traffic = 2973 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	56.9	14	52.6	112	55.6	50	58.9	20	52.6
Cat2	134	58.9	268	55.7	183	57.2	210	57.4	109	50.1
Cat3	34	61.7	39	60.1	38	57.1	27	57.6	3	44.5
Cat4	21	63.5	32	62.8	16	56.8	11	56.3	7	52.1
Cat5	10	65.0	10	62.0	1	53.0	3	54.0	1	44.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	65.1	71	58.3	97	57.8	95	58.5	43	47.5
Cat2	206	66.7	268	59.8	190	58.0	218	59.5	66	46.7
Cat3	22	66.2	42	61.1	28	59.4	15	61.6	0	.0
Cat4	17	68.6	31	61.8	29	60.2	2	64.9	0	.0
Cat5	1	73.1	7	62.7	20	60.2	1	64.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	653	22.0	58.1	1852	62.3	60.1	248	8.3	61.4	166	5.6	61.3	54	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.575+/-	1.715	37	N VA 102'	.252+/-	.938
12	N Dasibi CD	3.286+/-	.411	38	S BOT PER	1.207+/-	.811
13	N TOP PAR	1.400+/-	1.110	39	N VA 74'	.232+/-	.704
14	N Dasibi D3	.012+/-	.002	40	S BOT PAR	.228+/-	.479
15	N TOP VER	.079+/-	.858	41	N GND PER	1.618+/-	1.198
16	N NOX/TECD	.250+/-	.045	42	S BOT VER	.314+/-	.606
17	N BOT PER	2.343+/-	1.553	43	N GND PAR	-1.142+/-	1.427
18	N BOT PAR	.609+/-	.995	44	N GND VER	.088+/-	.613
19	N NO2/TECD	.019+/-	.005	45	N GND VER	1.650+/-	.273
20	N BOT VER	-.049+/-	.796	46	S TOP PER	2.092+/-	1.543
21	N NO/TECD	.232+/-	.046	47	N Ecolyzer-1	1.850+/-	.213
22	N HA 102'	6.678+/-	1.516	48	S TOP PAR	.862+/-	1.001
23	N THC/Byron	2.975+/-	.091	49	N Ecolyzer-2	2.565+/-	.830
24	N WV 102'	191.002+/-	11.840	50	S TOP VER	.336+/-	.615
25	N NMHC/Byro	3.351+/-	.365	51	N Ecolyzer-3	3.387+/-	.798
26	N Gnd Temp	65.859+/-	2.617	52	S GND PER	.206+/-	.197
27	N CH4/Byron	1.593+/-	.083	53	N Ecolyzer-4	3.484+/-	1.094
28	N WV 74'	182.255+/-	16.275	54	S GND PAR	.104+/-	.181
29	N CD/Byron	2.703+/-	.519	55	N Rel Hum	85.784+/-	.358
30	N 74' Temp	67.318+/-	2.905	56	S GND VER	.152+/-	.206
31	N CD2/Byron	468.002+/-	15.607	57	N Solar Rad	22.890+/-	10.341
32	N HA 74'	5.317+/-	2.163	58	S VA 55'	.446+/-	.710
33				59			
34				60			
35				61			
				62			
				63			
				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.13+/- 1.60	202.2+/- 18.8	3.7+/- 16.5
02	17 19 21	2.78+/- 1.47	194.5+/- 30.8	1.5+/- 24.7
03	38 40 42	1.44+/- .88	195.4+/- 22.8	17.1+/- 23.6
04	41 43 45	2.50+/- 1.22	149.4+/- 37.7	2.1+/- 17.8
05	50 52 54	2.55+/- 1.57	204.9+/- 23.9	15.1+/- 22.6
06	56 58 60	.36+/- .25	217.0+/- 26.4	31.1+/- 22.9

Average for 15 minute period ending at 07:45:00  
 Traffic Data  
 Total Traffic = 3005 vehicles averaging 58.1 mph

Westbound Traffic

	Radar-1		Radar-3		Radar-5		Radar-7		Radar-9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	57.1	28	51.9	113	55.0	42	56.6	18	50.8
Cat2	166	59.4	265	54.5	168	56.8	211	56.6	131	50.5
Cat3	23	61.5	53	59.2	49	55.8	28	57.5	5	48.9
Cat4	19	63.1	30	62.0	19	55.6	19	57.4	5	49.5
Cat5	9	64.8	8	63.6	5	53.9	3	54.5	0	.0

Eastbound Traffic

	Radar-2		Radar-4		Radar-6		Radar-8		Radar-10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	66.2	86	58.7	90	59.2	75	58.8	46	47.8
Cat2	241	66.6	254	59.5	173	58.8	207	58.4	69	48.7
Cat3	21	69.1	44	59.7	35	59.7	14	57.0	0	.0
Cat4	11	68.6	20	60.0	29	58.7	3	58.8	1	48.3
Cat5	3	64.9	8	61.3	15	61.7	2	54.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	639	21.3	57.9	1885	62.7	59.2	272	9.1	60.1	156	5.2	61.2	53	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.277+/-	1.489	37	N VA 102'	.149+/-	.801
12	N Desib; CD	3.211+/-	.558	38	S BOT PER	1.415+/-	.897
13	N TOP PAR	.890+/-	.901	39	N VA 74'	.066+/-	.590
14	N Desib; D3	.012+/-	.002	40	S BOT PAR	.227+/-	.507
15	N TOP VER	.134+/-	.828	41	N GND PER	1.621+/-	1.196
16	N NDX/TECO	.289+/-	.065	42	S BOT VER	.175+/-	.417
17	N BOT PER	2.069+/-	1.460	43	N GND PAR	-1.754+/-	1.480
18	N BOT PAR	.084+/-	.928	45	N GND VER	.190+/-	.616
20	N ND2/TECO	.021+/-	.005	49	N Ecolyzer-1	1.747+/-	.205
21	N BOT VER	.208+/-	.593	50	S TDP PER	1.979+/-	1.275
22	N ND/TECO	.248+/-	.066	51	N Ecolyzer-2	1.551+/-	.377
23	N HA 102'	5.732+/-	1.309	52	S TDP PAR	.836+/-	.869
24	N THC/Byron	3.113+/-	.208	53	N Ecolyzer-3	2.893+/-	.885
25	N WV 102'	190.910+/-	11.273	54	S TDP VER	.211+/-	.494
26	N NMHC/Byro	3.884+/-	.129	55	N Ecolyzer-4	3.748+/-	.851
27	N Gnd Temp	68.204+/-	2.579	56	S GND PER	.191+/-	.162
28	N CH4/Byron	1.599+/-	.106	57	N Ecolyzer-5	3.737+/-	1.172
29	N WV 74'	181.303+/-	13.434	58	S GND PAR	.112+/-	.159
30	N CO/Byron	3.157+/-	.339	59	N Rel Hum	85.084+/-	.468
31	N 74' Temp	67.005+/-	3.685	60	S GND VER	.153+/-	.172
32	N CO2/Byron	459.371+/-	8.482	61	N Solar Rad	39.376+/-	1.842
35	N HA 74'	4.836+/-	2.051	64	S VA 55'	.385+/-	.464

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.60+/- 1.42	196.9+/- 18.6	4.5+/- 12.8
02	17 19 21	2.41+/- 1.36	185.6+/- 32.5	8.3+/- 21.0
03	38 40 42	1.57+/- .94	193.3+/- 23.1	9.8+/- 17.0
04	41 43 45	2.82+/- 1.41	138.8+/- 33.8	5.1+/- 15.6
05	50 52 54	2.37+/- 1.30	205.8+/- 24.5	10.7+/- 17.3
06	56 58 60	.33+/- .21	216.8+/- 22.2	30.9+/- 22.9

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 3044 vehicles averaging 58.2 mph

Westbound Traffic

	Radar-1		Radar-3		Radar-5		Radar-7		Radar-9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	57.5	36	53.2	124	55.2	59	56.3	11	49.7
Cat2	155	59.1	232	54.5	200	55.6	210	56.4	151	50.8
Cat3	23	62.1	60	59.4	38	54.6	29	55.0	5	49.5
Cat4	35	62.9	30	60.8	20	56.5	24	56.8	2	46.1
Cat5	14	65.0	14	62.0	0	.0	8	54.3	0	.0

Eastbound Traffic

	Radar-2		Radar-4		Radar-6		Radar-8		Radar-10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	65.0	74	59.5	122	59.9	75	58.8	46	48.0
Cat2	220	67.6	236	60.8	180	59.4	167	59.3	61	47.9
Cat3	17	67.0	47	60.7	35	60.4	13	56.9	3	46.6
Cat4	9	69.7	26	61.2	25	62.0	3	60.8	1	43.5
Cat5	3	71.4	7	63.4	8	61.3	1	58.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	712	23.4	57.9	1832	60.2	58.9	270	8.9	60.6	175	5.7	62.2	55	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.635+/-	1.552	37	N VA 102'	.250+/-	.833
12	N Desib; CD	3.425+/-	.603	38	S BOT PER	1.607+/-	1.021
13	N TOP PAR	.953+/-	.995	39	N VA 74'	.086+/-	.690
14	N Desib; D3	.012+/-	.002	40	S BOT PAR	.343+/-	.498
15	N TOP VER	.198+/-	.803	41	N GND PER	1.477+/-	1.146
16	N NDX/TECO	.271+/-	.064	42	S BOT VER	.081+/-	.439
17	N BOT PER	1.841+/-	1.283	43	N GND PAR	-1.610+/-	1.214
19	N BOT PAR	.278+/-	.947	45	N GND VER	.141+/-	.502
20	N ND2/TECO	.023+/-	.006	49	N Ecolyzer-1	1.931+/-	.239
21	N BOT VER	.236+/-	.725	50	S TDP PER	2.206+/-	1.557
22	N ND/TECO	.249+/-	.064	51	N Ecolyzer-2	1.874+/-	.431
23	N HA 102'	5.898+/-	1.439	52	S TDP PAR	.842+/-	.823
24	N THC/Byron	2.736+/-	.113	53	N Ecolyzer-3	3.286+/-	1.006
25	N WV 102'	194.083+/-	11.815	54	S TDP VER	.160+/-	.496
26	N NMHC/Byro	3.338+/-	.367	55	N Ecolyzer-4	4.164+/-	.898
27	N Gnd Temp	69.080+/-	3.066	56	S GND PER	.325+/-	.495
28	N CH4/Byron	1.539+/-	.086	57	N Ecolyzer-5	3.929+/-	1.047



29	N WV 74'	184.822+/-	14.462	DEGR AZ	58	S GND PAR	.101+/-	.225	mph
30	N CD/Byron	2.565+/-	1.173		59	N Rel Hum	84.367+/-	.401	%
31	N 74' Temp	67.138+/-	1.954	DEGR F	60	S GND VER	.104+/-	.258	mph
32	N CO2/Byron	483.309+/-	27.894		61	N Solar Rad	37.741+/-	5.503	W/m <sup>2</sup>
35	N HA 74'	4.637+/-	2.006	mph	64	S VA 55'	.378+/-	.539	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.10+/- 1.51	202.5+/- 23.3	7.2+/- 19.0
02	17 19 21	2.27+/- 1.20	180.1+/- 32.3	8.6+/- 22.9
03	38 40 42	1.75+/- 1.06	194.8+/- 17.3	7.8+/- 18.7
04	41 43 45	2.51+/- 1.24	134.6+/- 33.4	4.8+/- 19.9
05	50 52 54	2.57+/- 1.53	208.0+/- 23.0	10.3+/- 21.9
06	56 58 60	.49+/- .50	212.5+/- 25.0	24.1+/- 29.2

Average for hourly period ending at 08:00:00  
Traffic Data  
 Total Traffic = 11720 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	323	57.0	100	52.7	441	55.4	198	56.7	63	51.3
Cat2	609	59.0	988	55.0	725	56.6	833	57.0	480	50.3
Cat3	97	61.4	209	59.4	197	56.1	109	56.5	20	48.5
Cat4	98	63.0	119	61.6	71	56.2	66	57.2	17	50.5
Cat5	44	64.6	41	62.5	10	55.4	14	54.2	1	44.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	275	65.8	330	59.0	423	59.0	333	58.7	158	47.5
Cat2	885	66.9	969	60.3	721	59.0	781	59.3	252	47.7
Cat3	74	67.5	169	60.8	122	60.2	48	59.0	5	46.9
Cat4	46	69.1	99	61.1	38	60.6	10	61.2	2	46.4
Cat5	9	69.0	23	62.5	50	61.0	4	58.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	2644	22.6	58.2	7243	61.8	59.4	1011	8.6	60.7	626	5.3	61.8	196	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.995+/-	1.557	37	N VA 102'	.201+/-	.932
12	N Dasibi CO	3.341+/-	.551	38	S BOT PER	1.305+/-	.893
13	N TOP PAR	.881+/-	1.066	39	N VA 74'	.127+/-	.607
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	.238+/-	.441
15	N TOP VER	.123+/-	.728	41	N GND PER	1.508+/-	1.167
16	N NOX/TECO	.270+/-	.060	42	S BOT VER	.198+/-	.445
17	N BOT PER	2.020+/-	1.365	43	N GND PAR	-1.852+/-	1.405
19	N BOT PAR	.160+/-	1.025	45	N GND VER	.148+/-	.536
20	N NO2/TECO	.020+/-	.005	48	N Ecolyzer-1	1.721+/-	.284
21	N BOT VER	.138+/-	.893	50	S TOP PER	1.835+/-	1.367
22	N NO/TECO	.251+/-	.061	51	N Ecolyzer-2	1.610+/-	.446
23	N HA 102'	5.755+/-	1.515	52	S TOP PAR	.867+/-	.915
24	N THC/Byron	2.926+/-	.198	53	N Ecolyzer-3	2.882+/-	.981
25	N WV 102'	189.863+/-	12.434	54	S TOP VER	.222+/-	.482
26	N NMHC/Byro	3.509+/-	.366	55	N Ecolyzer-4	3.762+/-	.924
27	N Gnd Temp	68.002+/-	3.001	56	S GND PER	.226+/-	.304
28	N CH4/Byron	1.804+/-	.098	57	N Ecolyzer-5	3.896+/-	1.184
29	N WV 74'	180.608+/-	15.746	58	S GND PAR	.103+/-	.191
30	N CD/Byron	2.670+/-	.528	59	N Rel Hum	85.283+/-	.745
31	N 74' Temp	67.272+/-	2.915	60	S GND VER	.134+/-	.191
32	N CO2/Byron	478.871+/-	24.217	61	N Solar Rad	27.704+/-	13.188
35	N HA 74'	4.633+/-	2.328	64	S VA 55'	.381+/-	.526

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.41+/- 1.49	197.1+/- 22.9	4.8+/- 16.7
02	17 19 21	2.43+/- 1.28	185.3+/- 33.0	6.2+/- 22.4
03	38 40 42	1.46+/- .93	195.0+/- 20.8	12.7+/- 19.5
04	41 43 45	2.84+/- 1.29	135.2+/- 34.5	4.3+/- 16.7
05	50 52 54	2.29+/- 1.38	202.9+/- 25.6	11.9+/- 19.8
06	56 58 60	.37+/- .33	216.3+/- 25.2	28.8+/- 23.6

08:01:12 -- BEGIN RECAL. ECOL. GRD  
 08:01:30 -- BEGIN RECAL. NCO-5 GRD  
 08:13:29 -- END CAL. NCO-5 GRD  
 08:14:00 -- BEGIN CAL. NCO-4 GRD  
 08:23:25 -- END CAL. NCO-4 GRD  
 08:23:42 -- BEGIN CAL. NCO-3 GRD  
 08:34:22 -- END CAL. NCO-3 GRD  
 08:34:34 -- BEGIN CAL. NCO-2 GRD  
 08:41:13 -- ON ABOVE CAL. OF NCO-3 THE SPAN WAS NOT READ GRD  
 08:44:18 -- IN THE MISTAKE IN READING THE SPAN DRIFT OF NCO-3 THE DRIFT WAS READ WHILE THE  
 08:44:33 -- RECORD TYPE WAS ZERO GRD  
 08:45:11 -- WILL NOW REPLACE MERCURY BATTERY IN NCO-2 GRD  
 08:58:47 -- END CAL. NCO-2 GRD  
 08:59:11 -- BEGIN CAL. NCO-1 GRD

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2657 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	57.7	35	53.1	115	56.0	44	57.2	15	52.3
Cat2	146	59.7	239	55.5	157	56.9	211	58.4	105	51.8
Cat3	22	61.9	40	59.2	40	56.3	18	55.6	9	52.6
Cat4	15	63.5	29	60.1	15	57.3	13	58.2	2	52.6
Cat5	9	70.8	8	67.3	3	60.9	4	77.3	1	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	67.0	82	59.5	93	60.5	72	59.5	38	47.8
Cat2	165	67.3	219	60.7	166	62.0	178	59.8	67	47.2
Cat3	16	68.2	32	61.3	25	61.9	20	60.1	4	43.1
Cat4	15	68.9	13	62.6	25	63.0	6	57.5	1	47.3
Cat5	5	68.8	8	64.9	9	63.4	1	59.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	596	22.4	58.8	1653	62.2	59.3	226	8.5	61.4	134	5.0	68.0	48	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.648+/-	1.915	37	N VA 102'	.185+/-	.928
12	N Dasibi CD	3.461+/-	.536	38	S BOT PER	1.574+/-	1.072
13	N TOP PAR	1.045+/-	1.086	39	N VA 74'	.144+/-	.723
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	.324+/-	.603
15	N TOP VER	.120+/-	.741	41	N GND PER	1.725+/-	1.360
16	N NDX/TECD	.269+/-	.042	42	S BOT VER	.200+/-	.589
17	N BOT PER	2.582+/-	1.641	43	N GND PAR	-1.546+/-	1.516
19	N BOT PAR	.414+/-	.952	45	N GND VER	.088+/-	.775
20	N NO2/TECD	.022+/-	.005	48	N Ecolyzer-1	2.210+/-	.301
21	N BOT VER	.138+/-	.791	50	S TOP PER	2.088+/-	1.640
22	N NO/TECD	.248+/-	.043	51	N Ecolyzer-2	1.957+/-	.355
23	N HA 102'	6.423+/-	1.633	52	S TOP PAR	.727+/-	.825
24	N THC/Byron	2.894+/-	.085	53	N Ecolyzer-3	2.704+/-	.852
25	N WV 102'	189.138+/-	10.791	54	S TOP VER	.345+/-	.614
26	N NMHC/Byro	1.187+/-	1.374	55	N Ecolyzer-4	3.795+/-	.822
27	N Gnd Temp	70.002+/-	2.532	56	S GND PER	.508+/-	.693
28	N CH4/Byron	1.384+/-	.144	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	178.114+/-	12.955	58	S GND PAR	.097+/-	.618
30	N CD/Byron	2.565+/-	.237	59	N Rel Hum	83.472+/-	.401
31	N 74' Temp	68.386+/-	2.267	60	S GND VER	.120+/-	.218
32	N CD2/Byron	498.290+/-	21.710	61	N Solar Rad	61.630+/-	14.663
35	N HA 74'	5.313+/-	2.210	64	S VA 55'	.506+/-	.653

UVW Vector Calculations

UVW	Channels	Vector Sum [mph]	Bearing Deg AZ	Elevation Angle [Deg]
01	11 13 15	4.04+/- 1.87	199.3+/- 19.1	4.9+/- 14.3
02	17 19 21	2.94+/- 1.57	192.1+/- 27.0	7.6+/- 21.0
03	38 40 42	1.78+/- 1.15	193.6+/- 17.8	11.3+/- 19.4
04	41 43 45	2.83+/- 1.44	138.8+/- 36.1	1.6+/- 17.1
05	50 52 54	2.43+/- 1.60	206.8+/- 26.1	18.5+/- 22.3
06	56 58 60	.70+/- .84	209.7+/- 29.8	23.1+/- 20.6

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2447 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	58.3	49	54.0	93	56.7	37	57.1	7	50.2
Cat2	115	59.3	204	56.0	170	57.5	183	58.2	100	52.6
Cat3	14	62.1	40	60.3	22	54.4	25	58.5	8	46.7
Cat4	14	65.3	17	63.5	12	58.1	15	62.2	1	47.1
Cat5	5	67.4	9	63.3	3	60.4	7	58.8	2	44.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	66.9	71	60.9	84	61.4	75	60.3	32	48.3
Cat2	191	68.7	182	61.5	131	62.0	201	60.8	61	48.1
Cat3	16	70.6	39	60.8	29	58.9	17	62.9	1	43.4
Cat4	18	70.0	15	62.9	20	64.0	2	59.8	0	.0
Cat5	0	.0	4	66.0	7	65.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.6	567	23.2	59.5	1518	62.0	59.9	211	8.6	63.8	114	4.7	62.4	37	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.567+/-	1.579	37	N VA 102'	.253+/-	.915
12	N Dasibi CD	3.400+/-	.510	38	S BOT PER	2.207+/-	1.198
13	N TOP PAR	.110+/-	1.053	39	N VA 74'	.115+/-	.704
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	-.212+/-	.667
15	N TOP VER	.227+/-	.755	41	N GND PER	1.886+/-	1.058
16	N NDX/TECD	.295+/-	.060	42	S BOT VER	.282+/-	.538
17	N BOT PER	2.652+/-	1.371	43	N GND PAR	-2.147+/-	1.459
19	N BOT PAR	.488+/-	1.200	45	N GND VER	.132+/-	.678
20	N NO2/TECD	.025+/-	.006	48	N Ecolyzer-1	2.662+/-	.309
21	N BOT VER	.325+/-	.704	50	S TOP PER	2.534+/-	1.427
22	N NO/TECD	.273+/-	.060	51	N Ecolyzer-2	2.382+/-	.370
23	N HA 102'	5.139+/-	1.355	52	S TOP PAR	-.317+/-	.913
24	N THC/Byron	2.858+/-	.119	53	N Ecolyzer-3	*****+/-*****	

25	N WV 102'	172.863+/-	12.758	DEGR AZ	54	S TOP VER	.256+/-	.574	mph
26	N NMHC/Byron	1.467+/-	.262	ppm	55	N EcoLyzer-4	*****/-*****		ppm
27	N Gnd Temp	70.523+/-	3.379	DEGR F	56	S GND PER	.820+/-	.917	mph
28	N CH4/Byron	1.488+/-	.067	ppm	57	N EcoLyzer-5	4.600+/-	1.321	ppm
29	N WV 74'	183.091+/-	15.598	DEGR AZ	58	S GND PAR	-.485+/-	.829	mph
30	N CD/Byron	3.451+/-	.322	ppm	59	N Rel Hum	82.560+/-	.810	%
31	N 74' Temp	58.178+/-	2.085	DEGR F	60	S GND VER	.205+/-	.257	mph
32	N CD2/Byron	481.355+/-	12.742	ppm	61	N Solar Rad	104.684+/-	18.645	W/m**2
35	N HA 74'	4.891+/-	2.165	mph	64	S VA 55'	.384+/-	.680	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.81+/- 1.56	182.1+/- 17.0	4.9+/- 13.7
02	17 19 21	3.10+/- 1.29	168.8+/- 27.0	7.6+/- 15.9
03	38 40 42	2.40+/- 1.19	179.1+/- 18.6	10.1+/- 19.4
04	41 43 45	3.20+/- 1.28	133.2+/- 24.8	1.9+/- 15.5
05	50 52 54	2.80+/- 1.40	176.1+/- 22.2	10.2+/- 21.7
06	56 58 60	1.22+/- 1.03	177.3+/- 41.1	20.1+/- 21.1

Average for 15 minute period ending at 08:45:00  
Traffic Data  
 Total Traffic = 2272 vehicles averaging 59.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	58.4	60	53.7	80	56.0	41	59.8	17	52.7
Cat2	97	59.5	173	56.2	162	58.0	173	59.3	102	51.8
Cat3	20	63.5	33	59.8	30	56.0	16	59.0	4	48.1
Cat4	20	64.5	20	62.8	12	60.5	8	60.3	4	49.2
Cat5	6	65.0	9	66.7	2	58.6	2	63.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	65.9	53	60.5	75	60.9	67	60.5	31	48.8
Cat2	177	68.3	161	61.4	144	61.3	141	59.8	35	48.8
Cat3	13	69.5	31	62.9	44	62.2	24	58.7	2	42.1
Cat4	9	68.4	20	64.1	25	62.5	7	56.9	1	47.9
Cat5	1	67.7	4	64.8	3	59.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	537	23.6	59.6	1365	60.1	60.6	217	9.6	62.5	126	5.5	64.4	27	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.664+/- 1.861	mph	37	N VA 102'	.201+/- 1.093	mph
12	N Dasibi CD	3.044+/- .436	ppm	38	S BOT PER	2.923+/- 1.150	mph
13	N TOP PAR	.068+/- 1.279	mph	39	N VA 74'	-.002+/- .989	mph
14	N Dasibi O3	.013+/- .002	ppm	40	S BOT PAR	-.217+/- .601	mph
15	N TOP VER	.083+/- .887	mph	41	N GND PER	2.157+/- 1.170	mph
16	N ND2/TECO	3.264+/- .055	ppm	42	S BOT VER	.257+/- .843	mph
17	N BOT PER	3.818+/- 1.748	mph	43	N GND PAR	-.2073+/- 1.568	mph
18	N BOT PAR	-.539+/- 1.174	mph	45	N GND VER	.212+/- .859	mph
20	N ND2/TECO	.021+/- .006	ppm	48	N EcoLyzer-1	2.688+/- .236	ppm
21	N BOT VER	.011+/- .886	mph	50	S TOP PER	3.163+/- 1.491	mph
22	N ND/TECO	.243+/- .055	ppm	51	N EcoLyzer-2	*****/-*****	ppm
23	N HA 102'	6.510+/- 1.551	mph	52	S TOP PAR	-.046+/- 1.062	mph
24	N THC/Byron	2.980+/- .094	ppm	53	N EcoLyzer-3	*****/-*****	ppm
25	N WV 102'	177.622+/- 11.927	DEGR AZ	54	S TOP VER	.216+/- .786	mph
26	N NMHC/Byron	2.591+/- .298	ppm	55	N EcoLyzer-4	3.607+/- .671	ppm
27	N Gnd Temp	71.487+/- 3.481	DEGR F	56	S GND PER	1.456+/- 1.160	mph
28	N CH4/Byron	1.767+/- .146	ppm	57	N EcoLyzer-5	3.840+/- 1.136	ppm
29	N WV 74'	167.062+/- 15.242	DEGR AZ	58	S GND PAR	-.625+/- 1.048	mph
30	N CD/Byron	2.444+/- .345	ppm	59	N Rel Hum	81.404+/- .428	%
31	N 74' Temp	69.923+/- 3.314	DEGR F	60	S GND VER	.191+/- .477	mph
32	N CD2/Byron	464.745+/- 7.911	ppm	61	N Solar Rad	158.775+/- 33.743	W/m**2
35	N HA 74'	5.828+/- 2.539	mph	64	S VA 55'	.679+/- .866	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.94+/- 1.81	179.9+/- 17.3	2.1+/- 11.8
02	17 19 21	4.15+/- 1.70	171.1+/- 18.6	1.9+/- 15.1
03	38 40 42	3.15+/- 1.18	177.7+/- 14.3	6.4+/- 16.4
04	41 43 45	3.41+/- 1.47	139.8+/- 26.4	5.3+/- 15.4
05	50 52 54	3.48+/- 1.44	181.4+/- 20.8	7.6+/- 17.5
06	56 58 60	1.92+/- 1.24	168.7+/- 35.5	12.5+/- 26.7

Average for 15 minute period ending at 09:00:00  
Traffic Data  
 Total Traffic = 2283 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	57.9	54	53.4	88	57.5	40	59.3	6	50.1
Cat2	114	58.7	162	56.0	155	57.9	150	58.0	89	52.6
Cat3	27	61.6	37	60.7	22	55.9	26	58.9	20	51.0
Cat4	13	63.5	23	62.6	19	57.1	12	57.7	4	51.1
Cat5	6	64.7	12	62.6	3	55.7	5	59.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	64.3	57	58.9	65	60.0	67	59.3	22	47.2
Cat2	209	65.6	174	60.5	130	61.1	143	60.2	45	49.3
Cat3	15	67.3	30	61.7	41	60.5	17	59.2	0	.0
Cat4	5	68.0	28	61.6	18	61.8	7	58.4	0	.0
Cat5	3	66.9	4	62.9	7	64.0	1	63.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	497	21.8	58.1	1381	60.5	59.7	235	10.3	60.7	129	5.7	62.6	41	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.117+/- 1.814	mph	37	N VA 102'	.104+/- 1.096	mph
12	N Dasibi CD	2.792+/- .463	ppm	38	S BOT PER	2.776+/- 1.142	mph
13	N TOP PAR	.596+/- 1.388	mph	39	N VA 74'	-.153+/- .873	mph
14	N Dasibi O3	.012+/- .003	ppm	40	S BOT PAR	.225+/- 1.103	mph
15	N TOP VER	-.024+/- .923	mph	41	N GND PER	2.153+/- 1.352	mph

16	N NOX/TECO	.253+/-	.050	ppm	42	S BOT VER	.401+/-	.787	mph
17	N BOT PER	3.974+/-	1.842	mph	43	N GND PAR	-1.545+/-	1.662	mph
19	N BOT PAR	.074+/-	1.510	mph	45	N GND VER	.099+/-	.734	mph
20	N NO2/TECO	.026+/-	.005	ppm	49	N Ecolyzer-1	2.570+/-	.241	ppm
21	N BOT VER	.072+/-	.922	mph	50	S TDP PER	2.944+/-	1.632	mph
22	N NO/TECO	.228+/-	.049	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	6.846+/-	1.549	mph	52	S TDP PAR	.424+/-	1.411	mph
24	N THC/Byron	3.140+/-	.095	ppm	53	N Ecolyzer-3	2.887+/-	.623	ppm
25	N WV 102'	181.543+/-	12.582	DEGR AZ	54	S TDP VER	.477+/-	.859	mph
26	N NMHC/Byro	2.669+/-	.219	ppm	55	N Ecolyzer-4	3.126+/-	.545	ppm
27	N Gnd Temp	72.112+/-	3.233	DEGR F	56	S GND PER	1.324+/-	1.213	mph
28	N CH4/Byron	1.650+/-	.093	ppm	57	N Ecolyzer-5	3.608+/-	1.072	ppm
29	N WV 74'	171.147+/-	14.803	DEGR AZ	58	S GND PAR	.016+/-	1.064	mph
30	N CD/Byron	3.102+/-	.571	ppm	59	N Rel Hum	80.557+/-	.541	%
31	N 74' Temp	69.376+/-	2.094	DEGR F	60	S GND VER	.183+/-	.494	mph
32	N CO2/Byron	471.096+/-	22.762	ppm	61	N Solar Rad	150.145+/-	46.860	W/m**2
35	N HA 74'	6.577+/-	2.448	mph	64	S VA 55'	.774+/-	.949	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.43+/-	1.76	187.0+/-	16.0	1.2+/- 11.7
02	17 19 21	4.40+/-	1.72	178.2+/-	23.1	2.0+/- 17.2
03	38 40 42	3.12+/-	1.16	184.8+/-	19.3	9.5+/- 16.6
04	41 43 45	3.20+/-	1.38	146.6+/-	32.5	2.1+/- 17.8
05	50 52 54	3.42+/-	1.66	187.1+/-	24.4	12.9+/- 17.3
06	56 58 60	1.72+/-	1.25	188.3+/-	34.3	14.2+/- 25.3

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 9659 vehicles averaging 59.3 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
Cat	Spd	Cat	Spd	Cat	Spd	Cat	Spd	Cat	Spd
Cat1	58.1	198	53.6	378	56.5	162	58.4	45	51.9
Cat2	59.3	778	55.9	644	57.6	717	58.5	406	52.2
Cat3	62.2	150	60.0	114	55.8	85	58.1	41	50.3
Cat4	64.2	89	52.0	58	58.1	48	59.7	11	50.3
Cat5	67.4	38	64.7	11	58.9	18	63.6	3	65.3

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	Spd	Cat	Spd	Cat	Spd	Cat	Spd	Cat	Spd
Cat1	66.5	243	60.0	317	60.7	281	59.9	123	48.1
Cat2	67.4	718	61.0	571	61.6	663	60.2	208	48.2
Cat3	68.4	132	61.7	139	60.9	78	60.1	7	42.9
Cat4	69.1	76	62.7	88	62.9	22	58.4	2	47.6
Cat5	68.0	20	64.7	26	63.6	2	61.3	0	.0

Vehicle Classification Summary

Spd	CAT 1	%	Spd	CAT 2	%	Spd	CAT 3	%	Spd	CAT 4	%	Spd	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.2	2197	22.7	59.2	5917	61.3	59.9	889	9.2	62.1	503	5.2	64.6	153	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	4.249+/-	1.912	37	N VA 102'	.186+/-	1.011	mph
12	N Dasibi CD	3.174+/-	.558	38	S BOT PER	2.370+/-	1.257	mph
13	N TOP PAR	.455+/-	1.271	39	N VA 74'	.027+/-	.831	mph
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	.030+/-	.853	mph
15	N TOP VER	.101+/-	.834	41	N GND PER	1.988+/-	1.255	mph
16	N NOX/TECO	.270+/-	.054	42	S BOT VER	.285+/-	.704	mph
17	N BOT PER	3.257+/-	1.776	43	N GND PAR	-1.828+/-	1.596	mph
19	N BOT PAR	-.172+/-	1.281	45	N GND VER	.126+/-	.765	mph
20	N NO2/TECO	.023+/-	.006	49	N Ecolyzer-1	2.532+/-	.335	ppm
21	N BOT VER	.136+/-	.837	50	S TDP PER	2.682+/-	1.601	mph
22	N NO/TECO	.248+/-	.054	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	6.229+/-	1.655	52	S TDP PAR	.197+/-	1.148	mph
24	N THC/Byron	2.968+/-	.146	53	N Ecolyzer-3	2.890+/-	.758	ppm
25	N WV 102'	180.303+/-	13.345	54	S TDP VER	.324+/-	.723	mph
26	N NMHC/Byro	1.979+/-	.969	55	N Ecolyzer-4	3.579+/-	.774	ppm
27	N Gnd Temp	71.031+/-	3.205	56	S GND PER	1.027+/-	1.085	mph
28	N CH4/Byron	1.572+/-	.187	57	N Ecolyzer-5	4.045+/-	1.235	ppm
29	N WV 74'	170.131+/-	15.804	58	S GND PAR	-.249+/-	.958	mph
30	N CD/Byron	2.890+/-	.559	59	N Rel Hum	81.998+/-	1.247	%
31	N 74' Temp	68.968+/-	2.533	60	S GND VER	.175+/-	.383	mph
32	N CO2/Byron	478.872+/-	21.250	61	N Solar Rad	118.808+/-	49.623	W/m**2
35	N HA 74'	5.602+/-	2.441	64	S VA 55'	.536+/-	.808	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.55+/-	1.87	187.0+/-	18.7	3.3+/- 13.0
02	17 19 21	3.64+/-	1.70	177.4+/-	25.7	4.8+/- 17.6
03	38 40 42	2.61+/-	1.30	183.7+/-	18.5	9.3+/- 18.1
04	41 43 45	3.16+/-	1.41	139.4+/-	30.6	2.7+/- 16.5
05	50 52 54	3.04+/-	1.58	187.5+/-	25.6	12.3+/- 20.2
06	56 58 60	1.39+/-	1.21	186.7+/-	37.5	17.5+/- 23.9

Average for 15 minute period ending at 09:15:00  
 Traffic Data  
 Total Traffic = 1935 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	57.2	43	54.8	77	57.6	40	58.4	10	53.7
Cat2	95	59.7	161	56.5	124	57.5	132	58.4	84	51.2
Cat3	21	59.2	32	60.0	24	56.2	15	56.5	8	51.3
Cat4	13	63.7	12	58.5	11	57.2	10	57.6	6	49.1
Cat5	8	63.2	11	62.8	4	56.9	2	59.7	2	37.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	56.4	52	51.3	49	61.4	55	61.3	17	49.4
Cat2	153	58.5	153	62.1	127	63.2	120	63.0	48	50.4
Cat3	25	69.9	26	62.3	22	62.4	13	59.1	0	.0
Cat4	17	71.8	19	64.2	15	63.7	2	57.9	1	51.5
Cat5	1	64.6	4	63.5	2	73.4	1	61.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
59.2	401	20.7	60.1	1207	62.4	60.6	186	9.6	62.2	106	5.5	61.3	35	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.944+/-	2.152 mph	37	N VA 102'	.131+/-	1.085 mph
12	N Dasibi CO	2.253+/-	.400 ppm	38	S BOT PER	3.493+/-	1.647 ppm
13	N TOP PAR	-.328+/-	1.464 mph	39	N VA 74'	-.224+/-	1.090 mph
14	N Dasibi O3	-.013+/-	.003 ppm	40	S BOT PAR	-.545+/-	1.389 ppm
15	N TOP VER	.077+/-	1.054 mph	41	N GND PER	2.420+/-	1.498 ppm
16	N NOX/TECO	-.206+/-	.045 ppm	42	S BOT VER	-.205+/-	1.940 ppm
17	N BOT PER	4.296+/-	2.053 mph	43	N GND PAR	-2.159+/-	1.484 ppm
18	N BOT PAR	-.831+/-	1.417 ppm	45	N GND VER	-.141+/-	1.701 ppm
19	N NO2/TECO	-.027+/-	.005 ppm	49	N Ecolyzer-1	*****	*****
20	N BOT VER	-.158+/-	.885 mph	50	S TOP PER	4.135+/-	1.990 ppm
21	N NO/TECO	-.179+/-	.044 ppm	51	N Ecolyzer-2	1.233+/-	.286 ppm
22	N HA 102'	7.584+/-	1.712 mph	52	S TOP PAR	-.448+/-	1.488 ppm
23	N THC/Byron	2.853+/-	.163 ppm	53	N Ecolyzer-3	2.271+/-	.568 ppm
24	N WV 102'	173.822+/-	12.865 DEGR AZ	54	S TOP VER	-.283+/-	1.028 ppm
25	N NMHC/Byro	2.830+/-	.215 ppm	55	N Ecolyzer-4	2.575+/-	.618 ppm
26	N Gnd Temp	72.190+/-	1.681 DEGR F	56	S GND PER	1.866+/-	1.337 ppm
27	N CH4/Byron	1.625+/-	.103 ppm	57	N Ecolyzer-5	2.623+/-	.851 ppm
28	N WV 74'	163.440+/-	14.146 DEGR AZ	58	S GND PAR	-.952+/-	1.298 ppm
29	N CO/Byron	2.138+/-	.132 ppm	59	N Rel Hum	81.848+/-	.352 %
30	N 74' Temp	70.288+/-	2.275 DEGR F	60	S GND VER	.273+/-	.676 ppm
31	N CO2/Byron	439.505+/-	9.301 ppm	61	N Solar Rad	189.067+/-	30.242 W/m**2
32	N HA 74'	7.417+/-	2.492 mph	64	S VA 55'	.477+/-	1.069 ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.24+/- 2.10	176.8+/- 14.2	2.4+/- 12.4
02	17 19 21	4.74+/- 1.92	166.4+/- 22.8	6.0+/- 15.5
03	38 40 42	3.88+/- 1.72	174.3+/- 19.3	6.7+/- 18.5
04	41 43 45	3.65+/- 1.85	139.7+/- 28.9	3.0+/- 13.4
05	50 52 54	4.57+/- 1.92	175.2+/- 21.1	6.7+/- 16.9
06	56 58 60	2.49+/- 1.51	162.8+/- 32.8	10.9+/- 24.4

Average for 15 minute period ending at 09:30:00  
 Traffic Data  
 Total Traffic = 2053 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	57.8	46	54.7	105	57.0	36	58.1	7	54.1
Cat2	92	60.0	161	56.8	143	57.3	123	58.1	79	51.3
Cat3	24	61.8	31	60.2	21	56.7	19	56.4	9	50.7
Cat4	11	64.4	17	60.6	11	56.4	12	57.3	4	52.8
Cat5	4	68.5	10	64.4	3	57.4	1	54.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	55.4	50	60.8	51	62.0	56	59.8	25	47.0
Cat2	167	68.8	155	61.6	129	62.2	137	61.8	41	48.9
Cat3	24	68.9	22	63.1	29	63.7	9	57.0	1	50.8
Cat4	21	71.3	25	63.5	23	62.8	9	63.8	1	44.6
Cat5	8	70.9	5	64.2	8	61.2	2	59.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	465	22.8	60.0	1227	59.8	61.0	189	9.2	62.7	134	6.5	63.9	38	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.953+/-	2.270 mph	37	N VA 102'	-.362+/-	1.240 mph
12	N Dasibi CO	2.108+/-	.649 ppm	38	S BOT PER	3.755+/-	1.932 ppm
13	N TOP PAR	-.082+/-	1.855 mph	39	N VA 74'	-.037+/-	1.126 ppm
14	N Dasibi O3	-.014+/-	.002 ppm	40	S BOT PAR	-.464+/-	1.348 ppm
15	N TOP VER	-.161+/-	1.068 mph	41	N GND PER	2.491+/-	1.517 ppm
16	N NOX/TECO	-.193+/-	.048 ppm	42	S BOT VER	-.151+/-	1.039 ppm
17	N BOT PER	4.615+/-	2.329 mph	43	N GND PAR	-1.603+/-	1.859 ppm
18	N BOT PAR	-.419+/-	1.821 ppm	45	N GND VER	-.144+/-	.734 ppm
19	N NO2/TECO	-.027+/-	.005 ppm	48	N Ecolyzer-1	1.597+/-	.340 ppm
20	N BOT VER	-.141+/-	.955 mph	50	S TOP PER	4.393+/-	2.158 ppm
21	N NO/TECO	-.166+/-	.045 ppm	51	N Ecolyzer-2	.825+/-	.387 ppm
22	N HA 102'	7.754+/-	2.190 mph	52	S TOP PAR	-.128+/-	1.531 ppm
23	N THC/Byron	2.578+/-	.065 ppm	53	N Ecolyzer-3	1.926+/-	.659 ppm
24	N WV 102'	174.637+/-	13.881 DEGR AZ	54	S TOP VER	-.165+/-	.972 ppm
25	N NMHC/Byro	2.506+/-	.314 ppm	55	N Ecolyzer-4	2.337+/-	.696 ppm
26	N Gnd Temp	73.727+/-	2.489 DEGR F	56	S GND PER	2.129+/-	1.475 ppm
27	N CH4/Byron	1.508+/-	.097 ppm	57	N Ecolyzer-5	2.437+/-	1.327 ppm
28	N WV 74'	163.894+/-	15.774 DEGR AZ	58	S GND PAR	-.799+/-	1.353 ppm
29	N CO/Byron	1.438+/-	.451 ppm	59	N Rel Hum	80.117+/-	.425 %
30	N 74' Temp	73.102+/-	2.711 DEGR F	60	S GND VER	.196+/-	.562 ppm
31	N CO2/Byron	442.925+/-	17.580 ppm	61	N Solar Rad	260.870+/-	62.917 W/m**2
32	N HA 74'	7.305+/-	2.711 mph	64	S VA 55'	.407+/-	1.123 ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
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01	11	13	15	6.33+/-	2.26	179.5+/-	17.6	3.0+/-	11.3
02	17	19	21	5.15+/-	2.14	172.2+/-	26.5	4.1+/-	15.9
03	38	40	42	4.13+/-	1.97	176.0+/-	18.1	5.4+/-	17.5
04	41	43	45	3.69+/-	1.46	147.9+/-	32.4	2.5+/-	14.3
05	50	52	54	4.78+/-	2.10	180.6+/-	21.0	5.0+/-	14.8
06	56	58	60	2.64+/-	1.60	168.5+/-	32.9	8.9+/-	20.4

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 2074 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	56.2	52	53.5	72	56.8	30	58.8	6	54.9
Cat2	109	58.2	174	55.1	181	57.1	133	59.0	70	52.3
Cat3	19	60.0	38	58.3	21	56.8	25	58.5	6	52.7
Cat4	15	59.9	30	59.3	9	53.3	8	61.8	3	46.7
Cat5	5	61.6	9	60.7	2	62.2	4	61.2	0	.0

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	32	65.8	42	59.9	53	59.7	48	58.4	15	47.6
Cat2	197	67.7	166	61.5	129	60.7	144	61.3	26	46.7
Cat3	27	68.1	27	62.1	34	61.5	7	63.5	4	42.7
Cat4	15	69.7	15	61.8	14	62.4	5	61.7	0	.0
Cat5	1	61.8	6	70.8	10	68.2	2	****	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	404	19.5	59.6	1308	63.1	60.5	208	10.0	61.0	114	5.5	67.3	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.613+/-	2.101	37	N VA 102'	.007+/-	1.374
12	N Dasibi CO	1.849+/-	.353	38	S BOT PER	3.612+/-	1.516
13	N TOP PAR	.379+/-	1.663	39	N VA 74'	-.083+/-	1.223
14	N Dasibi O3	.014+/-	.001	40	S BOT PAR	-.199+/-	1.477
15	N TOP VER	.002+/-	1.233	41	N GND PER	2.647+/-	1.578
16	N NOX/TECO	.201+/-	.047	42	S BOT VER	-.246+/-	.839
17	N BOT PER	5.202+/-	2.126	43	N GND PAR	-1.829+/-	1.857
19	N BOT PAR	-.606+/-	1.709	45	N GND VER	.063+/-	.746
20	N NO2/TECO	.027+/-	.005	49	N EcoLyzer-1	1.238+/-	.225
21	N BOT VER	.033+/-	1.099	50	S TOP PER	3.824+/-	2.026
22	N NO/TECO	.175+/-	.046	51	N EcoLyzer-2	.530+/-	.226
23	N HA 102'	8.384+/-	1.866	52	S TOP PAR	.244+/-	1.734
24	N THC/Byron	2.493+/-	.108	53	N EcoLyzer-3	1.711+/-	.546
25	N WV 102'	179.219+/-	13.050	54	S TOP VER	.345+/-	.953
26	N MMHC/Byro	2.890+/-	.485	55	N EcoLyzer-4	1.938+/-	.500
27	N Gnd Temp	74.431+/-	2.152	56	S GND PER	1.956+/-	1.353
28	N CH4/Byron	1.539+/-	.084	57	N EcoLyzer-5	2.073+/-	.376
29	N WV 74'	169.227+/-	13.313	58	S GND PAR	-.727+/-	1.350
30	N CO/Byron	1.553+/-	.384	59	N Rel Hum	79.645+/-	.688
31	N 74' Temp	72.607+/-	3.289	60	S GND VER	.160+/-	.479
32	N CO2/Byron	420.941+/-	8.392	61	N Solar Rad	259.099+/-	98.325
35	N HA 74'	7.872+/-	2.498	64	S VA 55'	.596+/-	1.109

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.95+/- 2.06	182.7+/- 14.9	1.2+/- 11.4
02	17 19 21	5.66+/- 2.01	171.5+/- 19.9	1.6+/- 13.3
03	38 40 42	3.97+/- 1.80	177.5+/- 19.2	5.6+/- 15.6
04	41 43 45	3.85+/- 1.55	146.3+/- 31.7	1.4+/- 12.8
05	50 52 54	4.30+/- 2.07	185.7+/- 23.2	8.3+/- 16.0
06	56 58 60	2.47+/- 1.46	166.0+/- 33.2	6.7+/- 20.9

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 2120 vehicles averaging 59.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	56.1	58	53.6	82	57.5	36	58.3	4	50.8
Cat2	108	56.9	146	56.0	166	57.5	136	59.3	68	49.9
Cat3	25	59.7	41	57.4	25	55.6	19	56.8	11	52.2
Cat4	12	66.3	18	61.7	5	58.3	10	58.1	3	51.8
Cat5	11	65.3	11	61.9	3	60.7	4	57.4	0	.0

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	66.3	60	59.8	56	60.1	57	58.9	19	46.6
Cat2	203	66.6	152	61.4	141	61.5	135	59.9	51	46.3
Cat3	24	67.7	24	61.1	24	62.2	14	58.9	2	43.2
Cat4	9	67.3	15	64.1	20	63.6	4	62.5	0	.0
Cat5	5	72.3	7	70.5	10	66.5	1	****	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	457	21.6	59.4	1306	61.6	59.2	209	9.9	62.7	96	4.5	66.1	52	2.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.250+/-	2.210	37	N VA 102'	-.038+/-	1.386
12	N Dasibi CO	1.853+/-	.514	38	S BOT PER	3.548+/-	1.588
13	N TOP PAR	1.305+/-	1.834	39	N VA 74'	-.108+/-	1.261
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	.498+/-	1.782
15	N TOP VER	-.089+/-	1.351	41	N GND PER	2.939+/-	1.772
16	N NOX/TECO	-.184+/-	.049	42	S BOT VER	.432+/-	.923
17	N BOT PER	6.165+/-	2.315	43	N GND PAR	-1.297+/-	2.024
19	N BOT PAR	.227+/-	1.975	45	N GND VER	.212+/-	1.087
20	N NO2/TECO	.027+/-	.006	49	N EcoLyzer-1	1.169+/-	.217
21	N BOT VER	-.027+/-	1.237	50	S TOP PER	4.086+/-	1.874
22	N NO/TECO	.158+/-	.047	51	N EcoLyzer-2	.487+/-	.325
23	N HA 102'	8.658+/-	2.029	52	S TOP PAR	.882+/-	1.929
24	N THC/Byron	2.395+/-	.155	53	N EcoLyzer-3	1.672+/-	.610
25	N WV 102'	184.419+/-	12.165	54	S TOP VER	.517+/-	.923
26	N MMHC/Byro	2.500+/-	.152	55	N EcoLyzer-4	1.763+/-	.671
27	N Gnd Temp	75.551+/-	3.211	56	S GND PER	1.928+/-	1.243
28	N CH4/Byron	1.373+/-	.104	57	N EcoLyzer-5	2.044+/-	.923
29	N WV 74'	174.340+/-	13.428	58	S GND PAR	.084+/-	1.597
30	N CO/Byron	.897+/-	.152	59	N Rel Hum	77.756+/-	.477

31	N 74' Temp	72.086+/-	3.056	DEGR F	60	S GND VER	.200+/-	.782	mph
32	N CO2/Byron	426.803+/-	21.204	ppm	61	N Solar Rad	275.448+/-	78.285	W/m**2
35	N HA 74'	8.517+/-	2.712	mph	64	S VA 55'	.931+/-	1.118	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	7.73+/-	2.15	190.3+/-	14.6	.8+/-	12.1
02	17	19	21	6.62+/-	2.24	181.4+/-	19.1	1.7+/-	14.0
03	38	40	42	4.02+/-	1.83	188.0+/-	19.7	7.7+/-	15.2
04	41	43	45	4.00+/-	1.66	156.2+/-	34.2	5.4+/-	18.6
05	50	52	54	4.65+/-	2.04	190.9+/-	20.9	9.9+/-	14.9
06	56	58	60	2.52+/-	1.45	189.5+/-	31.5	11.0+/-	25.7

Average for hourly period ending at 19:00:00  
 Traffic Data  
 Total Traffic = 8182 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	180	56.8	199	54.1	336	57.2	142	58.9	27	53.6
Cat 2	404	59.1	642	55.1	594	57.3	524	58.7	301	51.2
Cat 3	89	60.2	142	58.8	91	56.3	78	57.5	34	51.7
Cat 4	51	63.4	77	60.0	36	55.8	40	58.5	16	50.1
Cat 5	28	64.5	41	62.5	12	58.9	11	58.9	2	37.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	138	66.0	204	60.5	209	60.8	216	59.9	76	47.6
Cat 2	730	67.8	626	61.7	526	61.9	536	61.4	166	48.2
Cat 3	100	68.7	99	62.2	109	62.4	43	59.3	7	44.0
Cat 4	62	70.5	74	63.5	72	63.1	20	62.4	2	48.0
Cat 5	12	70.2	22	67.9	30	66.1	6	66.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	1727	21.1	59.8	5049	61.7	60.3	782	9.7	62.1	450	5.5	64.9	164	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.440+/-	2.246	37	N VA 102'	-.115+/-	1.284
12	N Dasibi CO	2.016+/-	.521	38	S BOT PER	3.602+/-	1.677
13	N TOP PAR	.360+/-	1.813	39	N VA 74'	-.113+/-	1.177
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-.178+/-	1.561
15	N TOP VER	-.038+/-	1.184	41	N GND PER	2.624+/-	1.604
16	N NOX/TECO	-.198+/-	.047	42	S BOT VER	-.255+/-	.942
17	N BOT PER	5.070+/-	2.316	43	N GND PAR	-1.775+/-	1.865
19	N BOT PAR	-.407+/-	1.783	45	N GND VER	.140+/-	.832
20	N NO2/TECO	-.027+/-	.005	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	-.076+/-	1.053	50	S TOP PER	4.109+/-	2.020
22	N NO/TECO	-.169+/-	.046	51	N EcoLyzer-2	.769+/-	.431
23	N HA 102'	8.097+/-	2.002	52	S TDP PAR	.137+/-	1.748
24	N THC/Byron	2.580+/-	.213	53	N EcoLyzer-3	1.895+/-	.642
25	N WV 102'	178.030+/-	13.613	54	S TOP VER	.327+/-	.976
26	N NMHC/Byro	2.682+/-	.358	55	N EcoLyzer-4	2.153+/-	.702
27	N Gnd Temp	73.975+/-	2.582	56	S GND PER	1.975+/-	1.355
28	N CH4/Byron	1.511+/-	.132	57	N EcoLyzer-5	2.294+/-	1.063
29	N WV 74'	167.738+/-	14.808	58	S GND PAR	-.598+/-	1.458
30	N CO/Byron	1.507+/-	.539	59	N Rel Hum	79.792+/-	1.483
31	N 74' Temp	72.021+/-	2.984	60	S GND VER	.207+/-	.638
32	N CO2/Byron	432.544+/-	17.308	61	N Solar Rad	246.121+/-	77.776
35	N HA 74'	7.778+/-	2.643	64	S VA 55'	.603+/-	1.121

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	6.81+/-	2.22	182.3+/-	18.1	1.9+/-	11.8
02	17	19	21	5.54+/-	2.18	172.8+/-	22.8	2.8+/-	14.7
03	38	40	42	4.00+/-	1.79	178.9+/-	19.7	5.9+/-	16.8
04	41	43	45	3.80+/-	1.54	147.1+/-	31.8	3.0+/-	15.0
05	50	52	54	4.58+/-	2.04	183.1+/-	22.2	7.5+/-	15.8
06	56	58	60	2.53+/-	1.50	171.7+/-	33.7	9.4+/-	23.0

10:03:43 -- CHECKING PROBLEM WITH NCO-2  
 10:03:54 -- BEGIN CAL. NCO-5 GRD  
 10:05:04 -- TRYING CD-2 IN ECOLYZER #3  
 10:08:06 -- RETURNING CH 53 TO NDRMAL POSITION  
 10:14:26 -- END CAL. NCO-5  
 10:18:41 -- BEGIN CAL. NCO-4  
 10:18:25 -- DISREGARD ABOVE DRIFT-VALUES FOR CH 57 GRD  
 10:25:14 -- END CAL. NCO-4 GRD  
 10:25:39 -- BEGIN CAL. NCO-3 GRD  
 10:38:29 -- END CALIBRATION OF NCO-3 CH 53  
 10:38:42 -- BEGIN CALIBRATION OF NCO-2 CH 51  
 10:50:33 -- END CAL. NCO-2 AND NCO-3  
 10:51:10 -- CH. 57 WAS NEVER TURNED ON AFTER MISTAKE IN READING DRIFTS BEFORE  
 10:53:21 -- BEGIN CALIBRATION OF NCO-1 CH 49  
 10:53:43 -- TENTATIVELY TRYING A NEW PUMP IN NCO-2 TO SEE IF THE READINGS WILL BE HIGHER.

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1933 Vehicles averaging 60.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	58.4	49	54.4	67	58.4	31	58.0	1	50.8
Cat2	63	59.2	127	56.8	130	58.6	132	59.1	83	52.3
Cat3	15	60.1	28	60.4	18	58.1	19	60.2	9	49.9
Cat4	8	62.3	17	62.0	13	57.2	8	58.3	6	49.3
Cat5	8	68.3	6	62.0	4	60.5	2	64.5	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	27	56.0	51	59.6	51	61.7	49	60.4	19	47.8
Cat2	198	68.9	161	61.8	148	62.6	141	61.0	42	48.2
Cat3	13	69.5	36	63.0	30	61.7	12	59.4	0	0
Cat4	12	72.7	18	63.5	13	62.5	4	63.2	0	0
Cat5	3	69.3	6	65.7	4	66.1	1	53.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	395	20.4	60.6	1225	63.4	60.9	180	9.3	62.0	99	5.1	65.0	34	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.620+/-	3.163	37	N VA 102'	.450+/-	1.888
12	N Dasibi CD	1.210+/-	.317	38	S BOT PER	4.199+/-	1.914
13	N TOP PAR	2.519+/-	2.399	39	N VA 74'	.157+/-	1.497
14	N Dasibi 03	.015+/-	.002	40	S BOT PAR	1.250+/-	1.745
15	N TOP VER	.264+/-	1.507	41	N GND PER	2.708+/-	1.856
16	N NOX/TECD	.142+/-	.050	42	S BOT VER	.382+/-	.787
17	N BOT PER	5.898+/-	3.219	43	N GND PAR	-.056+/-	2.319
19	N BOT PAR	1.248+/-	2.456	45	N GND VER	.178+/-	1.087
20	N NO2/TECD	.025+/-	.004	49	N Ecolyzer-1	.888+/-	.235
21	N BOT VER	.286+/-	1.466	50	S TOP PER	5.326+/-	2.270
22	N NO/TECD	.117+/-	.048	51	N Ecolyzer-2	*****	*****
23	N HA 102'	10.009+/-	2.854	52	S TOP PAR	2.639+/-	2.175
24	N THC/Byron	2.161+/-	.050	53	N Ecolyzer-3	1.737+/-	.476
25	N WV 102'	192.833+/-	13.259	54	S TOP VER	.305+/-	1.019
26	N NMHC/Byro	2.136+/-	.607	55	N Ecolyzer-4	1.485+/-	.483
27	N Gnd Temp	74.014+/-	3.350	56	S GND PER	1.978+/-	1.221
28	N CH4/Byron	1.451+/-	.086	57	N Ecolyzer-5	*****	*****
29	N WV 74'	183.523+/-	16.153	58	S GND PAR	.290+/-	1.377
30	N CD/Byron	.754+/-	.113	59	N Rel Hum	78.521+/-	.367
31	N 74' Temp	72.789+/-	3.167	60	S GND VER	.359+/-	.665
32	N CD2/Byron	434.294+/-	25.885	61	N Solar Rad	218.088+/-	33.868
35	N HA 74'	8.662+/-	3.438	64	S VA 55'	.614+/-	1.484

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.62+/- 3.19	201.8+/- 19.0	4.4+/- 14.9
02	17 19 21	6.69+/- 3.19	191.2+/- 23.1	6.2+/- 17.4
03	38 40 42	4.75+/- 2.01	195.1+/- 19.0	7.2+/- 14.3
04	41 43 45	2.72+/- 1.87	179.2+/- 39.3	4.3+/- 19.3
05	50 52 54	6.30+/- 2.57	204.4+/- 18.0	4.8+/- 11.2
06	56 58 60	2.50+/- 1.31	191.0+/- 30.6	11.8+/- 21.1

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 1980 Vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	58.5	44	54.2	82	58.4	35	59.3	1	50.4
Cat2	86	59.4	165	56.9	147	58.2	130	59.2	75	51.8
Cat3	9	62.4	31	59.3	21	55.7	17	58.4	9	52.8
Cat4	12	67.0	17	62.5	14	58.3	8	61.0	2	49.8
Cat5	8	65.2	8	61.8	1	58.3	3	64.8	1	49.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	20	67.3	44	60.2	59	61.8	41	58.3	16	47.3
Cat2	183	68.3	151	61.2	137	60.3	135	60.3	55	47.4
Cat3	11	70.0	32	61.5	27	60.1	19	60.7	3	47.2
Cat4	22	70.1	22	64.2	14	64.4	6	60.6	0	0
Cat5	3	74.5	5	63.7	10	61.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	381	19.2	59.6	1264	63.8	59.7	179	9.0	64.0	117	5.9	63.4	39	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.127+/-	2.766	37	N VA 102'	.141+/-	1.561
12	N Dasibi CD	1.274+/-	.302	38	S BOT PER	3.800+/-	1.755
13	N TOP PAR	1.787+/-	1.945	39	N VA 74'	-.156+/-	1.486
14	N Dasibi 03	.015+/-	.002	40	S BOT PAR	1.826+/-	1.985
15	N TOP VER	-.179+/-	1.369	41	N GND PER	2.628+/-	1.970
16	N NOX/TECD	.378+/-	.050	42	S BOT VER	.380+/-	.723
17	N BOT PER	6.374+/-	2.327	43	N GND PAR	-.413+/-	2.521
19	N BOT PAR	1.093+/-	2.103	45	N GND VER	.187+/-	.966
20	N NO2/TECD	.027+/-	.005	49	N Ecolyzer-1	.891+/-	.334
21	N BOT VER	-.087+/-	1.222	50	S TOP PER	5.214+/-	2.388
22	N NO/TECD	.130+/-	.048	51	N Ecolyzer-2	*****	*****
23	N HA 102'	9.443+/-	1.990	52	S TOP PAR	1.324+/-	2.109



24	N THC/Byron	2.182+/-	.061	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	188.228+/-	13.921	DEGR AZ	54	S TOP VER	.192+/- .921	mph
26	N NMHC/Byro	2.125+/-	.387	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	74.665+/-	2.155	DEGR F	56	S GND PER	1.942+/- 1.275	mph
28	N CH4/Byron	1.462+/-	.060	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	180.419+/-	15.135	DEGR AZ	58	S GND PAR	.251+/- 1.417	mph
30	N CO/Byron	.730+/-	.064	ppm	59	N Rel Hum	78.798+/- .588	%
31	N 74' Temp	72.503+/-	3.252	DEGR F	60	S GND VER	.286+/- .670	mph
32	N CO2/Byron	434.945+/-	31.218	ppm	61	N Solar Rad	198.468+/- 34.674	W/m**2
35	N HA 74'	8.888+/-	2.957	mph	64	S VA 55'	.526+/- 1.151	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.71+/- 2.81	193.6+/- 14.7	.8+/- 12.8		
02	17 18 21	6.91+/- 2.94	189.3+/- 18.7	1.9+/- 13.4		
03	38 40 42	4.31+/- 2.06	180.6+/- 20.6	7.3+/- 11.7		
04	41 43 45	3.88+/- 1.78	169.9+/- 41.6	4.6+/- 17.7		
05	50 52 54	5.82+/- 2.47	192.9+/- 21.0	5.1+/- 14.1		
06	56 58 60	2.48+/- 1.36	191.9+/- 30.1	11.5+/- 22.5		

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 2018 vehicles averaging 60.0 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	55	57.7	37	54.7	89	57.9	36	57.8	8	54.6
Cat2	87	60.0	186	57.7	116	59.5	105	59.7	87	51.5
Cat3	13	60.1	30	60.7	32	58.1	23	60.2	10	50.2
Cat4	12	63.8	18	61.6	8	57.0	11	58.0	0	.0
Cat5	6	63.7	7	64.9	0	.0	4	60.6	0	.0

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	21	66.5	84	58.7	54	61.4	37	60.0	17	46.5
Cat2	180	67.8	164	61.7	134	61.8	149	59.9	51	47.8
Cat3	21	68.4	31	62.1	33	62.1	13	60.1	1	43.2
Cat4	19	69.0	21	61.3	18	63.4	7	57.1	1	29.8
Cat5	9	70.2	5	65.3	7	65.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	398	19.7	60.0	1258	62.4	60.8	207	10.3	62.1	116	5.7	65.6	38	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.735+/- 2.590	mph	37	N VA 102'	.471+/- 1.301	mph
12	N Dasibi CO	1.364+/- .276	ppm	38	S BOT PER	3.641+/- 1.599	mph
13	N TOP PAR	1.107+/- 2.286	mph	39	N VA 74'	.178+/- 1.243	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	.126+/- 1.601	mph
15	N TOP VER	.239+/- 1.316	mph	41	N GND PER	2.028+/- 1.912	mph
16	N NOX/TECO	.164+/- .044	ppm	42	S BOT VER	.425+/- .851	mph
17	N BOT PER	4.759+/- 2.377	mph	43	N GND PAR	.578+/- 1.886	mph
19	N BOT PAR	.458+/- 1.919	mph	45	N GND VER	.080+/- .963	mph
20	N ND2/TECO	.025+/- .004	ppm	48	N Ecolyzer-1	.887+/- .221	ppm
21	N BOT VER	.351+/- 1.189	mph	50	S TOP PER	4.806+/- 2.061	mph
22	N ND/TECO	.139+/- .042	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.321+/- 2.561	mph	52	S TOP PAR	.268+/- 1.980	ppm
24	N THC/Byron	2.459+/- .248	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	184.710+/- 18.326	DEGR AZ	54	S TOP VER	.439+/- 1.013	mph
26	N NMHC/Byro	2.988+/- .554	ppm	55	N Ecolyzer-4	1.934+/- 1.466	ppm
27	N Gnd Temp	73.780+/- 3.325	DEGR F	56	S GND PER	1.854+/- 1.343	mph
28	N CH4/Byron	1.470+/- .081	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	173.292+/- 19.472	DEGR AZ	58	S GND PAR	-.474+/- 1.271	mph
30	N CO/Byron	1.145+/- .340	ppm	59	N Rel Hum	77.202+/- .508	%
31	N 74' Temp	72.607+/- 3.273	DEGR F	60	S GND VER	.283+/- .742	mph
32	N CO2/Byron	423.221+/- 22.089	ppm	61	N Solar Rad	226.944+/- 32.022	W/m**2
35	N HA 74'	7.804+/- 3.267	mph	64	S VA 55'	.704+/- 1.282	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	6.40+/- 2.61	189.3+/- 23.3	4.0+/- 14.7		
02	17 18 21	5.33+/- 2.30	184.5+/- 25.0	6.0+/- 17.1		
03	38 40 42	4.05+/- 1.71	178.7+/- 20.6	8.8+/- 15.3		
04	41 43 45	3.00+/- 1.90	159.7+/- 42.4	5.7+/- 20.1		
05	50 52 54	5.14+/- 2.06	183.2+/- 22.6	8.0+/- 15.9		
06	56 58 60	2.40+/- 1.40	189.8+/- 33.7	10.1+/- 24.7		

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 1874 vehicles averaging 60.3 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	47	57.6	42	53.8	81	57.9	30	58.9	7	53.6
Cat2	83	61.1	152	56.9	133	59.5	122	59.2	69	51.8
Cat3	20	62.0	40	59.6	27	57.5	23	60.5	7	51.1
Cat4	14	62.6	14	60.3	6	57.8	7	60.5	1	52.4
Cat5	4	65.8	8	64.3	3	57.5	2	49.8	1	57.3

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	33	66.1	35	61.6	55	61.3	41	60.2	16	49.5
Cat2	186	67.9	148	61.1	145	61.6	141	61.6	47	47.7
Cat3	20	68.1	31	61.5	30	61.2	14	61.3	0	.0
Cat4	17	69.1	29	62.4	21	61.5	4	63.0	0	.0
Cat5	5	67.1	9	63.0	2	54.4	2	62.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	387	19.6	60.3	1226	62.1	60.8	212	10.7	62.6	113	5.7	62.3	36	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.567+/- 2.508	mph	37	N VA 102'	.530+/- 1.500	mph
12	N Dasibi CO	1.506+/- .368	ppm	38	S BOT PER	4.355+/- 2.108	mph
13	N TOP PAR	.213+/- 2.067	mph	39	N VA 74'	.310+/- 1.262	mph
14	N Dasibi O3	.017+/- .004	ppm	40	S BOT PAR	-.092+/- 2.083	mph

15	N TOP VER	.392+/-	1.171	mph	41	N GND PER	2.390+/-	1.790	mph
16	N NOX/TECO	.167+/-	.052	ppm	42	S BDT VER	.208+/-	.904	mph
17	N BDT PER	4.964+/-	2.411	mph	43	N GND PAR	-1.537+/-	1.964	mph
19	N BDT PAR	-.346+/-	2.102	mph	45	N GND VER	.096+/-	.772	mph
20	N NO2/TECO	.026+/-	.005	ppm	49	N EcoLyzer-1	*****	*****	ppm
21	N BDT VER	.313+/-	1.044	mph	50	S TOP PER	4.843+/-	2.326	ppm
22	N NO/TECO	.141+/-	.049	ppm	51	N EcoLyzer-2	*****	*****	ppm
23	N HA 102'	7.516+/-	2.363	ppm	52	S TOP PAR	.370+/-	2.250	mph
24	N THC/Byron	2.177+/-	.066	ppm	53	N EcoLyzer-3	*****	*****	ppm
25	N WV 102'	182.159+/-	18.495	DEGR AZ	54	S TOP VER	.255+/-	1.156	ppm
26	N NMHC/Byro	2.057+/-	.361	ppm	55	N EcoLyzer-4	1.971+/-	.696	ppm
27	N Gnd Temp	77.636+/-	2.211	DEGR F	56	S GND PER	2.087+/-	1.616	ppm
28	N CH4/Byron	1.449+/-	.059	ppm	57	N EcoLyzer-5	*****	*****	ppm
29	N WV 74'	168.993+/-	20.394	DEGR AZ	58	S GND PAR	.451+/-	1.739	ppm
30	N CO/Byron	.474+/-	.557	ppm	59	N Rel Hum	74.516+/-	.893	%
31	N 74' Temp	73.337+/-	2.546	DEGR F	60	S GND VER	.201+/-	.723	mph
32	N CO2/Byron	433.480+/-	14.581	ppm	61	N Solar Rad	358.287+/-	61.891	W/m**2
35	N HA 74'	-.7.026+/-	3.062	mph	64	S VA 55'	.649+/-	1.393	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.10+/-	2.42	181.9+/-	21.1	7.0+/- 16.2
02	17 19 21	5.53+/-	2.35	175.8+/-	22.8	6.9+/- 16.7
03	38 40 42	4.87+/-	2.20	181.6+/-	23.8	4.9+/- 13.1
04	41 43 45	3.49+/-	1.88	150.2+/-	36.0	2.7+/- 16.5
05	50 52 54	5.47+/-	2.34	184.1+/-	24.8	5.7+/- 16.1
06	56 58 60	2.83+/-	1.67	174.6+/-	37.8	9.3+/- 21.4

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 7905 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	181	58.0	172	54.2	319	58.1	132	58.5	17	53.7
Cat2	319	60.0	630	57.1	526	58.9	489	59.3	314	51.9
Cat3	57	61.1	129	60.0	98	57.4	82	59.9	35	51.0
Cat4	46	64.0	66	61.7	41	57.6	34	59.3	9	48.7
Cat5	26	65.8	29	63.2	8	59.1	11	60.5	2	53.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	66.4	174	60.0	219	61.5	168	59.8	68	47.7
Cat2	747	68.2	624	61.5	564	61.6	566	60.7	195	47.7
Cat3	65	68.8	130	62.1	120	61.3	56	60.5	4	46.2
Cat4	70	70.0	90	62.8	67	62.8	21	60.4	1	29.8
Cat5	20	69.9	25	64.3	23	62.7	3	59.5	0	0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
58.6	1561	19.7	60.1	4974	62.9	60.6	778	9.8	62.7	445	5.6	64.1	147	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	6.262+/-	2.836	37	N VA 102'	.398+/-	1.581	mph
12	N Dasibi CO	1.338+/-	.336	38	S BDT PER	3.999+/-	1.873	mph
13	N TDP PAR	1.407+/-	2.338	39	N VA 74'	.122+/-	1.388	mph
14	N Dasibi O3	.016+/-	.003	40	S BDT PAR	.464+/-	1.952	mph
15	N TOP VER	.179+/-	1.360	41	N GND PER	2.439+/-	1.898	mph
16	N NOX/TECO	.158+/-	.049	42	S BDT VER	.351+/-	.822	mph
17	N BDT PER	5.499+/-	2.830	43	N GND PAR	-.646+/-	2.251	mph
19	N BDT PAR	.513+/-	2.244	45	N GND VER	.135+/-	.953	ppm
20	N NO2/TECO	.026+/-	.005	49	N EcoLyzer-1	.829+/-	.267	ppm
21	N BDT VER	.216+/-	1.250	50	S TOP PER	4.997+/-	2.278	ppm
22	N NO/TECO	.132+/-	.047	51	N EcoLyzer-2	*****	*****	ppm
23	N HA 102'	8.823+/-	2.686	52	S TOP PAR	1.150+/-	2.331	ppm
24	N THC/Byron	2.245+/-	.181	53	N EcoLyzer-3	*****	*****	ppm
25	N WV 102'	187.029+/-	16.612	54	S TOP VER	.298+/-	1.033	ppm
26	N NMHC/Byro	2.327+/-	.613	55	N EcoLyzer-4	1.817+/-	.587	ppm
27	N Gnd Temp	75.024+/-	3.157	56	S GND PER	1.968+/-	1.372	ppm
28	N CH4/Byron	.458+/-	.071	57	N EcoLyzer-5	*****	*****	ppm
29	N WV 74'	176.629+/-	18.702	58	S GND PAR	-.098+/-	1.504	ppm
30	N CO/Byron	.776+/-	.404	59	N Rel Hum	77.259+/-	1.813	%
31	N 74' Temp	72.809+/-	3.012	60	S GND VER	.282+/-	.701	ppm
32	N CO2/Byron	431.485+/-	24.084	61	N Solar Rad	250.447+/-	75.894	W/m**2
35	N HA 74'	8.086+/-	3.264	64	S VA 55'	.623+/-	1.332	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.96+/-	2.86	191.7+/-	20.9	4.0+/- 14.9
02	17 19 21	6.12+/-	2.80	185.2+/-	23.1	5.3+/- 16.3
03	38 40 42	4.50+/-	2.03	186.5+/-	21.9	7.1+/- 13.7
04	41 43 45	3.52+/-	1.88	164.5+/-	40.7	4.3+/- 18.4
05	50 52 54	5.68+/-	2.40	191.3+/-	23.1	5.9+/- 14.5
06	56 58 60	2.55+/-	1.45	182.2+/-	34.1	10.7+/- 22.5

11:24:36 -- TURNED DOWN THE RANGE ON CH. 9 RADAR GRD  
 11:53:53 -- HAVE CHANGED SAMPLE SYSTEM ON BYRON SO THAT SAMPLES ARE DRAWN DIRECTLY OFF OF THE  
 11:53:56 -- MANIFOLD.

Average for 15 minute period ending at 11:15:00  
Traffic Data  
 Total Traffic = 1862 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	38	58.0	53	54.8	69	57.6	47	58.0	6	53.0
Cat2	87	60.2	143	58.0	134	59.0	81	58.8	91	51.6
Cat3	21	60.5	36	59.2	28	58.2	16	56.9	12	51.6
Cat4	9	62.7	11	61.6	10	58.7	12	57.6	1	50.6
Cat5	7	67.1	11	65.7	5	60.5	2	52.8	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	66.7	52	59.7	50	61.7	40	60.2	17	48.1
Cat2	157	67.7	189	61.8	141	61.9	151	61.4	37	46.6
Cat3	17	68.7	25	62.0	32	62.3	14	59.8	1	41.3
Cat4	12	69.7	21	62.6	21	62.7	5	62.0	1	42.3
Cat5	6	74.9	6	61.8	7	66.9	1	50.3	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.5	401	20.4	60.2	1211	61.7	60.2	202	10.3	62.1	103	5.2	65.3	45	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.752+/-	3.224	37	N VA 102'	.230+/-	1.640
12	N Dasibi CD	1.317+/-	.290	38	S BOT PER	4.690+/-	2.225
13	N TOP PAR	.144+/-	2.188	39	N VA 74'	.156+/-	1.551
14	N Dasibi O3	.020+/-	.003	40	S BOT PAR	-.322+/-	1.874
15	N TOP VER	.429+/-	1.628	41	N GND PER	2.808+/-	2.151
16	N NOX/TECO	.144+/-	.045	42	S BOT VER	.256+/-	1.082
17	N BOT PER	6.394+/-	3.131	43	N GND PAR	-1.317+/-	2.250
19	N BOT PAR	-.668+/-	2.228	45	N GND VER	.156+/-	.882
20	N NO2/TECO	.026+/-	.006	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.236+/-	1.425	50	S TOP PER	5.705+/-	2.707
22	N NO/TECO	.118+/-	.041	51	N Ecolyzer-2	.738+/-	.286
23	N HA 102'	10.175+/-	2.308	52	S TOP PAR	.102+/-	2.325
24	N THC/Byron	2.112+/-	.062	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	178.853+/-	14.788	54	S TOP VER	.417+/-	1.113
26	N NMHC/Byro	2.767+/-	.266	55	N Ecolyzer-4	1.784+/-	.533
27	N Gnd Temp	76.385+/-	2.825	56	N GND PER	2.689+/-	1.859
28	N CH4/Byron	1.444+/-	.067	57	N Ecolyzer-5	2.218+/-	1.562
29	N WV 74'	168.170+/-	15.231	58	S GND PAR	-.845+/-	1.835
30	N CO/Byron	.466+/-	.170	59	N Rel Hum	73.701+/-	.527
31	N 74' Temp	73.258+/-	3.176	60	S GND VER	.344+/-	.723
32	N CO2/Byron	449.113+/-	20.203	61	N Solar Rad	305.968+/-	23.970
35	N HA 74'	8.947+/-	3.289	64	S VA 55'	.771+/-	1.306

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.26+/- 3.15	181.7+/- 17.5	4.6+/- 12.6
02	17 19 21	7.00+/- 3.03	173.8+/- 21.1	3.5+/- 16.1
03	38 40 42	5.13+/- 2.34	179.1+/- 18.8	5.3+/- 17.1
04	41 43 45	3.98+/- 2.05	154.2+/- 36.4	2.7+/- 17.3
05	50 52 54	6.27+/- 2.72	183.7+/- 21.9	7.2+/- 16.2
06	56 58 60	3.36+/- 2.05	168.9+/- 32.4	11.8+/- 25.0

Average for 15 minute period ending at 11:30:00  
Traffic Data  
 Total Traffic = 2093 vehicles averaging 59.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	59.1	60	55.5	104	57.3	43	60.4	17	51.8
Cat2	91	59.6	143	58.1	117	58.6	97	58.5	92	51.3
Cat3	14	61.5	25	61.3	20	57.9	17	59.4	9	46.9
Cat4	11	63.8	26	60.2	20	57.6	12	61.2	4	45.8
Cat5	5	66.6	5	61.8	1	61.3	5	62.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	65.2	44	59.1	53	61.2	39	58.6	20	46.8
Cat2	179	67.0	188	61.5	167	61.9	143	60.9	82	46.5
Cat3	13	67.9	46	62.7	33	62.2	19	60.3	1	40.3
Cat4	23	68.3	17	64.5	13	65.2	5	74.2	2	49.2
Cat5	12	69.7	10	64.1	10	65.0	2	57.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	456	21.8	59.8	1257	60.1	60.9	197	9.4	62.6	133	6.4	65.2	50	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.984+/-	2.275	37	N VA 102'	.211+/-	1.570
12	N Dasibi CD	1.452+/-	.306	38	S BOT PER	4.178+/-	1.873
13	N TOP PAR	.678+/-	2.541	39	N VA 74'	-.011+/-	1.525
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	-.187+/-	1.606
15	N TOP VER	.173+/-	1.432	41	N GND PER	2.711+/-	1.746
16	N NOX/TECO	.173+/-	.052	42	S BOT VER	.277+/-	.812
17	N BOT PER	6.132+/-	2.479	43	N GND PAR	-1.175+/-	2.339
19	N BOT PAR	-.076+/-	2.287	45	N GND VER	.145+/-	1.144
20	N NO2/TECO	.029+/-	.005	49	N Ecolyzer-1	1.095+/-	.218
21	N BOT VER	.251+/-	1.347	50	S TOP PER	5.233+/-	2.450
22	N NO/TECO	.144+/-	.049	51	N Ecolyzer-2	.733+/-	.250
23	N HA 102'	9.146+/-	2.433	52	S TOP PAR	.157+/-	1.928
24	N THC/Byron	2.123+/-	.054	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	179.306+/-	16.286	54	S TOP VER	.451+/-	1.280
26	N NMHC/Byro	2.518+/-	.086	55	N Ecolyzer-4	1.766+/-	1.426
27	N Gnd Temp	78.261+/-	2.448	56	S GND PAR	2.430+/-	1.677
28	N CH4/Byron	1.404+/-	.060	57	N Ecolyzer-5	1.973+/-	2.069
29	N WV 74'	169.365+/-	17.382	58	S GND PAR	-.719+/-	1.476
30	N CO/Byron	.274+/-	.192	59	N Rel Hum	72.431+/-	.876
31	N 74' Temp	73.806+/-	2.810	60	S GND VER	.246+/-	.614
32	N CO2/Byron	412.636+/-	10.628	61	N Solar Rad	308.649+/-	73.614
35	N HA 74'	8.749+/-	2.959	64	S VA 55'	.701+/-	1.444

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.62+/- 2.21	184.4+/- 20.4	2.4+/- 12.4
02	17	19	21	6.72+/- 2.38	177.9+/- 21.8	3.9+/- 12.6
03	38	40	42	4.55+/- 1.90	180.2+/- 19.7	4.9+/- 12.5
04	41	43	45	3.97+/- 1.69	155.7+/- 37.6	2.6+/- 18.4
05	50	52	54	5.81+/- 2.28	188.7+/- 21.9	8.6+/- 17.9
06	56	58	60	2.95+/- 1.77	172.9+/- 31.6	8.3+/- 22.7

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2057 vehicles averaging 60.5 mph

Westbound Traffic											
		Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1		44	58.3	65	55.2	106	57.9	34	59.8	10	53.7
Cat2		98	61.3	133	57.6	119	58.8	124	59.7	90	51.9
Cat3		22	61.5	36	61.5	19	59.1	19	58.8	6	52.0
Cat4		12	65.7	24	62.6	16	57.0	12	57.9	3	51.1
Cat5		5	67.5	6	64.2	6	59.3	3	60.9	0	0

Eastbound Traffic											
		Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1		20	67.6	46	59.8	50	59.5	52	59.6	18	48.8
Cat2		198	68.5	148	62.0	135	62.1	124	62.4	49	47.4
Cat3		24	68.4	34	63.9	31	63.5	17	58.4	1	47.9
Cat4		12	72.5	30	63.2	23	63.2	6	64.0	1	44.6
Cat5		6	67.9	10	62.4	9	64.6	1	55.1	0	0

Vehicle Classification Summary											
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%
58.3	445	21.6	60.7	1218	59.2	61.9	209	10.2	62.6	139	6.8
											63.7
											46
											2.2

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	4.442+/-	2.804	37	N VA 102'	.365+/-	1.323				
12	N Dasibi CO	1.417+/-	.386	38	S BOT PER	3.725+/-	1.800				
13	N TDP PAR	.550+/-	1.852	39	N VA 74'	.202+/-	1.282				
14	N Dasibi O3	.017+/-	.003	40	S BOT PAR	-.603+/-	1.242				
15	N TOP VER	.132+/-	1.124	41	N GND PER	1.798+/-	1.488				
16	N NOX/TECO	.160+/-	.041	42	S BOT VER	-.347+/-	.947				
17	N BOT PER	3.437+/-	1.893	43	N GND PAR	-1.082+/-	1.733				
19	N BOT PAR	-.209+/-	1.908	45	N GND VER	.139+/-	.884				
20	N ND2/TECO	.030+/-	.005	49	N Ecolyzer-1	1.210+/-	2.219				
21	N BOT VER	.167+/-	1.120	50	S TOP PER	4.162+/-	1.964				
22	N ND/TECO	.130+/-	.038	51	N Ecolyzer-2	-.896+/-	.306				
23	N HA 102'	8.520+/-	2.602	52	S TOP PAR	-.376+/-	1.756				
24	N THC/Byron	2.148+/-	.082	53	N Ecolyzer-3	*****	*****				
25	N WV 102'	181.097+/-	17.889	54	S TOP VER	.408+/-	1.158				
26	N NMHC/Byro	3.192+/-	.082	55	N Ecolyzer-4	2.068+/-	1.499				
27	N Gnd Temp	78.652+/-	3.034	56	S GND PER	2.008+/-	1.521				
28	N CH4/Byron	1.496+/-	.105	57	N Ecolyzer-5	2.350+/-	1.787				
29	N WV 74'	171.834+/-	20.838	58	S GND PAR	-.787+/-	1.314				
30	N CO/Byron	.544+/-	.477	59	N Rel Hum	70.298+/-	1.446				
31	N 74' Temp	75.473+/-	2.326	60	S GND VER	.175+/-	.676				
32	N CO2/Byron	447.647+/-	18.840	61	N Solar Rad	352.519+/-	79.338				
35	N HA 74'	6.092+/-	3.104	64	S VA 55'	.766+/-	1.331				

UWV Vector Calculations						
UWV	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.02+/- 2.50	190.4+/- 27.9	5.3+/- 17.4
02	17	19	21	4.07+/- 1.95	177.7+/- 28.1	4.7+/- 18.9
03	38	40	42	4.08+/- 1.83	173.7+/- 18.4	7.0+/- 16.0
04	41	43	45	2.81+/- 1.58	153.5+/- 39.5	4.8+/- 22.3
05	50	52	54	4.71+/- 1.92	178.1+/- 24.3	9.3+/- 19.1
06	56	58	60	2.57+/- 1.59	165.9+/- 32.8	8.7+/- 25.3

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 1988 vehicles averaging 60.2 mph

Westbound Traffic											
		Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1		53	57.5	82	55.5	80	59.1	43	59.4	14	53.5
Cat2		84	59.3	128	57.4	144	59.4	127	61.3	77	52.1
Cat3		15	62.9	32	59.5	13	58.6	15	61.4	6	46.0
Cat4		7	62.4	18	62.0	6	57.5	4	62.2	6	45.7
Cat5		2	67.8	7	64.0	3	62.6	2	62.6	0	0

Eastbound Traffic											
		Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
		No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1		19	65.4	44	59.0	41	60.5	42	58.2	20	46.5
Cat2		201	68.9	157	61.2	139	61.3	122	60.4	51	49.2
Cat3		25	69.0	30	61.7	32	60.4	13	60.2	1	44.6
Cat4		16	68.3	20	63.9	23	64.1	4	62.3	0	0
Cat5		2	69.6	7	60.9	11	64.1	0	0	0	0

Vehicle Classification Summary											
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%
57.9	438	22.0	60.6	1230	61.9	61.2	182	9.2	62.7	104	5.2
											63.7
											34
											1.7

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units				
11	N TOP PER	7.911+/-	3.137	37	N VA 102'	.307+/-	1.464				
12	N Dasibi CO	1.387+/-	.434	38	S BOT PER	4.841+/-	2.227				
13	N TOP PAR	-.147+/-	2.489	39	N VA 74'	-.217+/-	1.575				
14	N Dasibi O3	.021+/-	.004	40	S BOT PAR	-.644+/-	1.853				
15	N TOP VER	.081+/-	1.801	41	N GND PER	3.190+/-	2.181				
16	N NOX/TECO	.143+/-	.048	42	S BOT VER	.356+/-	1.126				
17	N BOT PER	6.760+/-	3.186	43	N GND PAR	-1.630+/-	2.467				
19	N BOT PAR	-.920+/-	2.608	45	N GND VER	.081+/-	.957				
20	N ND2/TECO	.024+/-	.006	49	N Ecolyzer-1	1.005+/-	.235				
21	N BOT VER	.125+/-	1.264	50	S TOP PER	5.687+/-	3.090				
22	N ND/TECO	.118+/-	.045	51	N Ecolyzer-2	-.620+/-	.258				
23	N HA 102'	10.058+/-	2.855	52	S TOP PAR	-.277+/-	2.081				
24	N THC/Byron	1.920+/-	.132	53	N Ecolyzer-3	*****	*****				
25	N WV 102'	175.087+/-	15.686	54	S TOP VER	.106+/-	1.424				
26	N NMHC/Byro	2.112+/-	.728	55	N Ecolyzer-4	1.530+/-	.469				
27	N Gnd Temp	80.033+/-	1.124	56	S GND PER	2.675+/-	1.815				

28	N CH4/Byron	1.343+/-	.050	ppm	57	N Ecolyzer-5	2.221+/-	2.046	ppm
29	N WV 74'	165.769+/-	15.554	DEGR AZ	58	S GND PAR	-.916+/-	1.800	mph
30	N CD/Byron	.787+/-	.571	ppm	59	N Rel Hum	66.553+/-	1.185	%
31	N 74' Temp	75.988+/-	2.855	DEGR F	60	S GND VER	.271+/-	.805	mph
32	N CD2/Byron	641.101+/-	265.361	ppm	61	N Solar Rad	435.177+/-	59.668	W/m**2
35	N HA 74'	9.724+/-	3.402	mph	64	S VA 55'	.470+/-	1.615	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.52+/-	3.02	179.9+/-	18.4	2.6+/-	14.7
02	17	19	21	7.44+/-	3.13	172.5+/-	22.4	3.9+/-	14.7
03	38	40	42	5.32+/-	2.30	175.8+/-	20.2	6.8+/-	15.7
04	41	43	45	4.41+/-	2.29	155.5+/-	32.8	2.5+/-	18.7
05	50	52	54	6.24+/-	3.07	181.3+/-	21.5	4.5+/-	18.0
06	56	58	60	3.41+/-	1.89	169.1+/-	33.9	8.4+/-	22.0

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8100 vehicles averaging 60.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	189	58.2	260	55.3	359	57.9	167	59.4	47	52.9
Cat 2	360	60.1	547	57.8	514	59.0	429	60.0	350	51.7
Cat 3	72	61.5	129	60.3	80	58.4	67	59.1	33	49.4
Cat 4	39	63.9	79	61.5	52	57.6	40	59.2	14	47.2
Cat 5	19	67.1	29	64.3	15	80.5	12	60.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	90	66.5	186	59.4	194	60.7	173	59.2	75	47.5
Cat 2	735	68.1	660	61.6	582	61.8	540	61.3	199	47.4
Cat 3	79	68.8	135	62.7	128	62.1	63	59.6	4	43.5
Cat 4	63	69.4	88	63.5	80	63.6	20	65.8	4	46.3
Cat 5	26	70.5	33	62.5	37	65.0	4	55.1	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5		
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	
58.2	1740	60.3	4916	60.7	61.0	780	62.5	479	64.6	175
								5.9		2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.772+/-	3.154	37	N VA 102'	.278+/-	1.559
12	N Dasib: CD	1.393+/-	.357	38	S BDT PER	6.358+/-	2.084
13	N TOP PAR	.306+/-	2.297	39	N VA 74'	.033+/-	1.485
14	N Dasib: Q3	.019+/-	.004	40	S BDT PAR	-.438+/-	1.671
15	N TOP VER	.204+/-	1.520	41	N GND PER	2.627+/-	1.976
16	N ND0/TECD	.155+/-	.048	42	S BDT VER	.308+/-	.989
17	N BDT PER	5.681+/-	3.020	43	N GND PAR	-1.301+/-	2.220
19	N BDT PAR	-.468+/-	2.292	45	N GND VER	.130+/-	.973
20	N ND2/TECD	.027+/-	.006	49	N Ecolyzer-1	1.098+/-	.236
21	N BDT VER	.195+/-	1.292	50	S TOP PER	5.197+/-	2.655
22	N ND/TECD	.127+/-	.045	51	N Ecolyzer-2	.747+/-	.293
23	N HA 102'	8.975+/-	2.946	52	S TDP PAR	-.093+/-	2.042
24	N THC/Byron	2.078+/-	.123	53	N Ecolyzer-3	*****+/-*****	
25	N WV 102'	178.682+/-	16.251	54	S TOP VER	.346+/-	1.255
26	N NMHC/Byro	2.847+/-	.548	55	N Ecolyzer-4	1.787+/-	.519
27	N Gnd Temp	78.333+/-	2.768	56	S GND PER	2.445+/-	1.741
28	N CH4/Byron	1.422+/-	.091	57	N Ecolyzer-5	2.193+/-	1.881
29	N WV 74'	168.758+/-	17.497	58	S GND PAR	-.842+/-	1.620
30	N CD/Byron	.517+/-	.426	59	N Rel Hum	70.746+/-	2.923
31	N 74' Temp	74.626+/-	2.918	60	S GND VER	.259+/-	.708
32	N CD2/Byron	487.624+/-	158.488	61	N Solar Rad	350.078+/-	81.101
35	N HA 74'	8.628+/-	3.536	64	S VA 55'	.677+/-	1.432

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.35+/-	3.07	183.9+/-	21.7	3.7+/-	14.5
02	17	19	21	6.30+/-	2.97	175.5+/-	23.6	4.0+/-	15.6
03	38	40	42	4.77+/-	2.15	177.2+/-	19.4	6.0+/-	15.4
04	41	43	45	3.79+/-	2.01	154.7+/-	36.7	3.2+/-	18.5
05	50	52	54	5.76+/-	2.60	182.0+/-	22.5	7.4+/-	17.5
06	56	58	60	3.07+/-	1.88	169.2+/-	32.7	9.3+/-	23.8

12:28:18 -- BEGIN CALIBRATION OF NCO-5 CH 57  
 12:34:09 -- CHANGED INTERFERENCE FILTER ON CO-2  
 12:34:47 -- DISREGARD ALL ECDCLYZER #3 VALUES SINCE LAST SPAN. SAMPLE HOSE NOT CONNECTED TO  
 12:34:48 -- TOWER  
 12:40:41 -- END CAL. NCO-5 GRD  
 12:41:05 -- BEGIN CAL. NCO-4 GRD  
 12:54:38 -- END CAL. NCO-4 GRD  
 12:54:46 -- BEGIN CAL. NCO-3 GRD

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 2050 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	58.3	60	55.1	106	57.3	47	59.0	16	51.6
Cat2	99	60.3	152	57.4	134	59.4	110	60.0	93	52.1
Cat3	12	61.7	33	60.4	16	60.0	10	58.2	6	51.0
Cat4	18	63.5	12	59.7	9	55.3	5	56.2	5	48.2
Cat5	1	68.5	7	61.3	1	60.0	3	55.7	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	65.7	40	59.7	44	60.8	30	60.6	18	47.8
Cat2	203	67.6	168	62.1	128	62.0	135	60.1	34	48.9
Cat3	25	67.1	31	62.0	47	61.3	12	58.4	2	39.5
Cat4	17	69.2	22	63.9	30	62.9	8	61.8	1	41.5
Cat5	8	69.8	7	64.3	9	59.8	2	56.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
58.0	434	21.2	60.5	1257	61.3	61.0	194	9.5	62.1	127	6.2	62.7	38	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.313+/-	2.971 mph	37	N VA 102'	.021+/-	1.734 mph
12	N Dasibi CD	1.255+/-	.309 ppm	38	S BOT PER	4.887+/-	2.238 ppm
13	N TOP PAR	.017+/-	2.722 mph	39	N VA 74'	-.195+/-	1.620 mph
14	N Dasibi D3	.023+/-	.003 ppm	40	S BOT PAR	-.314+/-	2.268 ppm
15	N TOP VER	.150+/-	1.725 mph	41	N GND PER	3.486+/-	2.104 ppm
16	N NOX/TECD	.142+/-	.047 ppm	42	S BOT VER	.659+/-	1.318 ppm
17	N BOT PER	8.049+/-	2.897 mph	43	N GND PAR	-1.875+/-	2.362 ppm
18	N BOT PAR	-.851+/-	2.456 ppm	45	N GND VER	.050+/-	1.058 ppm
20	N NO2/TECD	.023+/-	.005 ppm	48	N EcoLyzer-1	.897+/-	.234 ppm
21	N BOT VER	.245+/-	1.597 mph	50	S TOP PER	6.268+/-	2.438 ppm
22	N ND/TECD	.120+/-	.044 ppm	51	N EcoLyzer-2	.530+/-	.208 ppm
23	N HA 102'	12.009+/-	2.389 ppm	52	S TOP PAR	-.109+/-	2.494 ppm
24	N THC/Byron	1.928+/-	.097 ppm	53	N EcoLyzer-3	*****	***** ppm
25	N WV 102'	176.039+/-	11.307 DEGR A2	54	S TOP VER	.574+/-	1.553 ppm
26	N NMHC/Byro	2.721+/-	.086 ppm	55	N EcoLyzer-4	1.355+/-	.442 ppm
27	N Gnd Temp	78.990+/-	1.690 DEGR F	56	S GND PER	2.986+/-	1.733 ppm
28	N CH4/Byron	1.319+/-	.078 ppm	57	N EcoLyzer-5	1.859+/-	1.525 ppm
29	N WV 74'	164.862+/-	14.184 DEGR A2	58	S GND PAR	-.621+/-	2.028 ppm
30	N CO/Byron	.239+/-	.112 ppm	59	N Rel Hum	64.647+/-	.609 %
31	N 74' Temp	75.473+/-	2.890 DEGR F	60	S GND VER	.445+/-	.844 ppm
32	N CO2/Byron	522.553+/-	226.038 ppm	61	N Solar Rad	324.407+/-	96.348 W/m**2
35	N HA 74'	11.511+/-	3.216 mph	64	S VA 55'	.860+/-	1.831 ppm

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	9.86+/-	2.93	179.0+/- 16.8
02	17 19 21	8.64+/-	2.84	172.3+/- 17.3
03	38 40 42	5.56+/-	2.31	178.6+/- 22.7
04	41 43 45	4.73+/-	2.09	151.4+/- 30.8
05	50 52 54	6.94+/-	2.44	179.9+/- 20.8
06	56 58 60	3.75+/-	1.80	171.7+/- 31.7

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 1957 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	57.5	71	56.2	91	57.4	34	59.4	14	51.6
Cat2	90	59.3	159	57.4	123	60.5	124	60.3	72	50.6
Cat3	9	61.5	32	62.2	19	58.0	12	60.1	7	56.1
Cat4	14	64.0	18	61.0	10	57.3	9	59.6	1	55.1
Cat5	5	66.5	5	65.5	0	0	2	66.4	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	65.0	37	60.0	62	61.3	52	59.5	32	45.8
Cat2	185	67.5	184	61.8	120	61.8	96	61.2	38	47.0
Cat3	12	70.0	35	62.6	28	62.5	12	59.6	0	0
Cat4	20	69.1	17	63.4	25	62.0	6	61.8	0	0
Cat5	5	69.6	7	62.9	11	66.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.7	467	23.9	60.3	1171	59.8	61.9	164	8.4	62.8	120	6.1	66.2	35	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.091+/-	2.986 mph	37	N VA 102'	.548+/-	1.882 mph
12	N Dasibi CD	1.229+/-	.268 ppm	38	S BOT PER	4.994+/-	2.142 ppm
13	N TOP PAR	.790+/-	2.354 mph	39	N VA 74'	.264+/-	1.640 ppm
14	N Dasibi D3	.021+/-	.004 ppm	40	S BOT PAR	.024+/-	1.950 ppm
15	N TOP VER	.487+/-	1.431 mph	41	N GND PER	2.872+/-	1.933 ppm
16	N NOX/TECD	.142+/-	.036 ppm	42	S BOT VER	.327+/-	1.106 ppm
17	N BOT PER	6.145+/-	2.721 mph	43	N GND PAR	-1.080+/-	2.308 ppm
18	N BOT PAR	-.169+/-	2.319 ppm	45	N GND VER	.257+/-	1.001 ppm
20	N NO2/TECD	.024+/-	.005 ppm	49	N EcoLyzer-1	.977+/-	.221 ppm
21	N BOT VER	.419+/-	1.445 mph	50	S TOP PER	6.105+/-	2.841 ppm
22	N ND/TECD	.118+/-	.033 ppm	51	N EcoLyzer-2	.663+/-	.260 ppm
23	N HA 102'	10.074+/-	2.792 ppm	52	S TOP PAR	-.498+/-	2.161 ppm
24	N THC/Byron	2.068+/-	.140 ppm	53	N EcoLyzer-3	*****	***** ppm
25	N WV 102'	181.822+/-	14.765 DEGR A2	54	S TOP VER	.268+/-	1.377 ppm
26	N NMHC/Byro	2.579+/-	.109 ppm	55	N EcoLyzer-4	1.601+/-	.480 ppm
27	N Gnd Temp	78.417+/-	2.720 DEGR F	56	S GND PER	2.606+/-	1.767 ppm
28	N CH4/Byron	1.303+/-	.048 ppm	57	N EcoLyzer-5	2.281+/-	2.780 ppm
29	N WV 74'	170.623+/-	17.120 DEGR A2	58	S GND PAR	-.338+/-	1.686 ppm
30	N CO/Byron	.785+/-	.391 ppm	59	N Rel Hum	67.009+/-	1.149 %

31	N 74' Temp	74.756+/-	2.615	DEGR F	60	S GND VER	184+/-	1.008	mph
32	N CO2/Byron	392.281+/-	30.977	ppm	61	N Solar Rad	146.421+/-	36.752	W/m <sup>2</sup>
35	N HA 74'	9.184+/-	3.514	mph	64	S VA 55'	864+/-	1.629	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	7.68+/- 2.93	187.3+/- 19.0	5.3+/- 12.9			
02	17	19	21	6.76+/- 2.66	178.3+/- 20.7	5.6+/- 15.3			
03	38	40	42	5.44+/- 2.24	181.4+/- 17.8	6.3+/- 15.1			
04	41	43	45	3.98+/- 1.91	158.0+/- 36.5	4.7+/- 17.3			
05	50	52	54	6.66+/- 2.58	185.0+/- 19.6	5.3+/- 15.0			
06	56	58	60	3.28+/- 1.76	174.9+/- 32.9	7.1+/- 24.4			

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 2098 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	57.8	73	54.4	86	57.6	45	58.1	10	51.9
Cat2	97	59.0	146	57.1	142	58.6	124	58.8	80	50.8
Cat3	17	60.7	25	59.7	25	57.7	17	59.8	8	49.8
Cat4	8	64.7	11	62.3	6	60.3	8	58.4	4	46.0
Cat5	3	66.5	9	65.5	2	61.1	0	.0	1	44.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	66.8	49	60.2	54	62.1	54	60.3	19	46.2
Cat2	204	67.5	173	61.8	136	62.8	126	60.9	44	49.0
Cat3	20	67.8	41	62.1	29	63.2	18	59.7	1	52.4
Cat4	25	69.9	24	63.0	20	62.1	2	57.1	0	.0
Cat5	5	63.0	7	65.1	10	63.7	1	59.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	478	22.8	60.2	1272	60.6	60.9	201	9.6	63.3	108	5.1	63.8	38	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.341+/- 2.925	mph	37	N VA 102'	3.361+/- 1.839	mph
12	N Dasibi CO	1.311+/- .332	ppm	38	S BOT PER	4.031+/- 2.196	mph
13	N TOP PAR	.983+/- 2.431	mph	39	N VA 74'	.089+/- 1.689	mph
14	N Dasibi O3	.020+/- .003	ppm	40	S BOT PAR	.370+/- 1.582	mph
15	N TOP VER	.212+/- 1.524	mph	41	N GND PER	3.406+/- 1.873	mph
16	N NOX/TECO	.142+/- .041	ppm	42	S BOT VER	.466+/- .831	mph
17	N BOT PER	6.957+/- 2.835	mph	43	N GND PAR	-1.120+/- 2.699	mph
19	N BOT PAR	.228+/- 2.413	mph	45	N GND VER	.204+/- 1.252	mph
20	N NO2/TECO	.024+/- .006	ppm	49	N EcoLyzer-1	.961+/- .213	ppm
21	N BOT VER	.161+/- 1.520	mph	50	S TOP PER	5.118+/- 2.557	mph
22	N NO/TECO	.118+/- .038	ppm	51	N EcoLyzer-2	1.160+/- .303	ppm
23	N HA 102'	10.792+/- 2.280	mph	52	S TOP PAR	1.068+/- 2.199	mph
24	N THC/Byron	1.974+/- .078	ppm	53	N EcoLyzer-3	*****	ppm
25	N WV 102'	180.855+/- 13.784	DEGR AZ	54	S TOP VER	.612+/- 1.247	mph
26	N NMHC/Byro	2.887+/- .335	ppm	55	N EcoLyzer-6	*****	ppm
27	N Gnd Temp	77.401+/- 2.467	DEGR F	58	S GND PER	2.337+/- 1.546	mph
28	N CH4/Byron	1.282+/- .124	ppm	57	N EcoLyzer-5	*****	ppm
29	N WV 74'	173.392+/- 15.794	DEGR AZ	58	S GND PAR	-.086+/- 1.471	mph
30	N CO/Byron	.826+/- .523	ppm	59	N Rel Hum	68.295+/- .461	%
31	N 74' Temp	75.942+/- 3.275	DEGR F	60	S GND VER	.310+/- .666	mph
32	N CO2/Byron	403.843+/- 15.687	ppm	61	N Solar Rad	152.734+/- 25.682	W/m <sup>2</sup>
35	N HA 74'	10.469+/- 2.896	mph	64	S VA 55'	.955+/- 1.519	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	8.92+/- 2.80	186.8+/- 17.3	3.1+/- 12.2			
02	17	19	21	7.54+/- 2.79	181.7+/- 20.0	4.0+/- 15.4			
03	38	40	42	4.45+/- 2.19	185.2+/- 20.1	9.0+/- 14.9			
04	41	43	45	4.63+/- 1.95	160.0+/- 34.5	4.8+/- 17.6			
05	50	52	54	5.83+/- 2.57	192.4+/- 21.9	10.1+/- 17.5			
06	58	58	60	2.82+/- 1.62	182.8+/- 29.6	10.5+/- 20.6			

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2028 vehicles averaging 60.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	58.2	60	55.2	89	57.6	47	59.4	13	51.0
Cat2	91	59.6	148	57.7	140	58.9	126	59.5	87	51.5
Cat3	13	60.5	19	62.1	20	56.9	12	61.3	3	49.6
Cat4	10	64.3	18	59.2	9	59.7	4	60.1	3	51.4
Cat5	4	68.3	8	65.2	0	.0	3	61.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	15	66.5	85	60.6	56	62.0	50	60.6	28	48.5
Cat2	206	68.9	155	62.4	137	63.8	127	61.7	35	48.2
Cat3	30	68.7	30	64.0	20	63.5	11	61.4	1	38.8
Cat4	18	69.3	21	64.5	20	64.4	4	59.6	0	.0
Cat5	1	72.1	10	65.5	13	64.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.3	471	23.2	61.0	1252	61.7	62.6	159	7.8	63.2	107	5.3	65.2	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.606+/- 3.171	mph	37	N VA 102'	2.231+/- 1.461	mph
12	N Dasibi CO	1.323+/- .414	ppm	38	S BOT PER	3.988+/- 1.831	mph
13	N TOP PAR	.815+/- 1.935	mph	39	N VA 74'	-.170+/- 1.453	mph
14	N Dasibi O3	.019+/- .003	ppm	40	S BOT PAR	.385+/- 1.737	mph
15	N TOP VER	.051+/- 1.418	mph	41	N GND PER	3.352+/- 2.136	mph
16	N NOX/TECO	.159+/- .048	ppm	42	S BOT VER	.374+/- .751	mph
17	N BOT PER	6.658+/- 3.080	mph	43	N GND PAR	-1.338+/- 1.996	mph
19	N BOT PAR	-.244+/- 1.939	mph	45	N GND VER	-.143+/- .867	mph
20	N NO2/TECO	.025+/- .005	ppm	49	N EcoLyzer-1	1.037+/- .221	ppm
21	N BOT VER	.117+/- 1.155	mph	50	S TOP PER	4.876+/- 2.278	mph
22	N NO/TECO	.134+/- .045	ppm	51	N EcoLyzer-2	1.229+/- .266	ppm

23	N HA 102'	9.450+/-	2.626	mph	52	S TDP PAR	.833+/-	1.779	mph
24	N THC/Byron	2.263+/-	.218	ppm	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	179.767+/-	14.045	DEGR AZ	54	S TDP VER	.340+/-	1.079	ppm
26	N NMHC/Byro	3.006+/-	.366	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	77.740+/-	3.201	DEGR F	56	S GND PER	1.938+/-	1.392	mph
28	N CH4/Byron	1.283+/-	.121	ppm	57	N Ecolyzer-5	1.538+/-	1.055	ppm
29	N WV 74'	171.035+/-	15.166	DEGR AZ	58	S GND PAR	-.026+/-	1.486	mph
30	N CD/Byron	1.946+/-	.388	ppm	59	N R01 Hum	67.872+/-	.357	%
31	N 74' Temp	75.343+/-	2.316	DEGR F	60	S GND VER	.225+/-	1.009	mph
32	N CD2/Byron	423.058+/-	16.417	ppm	61	N Solar Rad	179.464+/-	38.961	W/m**2
35	N HA 74'	9.401+/-	3.395	mph	64	S VA 55'	.615+/-	1.453	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.01+/-	3.14	185.1+/-	15.5	2.6+/- 12.2
02	17 19 21	7.04+/-	3.06	178.0+/-	17.0	3.7+/- 13.5
03	38 40 42	4.41+/-	1.90	186.0+/-	21.4	6.3+/- 10.6
04	41 43 45	4.26+/-	2.06	155.2+/-	28.8	3.6+/- 15.5
05	50 52 54	5.38+/-	2.27	189.4+/-	19.6	6.5+/- 14.1
06	56 58 60	2.62+/-	1.45	182.6+/-	37.1	9.1+/- 25.2

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 8133 vehicles averaging 60.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	203	57.9	264	55.2	374	57.5	173	59.0	63	51.5
Cat2	377	59.6	605	57.4	538	59.3	484	59.6	332	51.3
Cat3	51	61.0	109	61.1	80	58.2	51	59.9	24	51.9
Cat4	50	64.0	59	60.4	34	57.9	26	58.6	13	48.8
Cat5	13	67.2	29	64.4	3	60.8	8	60.6	1	44.6

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	93	66.3	191	60.2	216	61.5	186	60.2	98	47.0
Cat2	798	67.9	650	61.9	522	62.6	484	61.0	151	48.3
Cat3	87	68.2	137	62.6	122	62.3	53	59.7	4	42.6
Cat4	80	69.4	84	63.7	95	62.8	20	60.9	1	41.5
Cat5	19	68.1	31	64.6	43	63.8	3	57.4	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
58.1	1851	22.8	60.5	4952	60.9	61.5	718	8.8	62.8	462	5.7	64.4	150	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	8.088+/-	3.123	37	N VA 102'	.290+/-	1.744	mph
12	N Dasibi CD	1.279+/-	.337	38	S BDT PER	4.475+/-	2.155	mph
13	N TDP PAR	.601+/-	2.400	39	N VA 74'	-.048+/-	1.611	mph
14	N Dasibi Q3	.021+/-	.003	40	S BDT PAR	.116+/-	1.919	mph
15	N TOP VER	.220+/-	1.534	41	N GND PER	3.282+/-	2.025	mph
16	N NDX/TECD	.146+/-	.043	42	S BDT VER	.457+/-	1.032	mph
17	N BDT PER	6.952+/-	2.954	43	N GND PAR	-1.353+/-	2.370	mph
19	N BDT PAR	-.284+/-	2.325	45	N GND VER	.166+/-	1.055	mph
20	N ND2/TECD	.024+/-	.005	49	N Ecolyzer-1	.968+/-	.228	ppm
21	N BDT VER	.236+/-	1.442	50	S TDP PER	5.592+/-	2.549	mph
22	N ND/TECD	.122+/-	.041	51	N Ecolyzer-2	.955+/-	.404	ppm
23	N HA 102'	10.582+/-	2.696	52	S TDP PAR	.573+/-	2.213	ppm
24	N THC/Byron	2.058+/-	.191	53	N Ecolyzer-3	*****+/-*****		ppm
25	N WV 102'	179.509+/-	13.680	54	S TDP VER	.448+/-	1.331	ppm
26	N NMHC/Byro	2.823+/-	.284	55	N Ecolyzer-4	1.428+/-	.440	ppm
27	N Gnd Temp	76.137+/-	2.587	56	S GND PER	2.467+/-	1.658	ppm
28	N CH4/Byron	1.297+/-	.097	57	N Ecolyzer-5	1.875+/-	1.848	ppm
29	N WV 74'	169.989+/-	15.862	58	S GND PAR	-.268+/-	1.698	mph
30	N CD/Byron	.948+/-	.729	59	N R01 Hum	66.958+/-	1.583	%
31	N 74' Temp	75.388+/-	2.755	60	S GND VER	.291+/-	.886	mph
32	N CD2/Byron	435.434+/-	123.165	61	N Solar Rad	200.762+/-	91.537	W/m**2
35	N HA 74'	10.144+/-	3.386	64	S VA 55'	.773+/-	1.617	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.62+/-	3.07	184.6+/-	17.4	3.3+/- 12.0
02	17 19 21	7.49+/-	2.93	177.5+/-	19.1	4.1+/- 14.1
03	38 40 42	4.97+/-	2.23	182.8+/-	20.7	7.9+/- 14.7
04	41 43 45	4.40+/-	2.02	156.0+/-	32.9	3.9+/- 16.8
05	50 52 54	6.20+/-	2.54	186.9+/-	20.9	7.2+/- 15.4
06	56 58 60	3.12+/-	1.72	178.0+/-	33.2	8.9+/- 22.3



13:00:42 -- IN ABOVE READING OF SPAN DRIFT THE VALUES DROPPED RAPIDLY AT THE END OF READING  
 13:00:43 -- GRD  
 13:09:28 -- END CALIBRATION OF NCO-3 CH 53  
 13:09:52 -- BEGIN CALIBRATION OF NCO-2 CH 51  
 13:18:53 -- BEGIN CALIBRATION OF NCO-1 CH 49  
 13:19:03 -- END CALIBRATION OF NCO-2 CH 51  
 13:28:09 -- END ALL ECOLYZER RECALIBRATION.

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 2053 vehicles averaging 60.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	57.7	59	55.2	74	58.5	30	57.7	24	51.5
Cat2	71	59.8	148	57.5	150	58.8	132	59.1	75	51.3
Cat3	20	60.7	37	58.8	23	58.2	11	57.0	4	50.5
Cat4	9	65.4	17	60.8	10	60.7	10	59.2	2	55.2
Cat5	4	65.5	8	63.9	2	62.6	2	60.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	33	66.1	62	60.6	84	61.4	52	60.1	28	48.3
Cat2	186	67.8	174	62.0	150	62.6	118	62.0	57	47.7
Cat3	19	68.7	22	62.1	32	61.9	11	62.8	0	.0
Cat4	14	68.2	19	62.3	15	65.4	3	54.8	0	.0
Cat5	6	67.8	6	62.8	1	62.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	475	23.1	60.3	1271	61.9	60.9	179	8.7	62.9	99	4.8	64.3	29	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.550+/-	2.024	37	N VA 102'	.070+/-	1.505
12	N Desibi CD	1.412+/-	.330	38	S BOT PER	3.549+/-	1.873
13	N TOP PAR	.248+/-	1.723	39	N VA 74'	-.224+/-	1.104
14	N Desibi D3	.019+/-	.003	40	S BOT PAR	-.057+/-	1.625
15	N TOP VER	.007+/-	.000	41	N GND PER	2.488+/-	1.555
16	N NOX/TECO	.159+/-	.042	42	S BOT VER	.248+/-	.590
17	N BOT PER	5.076+/-	2.184	43	N GND PAR	-1.580+/-	1.897
18	N BOT PAR	-.263+/-	1.720	44	N GND VER	-.213+/-	.717
19	N NO2/TECO	-.027+/-	.006	45	N Ecolyzer-1	.859+/-	.211
20	N BOT VER	-.074+/-	.919	46	S TOP PER	4.412+/-	2.273
21	N NO/TECO	.132+/-	.038	47	N Ecolyzer-2	*****+*****	ppm
22	N HA 102'	8.333+/-	1.959	48	S TOP PAR	.233+/-	1.755
23	N THC/Byron	2.210+/-	.090	49	N Ecolyzer-3	*****+*****	ppm
24	N WV 102'	179.653+/-	12.891	50	S TOP VER	.205+/-	.830
25	N NMHC/Byro	2.882+/-	.092	51	N Ecolyzer-4	1.543+/-	.450
26	N Gnd Temp	79.225+/-	2.193	52	S GND PER	1.615+/-	1.406
27	N CH4/Byron	1.462+/-	.116	53	N Ecolyzer-5	1.628+/-	1.091
28	N WV 74'	168.370+/-	14.086	54	S GND PAR	-.352+/-	1.213
29	N CD/Byron	.627+/-	.523	55	N Rel Hum	66.878+/-	.969
30	N 74' Temp	76.150+/-	3.616	56	S GND VER	.309+/-	.677
31	N CD2/Byron	422.221+/-	11.837	57	N Solar Rad	228.579+/-	52.804
32	N HA 74'	8.067+/-	2.336	58	S VA 55'	.545+/-	1.122
33				59			
34				60			
35				61			
				62			
				63			
				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	6.88+/- 2.00	183.7+/- 15.2	.5+/- 9.1
02	17 19 21	5.48+/- 2.14	178.9+/- 19.9	1.9+/- 13.1
03	38 40 42	3.88+/- 2.03	181.5+/- 20.2	5.2+/- 10.5
04	41 43 45	3.55+/- 1.63	150.5+/- 32.6	5.1+/- 15.7
05	50 52 54	4.85+/- 2.26	184.6+/- 21.9	7.8+/- 17.4
06	56 58 60	2.12+/- 1.49	183.4+/- 36.5	14.8+/- 26.1

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2063 vehicles averaging 59.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.1	71	54.7	81	57.0	19	59.4	18	50.5
Cat2	100	60.2	138	57.3	128	58.4	123	58.7	85	51.0
Cat3	11	62.3	24	60.5	23	56.7	20	60.1	10	45.8
Cat4	15	61.7	26	64.3	10	58.9	8	59.3	0	.0
Cat5	7	65.2	11	63.8	2	51.3	2	59.7	2	52.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	65.7	35	59.3	73	60.3	52	60.4	25	47.4
Cat2	208	67.0	174	61.2	135	61.9	116	61.6	50	48.2
Cat3	21	67.5	38	61.8	29	63.3	16	59.7	3	45.9
Cat4	16	68.9	20	61.4	32	64.0	4	60.7	0	.0
Cat5	3	68.8	11	63.0	5	68.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	447	21.7	60.1	1257	60.9	60.5	195	9.5	63.2	121	5.9	63.3	43	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.129+/-	2.472	37	N VA 102'	.321+/-	1.594
12	N Desibi CD	1.449+/-	.391	38	S BOT PER	3.988+/-	1.907
13	N TOP PAR	-.113+/-	2.247	39	N VA 74'	-.078+/-	1.369
14	N Desibi D3	.021+/-	.004	40	S BOT PAR	-.232+/-	1.953
15	N TOP VER	.128+/-	1.253	41	N GND PER	2.876+/-	1.640
16	N NOX/TECO	.159+/-	.045	42	S BOT VER	.558+/-	.809
17	N BOT PER	5.573+/-	2.616	43	N GND PAR	-1.839+/-	2.415
18	N BOT PAR	-.817+/-	2.134	44	N GND VER	.193+/-	.931
19	N NO2/TECO	-.027+/-	.005	45	N Ecolyzer-1	*****+*****	ppm
20	N BOT VER	-.059+/-	1.172	46	S TOP PER	4.951+/-	2.569
21	N NO/TECO	.132+/-	.043	47	N Ecolyzer-2	*****+*****	ppm
22	N HA 102'	9.454+/-	2.192	48	S TOP PAR	-.147+/-	2.266
23	N THC/Byron	2.135+/-	.149	49	N Ecolyzer-3	1.342+/-	.499
24	N WV 102'	175.012+/-	15.212	50	S TOP VER	.399+/-	1.076
25	N NMHC/Byro	2.776+/-	.187	51	N Ecolyzer-4	1.316+/-	.513
26	N Gnd Temp	79.746+/-	2.571	52	S GND PER	2.033+/-	1.457
27	N CH4/Byron	1.296+/-	.098	53	N Ecolyzer-5	1.751+/-	1.192
28	N WV 74'	164.966+/-	15.750	54	S GND PAR	-.245+/-	1.758
29	N CD/Byron	.894+/-	.195	55	N Rel Hum	65.397+/-	.873
30	N 74' Temp	76.750+/-	2.636	56	S GND VER	.294+/-	.690
31				57			
				58			
				59			
				60			
				61			
				62			
				63			
				64			

UWV	Channels	UWV Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg Az	
01	11 13 15	7.61+/- 2.38	178.2+/- 19.2	2.4+/- 11.4
02	17 19 21	6.24+/- 2.40	159.1+/- 24.6	3.0+/- 14.0
03	38 40 42	4.35+/- 1.92	177.3+/- 25.5	10.1+/- 18.5
04	41 43 45	4.25+/- 1.72	152.5+/- 35.0	3.6+/- 15.8
05	50 52 54	5.56+/- 2.57	178.1+/- 24.4	8.8+/- 16.3
06	56 58 60	2.73+/- 1.58	173.8+/- 36.5	10.5+/- 22.9

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2119 vehicles averaging 60.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	56.9	60	54.9	90	57.1	44	58.3	18	49.0
Cat2	94	58.9	165	56.9	141	57.8	120	59.4	77	51.6
Cat3	12	61.3	36	59.8	21	57.3	22	58.4	6	46.7
Cat4	9	64.2	18	61.0	17	57.4	4	58.2	5	54.7
Cat5	5	62.2	3	61.4	2	70.0	2	59.9	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	65.9	51	59.2	52	61.1	42	59.5	8	49.0
Cat2	213	68.1	170	61.3	166	61.9	142	61.8	46	47.1
Cat3	21	67.9	37	60.7	24	62.1	22	61.7	1	45.2
Cat4	12	70.9	14	62.2	16	64.4	4	67.7	0	.0
Cat5	5	70.1	8	71.0	5	66.9	1	64.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	452	21.3	60.2	1334	63.0	60.5	202	9.5	62.5	100	4.7	66.9	31	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.091+/- 2.908	mph	37	N VA 102'	.281+/- 1.462	mph
12	N Dasibi CO	1.376+/- .430	ppm	38	S BDT PER	4.580+/- 2.087	mph
13	N TDP PAR	.642+/- 2.026	mph	39	N VA 74'	.121+/- 1.577	mph
14	N Dasibi O3	.020+/- .004	ppm	40	S BDT PAR	-.279+/- 2.155	mph
15	N TDP VER	.063+/- 1.408	mph	41	N GND PER	2.928+/- 1.969	mph
16	N NOX/TECO	.164+/- .052	ppm	42	S BDT VER	.544+/- .774	mph
17	N BDT PER	6.059+/- 3.002	mph	43	N GND PAR	-1.368+/- 2.409	mph
19	N BDT PAR	-.075+/- 1.944	ppm	45	N Ecolyzer	.084+/- .977	ppm
20	N NO2/TECO	.027+/- .006	ppm	49	N Ecolyzer-1	.957+/- .250	ppm
21	N BDT VER	.038+/- 1.212	mph	50	S TDP PER	5.213+/- 2.200	ppm
22	N NO/TECO	.137+/- .049	ppm	51	N Ecolyzer-2	1.302+/- .239	ppm
23	N HA 102'	9.703+/- 2.623	mph	52	S TDP PAR	.193+/- 2.162	ppm
24	N THC/Byron	2.123+/- .136	ppm	53	N Ecolyzer-3	1.406+/- .458	ppm
25	N WV 102'	180.104+/- 15.366	DEGR AZ	54	S TDP VER	.422+/- 1.006	mph
26	N NMHC/Byro	2.529+/- .152	ppm	55	N Ecolyzer-4	1.136+/- .468	ppm
27	N Gnd Temp	78.704+/- 2.300	DEGR F	56	S GND PER	2.782+/- 1.486	ppm
28	N CH4/Byron	1.303+/- .114	ppm	57	N Ecolyzer-5	1.668+/- 1.042	ppm
29	N WV 74'	169.384+/- 17.162	DEGR AZ	58	S GND PAR	-.467+/- 1.766	mph
30	N CO/Byron	.801+/- .278	ppm	59	N Rel Hum	63.508+/- .382	%
31	N 74' Temp	76.203+/- 2.282	DEGR F	60	S GND VER	2.536+/- .832	mph
32	N CD2/Byron	409.054+/- 12.486	ppm	61	N Solar Rad	109.680+/- 42.454	W/m=2
35	N HA 74'	9.196+/- 3.339	mph	64	S VA 55'	.762+/- 1.378	mph

UWV	Channels	UWV Vector Calculations		Elevation Angle (Deg)
		Vector Sum (mph)	Bearing Deg Az	
01	11 13 15	7.56+/- 2.83	185.7+/- 17.6	2.4+/- 11.8
02	17 19 21	6.52+/- 2.90	179.0+/- 20.4	3.1+/- 12.0
03	38 40 42	5.19+/- 2.22	178.7+/- 21.7	8.7+/- 13.2
04	41 43 45	4.12+/- 2.02	156.1+/- 35.3	2.2+/- 16.3
05	50 52 54	5.72+/- 2.27	182.6+/- 20.8	6.1+/- 12.7
06	56 58 60	3.39+/- 1.60	175.9+/- 31.0	7.2+/- 19.3

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2095 vehicles averaging 60.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	57.3	61	54.0	80	57.6	39	57.8	23	50.8
Cat2	98	58.4	146	57.1	152	59.2	119	59.6	75	51.2
Cat3	16	59.9	29	59.3	19	58.4	11	57.1	8	51.3
Cat4	15	62.9	21	62.8	9	59.3	8	62.9	2	48.0
Cat5	6	64.4	10	64.8	2	57.8	4	62.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	17	68.2	45	61.2	56	61.8	45	60.2	22	46.9
Cat2	208	69.0	187	62.2	169	62.5	126	61.3	56	46.9
Cat3	18	71.8	25	62.8	18	63.8	10	59.7	6	45.4
Cat4	16	71.8	28	63.8	16	63.4	3	59.0	1	47.9
Cat5	5	71.8	1	62.0	8	67.6	3	61.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	445	21.2	60.6	1336	63.8	60.7	160	7.6	63.6	119	5.7	65.3	39	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.371+/- 3.234	mph	37	N VA 102'	.461+/- 1.661	mph
12	N Dasibi CO	1.293+/- .303	ppm	38	S BDT PER	4.088+/- 2.134	mph
13	N TDP PAR	1.491+/- 2.129	mph	39	N VA 74'	-.016+/- 1.416	mph
14	N Dasibi O3	.018+/- .002	ppm	40	S BDT PAR	.655+/- 1.892	mph
15	N TDP VER	-.060+/- 1.457	mph	41	N GND PER	2.984+/- 2.272	mph
16	N NOX/TECO	.139+/- .045	ppm	42	S BDT VER	.632+/- .702	mph
17	N BDT PER	6.575+/- 3.008	mph	43	N GND PAR	-.484+/- 2.164	mph
19	N BDT PAR	.692+/- 2.013	ppm	45	N GND VER	.041+/- .840	ppm
20	N NO2/TECO	.024+/- .006	ppm	49	N Ecolyzer-1	.860+/- .212	ppm
21	N BDT VER	-.123+/- 1.298	mph	50	S TDP PER	5.453+/- 2.694	ppm
22	N NO/TECO	.115+/- .042	ppm	51	N Ecolyzer-2	1.215+/- .232	ppm
23	N HA 102'	10.072+/- 2.831	mph	52	S TDP PAR	1.463+/- 2.217	mph

24	N THC/Byron	2.038+/-	.101	ppm	53	N Ecolyzer-3	1.272+/-	.404	ppm
25	N WV 102'	186.718+/-	14.382	DEGR AZ	54	S TOP VER	.362+/-	1.021	ppm
26	N NMHC/Byro	2.859+/-	.890	ppm	55	N Ecolyzer-4	.952+/-	.367	ppm
27	N Gnd Temp	78.339+/-	2.623	DEGR F	56	S GND PER	2.037+/-	1.360	ppm
28	N CH4/Byron	1.298+/-	.123	ppm	57	N Ecolyzer-5	1.237+/-	.945	ppm
29	N WV 74'	176.536+/-	15.980	DEGR AZ	58	S GND PAR	.359+/-	1.374	ppm
30	N CD/Byron	1.397+/-	.563	ppm	59	N Rel Hum	61.879+/-	.706	mph
31	N 74' Temp	77.114+/-	2.457	DEGR F	60	S GND VER	.423+/-	.694	ppm
32	N CO2/Byron	426.641+/-	17.039	ppm	61	N Solar Rad	169.175+/-	27.595	W/m <sup>2</sup>
35	N HA 74'	9.411+/-	3.447	ppm	64	S VA 55'	.723+/-	1.499	ppm

UYW Vector Calculations									
UYW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.00+/-	3.12	192.3+/-	18.4	1.5+/-	13.6
02	17	19	21	7.08+/-	2.88	186.6+/-	19.4	.8+/-	14.4
03	38	40	42	4.61+/-	2.21	190.9+/-	21.4	11.5+/-	14.4
04	41	43	45	3.94+/-	2.03	169.7+/-	40.0	2.3+/-	19.8
05	50	52	54	6.16+/-	2.69	196.0+/-	20.6	6.8+/-	13.3
06	56	58	60	2.60+/-	1.38	190.6+/-	32.6	12.7+/-	19.2

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8334 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	206	57.5	251	54.7	325	57.5	132	56.2	84	50.5
Cat2	363	59.6	597	57.2	571	58.6	494	59.5	312	51.3
Cat3	59	60.9	126	59.5	86	57.6	64	58.5	28	48.2
Cat4	48	63.2	82	62.5	46	58.8	30	60.1	9	53.3
Cat5	22	64.4	32	63.8	8	60.4	10	61.1	2	52.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	109	66.3	193	60.1	245	61.1	191	60.0	83	47.7
Cat2	815	68.0	705	61.7	630	62.3	502	61.7	209	47.5
Cat3	79	68.9	122	61.8	103	62.7	59	61.0	10	45.5
Cat4	59	70.2	81	62.6	69	64.3	14	61.0	1	47.9
Cat5	19	69.7	26	65.4	19	66.9	4	62.4	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
57.9	1819	60.3	5198	62.4	736	63.1	439	64.8	142

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.035+/-	2.709	37	N VA 102'	.283+/-	1.580
12	N Dasibi CD	1.382+/-	.371	38	S BOT PER	4.076+/-	2.039
13	N TOP PAR	.567+/-	2.123	39	N VA 74'	-.049+/-	1.380
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	.022+/-	1.948
15	N TOP VER	.034+/-	1.291	41	N GND PER	2.819+/-	1.867
16	N NOX/TECO	.155+/-	.047	42	S BOT VER	.495+/-	.737
17	N BOT PER	5.821+/-	2.774	43	N GND PAR	-1.317+/-	2.265
19	N BOT PAR	-.146+/-	2.037	45	N GND VER	.133+/-	.673
20	N NO2/TECO	.026+/-	.006	49	N Ecolyzer-1	.928+/-	.228
21	N BOT VER	.027+/-	1.160	50	S TOP PER	5.007+/-	2.468
22	N ND/TECD	.129+/-	.044	51	N Ecolyzer-2	1.285+/-	.240
23	N HA 102'	9.392+/-	2.508	52	S TOP PAR	.435+/-	2.192
24	N THC/Byron	2.127+/-	.133	53	N Ecolyzer-3	1.365+/-	.468
25	N WV 102'	180.375+/-	15.016	54	S TOP VER	.347+/-	1.011
26	N NMHC/Byro	2.762+/-	.386	55	N Ecolyzer-4	1.237+/-	.503
27	N Gnd Temp	79.003+/-	2.426	56	S GND PER	2.117+/-	1.484
28	N CH4/Byron	1.340+/-	.131	57	N Ecolyzer-5	1.571+/-	1.088
29	N WV 74'	169.807+/-	16.261	58	S GND PAR	-.176+/-	1.576
30	N CD/Byron	.930+/-	.501	59	N Rel Hum	64.415+/-	2.046
31	N 74' Temp	76.554+/-	2.754	60	S GND VER	.318+/-	.728
32	N CO2/Byron	414.183+/-	17.362	61	N Solar Rad	177.509+/-	57.811
35	N HA 74'	8.881+/-	3.045	64	S VA 55'	.721+/-	1.377

UYW Vector Calculations									
UYW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.51+/-	2.64	185.0+/-	18.3	1.7+/-	11.6
02	17	19	21	6.33+/-	2.66	178.5+/-	21.9	2.2+/-	13.4
03	38	40	42	4.56+/-	2.15	182.1+/-	22.8	8.9+/-	14.0
04	41	43	45	3.96+/-	1.87	156.8+/-	36.5	3.3+/-	17.0
05	50	52	54	5.57+/-	2.48	185.8+/-	22.7	7.4+/-	15.1
06	56	58	60	2.71+/-	1.58	181.0+/-	34.6	11.3+/-	22.2

14:44:16 -- LIGHT DRIZZLE IS STARTING.  
 14:44:17 -- BEGINNING RECAL. OF ECOL. GRD  
 14:44:28 -- BEGIN CAL. NCD-5 GRD

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2147 vehicles averaging 60.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	57.4	82	55.8	79	57.8	42	59.8	15	51.0
Cat2	97	59.2	154	57.8	153	59.8	130	60.6	74	50.6
Cat3	16	60.8	39	61.3	24	59.2	21	59.5	3	57.7
Cat4	12	63.5	18	64.2	7	56.8	4	65.6	2	54.3
Cat5	2	65.1	8	66.2	2	61.6	1	66.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	66.8	52	60.4	66	62.7	46	60.0	17	47.6
Cat2	215	68.6	188	62.8	157	62.8	145	61.7	46	49.5
Cat3	18	67.2	37	62.8	30	63.9	10	61.3	1	57.8
Cat4	15	69.7	19	64.1	17	63.2	4	54.9	1	48.0
Cat5	4	74.0	4	69.4	7	65.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.8	462	21.5	61.1	1359	63.3	62.0	199	9.3	63.6	99	4.6	67.1	28	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.203+/-	3.464	37	N VA 102'	.481+/-	1.490
12	N Dasibi CD	1.434+/-	.350	38	S BDT PER	3.905+/-	2.237
13	N TDP PAR	1.413+/-	2.532	39	N VA 74'	.148+/-	1.625
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	.526+/-	1.914
15	N TOP VER	.314+/-	1.646	41	N GND PER	2.684+/-	2.073
16	N NOX/TECO	.157+/-	.042	42	S BDT VER	.452+/-	.588
17	N BDT PER	6.283+/-	3.233	43	N GND PAR	-.598+/-	2.329
19	N BDT PAR	.737+/-	2.490	45	N GND VER	.216+/-	1.212
20	N NO2/TECO	.024+/-	.005	49	N Ecolyzer-1	.692+/-	.240
21	N BDT VER	.189+/-	1.398	50	S TDP PER	5.213+/-	2.708
22	N NO/TECO	.133+/-	.040	51	N Ecolyzer-2	1.234+/-	.242
23	N HA 102'	9.755+/-	2.860	52	S TDP PAR	1.177+/-	2.213
24	N THC/Byron	2.208+/-	.218	53	N Ecolyzer-3	1.387+/-	.550
25	N WV 102'	185.684+/-	13.138	54	S TDP VER	.346+/-	.865
26	N NMHC/Byro	2.561+/-	.445	55	N Ecolyzer-4	1.081+/-	.495
27	N Gnd Temp	78.756+/-	2.269	56	S GND PER	1.680+/-	1.228
28	N CH4/Byron	1.303+/-	.113	57	N Ecolyzer-5	1.475+/-	.856
29	N WV 74'	178.270+/-	16.520	58	S GND PAR	.063+/-	1.291
30	N CO/Byron	1.242+/-	.282	59	N Rel Hum	60.528+/-	.481
31	N 74' Temp	77.245+/-	2.498	60	S GND VER	.293+/-	.710
32	N CO2/Byron	430.712+/-	6.637	61	N Solar Rad	191.701+/-	47.946
35	N HA 74'	9.301+/-	3.700	64	S VA 55'	.624+/-	1.180

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.95+/- 3.44	191.8+/- 19.1	5.0+/- 15.5
02	17 19 21	6.94+/- 3.22	186.6+/- 22.3	4.3+/- 15.6
03	38 40 42	4.38+/- 2.36	189.0+/- 23.9	9.7+/- 15.4
04	41 43 45	3.80+/- 2.08	173.0+/- 40.7	5.0+/- 22.5
05	50 52 54	5.81+/- 2.81	193.4+/- 21.4	6.7+/- 12.8
06	56 58 60	2.23+/- 1.27	186.9+/- 35.8	13.5+/- 23.0

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2036 vehicles averaging 60.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	57.1	67	54.9	69	57.5	30	58.5	16	51.7
Cat2	86	59.7	136	56.9	134	58.7	119	59.5	70	50.3
Cat3	10	59.4	28	58.9	24	58.8	20	59.7	4	47.5
Cat4	11	63.8	13	62.9	8	63.7	10	64.5	4	48.3
Cat5	4	65.5	11	65.0	2	67.9	1	64.9	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	66.1	52	59.6	71	61.1	44	58.8	26	47.8
Cat2	216	68.0	203	61.7	145	62.1	135	61.6	54	47.7
Cat3	16	70.4	25	62.4	38	62.2	8	62.3	0	0
Cat4	15	68.1	22	63.8	25	61.6	1	61.4	0	0
Cat5	6	69.5	11	63.4	7	61.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	463	22.2	60.4	1298	62.2	61.2	174	8.3	62.3	109	5.2	64.9	42	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	8.117+/-	3.084	37	N VA 102'	-.022+/-	1.955
12	N Dasibi CD	1.293+/-	.461	38	S BDT PER	4.160+/-	2.096
13	N TDP PAR	2.184+/-	2.755	39	N VA 74'	-.179+/-	1.761
14	N Dasibi D3	.021+/-	.003	40	S BDT PAR	1.146+/-	2.140
15	N TOP VER	-.040+/-	1.789	41	N GND PER	3.161+/-	2.179
16	N NOX/TECO	.126+/-	.042	42	S BDT VER	.478+/-	.710
17	N BDT PER	7.180+/-	2.690	43	N GND PAR	-.224+/-	2.591
19	N BDT PAR	1.040+/-	2.581	45	N GND VER	.221+/-	.901
20	N NO2/TECO	.018+/-	.005	49	N Ecolyzer-1	-.508+/-	.228
21	N BDT VER	-.082+/-	1.420	50	S TDP PER	5.618+/-	2.713
22	N NO/TECO	.106+/-	.040	51	N Ecolyzer-2	1.115+/-	.271
23	N HA 102'	12.137+/-	2.744	52	S TDP PAR	1.923+/-	2.440
24	N THC/Byron	2.042+/-	.105	53	N Ecolyzer-3	1.239+/-	.458
25	N WV 102'	189.737+/-	14.426	54	S TDP VER	.315+/-	1.006
26	N NMHC/Byro	2.377+/-	.251	55	N Ecolyzer-4	.780+/-	.468
27	N Gnd Temp	78.860+/-	2.998	56	S GND PER	2.278+/-	1.551
28	N CH4/Byron	1.262+/-	.077	57	N Ecolyzer-5	1.396+/-	1.056
29	N WV 74'	180.985+/-	17.312	58	S GND PAR	.304+/-	1.851
30	N CO/Byron	.585+/-	.320	59	N Rel Hum	58.655+/-	.927
31	N 74' Temp	77.401+/-	2.404	60	S GND VER	.359+/-	.921
32	N CO2/Byron	401.238+/-	24.468	61	N Solar Rad	207.597+/-	71.381
35	N HA 74'	11.099+/-	3.692	64	S VA 55'	.894+/-	1.764

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.06+/-	2.93	196.0+/-	19.0	1.2+/- 12.7
02	17 19 21	7.84+/-	2.66	188.9+/-	19.8	.7+/- 12.0
03	38 40 42	4.83+/-	2.23	194.8+/-	24.1	7.1+/- 11.7
04	41 43 45	4.25+/-	2.07	175.4+/-	38.6	5.6+/- 19.9
05	50 52 54	6.43+/-	2.89	197.5+/-	20.7	5.8+/- 12.8
06	56 58 60	3.01+/-	1.74	127.7+/-	34.3	10.5+/- 23.2

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2135 vehicles averaging 59.3 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	56.5	56	53.4	77	57.9	35	60.4	18	51.6
Cat2	101	59.6	161	56.3	130	58.1	124	59.5	96	49.1
Cat3	16	61.8	32	59.5	18	57.1	11	59.8	10	50.5
Cat4	9	62.1	15	61.8	14	58.0	10	56.8	1	46.7
Cat5	5	63.1	8	63.7	2	63.7	4	63.4	0	0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	65.2	35	59.3	50	58.6	42	55.4	24	44.8
Cat2	174	66.3	199	60.8	182	60.5	129	60.7	54	45.9
Cat3	27	59.1	42	62.2	45	61.2	15	59.2	3	40.9
Cat4	13	71.7	25	62.7	18	61.6	3	57.7	0	0
Cat5	4	74.8	8	63.5	8	65.0	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	419	19.6	59.3	1350	63.2	60.8	219	10.3	62.0	108	5.1	65.1	39	1.8

Regular Channels										
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units			
11	N TOP PER	5.839+/-	3.004	37	N VA 102'	4.88+/-	1.461			
12	N Dasibi CO	1.448+/-	.337	38	S BOT PER	3.469+/-	1.819			
13	N TOP PAR	2.867+/-	2.132	39	N VA 74'	.032+/-	1.420			
14	N Dasibi D3	.018+/-	.003	40	S BOT PAR	1.066+/-	1.642			
15	N TOP VER	.103+/-	1.490	41	N GND PER	2.448+/-	1.619			
16	N NOX/TECO	.163+/-	.049	42	S BOT VER	.385+/-	.580			
17	N BOT PER	4.913+/-	2.852	43	N GND PAR	4.04+/-	2.434			
18	N BOT PAR	2.177+/-	2.055	45	N GND VER	.281+/-	1.000			
20	N NO2/TECO	.023+/-	.006	49	N Ecolyzer-1	.578+/-	.210			
21	N BOT VER	.156+/-	1.230	50	S TOP PER	4.823+/-	2.449			
22	N NO/TECO	.146+/-	.048	51	N Ecolyzer-2	1.085+/-	.279			
23	N HA 102'	10.073+/-	2.978	52	S TOP PAR	2.272+/-	2.035			
24	N THC/Byron	1.933+/-	1.01	53	N Ecolyzer-3	1.483+/-	.636			
25	N WV 102'	189.482+/-	14.785	54	S TOP VER	.208+/-	.687			
26	N NMHC/Byro	1.895+/-	.255	55	N Ecolyzer-4	.956+/-	.850			
27	N Gnd Temp	79.694+/-	3.318	56	S GND PER	1.392+/-	1.279			
28	N CH4/Byron	1.409+/-	.144	57	N Ecolyzer-5	1.595+/-	1.034			
29	N WV 74'	180.021+/-	17.773	58	S GND PAR	.369+/-	.979			
30	N CO/Byron	.746+/-	.229	59	N Rel Hum	58.639+/-	.897			
31	N 74' Temp	76.750+/-	2.198	60	S GND VER	.336+/-	.702			
32	N CO2/Byron	404.169+/-	27.072	61	N Solar Rad	60.858+/-	36.311			
35	N HA 74'	8.237+/-	3.417	64	S VA 55'	.426+/-	.918			

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.09+/-	2.91	210.1+/-	18.8	4.5+/- 15.3
02	17 19 21	5.91+/-	2.60	206.6+/-	21.6	5.1+/- 15.3
03	38 40 42	3.96+/-	1.99	196.6+/-	20.2	7.6+/- 10.9
04	41 43 45	3.57+/-	1.74	187.3+/-	39.5	6.4+/- 18.9
05	50 52 54	5.68+/-	2.61	205.3+/-	20.3	4.2+/- 9.8
06	56 58 60	1.91+/-	1.27	201.8+/-	32.9	15.8+/- 24.5

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2222 vehicles averaging 59.2 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	58.1	57	54.2	100	56.6	48	58.9	18	47.9
Cat2	109	60.0	142	56.3	149	58.0	137	59.1	86	51.7
Cat3	26	59.8	47	59.7	25	56.2	10	58.2	4	52.3
Cat4	9	65.1	21	61.4	6	57.7	7	60.7	4	44.6
Cat5	8	65.7	6	63.7	2	60.1	1	57.1	0	0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	21	64.5	42	58.0	58	60.1	54	59.2	17	46.6
Cat2	208	67.2	182	61.4	170	60.5	123	60.5	80	47.3
Cat3	16	69.5	36	60.5	24	60.2	16	61.4	2	46.3
Cat4	12	66.9	30	60.5	26	61.6	2	62.6	1	45.5
Cat5	8	66.0	5	64.2	7	60.3	2	57.8	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	472	21.2	59.5	1387	62.4	60.0	206	9.3	61.1	118	5.3	63.8	39	1.8

Regular Channels										
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units			
11	N TOP PER	8.432+/-	3.185	37	N VA 102'	.313+/-	1.571			
12	N Dasibi CO	1.488+/-	.308	38	S BOT PER	4.500+/-	2.187			
13	N TOP PAR	.193+/-	2.571	39	N VA 74'	-.228+/-	1.526			
14	N Dasibi D3	.019+/-	.003	40	S BOT PAR	-.231+/-	1.763			
15	N TOP VER	-.016+/-	1.560	41	N GND PER	3.616+/-	2.007			
16	N NOX/TECO	.166+/-	.046	42	S BOT VER	-.473+/-	.583			
17	N BOT PER	7.410+/-	3.195	43	N GND PAR	-1.643+/-	2.754			
18	N BOT PAR	-.557+/-	2.535	45	N GND VER	.065+/-	.991			
20	N NO2/TECO	.021+/-	.005	49	N Ecolyzer-1	.652+/-	.211			
21	N BOT VER	.090+/-	1.424	50	S TOP PER	5.671+/-	2.410			
22	N NO/TECO	.145+/-	.045	51	N Ecolyzer-2	.998+/-	.243			
23	N HA 102'	11.416+/-	2.691	52	S TOP PAR	-.017+/-	2.469			
24	N THC/Byron	2.106+/-	.041	53	N Ecolyzer-3	1.314+/-	.523			
25	N WV 102'	173.719+/-	15.453	54	S TOP VER	.424+/-	1.015			
26	N NMHC/Byro	2.464+/-	.164	55	N Ecolyzer-4	1.042+/-	.530			
27	N Gnd Temp	78.756+/-	1.931	56	S GND PER	2.468+/-	1.558			

28	N CH4/Byron	1.298+/-	.081	ppm	57	N Ecolyzer-5	*****+/-*****	ppm	
29	N WV 74'	164.543+/-	17.141	DEGR AZ	58	S GND PAR	- .659+/-	1.351	mph
30	N CD/Byron	1.029+/-	.091	ppm	59	N Rel Hum	64.257+/-	2.120	%
31	N 74' Temp	75.213+/-	3.487	DEGR F	60	S GND VER	.318+/-	.704	mph
32	N CD2/Byron	445.042+/-	21.398	ppm	61	N Solar Rad	156.956+/-	48.508	W/m <sup>2</sup>
35	N HA 74'	10.663+/-	3.540	mph	64	S VA 55'	.841+/-	1.573	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	9.00+/- 3.05	181.7+/- 18.5	1.6+/- 12.6		
02	17 19 21	8.01+/- 3.10	174.4+/- 19.8	2.9+/- 13.0		
03	38 40 42	4.91+/- 2.14	179.4+/- 22.8	8.1+/- 10.8		
04	41 43 45	4.94+/- 1.97	156.6+/- 33.4	2.1+/- 14.6		
05	50 52 54	6.28+/- 2.41	181.7+/- 22.6	6.5+/- 11.2		
06	56 58 60	2.98+/- 1.57	171.6+/- 31.0	10.6+/- 21.3		

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8530 vehicles averaging 59.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	211	57.3	242	54.6	345	57.4	155	59.4	67	50.5
Cat2	393	59.7	593	56.8	566	58.7	510	59.7	326	50.4
Cat3	88	60.5	146	59.9	91	57.9	62	59.4	21	51.3
Cat4	41	63.6	67	62.5	35	59.0	31	58.1	11	47.9
Cat5	19	64.9	33	64.7	8	63.3	7	63.2	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	100	66.0	181	59.4	245	60.8	186	59.3	84	46.6
Cat2	814	68.0	772	61.7	654	61.4	532	61.1	234	47.5
Cat3	77	69.0	140	62.0	137	61.9	50	60.9	6	45.5
Cat4	55	69.1	96	62.5	86	62.0	10	57.9	2	46.8
Cat5	22	70.8	28	64.4	29	63.4	2	57.8	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.8	1816	21.1	60.1	5394	62.8	61.0	798	9.3	62.2	434	5.1	85.1	148	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.398+/-	3.333	37	N VA 102'	.315+/-	1.641
12	N Desib1 CD	1.416+/-	.376	38	S BDT PER	4.008+/-	2.120
13	N TDP PAR	1.690+/-	2.704	39	N VA 74'	-.056+/-	1.593
14	N Desib1 D3	.019+/-	.003	40	S BDT PAR	.627+/-	1.949
15	N TDP VER	.091+/-	1.628	41	N GND PER	2.977+/-	2.028
16	N ND1/TECD	.153+/-	.048	42	S BDT VER	-.447+/-	.618
17	N BDT PER	6.446+/-	3.108	43	N GND PAR	-.515+/-	2.634
19	N BDT PAR	.848+/-	2.608	45	N GND VER	.198+/-	1.033
20	N ND2/TECD	.021+/-	.005	49	N Ecolyzer-1	.607+/-	.233
21	N BDT VER	.088+/-	1.371	50	S TOP PER	5.332+/-	2.591
22	N ND/TECD	.131+/-	.045	51	N Ecolyzer-2	1.110+/-	.272
23	N HA 102'	10.845+/-	2.978	52	S TOP PAR	1.339+/-	2.453
24	N THC/Byron	2.072+/-	.164	53	N Ecolyzer-3	1.358+/-	.553
25	N WV 102'	187.172+/-	16.945	54	S TOP VER	.324+/-	.905
26	N NMHC/Byro	2.325+/-	.388	55	N Ecolyzer-4	.985+/-	.524
27	N Gnd Temp	79.016+/-	2.647	56	S GND PER	1.954+/-	1.475
28	N CH4/Byron	1.318+/-	.118	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	177.949+/-	19.234	58	S GND PAR	.019+/-	1.459
30	N CD/Byron	.901+/-	.351	59	N Rel Hum	60.519+/-	2.594
31	N 74' Temp	76.652+/-	2.765	60	S GND VER	.326+/-	.764
32	N CD2/Byron	420.290+/-	27.872	61	N Solar Rad	154.778+/-	76.998
35	N HA 74'	9.825+/-	3.756	64	S VA 55'	.696+/-	1.408

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.27+/- 3.19	194.9+/- 21.1	3.1+/- 14.2		
02	17 19 21	7.18+/- 3.02	189.1+/- 23.4	3.3+/- 14.1		
03	38 40 42	4.52+/- 2.21	188.9+/- 23.6	8.1+/- 12.3		
04	41 43 45	4.14+/- 2.03	172.6+/- 39.0	4.8+/- 19.2		
05	50 52 54	6.05+/- 2.70	194.5+/- 22.6	5.8+/- 11.7		
06	56 58 60	2.53+/- 1.55	186.9+/- 34.6	12.6+/- 23.1		

15:31:17 -- END CALIBRATION OF NCD-5 CH 57  
 15:34:07 -- RESTART 1  
 15:34:08 -- 12/12/84  
 15:34:09 -- THIS IS A PROGRAM RESTART. FIRST RESTART OF THE DAY.  
 15:43:24 -- BEGIN CAL NCD-4 GRD  
 15:53:15 -- END CAL NCD-4 GRD  
 15:53:25 -- BEGIN CAL NCD-3 GRD

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2295 Vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	58.7	53	54.8	110	58.6	25	60.7	16	52.1
Cat2	121	60.1	177	57.3	161	59.4	130	60.6	91	51.3
Cat3	14	61.7	43	59.4	19	59.3	16	61.7	8	47.7
Cat4	13	65.9	15	62.7	10	61.2	8	65.7	5	48.5
Cat5	8	64.5	9	66.1	2	57.3	5	57.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	65.6	48	59.2	56	60.9	43	60.2	18	46.3
Cat2	196	67.7	216	60.5	167	60.1	138	61.8	50	46.8
Cat3	19	68.5	43	59.6	40	61.2	12	63.9	4	47.6
Cat4	18	68.6	24	62.8	13	60.3	5	56.7	1	47.8
Cat5	6	69.4	7	64.8	13	63.7	2	72.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.4	466	20.3	60.0	1447	63.1	60.5	218	9.5	62.8	112	4.9	64.5	52	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.883+/-	2.845	37	N VA 102'	.273+/-	1.491
12	N Dasibi CD	1.982+/-	.482	38	S BDT PER	4.005+/-	1.778
13	N TOP PAR	-1.345+/-	1.893	39	N VA 74'	-1.112+/-	1.148
14	N Dasibi 03	.017+/-	.003	40	S BDT PAR	-9.917+/-	1.555
15	N TDP VER	.170+/-	1.027	41	N GND PER	2.771+/-	1.622
16	N NOX/TECD	.191+/-	.053	42	S BDT VER	.301+/-	.472
17	N BDT PER	5.216+/-	2.693	43	N GND PAR	-2.893+/-	1.890
19	N BDT PAR	-1.881+/-	1.881	45	N GND VER	.149+/-	.743
20	N NO2/TECD	.025+/-	.005	49	N Ecolyzer-1	.782+/-	.236
21	N BDT VER	.119+/-	.917	50	S TOP PER	4.468+/-	2.120
22	N NO/TECD	.166+/-	.051	51	N Ecolyzer-2	1.172+/-	.297
23	N HA 102'	8.031+/-	2.433	52	S TOP PAR	-9.970+/-	1.833
24	N THC/Byron	2.140+/-	.074	53	N Ecolyzer-3	1.537+/-	.675
25	N WV 102'	166.158+/-	15.139	54	S TOP VER	.204+/-	.831
26	N NMHC/Byro	2.732+/-	.287	55	N Ecolyzer-4	1.842+/-	.834
27	N Gnd Temp	78.417+/-	1.791	56	S GND PER	2.085+/-	1.367
28	N CH4/Byron	1.283+/-	.116	57	N Ecolyzer-5	*****	*****
29	N WV 74'	156.671+/-	15.639	58	S GND PAR	-.889+/-	1.079
30	N CO/Byron	.503+/-	.461	59	N Rel Hum	65.243+/-	.800
31	N 74' Temp	77.114+/-	3.353	60	S GND VER	.278+/-	.624
32	N CO2/Byron	445.683+/-	13.586	61	N Solar Rad	146.558+/-	19.563
35	N HA 74'	7.440+/-	3.132	64	S VA 55'	.407+/-	1.143

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.38+/- 2.92	188.6+/- 17.2	4.3+/- 12.5
02	17 19 21	5.87+/- 2.81	160.5+/- 18.0	2.6+/- 10.2
03	38 40 42	4.37+/- 1.92	169.5+/- 18.1	5.2+/- 8.7
04	41 43 45	4.38+/- 1.87	135.8+/- 24.1	2.5+/- 10.2
05	50 52 54	4.94+/- 2.25	169.3+/- 19.7	5.8+/- 14.1
06	56 58 60	2.59+/- 1.39	163.4+/- 30.7	10.8+/- 22.9

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2333 vehicles averaging 59.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	58.6	68	54.8	99	58.2	54	58.0	17	50.0
Cat2	108	59.8	142	56.6	134	58.7	117	60.4	103	50.8
Cat3	13	61.0	31	60.7	22	59.1	12	59.0	9	51.1
Cat4	12	64.7	22	61.0	8	58.0	6	64.8	8	47.8
Cat5	6	65.2	5	62.8	0	.0	2	61.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	65.6	45	58.0	55	59.1	43	58.6	27	47.5
Cat2	208	67.3	227	59.7	184	60.3	153	60.7	57	47.9
Cat3	17	66.2	44	60.9	36	59.3	18	59.9	2	46.6
Cat4	14	69.4	27	61.2	40	60.7	6	60.0	0	.0
Cat5	6	71.1	9	65.2	11	65.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	514	22.0	59.5	1433	61.4	60.1	204	8.7	60.9	143	6.1	65.7	39	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.953+/-	2.299	37	N VA 102'	.738+/-	1.582
12	N Dasibi CD	1.849+/-	.456	38	S BDT PER	4.277+/-	1.909
13	N TOP PAR	-.976+/-	2.317	39	N VA 74'	-.297+/-	1.502
14	N Dasibi 03	-.018+/-	.002	40	S BDT PAR	-1.211+/-	1.855
15	N TDP VER	.509+/-	1.275	41	N GND PER	2.683+/-	1.712
16	N NOX/TECD	.180+/-	.048	42	S BDT VER	.445+/-	.684
17	N BDT PER	5.067+/-	2.208	43	N GND PAR	-2.362+/-	2.290
19	N BDT PAR	-1.358+/-	2.215	45	N GND VER	.240+/-	.816
20	N NO2/TECD	.025+/-	.005	49	N Ecolyzer-1	.853+/-	.245
21	N BDT VER	.361+/-	1.134	50	S TOP PER	5.327+/-	2.266
22	N NO/TECD	.155+/-	.047	51	N Ecolyzer-2	1.226+/-	.280
23	N HA 102'	8.888+/-	2.751	52	S TOP PAR	-1.223+/-	1.993
24	N THC/Byron	1.983+/-	.069	53	N Ecolyzer-3	1.491+/-	.567
25	N WV 102'	165.718+/-	16.759	54	S TOP VER	.296+/-	1.001
26	N NMHC/Byro	2.747+/-	.245	55	N Ecolyzer-4	1.799+/-	.580
27	N Gnd Temp	78.547+/-	2.371	56	S GND PER	2.180+/-	1.419
28	N CH4/Byron	1.239+/-	.066	57	N Ecolyzer-5	*****	*****
29	N WV 74'	157.249+/-	16.669	58	S GND PAR	-.866+/-	1.259
30	N CO/Byron	.946+/-	.103	59	N Rel Hum	67.709+/-	.572
31	N 74' Temp	76.567+/-	2.853	60	S GND VER	.290+/-	.627

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	6.60+/- 2.30	171.6+/- 20.8	5.8+/- 13.2
02	17 19 21	5.79+/- 2.25	165.9+/- 22.3	5.5+/- 14.7
03	38 40 42	4.87+/- 1.98	166.1+/- 20.9	7.4+/- 11.9
04	41 43 45	4.28+/- 1.78	140.6+/- 31.5	3.8+/- 12.4
05	50 52 54	5.90+/- 2.30	169.2+/- 19.9	5.2+/- 12.6
06	56 58 60	2.80+/- 1.31	161.4+/- 32.5	9.1+/- 19.9

Average for 15 minute period ending at 15:45:00  
Traffic Data  
 Total Traffic = 1972 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	57.5	68	55.1	75	58.3	38	57.9	20	51.5
Cat2	95	60.8	119	57.7	131	58.5	105	59.9	85	50.8
Cat3	11	61.6	28	62.0	15	59.4	12	58.6	7	46.9
Cat4	8	63.4	10	59.8	6	58.0	4	61.8	1	57.1
Cat5	3	70.0	4	65.8	0	0	1	54.5	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	18	64.8	19	58.3	44	59.7	38	58.8	24	45.1
Cat2	203	67.3	181	60.8	162	60.0	138	59.8	51	48.7
Cat3	20	68.0	35	59.7	34	60.3	13	61.2	0	0
Cat4	17	70.3	24	62.2	24	63.5	6	60.6	0	0
Cat5	3	68.1	7	64.1	15	60.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	384	19.5	59.7	1280	64.9	60.6	175	8.9	63.3	100	5.1	63.3	33	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	8.746+/-	3.653	mph	37	N VA 102'	1.027+/-	2.425	mph
12	N Dasibi CD	1.805+/-	.489	ppm	38	S BDT PER	4.831+/-	2.312	mph
13	N TOP PAR	-5.09+/-	2.879	mph	39	N VA 74'	-4.14+/-	2.007	mph
14	N Dasibi D3	.016+/-	.003	ppm	40	S BDT PAR	-1.226+/-	2.271	mph
15	N TOP VER	.386+/-	1.732	mph	41	N GND PER	3.394+/-	2.269	mph
16	N NOX/TECO	.159+/-	.051	ppm	42	S BDT VER	-.361+/-	.865	mph
17	N BDT PER	7.145+/-	3.288	mph	43	N GND PAR	-2.127+/-	2.712	mph
19	N BDT PAR	-1.330+/-	2.530	ppm	45	N GND VER	-.113+/-	.946	ppm
20	N NO2/TECO	-.022+/-	.005	ppm	49	N Ecolyzer-1	-.854+/-	.260	ppm
21	N BDT VER	.273+/-	1.674	mph	50	S TOP PER	6.315+/-	2.713	mph
22	N NO/TECO	.136+/-	.050	ppm	51	N Ecolyzer-2	1.350+/-	.290	ppm
23	N HA 102'	11.742+/-	3.021	mph	52	S TOP PAR	-1.094+/-	2.331	mph
24	N THC/Byron	2.113+/-	.174	ppm	53	N Ecolyzer-3	1.565+/-	.572	ppm
25	N WV 102'	167.326+/-	15.267	DEGR AZ	54	S TOP VER	-.267+/-	1.229	ppm
26	N NMHC/Byro	2.589+/-	.223	ppm	55	N Ecolyzer-4	*****	*****	ppm
27	N Gnd Temp	76.333+/-	2.200	DEGR F	56	S GND PER	2.832+/-	1.460	ppm
28	N CH4/Byron	1.295+/-	.071	ppm	57	N Ecolyzer-5	*****	*****	ppm
29	N WV 74'	162.229+/-	18.138	DEGR AZ	58	S GND PAR	-1.155+/-	1.548	mph
30	N CD/Byron	.603+/-	.261	ppm	59	N Rel Hum	68.637+/-	.257	%
31	N 74' Temp	74.998+/-	3.300	DEGR F	60	S GND VER	-.279+/-	.767	mph
32	N C02/Byron	429.490+/-	24.423	ppm	61	N Solar Rad	60.120+/-	8.696	W/m**2
35	N HA 74'	11.118+/-	3.561	mph	64	S VA 55'	.715+/-	1.744	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	9.48+/- 3.51	176.2+/- 18.9	4.2+/- 12.2
02	17 19 21	7.99+/- 3.09	167.6+/- 21.8	4.1+/- 13.4
03	38 40 42	5.54+/- 2.40	170.6+/- 23.7	6.2+/- 13.0
04	41 43 45	4.99+/- 2.18	150.0+/- 34.6	1.4+/- 13.0
05	50 52 54	6.96+/- 2.71	172.2+/- 20.2	4.7+/- 12.4
06	56 58 60	3.52+/- 1.48	161.5+/- 28.7	7.8+/- 17.5

Average for 15 minute period ending at 16:00:00  
Traffic Data  
 Total Traffic = 2572 vehicles averaging 57.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	58.2	77	54.6	80	56.4	42	59.0	33	50.9
Cat2	113	59.7	145	56.3	132	57.8	130	59.1	92	50.2
Cat3	19	60.0	44	60.0	22	57.7	7	58.5	12	49.9
Cat4	8	63.9	13	63.1	9	55.7	4	59.7	4	49.3
Cat5	6	69.5	9	64.9	2	59.7	1	65.3	1	83.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	22	62.9	40	57.0	48	56.8	58	55.8	40	44.2
Cat2	220	65.3	262	57.8	243	58.5	181	58.1	105	45.6
Cat3	28	65.9	57	59.1	57	57.7	19	57.8	7	51.6
Cat4	17	67.6	36	59.0	31	60.2	7	64.2	2	45.4
Cat5	7	69.7	20	60.0	17	58.2	3	96.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	500	19.4	57.5	1603	62.3	58.9	272	10.6	60.7	131	5.1	64.4	66	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units		
11	N TOP PER	8.135+/-	3.192	mph	37	N VA 102'	.394+/-	1.866	mph
12	N Dasibi CD	1.834+/-	.352	ppm	38	S BDT PER	5.181+/-	2.138	mph
13	N TOP PAR	-1.248+/-	2.184	mph	39	N VA 74'	-.002+/-	1.691	mph
14	N Dasibi D3	.017+/-	.003	ppm	40	S BDT PAR	-.819+/-	2.164	mph
15	N TOP VER	.307+/-	1.526	mph	41	N GND PER	3.834+/-	2.116	mph
16	N NOX/TECO	.171+/-	.051	ppm	42	S BDT VER	-.303+/-	.641	mph
17	N BDT PER	6.906+/-	3.161	mph	43	N GND PAR	-1.952+/-	2.270	mph
19	N BDT PAR	-1.884+/-	2.068	ppm	45	N GND VER	-.072+/-	.812	ppm
20	N NO2/TECO	-.023+/-	.005	ppm	49	N Ecolyzer-1	-.897+/-	.258	ppm
21	N BDT VER	.389+/-	1.376	mph	50	S TOP PER	6.581+/-	2.619	mph
22	N NO/TECO	.148+/-	.051	ppm	51	N Ecolyzer-2	1.375+/-	.274	ppm
23	N HA 102'	11.336+/-	2.923	mph	52	S TOP PAR	-1.034+/-	2.346	mph



24	N THC/Byron	2.301+/-	.204	ppm	53	N Ecolyzer-3	*****+/-*****	ppm	
25	N WV 102'	169.828+/-	13.547	DEGR AZ	54	S TOP VER	.245+/-	.953	mph
26	N NMHC/Byro	2.846+/-	.190	ppm	55	N Ecolyzer-4	*****+/-*****	ppm	
27	N Gnd Temp	76.932+/-	2.741	DEGR F	56	S GND PER	2.948+/-	1.454	mph
28	N CH4/Byron	1.244+/-	.060	ppm	57	N Ecolyzer-5	2.653+/-	1.276	ppm
29	N WV 74'	160.158+/-	15.100	DEGR AZ	58	S GND PAR	-1.111+/-	1.497	mph
30	N CD/Byron	.966+/-	.961	ppm	59	N Re1 Hum	69.744+/-	1.064	%
31	N 74' Temp	75.369+/-	2.795	DEGR F	60	S GND VER	.255+/-	.679	mph
32	N CD2/Byron	417.196+/-	22.334	ppm	61	N Solar Rad	48.959+/-	10.153	W/m**2
35	N HA 74'	10.119+/-	3.531	mph	64	S VA 55'	.639+/-	1.269	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	8.67+/-	3.12	170.3+/-	15.5	4.1+/-	11.9
02	17	19	21	7.63+/-	3.06	163.8+/-	17.4	5.1+/-	12.8
03	38	40	42	5.66+/-	2.35	171.7+/-	19.1	4.4+/-	8.4
04	41	43	45	4.76+/-	2.16	151.4+/-	27.6	1.5+/-	12.5
05	50	52	54	7.12+/-	2.64	171.5+/-	19.2	3.6+/-	9.2
06	56	58	60	3.51+/-	1.57	164.7+/-	25.3	7.3+/-	18.1

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic : 9172 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	233	58.3	266	54.8	304	57.9	169	58.8	66	51.1
Cat 2	437	60.0	583	57.0	558	58.6	482	60.0	371	50.8
Cat 3	57	60.2	146	60.4	78	58.8	47	59.2	38	49.1
Cat 4	41	64.7	60	61.7	33	58.3	22	60.9	18	48.8
Cat 5	23	66.7	27	65.1	4	58.5	9	58.8	1	83.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	95	64.9	152	58.1	204	59.2	162	58.1	109	45.6
Cat 2	827	66.8	886	59.6	756	59.0	590	60.0	273	47.0
Cat 3	84	67.0	179	59.8	167	59.4	62	60.3	13	49.6
Cat 4	65	69.0	111	61.1	108	61.1	24	60.7	3	46.2
Cat 5	22	69.8	43	62.5	56	61.8	5	86.8	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
57.1	1864	20.3	59.1	5762	62.8	59.9	869	9.5	61.8	486	5.3	64.5	190	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	7.113+/-	3.258	37	N VA 102'	.590+/-	1.888	mph
12	N Desibi CD	1.865+/-	.450	38	S BOT PER	4.563+/-	2.081	mph
13	N TDP PAR	-1.041+/-	2.332	39	N VA 74'	1.138+/-	1.608	mph
14	N Desibi G3	.016+/-	.003	40	S BOT PAR	-1.062+/-	1.975	mph
15	N TDP VER	.341+/-	1.403	41	N GND PER	3.104+/-	1.974	mph
16	N NOX/TECO	.176+/-	.052	42	S BOT VER	.352+/-	.672	mph
17	N BOT PER	6.039+/-	2.996	43	N GND PAR	-2.342+/-	2.313	mph
18	N BOT PAR	-1.625+/-	2.182	44	N GND VER	.145+/-	.828	mph
19	N ND2/TECO	.024+/-	.005	45	N Ecolyzer-1	.851+/-	.253	ppm
20	N BOT VER	.286+/-	1.290	46	S TDP PER	5.646+/-	2.567	mph
21	N ND/TECO	.152+/-	.050	47	N Ecolyzer-2	1.278+/-	.287	ppm
22	N HA 102'	9.926+/-	3.187	48	S TDP PAR	-1.080+/-	2.126	mph
23	N THC/Byron	2.135+/-	.181	49	N Ecolyzer-3	1.510+/-	.612	ppm
24	N WV 102'	167.263+/-	15.270	50	S TDP VER	.253+/-	1.002	mph
25	N NMHC/Byro	2.736+/-	.250	51	N Ecolyzer-4	1.801+/-	.661	ppm
26	N Gnd Temp	77.622+/-	2.433	52	S GND PER	2.498+/-	1.472	mph
27	N CH4/Byron	1.264+/-	.083	53	N Ecolyzer-5	*****+/-*****	ppm	
28	N WV 74'	158.937+/-	16.453	54	S GND PAR	-.999+/-	1.353	mph
29	N CD/Byron	.762+/-	.586	55	N Re1 Hum	68.054+/-	1.512	%
30	N 74' Temp	76.065+/-	3.077	56	S GND VER	.275+/-	.672	mph
31	N CD2/Byron	431.397+/-	20.632	57	N Solar Rad	81.056+/-	43.854	W/m**2
32	N HA 74'	9.127+/-	3.577	58	S VA 55'	.636+/-	1.413	mph
35				59				
				60				
				61				
				64				

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.71+/-	3.24	171.5+/-	18.3	4.6+/-	12.5
02	17	19	21	6.77+/-	2.87	164.3+/-	20.0	4.3+/-	12.9
03	38	40	42	5.09+/-	2.22	169.4+/-	20.5	5.8+/-	10.6
04	41	43	45	4.59+/-	2.01	144.0+/-	30.1	2.4+/-	12.1
05	50	52	54	6.20+/-	2.62	170.5+/-	19.8	4.8+/-	12.2
06	56	58	60	3.09+/-	1.50	162.8+/-	28.5	8.8+/-	19.8

16:00:42 -- END CAL. NCO-3 GRD  
 16:15:42 -- BEGIN CAL. NCO-1  
 16:25:30 -- END CAL. NCO-1  
 16:29:54 -- TRYING PROGRAM RESTART.  
 16:32:11 -- RESTART 2  
 16:32:12 -- 12/12/84  
 16:32:12 -- THIS IS THE SECOND RESTART OF THE DAY.  
 16:33:26 -- WILL RECALIBRATE RADARS TONIGHT. IT APPEARS THAT SOME ARE HIGH. (ESP RADAR#2)

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2585 vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	58.5	75	55.0	97	57.4	56	59.3	17	51.4
Cat2	115	60.9	182	58.6	182	58.8	128	58.5	109	50.6
Cat3	14	63.6	27	61.4	34	57.7	18	57.2	0	49.0
Cat4	14	63.5	27	64.5	11	57.5	8	57.4	1	52.6
Cat5	8	58.4	7	64.9	2	60.9	2	61.8	1	40.6

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	29	65.3	47	57.3	52	57.7	47	57.7	29	46.6
Cat2	214	67.0	255	59.0	221	57.8	181	58.9	78	45.8
Cat3	22	68.8	38	61.1	46	59.5	15	57.7	2	40.7
Cat4	19	68.7	41	60.2	34	60.1	12	60.3	0	0
Cat5	1	69.0	16	66.0	18	63.2	3	62.4	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	516	20.0	58.5	1625	62.9	60.2	219	8.5	61.8	167	6.5	65.5	58	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.548+/-	3.903	37	N VA 102'	.246+/-	1.986
12	N Dasibi CD	1.794+/-	.518	38	S BOT PER	5.351+/-	3.021
13	N TOP PAR	-1.679+/-	2.648	39	N VA 74'	-.409+/-	1.762
14	N Dasibi D3	.018+/-	.004	40	S BOT PAR	-1.365+/-	2.275
15	N TOP VER	-.104+/-	1.452	41	N GND PER	3.798+/-	2.189
16	N NDX/TECD	-.164+/-	.051	42	S BOT VER	-.292+/-	.751
17	N BOT PER	7.337+/-	3.908	43	N GND PAR	-2.954+/-	2.761
18	N BOT PAR	-2.404+/-	2.759	45	N GND VER	-.258+/-	.985
20	N ND2/TECD	-.023+/-	.006	48	N Ecolyzer-1	-.982+/-	.523
21	N BOT VER	-.121+/-	1.324	50	S TOP PER	6.457+/-	3.170
22	N ND/TECD	-.141+/-	.048	51	N Ecolyzer-2	*****	*****
23	N HA 102'	10.861+/-	4.012	52	S TOP PAR	-1.388+/-	2.457
24	N THC/Byron	2.086+/-	.338	53	N Ecolyzer-3	1.288+/-	.548
25	N WV 102'	166.869+/-	15.368	54	S TOP VER	-.204+/-	1.023
26	N MMHC/Byro	2.739+/-	.412	55	N Ecolyzer-4	1.837+/-	.588
27	N Gnd Temp	75.108+/-	2.249	56	S GND PER	3.134+/-	2.168
28	N CH4/Byron	1.420+/-	.177	57	N Ecolyzer-5	2.802+/-	1.217
29	N WV 74'	158.384+/-	15.113	58	S GND PAR	-1.177+/-	1.574
30	N CD/Byron	1.591+/-	.682	59	N Rel Hum	73.213+/-	.689
31	N 74' Temp	73.701+/-	3.528	60	S GND VER	-.234+/-	.726
32	N CO2/Byron	411.487+/-	20.138	61	N Solar Rad	39.921+/-	5.646
35	N HA 74'	10.400+/-	4.410	64	S VA 55'	.585+/-	1.530

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.16+/- 4.04	169.8+/- 16.2	.6+/- 9.6
02	17 19 21	8.21+/- 4.10	163.2+/- 19.1	2.6+/- 12.0
03	38 40 42	5.87+/- 3.31	169.4+/- 21.8	5.0+/- 10.8
04	41 43 45	5.49+/- 2.53	144.7+/- 27.1	2.8+/- 12.9
05	50 52 54	7.04+/- 3.35	171.6+/- 19.9	4.4+/- 11.9
06	56 58 60	3.74+/- 2.22	163.5+/- 30.0	8.8+/- 20.3

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2636 vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	56.8	84	53.3	108	56.7	54	57.7	43	49.6
Cat2	132	59.0	186	56.2	168	57.6	124	57.3	112	49.8
Cat3	16	62.1	33	60.1	26	56.3	13	57.5	11	50.7
Cat4	25	64.4	23	61.9	16	57.2	10	60.0	3	54.3
Cat5	12	64.3	13	61.9	5	59.5	4	56.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	65.6	63	58.4	70	56.9	57	56.9	33	46.4
Cat2	182	67.7	215	59.6	221	58.9	192	58.6	76	47.1
Cat3	18	66.5	40	60.4	40	60.0	18	57.5	1	46.9
Cat4	15	67.6	25	62.1	26	61.8	8	59.5	0	0
Cat5	0	0	8	63.5	11	63.2	3	54.9	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	605	23.0	58.2	1608	61.0	59.4	216	8.2	62.0	151	5.7	61.9	58	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.118+/-	3.191	37	N VA 102'	.369+/-	2.335
12	N Dasibi CD	1.711+/-	.446	38	S BOT PER	6.073+/-	2.746
13	N TOP PAR	-2.916+/-	2.867	39	N VA 74'	-.116+/-	2.118
14	N Dasibi D3	.017+/-	.004	40	S BOT PAR	-1.699+/-	2.351
15	N TOP VER	.316+/-	1.709	41	N GND PER	3.823+/-	2.190
16	N NDX/TECD	.171+/-	.047	42	S BOT VER	-.315+/-	.981
17	N BOT PER	7.627+/-	3.146	43	N GND PAR	-3.910+/-	2.647
18	N BOT PAR	-3.428+/-	2.678	45	N GND VER	-.207+/-	.919
20	N ND2/TECD	-.023+/-	.006	49	N Ecolyzer-1	*****	*****
21	N BOT VER	-.294+/-	1.552	50	S TOP PER	7.646+/-	2.996
22	N ND/TECD	-.147+/-	.044	51	N Ecolyzer-2	1.556+/-	.232
23	N HA 102'	12.506+/-	2.941	52	S TOP PAR	-2.113+/-	2.405
24	N THC/Byron	2.146+/-	.153	53	N Ecolyzer-3	1.408+/-	.470
25	N WV 102'	162.746+/-	15.845	54	S TOP VER	-.288+/-	1.234
26	N MMHC/Byro	2.816+/-	.429	55	N Ecolyzer-4	1.894+/-	.614
27	N Gnd Temp	76.072+/-	2.428	56	S GND PER	3.707+/-	1.755
28	N CH4/Byron	1.274+/-	.086	57	N Ecolyzer-5	2.804+/-	.935
29	N WV 74'	154.138+/-	15.321	58	S GND PAR	-1.654+/-	1.669
30	N CD/Byron	1.794+/-	1.385	59	N Rel Hum	73.208+/-	.325

31	N 74' Temp	73.672+/-	1.950	DEGR F	60	S GND VER	.192+/-	.781	mph
32	N CO2/Byron	410.008+/-	26.357	ppm	61	N Solar Rad	33.527+/-	7.206	W/m <sup>2</sup>
35	N HA 74'	11.310+/-	3.462	mpn	64	S VA 55'	.898+/-	1.613	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	10.09+/-	3.34	162.6+/-	15.9	2.7+/-	8.7
02	17	19	21	8.88+/-	3.25	156.0+/-	17.3	3.4+/-	11.1
03	38	40	42	6.78+/-	2.80	166.9+/-	20.9	4.3+/-	10.6
04	41	43	45	6.06+/-	2.42	136.0+/-	24.5	2.8+/-	10.9
05	50	52	54	8.36+/-	3.05	165.5+/-	16.6	3.1+/-	9.9
06	56	58	60	4.39+/-	1.83	158.6+/-	23.5	4.3+/-	14.7

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2236 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	57.8	68	53.8	99	55.9	37	57.6	25	50.3
Cat2	113	58.5	165	56.2	134	57.5	101	57.8	87	50.4
Cat3	14	62.1	22	60.1	26	57.5	14	57.5	7	48.3
Cat4	21	63.8	16	59.3	12	59.0	11	60.6	6	51.5
Cat5	6	66.3	9	61.4	2	57.7	2	60.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	65.1	57	57.0	54	58.1	40	58.7	36	45.0
Cat2	163	66.7	210	58.8	192	59.6	148	59.1	83	46.0
Cat3	10	69.6	36	58.9	28	59.2	13	58.9	2	40.6
Cat4	10	69.3	15	60.8	21	58.8	8	59.1	0	0
Cat5	2	72.1	7	62.7	10	63.1	1	61.8	1	45.5

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	508	22.7	58.1	1396	62.4	59.0	172	7.7	60.7	120	5.4	62.7	40	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.420+/-	2.446	37	N VA 102'	.538+/-	1.856
12	N Dasibi CD	2.372+/-	.603	38	S BOT PER	4.015+/-	1.993
13	N TOP PAR	-1.698+/-	2.377	39	N VA 74'	-.156+/-	1.494
14	N Dasibi O3	.015+/-	.003	40	S BOT PAR	-1.141+/-	1.832
15	N TOP VER	-.017+/-	1.145	41	N GND PER	3.127+/-	1.636
16	N NOX/TECO	.190+/-	.051	42	S BOT VER	.128+/-	.827
17	N BOT PER	5.792+/-	2.541	43	N GND PAR	-3.065+/-	2.431
19	N BOT PAR	-2.218+/-	2.190	45	N GND VER	.127+/-	.844
20	N NO2/TECO	.025+/-	.005	49	N Ecolyzer-1	1.073+/-	2.230
21	N BOT VER	.121+/-	1.074	50	S TOP PER	4.997+/-	2.342
22	N NO/TECO	.185+/-	.049	51	N Ecolyzer-2	1.697+/-	2.42
23	N HA 102'	10.089+/-	2.518	52	S TOP PAR	-1.441+/-	1.830
24	N THC/Byron	2.158+/-	.224	53	N Ecolyzer-3	1.654+/-	.595
25	N WV 102'	166.334+/-	14.339	54	S TOP VER	2.222+/-	1.033
26	N NMHC/Byro	2.540+/-	.154	55	N Ecolyzer-6	2.338+/-	.624
27	N Gnd Temp	75.281+/-	2.421	56	S GND PER	1.962+/-	1.371
28	N CH4/Byron	1.221+/-	.057	57	N Ecolyzer-5	3.395+/-	1.158
29	N WV 74'	157.950+/-	15.268	58	S GND PAR	-.865+/-	1.344
30	N CD/Byron	.751+/-	.123	59	N Rot Hum	74.011+/-	.418
31	N 74' Temp	74.639+/-	1.836	60	S GND VER	-.236+/-	.734
32	N CO2/Byron	417.074+/-	17.586	61	N Solar Rad	17.428+/-	5.312
35	N HA 74'	9.392+/-	3.096	64	S VA 55'	.513+/-	1.368

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	8.03+/-	2.53	167.6+/-	16.7	1.0+/-	8.6
02	17	19	21	6.66+/-	2.54	159.2+/-	20.5	2.2+/-	11.2
03	38	40	42	4.60+/-	2.07	167.7+/-	24.6	4.5+/-	15.4
04	41	43	45	5.01+/-	1.82	137.6+/-	27.3	1.6+/-	10.1
05	50	52	54	5.80+/-	2.41	167.2+/-	20.4	6.9+/-	16.4
06	56	58	60	2.59+/-	1.46	166.0+/-	32.4	11.6+/-	24.5

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2770 vehicles averaging 56.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	56.8	85	53.3	108	56.8	51	57.0	34	51.3
Cat2	155	58.4	197	55.3	170	57.0	142	58.0	117	49.8
Cat3	26	61.7	47	59.7	16	58.5	9	54.4	9	49.1
Cat4	24	63.8	13	59.8	6	57.1	3	61.5	8	48.1
Cat5	4	62.3	8	63.5	2	58.9	2	62.1	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	63.7	52	55.9	54	56.9	60	55.2	51	48.0
Cat2	195	65.5	287	57.3	209	56.2	184	56.8	98	45.8
Cat3	21	66.0	46	58.0	56	55.9	13	58.1	3	39.7
Cat4	11	67.1	32	60.0	33	57.9	3	54.8	0	0
Cat5	3	72.8	11	58.2	18	59.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	611	22.1	56.8	1732	62.5	58.3	246	8.9	59.8	133	4.8	61.0	48	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.661+/-	3.039	37	N VA 102'	.443+/-	1.675
12	N Dasibi CD	1.991+/-	.473	38	S BOT PER	4.507+/-	2.260
13	N TOP PAR	-1.293+/-	2.503	39	N VA 74'	-.102+/-	1.661
14	N Dasibi O3	.014+/-	.003	40	S BOT PAR	-.978+/-	1.772
15	N TOP VER	.057+/-	1.412	41	N GND PER	2.791+/-	1.862
16	N NOX/TECO	.183+/-	.057	42	S BOT VER	.293+/-	.760
17	N BOT PER	5.655+/-	2.882	43	N GND PAR	-2.510+/-	1.912
19	N BOT PAR	-1.895+/-	2.509	45	N GND VER	.183+/-	.700
20	N NO2/TECO	.023+/-	.005	49	N Ecolyzer-1	1.159+/-	.240
21	N BOT VER	.208+/-	1.175	50	S TOP PER	5.684+/-	2.605
22	N NO/TECO	.159+/-	.055	51	N Ecolyzer-2	1.726+/-	.252

23	N HA 102'	9.861+/-	2.892	mph	52	S TOP PAR	-1.251+/-	2.036	mph
24	N THC/Byron	2.470+/-	.114	ppm	53	N Ecolyzer-3	1.901+/-	.624	ppm
25	N WV 102'	185.984+/-	12.526	DEGR AZ	54	S TOP VER	.001+/-	.911	ppm
26	N NMHC/Byro	2.871+/-	.346	ppm	55	N Ecolyzer-4	2.220+/-	.728	ppm
27	N Gnd Temp	76.385+/-	2.705	DEGR F	56	S GND PER	2.515+/-	1.805	ppm
28	N CH4/Byron	1.327+/-	.051	ppm	57	N Ecolyzer-5	2.978+/-	1.160	ppm
29	N WV 74'	158.756+/-	14.686	DEGR AZ	58	S GND PAR	-1.070+/-	1.355	ppm
30	N CO/Byron	2.079+/-	.814	ppm	59	N Rel Hum	74.678+/-	.340	%
31	N 74' Temp	73.701+/-	2.701	DEGR F	60	S GND VER	.219+/-	.940	ppm
32	N CO2/Byron	425.889+/-	13.656	ppm	61	N Solar Rad	13.897+/-	2.888	W/m**2
35	N HA 74'	8.837+/-	3.600	mph	64	S VA 55'	.689+/-	1.196	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.29+/- 3.21	171.0+/- 19.1	2.7+/- 12.2		
02	17 18 21	6.48+/- 3.13	162.5+/- 21.0	4.0+/- 12.9		
03	38 40 42	4.93+/- 2.42	170.9+/- 18.7	5.8+/- 10.8		
04	41 43 45	4.32+/- 1.74	136.7+/- 28.4	3.2+/- 12.4		
05	50 52 54	6.14+/- 2.80	171.4+/- 17.8	1.5+/- 11.1		
06	56 58 60	3.19+/- 1.82	160.8+/- 30.6	8.7+/- 21.9		

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10227 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	283	57.4	312	53.8	412	56.7	198	57.9	119	50.5
Cat2	515	59.4	710	56.0	634	57.7	495	57.9	425	50.1
Cat3	70	62.2	129	60.2	102	57.4	51	56.9	33	49.4
Cat4	84	64.0	79	61.9	45	57.7	32	59.7	18	50.5
Cat5	30	65.5	37	62.7	11	59.3	10	59.6	1	40.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	112	65.1	218	57.2	230	58.0	204	56.9	151	45.3
Cat2	754	66.7	947	58.6	843	58.1	705	58.3	333	46.1
Cat3	71	67.5	160	59.5	170	58.4	59	58.0	8	41.1
Cat4	55	68.2	113	60.7	114	59.6	31	59.3	0	.0
Cat5	6	71.9	42	62.9	57	62.0	7	67.7	1	45.5

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%			
56.0	2240	21.9	57.9	6361	62.2	59.2	853	8.3	61.2	571	5.6	62.9	202	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.950+/- 3.348	mph	37	N VA 102'	.394+/- 1.978	mph
12	N Dasibi CO	1.951+/- .566	ppm	38	S BDT VER	5.018+/- 2.665	ppm
13	N TOP PAR	-1.898+/- 2.679	ppm	39	N VA 74'	-.197+/- 1.783	ppm
14	N Dasibi O3	.016+/- .003	ppm	40	S BOT PAR	-1.289+/- 2.094	ppm
15	N TOP VER	.084+/- 1.458	ppm	41	N GND PER	3.392+/- 2.040	ppm
16	N NOX/TECO	.176+/- .053	ppm	42	S BDT VER	.262+/- .836	ppm
17	N BDT PER	6.629+/- 3.297	ppm	43	N GND PAR	-3.107+/- 2.507	ppm
18	N BDT PAR	-2.491+/- 2.815	ppm	45	N GND VER	.196+/- .869	ppm
20	N NO2/TECO	.023+/- .005	ppm	49	N Ecolyzer-1	1.079+/- .362	ppm
21	N BDT VER	.188+/- 1.299	ppm	50	S TOP PER	6.235+/- 2.969	ppm
22	N NO/TECO	.153+/- .050	ppm	51	N Ecolyzer-2	*****	ppm
23	N HA 102'	10.851+/- 3.324	mph	52	S TOP PAR	-1.549+/- 2.241	ppm
24	N THC/Byron	2.221+/- 2.668	ppm	53	N Ecolyzer-3	1.562+/- .610	ppm
25	N WV 102'	165.470+/- 14.632	DEGR AZ	54	S TOP VER	.176+/- 1.060	ppm
26	N NMHC/Byro	2.751+/- .369	ppm	55	N Ecolyzer-4	2.060+/- .674	ppm
27	N Gnd Temp	75.730+/- 2.451	DEGR F	56	S GND PER	2.858+/- 1.919	ppm
28	N CH4/Byron	1.316+/- .128	ppm	57	N Ecolyzer-5	2.975+/- 1.144	ppm
29	N WV 74'	157.305+/- 15.166	DEGR AZ	58	S GND PAR	-1.202+/- 1.520	ppm
30	N CO/Byron	1.592+/- .990	ppm	59	N Rel Hum	73.775+/- .781	%
31	N 74' Temp	73.895+/- 2.599	DEGR F	60	S GND VER	.220+/- .801	ppm
32	N CO2/Byron	416.201+/- 20.467	ppm	61	N Solar Rad	26.532+/- 12.293	W/m**2
35	N HA 74'	10.000+/- 3.810	mph	64	S VA 55'	.624+/- 1.444	ppm

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.66+/- 3.51	167.8+/- 17.3	1.8+/- 10.2		
02	17 18 21	7.58+/- 3.47	160.3+/- 19.7	3.1+/- 11.8		
03	38 40 42	5.57+/- 2.84	158.8+/- 21.5	4.9+/- 11.9		
04	41 43 45	5.22+/- 2.26	138.8+/- 27.0	2.7+/- 11.7		
05	50 52 54	6.82+/- 3.11	169.0+/- 18.8	3.9+/- 12.5		
06	56 58 60	3.51+/- 2.00	162.0+/- 29.3	8.2+/- 20.6		

17:34:23 -- BEGIN RECAL OF ECCL. GRD  
 17:34:33 -- BEGIN RECAL. NCO-5  
 17:48:05 -- END CALIBRATION NCO-5 CH 57  
 17:48:22 -- BEGIN CALIBRATION OF NCO-4 CH 55  
 17:58:17 -- PERFORMING END ECCLYZER CALIBRATIONS (USE LAST CAL DAT FOR CH 55)  
 17:58:25 -- END CAL ON CH 53 NCO-3

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2832 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	97	57.3	74	54.5	126	57.3	74	56.0	25	52.1
Cat2	142	59.8	208	58.6	159	58.2	153	59.7	95	51.1
Cat3	25	61.3	35	61.2	29	58.8	8	58.7	9	50.3
Cat4	13	64.7	22	61.5	7	55.9	8	59.8	3	49.4
Cat5	4	63.6	10	63.2	0	0	2	73.7	1	46.5

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	26	64.2	70	56.8	78	56.3	57	56.5	40	45.2
Cat2	218	64.7	268	57.6	236	56.5	171	57.6	89	46.3
Cat3	10	65.9	52	57.3	43	58.1	15	60.5	2	45.3
Cat4	17	66.7	31	59.5	33	59.6	3	57.3	0	0
Cat5	4	66.3	15	61.4	20	60.2	1	56.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	667	23.6	57.7	1739	61.4	58.9	232	8.2	60.8	137	4.8	61.9	57	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.062+/-	2.561	37	N VA 102'	.633+/-	1.860
12	N Dasibi CO	2.135+/-	.525	38	S BOT PER	4.530+/-	2.079
13	N TOP PAR	-1.522+/-	2.253	39	N VA 74'	-.083+/-	1.508
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-1.274+/-	1.982
15	N TOP VER	.171+/-	1.479	41	N GND PER	2.968+/-	1.923
16	N NDX/TECO	.174+/-	.039	42	S BOT VER	-.265+/-	.690
17	N BOT PER	5.478+/-	2.600	43	N GND PAR	-2.461+/-	2.361
19	N BOT PAR	-1.871+/-	2.222	45	N GND VER	-.064+/-	.764
20	N ND2/TECO	.024+/-	.005	48	N Ecolyzer-1	1.131+/-	.224
21	N BOT VER	1.564+/-	1.323	50	S TOP PER	5.569+/-	2.471
22	N ND/TECO	.149+/-	.037	51	N Ecolyzer-2	1.665+/-	.343
23	N HA 102'	10.009+/-	2.529	52	S TOP PAR	-1.465+/-	2.235
24	N THC/Byron	2.128+/-	.060	53	N Ecolyzer-3	1.872+/-	.760
25	N WV 102'	167.169+/-	13.926	54	S TOP VER	-.273+/-	1.098
26	N NMHC/Byro	2.934+/-	.276	55	N Ecolyzer-4	2.248+/-	.743
27	N Gnd Temp	74.431+/-	3.372	56	S GND PER	2.551+/-	1.628
28	N CH4/Byron	1.303+/-	.065	57	N Ecolyzer-5	2.993+/-	1.174
29	N WV 74'	158.686+/-	16.281	58	S GND PAR	-1.266+/-	1.458
30	N CO/Byron	1.663+/-	.341	59	N Rel Hum	75.590+/-	.367
31	N 74' Temp	73.232+/-	1.968	60	S GND VER	-.133+/-	.751
32	N CO2/Byron	469.142+/-	49.273	61	N Solar Rad	12.853+/-	4.111
35	N HA 74'	9.051+/-	3.181	64	S VA 55'	.651+/-	1.333

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	7.70+/- 2.60	168.4+/- 16.9	3.1+/- 12.2
02	17 19 21	6.31+/- 2.68	162.4+/- 21.8	3.5+/- 14.6
03	38 40 42	5.04+/- 2.34	158.9+/- 19.0	4.9+/- 10.7
04	41 43 45	4.52+/- 2.07	141.2+/- 31.4	1.9+/- 12.5
05	50 52 54	6.24+/- 2.57	158.3+/- 21.3	5.5+/- 14.7
06	56 58 60	3.24+/- 1.72	158.1+/- 29.1	6.2+/- 21.9

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 3014 vehicles averaging 56.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	103	56.6	81	53.6	161	56.1	65	55.9	38	49.8
Cat2	186	58.1	202	55.8	170	57.0	152	58.2	97	50.0
Cat3	23	60.0	47	59.5	31	57.9	10	56.0	4	46.5
Cat4	22	64.3	29	62.2	6	60.0	7	60.4	2	44.6
Cat5	13	63.5	5	60.6	2	59.4	2	62.9	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	23	62.4	49	55.4	69	56.7	49	54.8	51	45.3
Cat2	255	63.0	299	54.7	268	54.0	200	57.5	78	45.4
Cat3	15	64.8	38	55.1	44	54.8	10	57.1	7	45.3
Cat4	10	64.3	32	57.9	28	55.0	5	53.8	0	0
Cat5	3	66.3	17	55.8	5	57.3	1	55.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.8	689	22.9	56.3	1907	63.3	57.1	229	7.6	59.5	141	4.7	59.8	48	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.819+/-	2.757	37	N VA 102'	.205+/-	1.737
12	N Dasibi CO	2.189+/-	.804	38	S BOT PER	3.813+/-	1.981
13	N TOP PAR	-1.638+/-	2.863	39	N VA 74'	-.218+/-	1.519
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	-.890+/-	1.753
15	N TOP VER	.085+/-	1.378	41	N GND PER	3.212+/-	2.175
16	N NDX/TECO	.194+/-	.061	42	S BOT VER	-.311+/-	.548
17	N BOT PER	6.495+/-	2.522	43	N GND PAR	-2.557+/-	2.477
19	N BOT PAR	-2.058+/-	2.813	45	N GND VER	-.094+/-	.903
20	N ND2/TECO	.024+/-	.004	48	N Ecolyzer-1	1.146+/-	.227
21	N BOT VER	.137+/-	1.247	50	S TOP PER	5.084+/-	2.403
22	N ND/TECO	.170+/-	.050	51	N Ecolyzer-2	1.870+/-	.833
23	N HA 102'	9.491+/-	3.113	52	S TOP PAR	-1.039+/-	1.833
24	N THC/Byron	2.143+/-	.075	53	N Ecolyzer-3	1.613+/-	.556
25	N WV 102'	168.857+/-	12.800	54	S TOP VER	-.265+/-	.889
26	N NMHC/Byro	2.912+/-	.097	55	N Ecolyzer-4	2.078+/-	.583
27	N Gnd Temp	73.780+/-	2.575	56	S GND PER	2.085+/-	1.445
28	N CH4/Byron	1.311+/-	.057	57	N Ecolyzer-5	2.976+/-	1.216
29	N WV 74'	158.448+/-	14.736	58	S GND PAR	-.799+/-	1.386
30	N CO/Byron	.941+/-	.070	59	N Rel Hum	76.193+/-	.265
31	N 74' Temp	73.415+/-	2.835	60	S GND VER	-.235+/-	.515
32	N CO2/Byron	403.517+/-	7.625	61	N Solar Rad	6.540+/-	2.136

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	8.30+/- 3.08	168.4+/- 17.1	1.6+/- 8.8
02	17	19	21	7.36+/- 2.85	163.7+/- 18.7	2.2+/- 9.9
03	38	40	42	4.36+/- 2.12	171.1+/- 21.1	6.5+/- 11.5
04	41	43	45	4.86+/- 2.20	141.3+/- 30.7	1.9+/- 12.3
05	50	52	54	5.58+/- 2.41	171.3+/- 21.1	5.2+/- 12.5
06	56	58	60	2.59+/- 1.59	164.6+/- 32.1	8.8+/- 17.4

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2589 vehicles averaging 56.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	90	56.9	98	53.6	104	56.1	63	56.8	31	49.7
Cat2	140	58.3	186	55.5	162	57.4	140	57.8	80	50.5
Cat3	23	60.0	31	58.3	31	58.2	13	55.4	3	53.9
Cat4	14	62.2	16	61.4	7	57.2	2	53.7	2	52.4
Cat5	8	63.6	7	62.5	0	.0	1	59.6	1	54.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	24	63.9	61	56.6	78	56.0	49	55.8	38	44.0
Cat2	179	65.7	254	57.4	239	57.0	164	57.8	80	45.6
Cat3	12	64.6	39	56.8	33	57.3	13	56.3	0	.0
Cat4	9	68.0	29	58.0	14	59.4	1	61.6	0	.0
Cat5	1	64.9	8	58.1	10	57.2	1	54.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.1	636	24.6	57.3	1624	62.7	58.0	198	7.6	60.1	94	3.6	59.9	37	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.341+/- 3.341	mph	37	N VA 102'	.364+/- 1.775	mph
12	N Dasibi CO	1.817+/- .464	ppm	38	S BOT PER	4.412+/- 2.268	mph
13	N TOP PAR	-1.321+/- 2.081	mph	39	N VA 74'	.042+/- 1.458	mph
14	N Dasibi Q3	.013+/- .002	ppm	40	S BOT PAR	-.679+/- 1.865	mph
15	N TOP VER	.133+/- 1.331	mph	41	N GND PER	3.085+/- 2.235	mph
16	N NOX/TECO	.166+/- .052	ppm	42	S BOT VER	.216+/- .644	mph
17	N BOT PER	5.991+/- 3.436	mph	43	N GND PAR	-2.564+/- 1.836	mph
18	N BOT PAR	-1.815+/- 2.022	mph	45	N GND VER	.170+/- .715	mph
20	N NO2/TECO	.024+/- .005	ppm	48	N EcoLyzr-1	1.182+/- .241	ppm
21	N BOT VER	.127+/- 1.023	mph	50	S TOP PER	5.413+/- 2.956	mph
22	N NO/TECO	.142+/- .050	ppm	51	N EcoLyzr-2	1.702+/- .222	ppm
23	N HA 102'	9.458+/- 3.049	mph	52	S TOP PAR	-.929+/- 1.994	mph
24	N THC/Byron	2.102+/- .064	ppm	53	N EcoLyzr-3	1.584+/- .496	ppm
25	N WV 102'	164.654+/- 15.238	DEGR AZ	54	S TOP VER	.201+/- 1.022	mph
26	N NMHC/Byro	3.052+/- .110	ppm	55	N EcoLyzr-4	1.922+/- .542	ppm
27	N Gnd Temp	73.649+/- 2.899	DEGR F	56	S GND PER	2.373+/- 1.430	mph
28	N CH4/Byron	1.394+/- .127	ppm	57	N EcoLyzr-5	*****+*****	ppm
29	N WV 74'	156.270+/- 14.599	DEGR AZ	58	S GND PAR	-.673+/- 1.584	mph
30	N CO/Byron	.835+/- .131	ppm	59	N Rot Hum	76.502+/- .382	%
31	N 74' Temp	71.904+/- 2.849	DEGR F	60	S GND VER	-.271+/- .697	mph
32	N CO2/Byron	432.891+/- 16.858	ppm	61	N Solar Rad	5.177+/- 2.989	W/m**2
35	N HA 74'	8.793+/- 3.213	mph	64	S VA 55'	.415+/- 1.218	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.88+/- 3.28	168.1+/- 16.6	2.6+/- 10.5
02	17	19	21	6.70+/- 3.35	159.8+/- 19.8	3.2+/- 11.6
03	38	40	42	4.80+/- 2.44	171.2+/- 19.2	3.8+/- 9.7
04	41	43	45	4.47+/- 2.24	138.6+/- 26.0	3.1+/- 12.1
05	50	52	54	5.90+/- 3.02	170.5+/- 18.2	4.3+/- 13.1
06	56	58	60	2.94+/- 1.59	165.7+/- 29.5	8.8+/- 20.4

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2330 vehicles averaging 54.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	56.3	80	52.3	116	56.2	63	56.3	22	50.2
Cat2	131	57.9	188	54.8	138	56.8	100	58.1	72	48.1
Cat3	20	59.5	30	59.6	20	55.8	7	57.1	4	43.4
Cat4	11	60.8	24	59.8	8	58.3	0	.0	3	48.4
Cat5	4	64.3	7	61.6	1	55.4	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	31	59.2	50	54.8	44	55.4	46	52.2	41	44.7
Cat2	177	59.9	236	52.4	181	50.4	130	52.9	80	44.6
Cat3	13	59.0	39	53.0	44	49.8	12	52.0	2	39.2
Cat4	15	63.8	20	51.9	26	51.4	7	48.7	0	.0
Cat5	1	71.4	9	53.1	13	50.5	1	47.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.2	556	23.9	54.1	1433	61.5	54.4	191	8.2	56.1	114	4.9	55.5	36	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.625+/- 2.792	mph	37	N VA 102'	.508+/- 1.745	mph
12	N Dasibi CO	2.102+/- .449	ppm	38	S BOT PER	4.234+/- 1.956	mph
13	N TOP PAR	-1.351+/- 2.236	mph	39	N VA 74'	-.044+/- 1.401	mph
14	N Dasibi Q3	.014+/- .002	ppm	40	S BOT PAR	-.992+/- 1.604	mph
15	N TOP VER	.116+/- 1.280	mph	41	N GND PER	2.852+/- 1.455	mph
16	N NOX/TECO	.169+/- .038	ppm	42	S BOT VER	.282+/- .669	mph
17	N BOT PER	5.600+/- 2.572	mph	43	N GND PAR	-2.505+/- 2.089	mph
18	N BOT PAR	-1.803+/- 2.204	mph	45	N GND VER	.270+/- .695	mph
20	N NO2/TECO	.025+/- .005	ppm	49	N EcoLyzr-1	1.228+/- .228	ppm
21	N BOT VER	.225+/- 1.063	mph	50	S TOP PER	5.143+/- 2.320	mph
22	N NO/TECO	.144+/- .037	ppm	51	N EcoLyzr-2	1.780+/- .258	ppm
23	N HA 102'	9.017+/- 2.823	mph	52	S TOP PAR	-1.279+/- 2.192	mph
24	N THC/Byron	2.125+/- .070	ppm	53	N EcoLyzr-3	1.753+/- .562	ppm

25	N WV 102'	188.890+/-	13.786	DEGR AZ	54	S TOP VER	.286+/-	.984	mph
26	N NMHC/Byro	2.921+/-	.078	ppm	55	N Ecolyzer-4	*****	*****	ppm
27	N Gnd Temp	74.379+/-	3.040	DEGR F	56	S GND PER	2.295+/-	1.597	mph
28	N CH4/Byron	1.231+/-	.053	ppm	57	N Ecolyzer-5	3.082+/-	1.096	ppm
29	N WV 74'	156.988+/-	13.766	DEGR AZ	58	S GND PAR	-1.078+/-	1.332	mph
30	N CD/Byron	1.115+/-	.402	ppm	59	N Rel Hum	77.365+/-	.250	%
31	N 74' Temp	72.529+/-	1.917	DEGR F	60	S GND VER	.282+/-	.534	mph
32	N CO2/Byron	435.760+/-	18.689	ppm	61	N Solar Rad	3.588+/-	2.035	W/m**2
35	N HA 74'	8.066+/-	3.409	mph	64	S VA 55'	.557+/-	1.218	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.17+/- 2.95	169.4+/- 16.7	2.3+/- 10.5		
02	17 19 21	6.30+/- 2.75	162.6+/- 17.9	3.4+/- 10.8		
03	38 40 42	4.67+/- 2.01	169.6+/- 19.1	5.7+/- 12.7		
04	41 43 45	4.34+/- 1.77	138.3+/- 23.5	4.4+/- 10.8		
05	50 52 54	5.75+/- 2.50	169.1+/- 20.4	5.2+/- 12.8		
06	56 58 60	2.88+/- 1.67	162.1+/- 30.4	10.2+/- 19.2		

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10765 vehicles averaging 56.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	353	56.8	333	53.5	507	56.4	255	56.8	116	50.4
Cat2	599	58.5	784	55.7	629	57.3	545	58.5	344	50.0
Cat3	91	60.3	143	59.7	111	57.8	42	56.8	20	48.7
Cat4	60	63.2	91	61.3	28	57.8	17	59.3	10	48.8
Cat5	29	63.6	29	62.2	3	58.4	5	66.6	2	50.5

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	104	62.2	230	55.9	269	56.2	201	54.9	170	44.9
Cat2	829	63.3	1057	55.8	924	54.7	885	56.7	327	45.5
Cat3	50	63.5	168	55.7	164	54.8	50	58.7	11	44.2
Cat4	51	65.6	112	57.3	101	56.2	16	53.1	0	.0
Cat5	9	66.7	49	57.4	48	56.6	4	53.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
55.1	2548	23.7	56.4	6703	62.3	57.2	850	7.9	59.2	486	4.5	59.6	178	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.162+/-	2.895	37	N VA 102'	.427+/-	1.783
12	N Dasibi CO	2.086+/-	.524	38	S BOT PER	4.272+/-	2.083
13	N TOP PAR	-1.458+/-	2.376	39	N VA 74'	-.034+/-	1.474
14	N Dasibi O3	.013+/-	.002	40	S BOT PAR	-.959+/-	1.815
15	N TOP VER	.121+/-	1.367	41	N GND PER	3.029+/-	1.972
16	N NOX/TECO	.176+/-	.049	42	S BOT VER	.268+/-	.680
17	N BOT PER	5.891+/-	2.830	43	N GND PAR	-2.547+/-	2.201
19	N BOT PAR	-1.887+/-	2.332	45	N GND VER	.150+/-	.776
20	N NO2/TECO	.024+/-	.005	49	N Ecolyzer-1	1.172+/-	.233
21	N BOT VER	.161+/-	1.169	50	S TOP PER	5.302+/-	2.552
22	N NO/TECO	.151+/-	.048	51	N Ecolyzer-2	1.704+/-	.272
23	N HA 102'	9.494+/-	2.903	52	S TOP PAR	-1.178+/-	2.076
24	N THC/Byron	2.125+/-	.067	53	N Ecolyzer-3	1.704+/-	.614
25	N WV 102'	167.427+/-	14.062	54	S TOP VER	.257+/-	1.000
26	N NMHC/Byro	2.955+/-	.167	55	N Ecolyzer-4	2.081+/-	.648
27	N Gnd Temp	74.060+/-	2.930	56	S GND PER	2.321+/-	1.534
28	N CH4/Byron	1.310+/-	.098	57	N Ecolyzer-5	3.011+/-	1.184
29	N WV 74'	157.595+/-	14.875	58	S GND PAR	-.954+/-	1.459
30	N CD/Byron	1.139+/-	.418	59	N Rel Hum	76.413+/-	.720
31	N 74' Temp	72.770+/-	2.339	60	S GND VER	.230+/-	.634
32	N CO2/Byron	435.353+/-	35.911	61	N Solar Rad	7.039+/-	4.566
35	N HA 74'	8.706+/-	3.343	64	S VA 55'	.561+/-	1.212

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.76+/- 3.01	158.8+/- 16.8	2.4+/- 10.8		
02	17 19 21	6.67+/- 2.94	162.1+/- 19.6	3.1+/- 11.8		
03	38 40 42	4.72+/- 2.24	170.2+/- 19.6	5.2+/- 11.2		
04	41 43 45	4.55+/- 2.08	139.8+/- 28.1	2.8+/- 12.0		
05	50 52 54	5.87+/- 2.64	189.8+/- 20.3	5.0+/- 13.3		
06	56 58 60	2.91+/- 1.66	162.6+/- 30.3	8.5+/- 19.8		

18:00:57 -- BEGIN END CAL ON CH 51 CO-2  
 18:04:01 -- END CALIBRATION OF CO-1 CH 48  
 18:08:10 -- BEGIN SPAN DRIFTS ON CH 57 NCD-5  
 18:10:24 -- TURNING OFF TECO NOX ANALYZER TO RECALIBRATE IN SUBSEQUENT FILE.  
 18:18:11 -- READ ALL ECDLYZER ZERDS (EXCEPT CH 55)

Average for 15 minute period ending at 18:15:00  
Traffic Data  
 Total Traffic = 2146 vehicles averaging 57.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	56.6	95	52.5	102	55.2	53	55.6	19	46.9
Cat2	105	58.0	173	55.2	131	57.2	93	56.7	67	48.1
Cat3	15	58.8	22	59.3	9	56.0	5	56.9	4	53.0
Cat4	16	61.2	14	61.7	3	57.8	4	65.8	2	44.8
Cat5	2	72.3	1	61.8	2	72.7	2	65.8	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	63.6	39	56.6	65	57.8	40	56.9	37	44.2
Cat2	175	65.4	229	58.2	207	57.9	145	58.0	51	46.0
Cat3	19	64.7	26	60.8	25	59.1	7	54.0	3	41.9
Cat4	6	67.4	13	58.8	12	60.6	2	64.4	0	.0
Cat5	3	62.4	4	58.8	3	59.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	548	25.5	57.5	1376	64.1	59.1	133	6.2	61.0	72	3.4	63.7	17	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	8.252+/-	2.876 mph	37	N VA 102'	.366+/-	1.826 mph
12	N Dasibi CD	1.639+/-	.423 ppm	38	S BDT PER	4.877+/-	2.329 mph
13	N TDP PAR	-1.887+/-	2.540 mph	39	N VA 74'	-2.217+/-	1.710 mph
14	N Dasibi D3	.014+/-	.002 ppm	40	S BDT PAR	-1.052+/-	2.171 mph
15	N TOP VER	.108+/-	1.611 mph	41	N GND PER	3.467+/-	1.993 mph
16	N NOX/TECO	*****+/-	***** ppm	42	S BDT VER	.295+/-	.779 mph
17	N BDT PER	6.902+/-	2.902 mph	43	N GND PAR	-2.571+/-	2.334 mph
19	N BDT PAR	-2.236+/-	2.368 mph	45	N GND VER	.305+/-	.734 mph
20	N ND2/TECO	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BDT VER	.191+/-	1.355 mph	50	S TOP PER	6.071+/-	2.861 mph
22	N ND/TECO	*****+/-	***** ppm	51	N Ecolyzer-2	*****+/-	***** ppm
23	N HA 102'	10.752+/-	2.853 mph	52	S TOP PAR	-1.110+/-	2.205 mph
24	N THC/Byron	2.008+/-	.151 ppm	53	N Ecolyzer-3	*****+/-	***** ppm
25	N WV 102'	164.022+/-	13.064 DEGR AZ	54	S TOP VER	.147+/-	1.013 mph
26	N NMHC/Byro	2.857+/-	.137 ppm	55	N Ecolyzer-4	*****+/-	***** ppm
27	N Gnd Temp	74.196+/-	2.313 DEGR F	56	S GND PER	2.741+/-	1.576 mph
28	N CH4/Byron	1.273+/-	.091 ppm	57	N Ecolyzer-5	*****+/-	***** ppm
29	N WV 74'	156.217+/-	14.616 DEGR AZ	58	S GND PAR	-1.032+/-	1.375 mph
30	N CD/Byron	1.098+/-	.428 ppm	59	N Rel Hum	77.854+/-	.312 %
31	N 74' Temp	73.050+/-	2.681 DEGR F	60	S GND VER	.258+/-	.627 mph
32	N CD2/Byron	465.722+/-	24.506 ppm	61	N Solar Rad	2.861+/-	2.203 W/m**2
35	N HA 74'	10.264+/-	3.333 mph	64	S VA 55'	.544+/-	1.363 mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.96+/-	2.94	167.7+/- 16.8
02	17 19 21	7.77+/-	2.88	162.7+/- 19.5
03	38 40 42	5.39+/-	2.59	172.3+/- 18.8
04	41 43 45	4.87+/-	2.21	145.6+/- 28.5
05	50 52 54	6.59+/-	2.96	172.8+/- 19.2
06	56 58 60	3.28+/-	1.62	164.5+/- 26.8
				1.9+/- 10.9
				2.8+/- 11.6
				5.8+/- 12.8
				5.4+/- 12.9
				4.4+/- 12.1
				8.4+/- 18.0

Average for 15 minute period ending at 18:30:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	*****+/-	***** mph	37	N VA 102'	*****+/-	***** mph
12	N Dasibi CD	*****+/-	***** ppm	38	S BDT PER	*****+/-	***** mph
13	N TDP PAR	*****+/-	***** mph	39	N VA 74'	*****+/-	***** mph
14	N Dasibi D3	*****+/-	***** ppm	40	S BDT PAR	*****+/-	***** mph
15	N TOP VER	*****+/-	***** mph	41	N GND PER	*****+/-	***** mph
16	N NOX/TECO	*****+/-	***** ppm	42	S BDT VER	*****+/-	***** mph
17	N BDT PER	*****+/-	***** mph	43	N GND PAR	*****+/-	***** mph
19	N BDT PAR	*****+/-	***** mph	45	N GND VER	*****+/-	***** mph
20	N ND2/TECO	*****+/-	***** ppm	49	N Ecolyzer-1	*****+/-	***** ppm
21	N BDT VER	*****+/-	***** mph	50	S TOP PER	*****+/-	***** mph
22	N ND/TECO	*****+/-	***** ppm	51	N Ecolyzer-2	*****+/-	***** ppm
23	N HA 102'	*****+/-	***** mph	52	S TOP PAR	*****+/-	***** mph
24	N THC/Byron	*****+/-	***** ppm	53	N Ecolyzer-3	*****+/-	***** ppm
25	N WV 102'	*****+/-	***** DEGR AZ	54	S TOP VER	*****+/-	***** mph
26	N NMHC/Byro	*****+/-	***** ppm	55	N Ecolyzer-4	*****+/-	***** ppm
27	N Gnd Temp	*****+/-	***** DEGR F	56	S GND PER	*****+/-	***** mph
28	N CH4/Byron	*****+/-	***** ppm	57	N Ecolyzer-5	*****+/-	***** ppm
29	N WV 74'	*****+/-	***** DEGR AZ	58	S GND PAR	*****+/-	***** mph
30	N CD/Byron	*****+/-	***** ppm	59	N Rel Hum	*****+/-	***** %
31	N 74' Temp	*****+/-	***** DEGR F	60	S GND VER	*****+/-	***** mph
32	N CD2/Byron	*****+/-	***** ppm	61	N Solar Rad	*****+/-	***** W/m**2
35	N HA 74'	*****+/-	***** mph	64	S VA 55'	*****+/-	***** mph



UVW Vector Calculations						
UVW	Channels		Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	*****+/-*****	17.5+/- 8.0	219.2+/-*****	
02	17	19 21	*****+/-*****	20.4+/- 10.5	161.4+/-*****	
03	38	40 42	*****+/-*****	9.7+/- 7.8	227.8+/-*****	
04	41	43 45	.00+/- .00	0+/- 0	0+/- 0	
05	50	52 54	*****+/-*****	10.4+/- 7.5	181.2+/-*****	
06	56	58 60	*****+/-*****	23.4+/- 17.8	354.3+/-*****	

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Average for 15 minute period ending at 18:45:00  
Average for 15 minute period ending at 19:00:00  
Average for hourly period ending at 19:00:00

Traffic Data  
Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic										
	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic										
	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary											
Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%
	Total		Total	Total		Total	Total		Total	Total	
.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels							
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N ND2/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	48	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels		Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	*****+/-*****	*****+/-*****	*****+/-*****	
02	17	19 21	*****+/-*****	*****+/-*****	*****+/-*****	
03	38	40 42	*****+/-*****	*****+/-*****	*****+/-*****	
04	41	43 45	*****+/-*****	*****+/-*****	*****+/-*****	
05	50	52 54	*****+/-*****	*****+/-*****	*****+/-*****	
06	56	58 60	*****+/-*****	*****+/-*****	*****+/-*****	

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22:23:28 -- Calibration data file.  
 22:23:29 -- 12/12/84  
 22:23:30 -- This is a calibration data file. The following instruments will have their spans  
 22:23:31 -- and zeros (if any) checked: BYRDN 401, TECD NOX, and DASIBI CO. The following  
 22:23:32 -- instruments will be recalibrated in this file: TECD NOX, DASIBI CO.  
 22:24:30 -- BYRDN WILL NOT BE RECALIBRATED SINCE ITS MOLECULAR SIEVE COLUMN IS BEING REACTI  
 22:24:35 -- VATED.  
 22:24:54 -- READ TECD NOX SPAN DRIFTS  
 22:25:18 -- READ BYRDN SPAN DRIFTS  
 22:26:20 -- BYRDN CO2 MAY BE OFF UNTIL DNE ADDITIONAL CYCLE IS COMPLETED.  
 Average for 15 minute period ending at 22:15:00  
 Average for 15 minute period ending at 22:30:00

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****-/*****	mph	37	N VA 102'	*****-/*****	mph
12	N Dasibi CO	*****-/*****	ppm	38	S BDT PER	*****-/*****	mph
13	N TOP PAR	*****-/*****	mph	39	N VA 74'	*****-/*****	mph
14	N Dasibi O3	*****-/*****	ppm	40	S BDT PAR	*****-/*****	mph
15	N TOP VER	*****-/*****	mph	41	N GND PER	*****-/*****	mph
16	N NOX/TECD	*****-/*****	ppm	42	S BDT VER	*****-/*****	mph
17	N BDT PER	*****-/*****	mph	43	N GND PAR	*****-/*****	mph
19	N BDT PAR	*****-/*****	mph	45	N GND VER	*****-/*****	mph
20	N ND2/TECD	*****-/*****	ppm	49	N Ecolyzer-1	*****-/*****	ppm
21	N BDT VER	*****-/*****	mph	50	S TOP PER	*****-/*****	mph
22	N ND/TECD	*****-/*****	ppm	51	N Ecolyzer-2	*****-/*****	ppm
23	N HA 102'	*****-/*****	mph	52	S TOP PAR	*****-/*****	mph
24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	*****-/*****	ppm
25	N WV 102'	*****-/*****	DEGR AZ	54	S TOP VER	*****-/*****	mph
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	*****-/*****	ppm
27	N Gnd Temp.	*****-/*****	DEGR F	56	S GND PER	*****-/*****	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	*****-/*****	ppm
29	N WV 74'	*****-/*****	DEGR AZ	58	S GND PAR	*****-/*****	mph
30	N CO/Byron	*****-/*****	ppm	59	N Rel Hum	*****-/*****	%
31	N 74' Temp	*****-/*****	DEGR F	60	S GND VER	*****-/*****	mph
32	N CO2/Byron	*****-/*****	ppm	61	N Solar Rad	*****-/*****	W/m**2
35	N HA 74'	*****-/*****	mph	64	S VA 55'	*****-/*****	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****-/*****	*****-/*****	*****-/*****
02	17 19 21	*****-/*****	*****-/*****	*****-/*****
03	38 40 42	*****-/*****	*****-/*****	*****-/*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****-/*****	*****-/*****	*****-/*****
06	56 58 60	*****-/*****	*****-/*****	*****-/*****

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 Average for 15 minute period ending at 22:45:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	6.550+/- 2.281	mph	37	N VA 102'	.808+/- 1.914	mph
12	N Dasibi CO	*****-/*****	ppm	38	S BDT PER	4.890+/- 2.107	mph
13	N TOP PAR	-4.284+/- 2.022	mph	39	N VA 74'	-.132+/- 1.472	mph
14	N Dasibi O3	.014+/- .002	ppm	40	S BDT PAR	-2.262+/- 1.764	mph
15	N TOP VER	.394+/- 1.278	mph	41	N GND PER	*****-/*****	mph
16	N NOX/TECD	*****-/*****	ppm	42	S BDT VER	.367+/- .905	mph
17	N BDT PER	4.705+/- 2.336	mph	43	N GND PAR	*****-/*****	mph
19	N BDT PAR	-4.167+/- 1.934	mph	45	N GND VER	*****-/*****	mph
20	N ND2/TECD	*****-/*****	ppm	49	N Ecolyzer-1	*****-/*****	ppm
21	N BDT VER	.499+/- 1.105	mph	50	S TOP PER	5.778+/- 2.110	mph
22	N ND/TECD	*****-/*****	ppm	51	N Ecolyzer-2	*****-/*****	ppm
23	N HA 102'	9.830+/- 2.307	mph	52	S TOP PAR	-3.023+/- 1.637	mph
24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	*****-/*****	ppm
25	N WV 102'	147.403+/- 11.551	DEGR AZ	54	S TOP VER	.224+/- 1.122	mph
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	*****-/*****	ppm
27	N Gnd Temp	70.940+/- 1.975	DEGR F	56	S GND PER	2.861+/- 1.775	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	*****-/*****	ppm
29	N WV 74'	139.995+/- 13.885	DEGR AZ	58	S GND PAR	-1.407+/- 1.120	mph
30	N CO/Byron	*****-/*****	ppm	59	N Rel Hum	84.319+/- 1.155	%
31	N 74' Temp	70.992+/- 3.883	DEGR F	60	S GND VER	.282+/- .559	mph
32	N CO2/Byron	*****-/*****	ppm	61	N Solar Rad	86.472+/- 52.396	W/m**2
35	N HA 74'	8.442+/- 3.594	mph	64	S VA 55'	.669+/- 1.302	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.13+/- 2.48	146.7+/- 12.7	3.9+/- 9.8
02	17 19 21	6.87+/- 2.36	137.3+/- 17.8	5.3+/- 10.5
03	38 40 42	5.72+/- 2.20	155.9+/- 17.4	4.7+/- 10.1
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	6.77+/- 2.25	152.1+/- 13.0	3.6+/- 10.6
06	56 58 60	3.57+/- 1.55	152.0+/- 25.7	8.0+/- 17.1

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 Average for 15 minute period ending at 23:00:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.623+/- 2.132	mph	37	N VA 102'	.678+/- 1.830	mph
12	N Dasibi CO	*****-/*****	ppm	38	S BDT PER	5.101+/- 1.878	mph
13	N TOP PAR	-4.200+/- 2.013	mph	39	N VA 74'	-.181+/- 1.324	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BDT PAR	-2.020+/- 1.656	mph
15	N TOP VER	.518+/- 1.480	mph	41	N GND PER	*****-/*****	mph
16	N NOX/TECD	*****-/*****	ppm	42	S BDT VER	.444+/- .867	mph
17	N BDT PER	5.418+/- 2.079	mph	43	N GND PAR	*****-/*****	mph
19	N BDT PAR	-4.332+/- 1.867	mph	45	N GND VER	*****-/*****	mph
20	N ND2/TECD	*****-/*****	ppm	49	N Ecolyzer-1	*****-/*****	ppm
21	N BDT VER	.657+/- 1.224	mph	50	S TOP PER	5.974+/- 2.021	mph
22	N ND/TECD	*****-/*****	ppm	51	N Ecolyzer-2	*****-/*****	ppm
23	N HA 102'	10.290+/- 2.331	mph	52	S TOP PAR	-2.734+/- 1.848	mph
24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	*****-/*****	ppm
25	N WV 102'	150.852+/- 12.299	DEGR AZ	54	S TOP VER	.267+/- 1.046	mph
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	*****-/*****	ppm
27	N Gnd Temp	72.164+/- 3.499	DEGR F	56	S GND PER	3.102+/- 1.572	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	*****-/*****	ppm
29	N WV 74'	141.574+/- 13.645	DEGR AZ	58	S GND PAR	-1.381+/- 1.223	mph
30	N CO/Byron	*****-/*****	ppm	59	N Rel Hum	83.797+/- .611	%
31	N 74' Temp	70.757+/- 4.475	DEGR F	60	S GND VER	.275+/- .640	mph
32	N CO2/Byron	*****-/*****	ppm	61	N Solar Rad	77.207+/- 48.954	W/m**2
35	N HA 74'	9.118+/- 3.230	mph	64	S VA 55'	.655+/- 1.355	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.08+/- 2.16	151.1+/- 12.4	4.1+/- 10.6
02	17 19 21	7.30+/- 2.11	141.0+/- 15.7	5.4+/- 10.8
03	38 40 42	5.81+/- 1.90	159.0+/- 16.8	5.5+/- 12.6
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	6.92+/- 1.97	155.2+/- 15.9	3.3+/- 10.0
06	56 58 60	3.71+/- 1.49	155.8+/- 26.5	6.2+/- 14.7

Average for hourly period ending at 23:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TDP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
18	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
19	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	mph
20	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
22	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
24	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
26	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
28	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
29	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
30	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
32	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph
35							

UVW	Channels	UVW Vector Calculations		
		Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

23:13:48 -- STOP READING TECO AND BYRON SPANS  
 23:44:13 -- BEGIN CAL DASIBI CD GRD  
 23:59:10 -- READ SPAN DN DASIBI CD

Average for 15 minute period ending at 23:15:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	8.993+/- 3.234	mph	37	N VA 102'	.148+/- 2.244	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	5.888+/- 2.465	mph
13	N TDP PAR	-3.486+/- 2.370	mph	39	N VA 74'	-.353+/- 1.809	mph
14	N Dasibi D3	.020+/- .003	ppm	40	S BDT PAR	-1.889+/- 2.530	mph
15	N TDP VER	.423+/- 1.790	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	.320+/- .925	mph
17	N BDT PER	7.588+/- 3.131	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-3.738+/- 2.364	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	-.531+/- 1.486	mph	50	S TOP PER	7.122+/- 2.735	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	12.012+/- 3.228	mph	52	S TOP PAR	-2.175+/- 2.312	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	157.069+/- 13.135	DEGR AZ	54	S TOP VER	.210+/- 1.104	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	71.799+/- 2.233	DEGR F	56	S GND PER	3.168+/- 1.800	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	148.803+/- 14.070	DEGR AZ	58	S GND PAR	-1.683+/- 1.539	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	83.423+/- .599	%
31	N 74' Temp	69.611+/- 3.150	DEGR F	60	S GND VER	-.197+/- .782	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	72.938+/- 27.935	W/m**2
35	N HA 74'	10.560+/- 3.984	mph	64	S VA 55'	.541+/- 1.659	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.20+/- 2.91	157.3+/- 18.1	3.0+/- 11.1
02	17 19 21	9.04+/- 2.75	152.0+/- 18.3	4.0+/- 11.2
03	38 40 42	6.57+/- 2.62	163.6+/- 20.9	4.2+/- 10.7
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	7.85+/- 2.80	163.3+/- 16.7	3.5+/- 9.7
06	56 58 60	4.01+/- 1.76	154.4+/- 28.9	6.1+/- 19.6

Average for 15 minute period ending at 23:30:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.572+/- 2.809	mph	37	N VA 102'	.248+/- 2.247	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	4.711+/- 1.933	mph
13	N TDP PAR	-2.985+/- 2.327	mph	39	N VA 74'	-.155+/- 1.740	mph
14	N Dasibi D3	.020+/- .003	ppm	40	S BDT PAR	-1.830+/- 2.170	mph
15	N TDP VER	.423+/- 1.703	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	.425+/- .972	mph
17	N BDT PER	6.208+/- 2.825	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-3.519+/- 2.315	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.515+/- 1.282	mph	50	S TOP PER	5.788+/- 2.301	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.327+/- 2.734	mph	52	S TOP PAR	-2.193+/- 2.062	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	158.560+/- 14.786	DEGR AZ	54	S TOP VER	.300+/- 1.151	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	71.252+/- 2.417	DEGR F	56	S GND PER	2.642+/- 1.517	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	150.053+/- 15.680	DEGR AZ	58	S GND PAR	-1.264+/- 1.395	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	83.179+/- .697	%
31	N 74' Temp	69.585+/- 4.970	DEGR F	60	S GND VER	-.228+/- .754	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	61.403+/- 34.440	W/m**2
35	N HA 74'	9.441+/- 4.186	mph	64	S VA 55'	.728+/- 1.494	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.65+/- 2.76	158.4+/- 16.1	4.2+/- 12.6
02	17 19 21	7.60+/- 2.71	150.5+/- 16.7	5.5+/- 11.3
03	38 40 42	5.58+/- 1.99	159.8+/- 22.1	7.6+/- 15.6
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	6.62+/- 2.28	160.1+/- 19.3	5.6+/- 14.1
06	56 58 60	3.36+/- 1.48	157.0+/- 28.3	8.2+/- 18.7

Average for 15 minute period ending at 23:45:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.578+/- 3.131	mph	37	N VA 102'	.295+/- 2.138	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BDT PER	5.064+/- 1.887	mph
13	N TDP PAR	-2.560+/- 2.070	mph	39	N VA 74'	-.227+/- 1.867	mph
14	N Dasibi D3	.023+/- .003	ppm	40	S BDT PAR	-1.101+/- 1.911	mph
15	N TDP VER	.197+/- 1.630	mph	41	N GND PER	*****+/-*****	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	.329+/- .753	mph
17	N BDT PER	6.321+/- 2.813	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-2.890+/- 1.895	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.315+/- 1.382	mph	50	S TOP PER	6.058+/- 2.269	mph
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	10.248+/- 3.144	mph	52	S TOP PAR	-1.308+/- 2.137	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	157.918+/- 12.519	DEGR AZ	54	S TOP VER	.146+/- 1.008	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	72.086+/- 2.116	DEGR F	56	S GND PER	2.954+/- 1.750	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	150.969+/- 14.376	DEGR AZ	58	S GND PAR	-1.114+/- 1.423	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	83.455+/- .696	%
31	N 74' Temp	73.701+/- 5.002	DEGR F	60	S GND VER	-.192+/- .623	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	65.944+/- 39.516	W/m**2
35	N HA 74'	9.183+/- 4.190	mph	64	S VA 55'	.468+/- 1.441	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.45+/- 3.05	160.1+/- 15.2	3.4+/- 12.7
02	17 19 21	7.26+/- 2.81	156.3+/- 15.9	4.2+/- 12.1
03	38 40 42	5.54+/- 2.00	170.0+/- 18.5	5.0+/- 10.2
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0
05	50 52 54	6.61+/- 2.32	168.6+/- 18.5	3.0+/- 11.4
06	56 58 60	3.54+/- 1.72	162.1+/- 29.6	6.9+/- 17.7

Average for 15 minute period ending at 24:00:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	7.891+/-	2.718	mph	37	N VA 102'	.437+/-	1.953	mph
12	N Dasibi CO	*****+/-*****		ppm	38	S BOT PER	5.243+/-	1.772	mph
13	N TOP PAR	-3.100+/-	2.272	mph	39	N VA 74'	-.457+/-	1.751	mph
14	N Dasibi O3	.022+/-	.002	ppm	40	S BOT PAR	-1.952+/-	1.937	mph
15	N TOP VER	.082+/-	1.568	mph	41	N GND PER	*****+/-*****		mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.179+/-	.769	mph
17	N BOT PER	6.045+/-	2.623	mph	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	-3.836+/-	2.085	mph	45	N GND VER	*****+/-*****		mph
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.311+/-	1.392	mph	50	S TOP PER	6.120+/-	2.179	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	10.608+/-	2.929	mph	52	S TOP PAR	-2.528+/-	1.942	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	154.737+/-	14.355	DEGR A2	54	S TOP VER	-.051+/-	1.009	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	70.314+/-	2.661	DEGR F	56	S GND PER	3.159+/-	1.561	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	147.506+/-	17.233	DEGR A2	58	S GND PAR	-1.676+/-	1.259	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	83.374+/-	.651	%
31	N 74' Temp	71.461+/-	3.169	DEGR F	60	S GND VER	.195+/-	.667	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	76.344+/-	51.784	W/m**2
35	N HA 74'	9.764+/-	4.006	mph	64	S VA 55'	.353+/-	1.341	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.99+/- 2.72	157.6+/- 15.3	2.1+/- 12.1		
02	17 19 21	7.62+/- 2.54	147.0+/- 17.8	4.0+/- 13.1		
03	38 40 42	5.94+/- 1.86	161.1+/- 18.4	2.9+/- 8.4		
04	41 43 45	.00+/- .00	0+/- 0	0+/- 0		
05	50 52 54	6.95+/- 2.25	158.7+/- 16.9	1.1+/- 9.8		
06	56 58 60	3.88+/- 1.49	151.3+/- 23.3	3.7+/- 13.8		

Average for hourly period ending at 24:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.009+/- 3.031	mph	37	N VA 102'	.281+/- 2.147	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	5.220+/- 2.071	mph
13	N TOP PAR	-3.078+/- 2.285	mph	39	N VA 74'	-.298+/- 1.746	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	-1.693+/- 2.174	mph
15	N TOP VER	.284+/- 1.682	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.313+/- .863	mph
17	N BOT PER	6.540+/- 2.866	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-3.446+/- 2.215	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.418+/- 1.384	mph	50	S TOP PER	6.267+/- 2.430	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	10.799+/- 3.052	mph	52	S TOP PAR	-2.051+/- 2.181	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	157.071+/- 13.774	DEGR A2	54	S TOP VER	.151+/- 1.075	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	71.363+/- 2.408	DEGR F	56	S GND PER	2.981+/- 1.672	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	149.338+/- 15.413	DEGR A2	58	S GND PAR	-1.434+/- 1.427	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.358+/- .649	%
31	N 74' Temp	71.089+/- 4.408	DEGR F	60	S GND VER	.203+/- .708	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	89.157+/- 38.835	W/m**2
35	N HA 74'	9.737+/- 4.117	mph	64	S VA 55'	.522+/- 1.491	mph

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	9.07+/- 2.94	158.4+/- 15.7	3.2+/- 12.2		
02	17 19 21	7.88+/- 2.79	151.5+/- 17.5	4.4+/- 11.9		
03	38 40 42	5.93+/- 2.18	163.6+/- 20.4	4.9+/- 11.6		
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****		
05	50 52 54	7.01+/- 2.47	162.7+/- 18.2	3.3+/- 11.5		
06	56 58 60	3.70+/- 1.64	156.1+/- 27.8	6.2+/- 17.6		

24:09:10 -- READ NEW SPAN FOR DASIBI CD GRD  
 24:19:14 -- READ NEW ZERO FOR DASIBI CD GRD  
 24:59:24 -- OLD TECO ZEROS ARE THE SAME AS THE NEW TECO ZEROS  
 24:59:31 -- BEGIN READING NEW TECO SPANS

Average for 15 minute period ending at 24:15:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.488+/- 2.691	mph	37	N VA 102'	.497+/- 2.105	mph
12	N Dasibi CD	*****/-*****	ppm	38	S BDT PER	6.355+/- 2.166	mph
13	N TOP PAR	-4.561+/- 2.521	mph	39	N VA 74'	-.376+/- 1.729	mph
14	N Dasibi D3	.024+/- .002	ppm	40	S BDT PAR	-2.748+/- 2.288	mph
15	N TOP VER	.413+/- 1.713	mph	41	N GND PER	*****/-*****	mph
16	N ND/TECO	*****/-*****	ppm	42	S BDT VER	.270+/- 1.031	mph
17	N BDT PER	6.931+/- 2.844	mph	43	N GND PAR	*****/-*****	mph
19	N BDT PAR	-5.234+/- 2.591	mph	45	N GND VER	*****/-*****	mph
20	N ND2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BDT VER	.482+/- 1.637	mph	50	S TOP PER	7.445+/- 2.566	mph
22	N NO/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	11.581+/- 2.822	mph	52	S TOP PAR	-3.174+/- 2.145	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	153.699+/- 12.811	DEGR AZ	54	S TOP VER	.075+/- 1.214	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	70.575+/- 2.127	DEGR F	56	S GND PER	3.736+/- 1.792	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	144.902+/- 13.973	DEGR AZ	58	S GND PAR	-2.089+/- 1.616	mph
30	N CD/Byron	*****/-*****	ppm	59	N Rel Hum	83.341+/- .907	%
31	N 74' Temp	71.383+/- 3.246	DEGR F	60	S GND VER	.185+/- .789	mph
32	N CD2/Byron	*****/-*****	ppm	61	N Solar Rad	72.666+/- 47.317	W/m**2
35	N HA 74'	11.038+/- 3.827	mph	64	S VA 55'	.522+/- 1.457	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.04+/- 2.95	152.5+/- 12.9	3.1+/- 10.7
02	17 19 21	9.16+/- 3.04	143.0+/- 15.8	4.2+/- 10.8
03	38 40 42	7.29+/- 2.42	158.1+/- 16.4	3.3+/- 9.4
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	8.40+/- 2.74	157.6+/- 13.1	2.2+/- 10.1
06	56 58 60	4.64+/- 1.81	150.7+/- 22.4	4.5+/- 14.3

Average for 15 minute period ending at 24:30:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.567+/- 3.560	mph	37	N VA 102'	.654+/- 2.186	mph
12	N Dasibi CD	*****/-*****	ppm	38	S BDT PER	5.879+/- 2.444	mph
13	N TOP PAR	-4.908+/- 2.830	mph	39	N VA 74'	-.328+/- 1.739	mph
14	N Dasibi D3	.026+/- .002	ppm	40	S BDT PAR	-2.722+/- 2.179	mph
15	N TOP VER	.251+/- 1.798	mph	41	N GND PER	*****/-*****	mph
16	N ND/TECO	*****/-*****	ppm	42	S BDT VER	.212+/- .924	mph
17	N BDT PER	7.132+/- 3.510	mph	43	N GND PAR	*****/-*****	mph
19	N BDT PAR	-5.608+/- 2.753	mph	45	N GND VER	*****/-*****	mph
20	N ND2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BDT VER	.347+/- 1.558	mph	50	S TOP PER	7.028+/- 3.117	mph
22	N NO/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	12.391+/- 4.180	mph	52	S TOP PAR	-3.404+/- 2.441	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	153.009+/- 14.666	DEGR AZ	54	S TOP VER	.036+/- 1.196	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	72.086+/- 2.289	DEGR F	56	S GND PER	3.367+/- 2.344	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	142.617+/- 14.981	DEGR AZ	58	S GND PAR	-2.001+/- 1.392	mph
30	N CD/Byron	*****/-*****	ppm	59	N Rel Hum	83.488+/- .587	%
31	N 74' Temp	71.643+/- 3.859	DEGR F	60	S GND VER	.399+/- .803	mph
32	N CD2/Byron	*****/-*****	ppm	61	N Solar Rad	71.939+/- 46.649	W/m**2
35	N HA 74'	10.481+/- 4.731	mph	64	S VA 55'	.400+/- 1.631	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.33+/- 3.83	150.6+/- 14.2	2.0+/- 10.3
02	17 19 21	8.55+/- 3.68	141.2+/- 15.4	2.8+/- 9.6
03	38 40 42	6.84+/- 2.59	156.5+/- 17.9	2.5+/- 9.1
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	8.18+/- 3.34	155.3+/- 16.0	1.7+/- 10.6
06	56 58 60	4.34+/- 2.17	148.7+/- 25.9	7.8+/- 17.2

Average for 15 minute period ending at 24:45:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.428+/- 2.522	mph	37	N VA 102'	.624+/- 2.157	mph
12	N Dasibi CD	*****/-*****	ppm	38	S BDT PER	5.098+/- 2.162	mph
13	N TOP PAR	-3.484+/- 2.248	mph	39	N VA 74'	-.099+/- 1.618	mph
14	N Dasibi D3	.024+/- .002	ppm	40	S BDT PAR	-1.787+/- 1.777	mph
15	N TOP VER	.261+/- 1.513	mph	41	N GND PER	*****/-*****	mph
16	N ND/TECO	*****/-*****	ppm	42	S BDT VER	.154+/- 1.021	mph
17	N BDT PER	5.580+/- 2.431	mph	43	N GND PAR	*****/-*****	mph
19	N BDT PAR	-3.782+/- 2.058	mph	45	N GND VER	*****/-*****	mph
20	N ND2/TECO	*****/-*****	ppm	49	N Ecolyzer-1	*****/-*****	ppm
21	N BDT VER	.385+/- 1.307	mph	50	S TOP PER	6.057+/- 2.231	mph
22	N NO/TECO	*****/-*****	ppm	51	N Ecolyzer-2	*****/-*****	ppm
23	N HA 102'	10.818+/- 2.616	mph	52	S TOP PAR	-2.432+/- 1.823	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	*****/-*****	ppm
25	N WV 102'	154.098+/- 13.078	DEGR AZ	54	S TOP VER	.183+/- .978	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	*****/-*****	ppm
27	N Gnd Temp	70.575+/- 2.793	DEGR F	56	S GND PER	3.112+/- 1.787	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	*****/-*****	ppm
29	N WV 74'	147.576+/- 16.391	DEGR AZ	58	S GND PAR	-1.308+/- 1.096	mph
30	N CD/Byron	*****/-*****	ppm	59	N Rel Hum	84.351+/- 1.813	%
31	N 74' Temp	70.887+/- 2.960	DEGR F	60	S GND VER	.276+/- .650	mph
32	N CD2/Byron	*****/-*****	ppm	61	N Solar Rad	43.145+/- 33.644	W/m**2
35	N HA 74'	9.622+/- 3.563	mph	64	S VA 55'	.478+/- 1.270	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.60+/- 2.67	155.2+/- 14.1	3.0+/- 11.2
02	17 19 21	7.22+/- 2.31	145.2+/- 19.4	4.3+/- 12.2
03	38 40 42	5.78+/- 2.17	162.8+/- 18.8	4.1+/- 15.8
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	6.80+/- 2.37	159.3+/- 15.7	3.6+/- 11.9
06	56 58 60	3.69+/- 1.63	156.5+/- 24.7	7.9+/- 17.5

Average for 15 minute period ending at 25:00:00  
 Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	8.292+/-	2.751	mph	37	N VA 102'	.337+/-	2.101	mph
12	N Dasibi CO	*****+/-*****		ppm	38	S BOT PER	5.618+/-	2.343	mph
13	N TOP PAR	-4.292+/-	2.516	mph	39	N VA 74'	-.143+/-	1.893	mph
14	N Dasibi O3	.025+/-	.003	ppm	40	S BOT PAR	-2.266+/-	2.251	mph
15	N TOP VER	.287+/-	1.635	mph	41	N GND PER	*****+/-*****		mph
16	N NOX/TECO	*****+/-*****		ppm	42	S BOT VER	.303+/-	.939	mph
17	N BOT PER	7.190+/-	2.825	mph	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	-4.692+/-	2.480	mph	45	N GND VER	*****+/-*****		mph
20	N NO2/TECO	*****+/-*****		ppm	49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.519+/-	1.467	mph	50	S TOP PER	6.755+/-	2.630	mph
22	N NO/TECO	*****+/-*****		ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	11.716+/-	2.803	mph	52	S TOP PAR	-2.700+/-	2.140	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	153.365+/-	12.569	DEGR AZ	54	S TOP VER	.220+/-	1.119	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	70.966+/-	3.364	DEGR F	56	S GND PER	3.406+/-	1.964	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	-146.753+/-	13.288	DEGR AZ	58	S GND PAR	-1.711+/-	1.374	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Re1 Hum	83.683+/-	.599	%
31	N 74' Temp	70.575+/-	4.176	DEGR F	60	S GND VER	.221+/-	.603	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	52.683+/-	22.635	W/m**2
35	N HA 74'	10.452+/-	4.016	mph	64	S VA 55'	.665+/-	1.327	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	9.73+/- 3.04	153.0+/- 13.1	3.1+/- 10.9		
O2	17 19 21	9.02+/- 2.98	146.4+/- 15.4	4.7+/- 10.5		
O3	38 40 42	6.43+/- 2.63	160.2+/- 17.1	5.2+/- 12.5		
O4	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
O5	50 52 54	7.59+/- 2.84	159.4+/- 15.1	4.1+/- 12.2		
O6	56 58 60	4.08+/- 2.01	154.0+/- 21.7	4.6+/- 14.1		

Average for hourly period ending at 25:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	8.194+/-	2.938	37	N VA 102'	.528+/-	2.137	mph
12	N Dasibi CO	*****+/-*****		38	S BOT PER	5.737+/-	2.322	mph
13	N TOP PAR	-4.311+/-	2.586	39	N VA 74'	-.237+/-	1.748	mph
14	N Dasibi O3	.025+/-	.003	40	S BOT PAR	-2.381+/-	2.165	mph
15	N TOP VER	.303+/-	1.661	41	N GND PER	*****+/-*****		mph
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.236+/-	.979	mph
17	N BOT PER	6.708+/-	2.995	43	N GND PAR	*****+/-*****		mph
19	N BOT PAR	-4.629+/-	2.574	45	N GND VER	*****+/-*****		mph
20	N NO2/TECO	*****+/-*****		49	N EcoLyzer-1	*****+/-*****		ppm
21	N BOT VER	.433+/-	1.496	50	S TOP PER	6.821+/-	2.695	mph
22	N NO/TECO	*****+/-*****		51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	11.626+/-	3.210	52	S TOP PAR	-2.928+/-	2.178	mph
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	153.544+/-	13.288	54	S TOP VER	.129+/-	1.131	mph
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	71.050+/-	2.691	56	S GND PER	3.406+/-	1.993	mph
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	*****+/-*****		ppm
29	N WV 74'	145.460+/-	14.792	58	S GND PAR	-1.777+/-	1.412	mph
30	N CO/Byron	*****+/-*****		59	N Re1 Hum	83.718+/-	1.136	%
31	N 74' Temp	71.122+/-	3.526	60	S GND VER	.270+/-	.719	mph
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	60.108+/-	40.008	W/m**2
35	N HA 74'	10.398+/-	4.081	64	S VA 55'	.516+/-	1.428	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
O1	11 13 15	9.68+/- 3.21	152.8+/- 13.6	2.8+/- 10.8		
O2	17 19 21	8.74+/- 3.17	144.0+/- 16.7	4.0+/- 10.8		
O3	38 40 42	6.58+/- 2.51	159.4+/- 17.7	3.8+/- 12.1		
O4	41 43 45	*****+/-*****		*****+/-*****		
O5	50 52 54	7.74+/- 2.90	157.9+/- 15.1	2.9+/- 11.2		
O6	56 58 60	4.19+/- 1.94	152.0+/- 23.9	6.2+/- 13.9		

Average for 15 minute period ending at 25:15:00  
Regular Channels

Table with 7 columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, N TOP PAR, etc., with their corresponding values and units.

UVW Vector Calculations

Table with 6 columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for channels 01-06.

Average for 15 minute period ending at 25:30:00  
Regular Channels

Table with 7 columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, N TOP PAR, etc., with their corresponding values and units.

UVW Vector Calculations

Table with 6 columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for channels 01-06.

Average for 15 minute period ending at 25:45:00  
Average for 15 minute period ending at 26:00:00  
Average for hourly period ending at 26:00:00  
Regular Channels

Table with 7 columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments like N TOP PER, N Dasibi CO, N TOP PAR, etc., with their corresponding values and units.

UVW Vector Calculations

Table with 6 columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for channels 01-06.



Daily Hourly Average Maximums for each Active Channel

<u>Channel</u>	<u>Time</u>	<u>Value</u>
01	08:00:00	1171 vehicles
02	08:00:00	1289 vehicles
03	08:00:00	1457 vehicles
04	18:00:00	1516 vehicles
05	08:00:00	1404 vehicles
06	18:00:00	1506 vehicles
07	08:00:00	1220 vehicles
08	08:00:00	1177 vehicles
09	17:00:00	596 vehicles
10	18:00:00	508 vehicles
11	25:00:00	8.194 mph
12	08:00:00	3.341 ppm
13	15:00:00	1.690 ppm
14	25:00:00	.025 ppm
15	16:00:00	.341 ppm
16	09:00:00	.270 ppm
17	13:00:00	6.952 mph
19	15:00:00	.849 ppm
20	12:00:00	.027 ppm
21	25:00:00	.433 ppm
22	08:00:00	.251 ppm
23	25:00:00	11.826 mph
24	07:00:00	3.020 ppm
25	08:00:00	169.863 DEGR A2
26	08:00:00	3.509 ppm
27	15:00:00	79.016 DEGR F
28	07:00:00	1.810 ppm
29	08:00:00	160.608 DEGR A2
30	09:00:00	2.890 ppm
31	15:00:00	76.652 DEGR F
32	12:00:00	487.624 ppm
35	25:00:00	10.258 mph
37	16:00:00	.590 mph
38	25:00:00	5.737 mph
39	16:00:00	.138 mph
40	15:00:00	.627 mph
41	17:00:00	3.352 mph
42	14:00:00	.495 mph
43	00:00:00	.000 mph
45	15:00:00	.196 mph
49	09:00:00	2.532 ppm
50	25:00:00	6.821 ppm
51	18:00:00	1.704 ppm
52	15:00:00	1.339 ppm
53	09:00:00	2.890 ppm
54	13:00:00	.448 ppm
55	08:00:00	3.762 ppm
56	25:00:00	3.406 ppm
57	09:00:00	4.045 ppm
58	07:00:00	.132 ppm
59	07:00:00	85.820 %
60	15:00:00	.326 ppm
61	12:00:00	350.078 W/m#2
64	13:00:00	.773 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 13, 1984  
 07:28:34 -- 12/13/84  
 07:28:35 -- Data run 12/13/84. Met conditions--cloudy with brisk SSE winds. Will calibrate B  
 07:28:36 -- YRON and piece online during data run.  
 07:28:58 -- TURNING ON DASIBI CD AND TECO NOX ANALYZERS  
 07:29:31 -- READ ALL ECOLYZER INITIAL ZEROS  
 07:32:37 -- BEGIN CAL. NCO-5 GRD  
 07:41:27 -- END CAL. NCO-5 GRD  
 07:41:42 -- BEGIN CAL. NCO-4 GRD  
 07:49:32 -- END CAL. NCO-4 GRD  
 07:50:26 -- DISREGARD ABOVE SPAN DRIFT VALUE GRD  
 07:50:38 -- BEGIN CAL. NCO-3 GRD  
 07:59:41 -- END CAL. NCO-3 GRD

Average for 15 minute period ending at 07:15:00  
 Average for 15 minute period ending at 07:30:00

Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 07:45:00

Traffic Data  
 Total Traffic = 2838 vehicles averaging 56.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	95	57.4	19	52.5	93	55.1	70	55.6	47	49.0
Cat2	152	56.7	227	55.4	175	56.9	195	56.4	103	48.4
Cat3	31	61.7	43	58.9	27	54.7	20	53.9	5	49.2
Cat4	25	64.4	37	60.9	17	54.2	13	57.2	4	44.8
Cat5	7	65.2	23	62.3	3	57.9	4	57.7	1	44.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	116	60.0	75	55.4	68	54.8	73	56.8	39	46.3
Cat2	198	61.0	245	56.2	189	54.4	188	55.3	68	47.3
Cat3	15	61.8	39	57.5	31	57.3	15	56.8	0	.0
Cat4	6	62.2	17	56.8	31	55.5	7	49.9	0	.0
Cat5	2	61.5	12	58.5	10	57.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.5	715	24.7	55.9	1738	60.0	57.7	226	7.8	58.1	157	5.4	60.2	62	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.901+/-	3.068	37	N VA 102'	.705+/-	2.278
12	N Dasibi CD	2.325+/-	.514	38	S BOT PER	7.050+/-	2.910
13	N TOP PAR	-7.514+/-	3.138	39	N VA 74'	-4.480+/-	1.932
14	N Dasibi D3	.013+/-	.002	40	S BOT PAR	-4.253+/-	2.673
15	N TOP VER	.552+/-	1.776	41	N GND PER	4.535+/-	2.568
16	N NOX/TECO	8.156+/-	2.958	42	S BOT VER	4.419+/-	1.396
17	N BOT PER	8.178+/-	2.958	43	N GND PAR	-7.665+/-	2.767
19	N BOT PAR	-7.891+/-	3.159	45	N GND VER	2.10+/-	1.049
20	N NO2/TECO	.027+/-	.005	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.676+/-	1.493	50	S TOP PER	8.114+/-	2.975
22	N NO/TECO	.129+/-	.034	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	15.312+/-	3.298	52	S TOP PAR	-5.237+/-	2.647
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm

25	N WV 102'	141.069+/-	11.441	DEGR AZ	54	S TOP VER	.352+/-	1.578	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	72.320+/-	3.981	DEGR F	56	S GND PER	4.410+/-	2.576	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	*****+/-	*****	ppm
29	N WV 74'	135.448+/-	13.015	DEGR AZ	58	S GND PAR	-2.419+/-	1.460	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rel Hum	81.534+/-	.264	%
31	N 74' Temp	71.278+/-	2.964	DEGR F	60	S GND VER	.448+/-	1.039	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	11.218+/-	4.905	W/m**2
35	N HA 74'	13.888+/-	3.661	mph	64	S VA 55'	.938+/-	1.954	mph

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	12.84+/-	3.50	143.1+/-	11.7	3.5+/-	8.7
02	17	19	21	11.82+/-	3.29	136.3+/-	13.9	4.0+/-	7.6
03	38	40	42	8.69+/-	3.15	149.5+/-	16.3	4.2+/-	10.3
04	41	43	45	9.36+/-	2.65	120.9+/-	16.5	1.5+/-	6.8
05	50	52	54	10.02+/-	3.36	147.4+/-	12.2	3.3+/-	10.4
06	56	58	60	5.46+/-	2.35	147.8+/-	23.2	6.6+/-	14.6

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2927 vehicles averaging 57.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	58.4	25	53.0	113	56.4	52	56.5	52	50.6
Cat2	158	59.5	240	56.2	207	56.1	227	56.8	79	49.8
Cat3	26	61.9	52	58.5	34	56.7	26	54.8	9	50.7
Cat4	23	64.8	33	61.4	19	57.9	19	56.8	1	52.2
Cat5	17	66.0	19	64.2	1	53.1	4	54.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	120	61.3	83	57.6	104	56.1	88	55.9	49	45.9
Cat2	152	62.6	228	58.1	141	56.8	155	57.2	80	48.2
Cat3	10	65.1	34	60.4	37	56.2	13	55.4	2	42.1
Cat4	8	68.4	23	58.8	26	59.0	5	55.6	0	.0
Cat5	1	58.7	6	58.5	10	56.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	762	26.0	56.8	1707	56.3	57.8	243	8.3	60.2	157	5.4	61.9	58	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.164+/-	3.117	37	N VA 102'	.691+/-	2.276
12	N Dasibi CO	2.296+/-	.374	38	S BOT PER	7.232+/-	2.950
13	N TOP PAR	-5.611+/-	2.873	39	N VA 74'	-.061+/-	1.901
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-3.620+/-	2.606
15	N TOP VER	.803+/-	1.721	41	N GND PER	4.048+/-	2.553
16	N ND/TECO	.169+/-	.045	42	S BOT VER	8.403+/-	1.178
17	N BOT PER	7.749+/-	3.184	43	N GND PAR	-8.514+/-	2.773
19	N BOT PAR	-6.226+/-	2.808	45	N GND VER	.387+/-	.921
20	N NO2/TECO	.029+/-	.005	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.650+/-	1.489	50	S TOP PER	8.417+/-	3.106
22	N NO/TECO	.140+/-	.043	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	14.080+/-	3.372	52	S TOP PAR	-4.559+/-	2.520
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	141.858+/-	13.246	54	S TOP VER	.117+/-	1.377
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	72.737+/-	3.199	56	S GND PER	4.616+/-	2.424
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	-2.769+/-	1.035
29	N WV 74'	140.839+/-	14.095	58	S GND PAR	-2.260+/-	1.655
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	81.648+/-	.669
31	N 74' Temp	71.356+/-	1.946	60	S GND VER	.293+/-	.925
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	20.437+/-	6.981
35	N HA 74'	12.544+/-	3.955	64	S VA 55'	.706+/-	1.810

UWV Vector Calculations									
UWV	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	11.24+/-	3.26	148.4+/-	14.0	4.9+/-	9.3
02	17	19	21	10.42+/-	3.31	140.6+/-	14.3	4.3+/-	8.8
03	38	40	42	8.55+/-	3.05	153.6+/-	17.6	4.0+/-	9.6
04	41	43	45	8.18+/-	2.64	122.0+/-	18.7	3.0+/-	6.7
05	50	52	54	9.94+/-	3.28	151.7+/-	14.0	1.6+/-	8.9
06	56	58	60	5.55+/-	2.27	152.1+/-	21.9	5.0+/-	14.8

Average for hourly period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-	*****	37	N VA 102'	*****+/-	*****
12	N Dasibi CO	*****+/-	*****	38	S BOT PER	*****+/-	*****
13	N TOP PAR	*****+/-	*****	39	N VA 74'	*****+/-	*****
14	N Dasibi O3	*****+/-	*****	40	S BOT PAR	*****+/-	*****
15	N TOP VER	*****+/-	*****	41	N GND PER	*****+/-	*****

16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels	UVW Vector Calculations			
		Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****



08:00:00 -- BEGIN CAL. NCO-2 GRD  
 08:06:05 -- END CAL. NCO-2 GRD  
 08:06:14 -- BEGIN CAL. NCO-1 GRD  
 08:15:26 -- END CAL. NCO-1  
 08:25:00 -- NCO-4 IS VERY ERRATIC WILL TAKE OFF LINE AND INVESTIGATE GRD  
 08:59:29 -- READING BYRON SPANS

Average for 15 minute period ending at 08:15:00  
 Traffic Data  
 Total Traffic = 2577 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	82	57.1	30	53.5	91	55.7	56	57.4	43	48.8
Cat2	150	59.6	193	56.1	166	57.1	182	57.6	83	50.8
Cat3	21	62.9	54	60.4	30	54.9	23	57.2	7	51.0
Cat4	21	64.3	34	63.2	13	56.3	16	57.6	1	54.0
Cat5	6	65.7	18	65.5	3	61.3	3	55.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	62.3	71	58.2	83	56.7	75	56.3	45	45.9
Cat2	147	63.4	195	59.3	140	58.5	177	56.9	69	47.8
Cat3	23	63.4	26	59.2	42	58.5	17	56.7	3	46.8
Cat4	8	65.0	19	59.6	18	60.0	6	55.3	0	.0
Cat5	1	67.3	7	62.3	5	62.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	650	25.2	57.5	1502	58.3	58.8	246	9.5	60.8	136	5.3	63.7	43	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.115+/-	3.150	37	N VA 102'	1.072+/-	2.217
12	N Dasibi CD	1.814+/-	.422	38	S BOT PER	7.438+/-	3.112
13	N TOP PAR	-7.469+/-	3.337	39	N VA 74'	-4.423+/-	2.069
14	N Dasibi D3	.015+/-	.004	40	S BOT PAR	-4.832+/-	3.367
15	N TOP VER	.441+/-	2.154	41	N GND PER	4.397+/-	2.347
16	N NOX/TECO	.147+/-	.047	42	S BOT VER	.232+/-	1.370
17	N BOT PER	8.305+/-	3.031	43	N GND PAR	-7.542+/-	3.124
18	N BOT PAR	-7.972+/-	3.614	44	N GND VER	.267+/-	.971
19	N NO2/TECO	.025+/-	.005	45	N Ecolyzer-1	*****+/-*****	
20	N BOT VER	.565+/-	1.653	46	S TOP PER	8.755+/-	2.767
21	N ND/TECO	.121+/-	.045	47	N Ecolyzer-2	*****+/-*****	
22	N HA 102'	15.578+/-	4.031	48	S TOP PAR	-5.900+/-	3.550
23	N THC/Byron	*****+/-*****		49	N Ecolyzer-3	1.465+/-	.433
24	N WV 102'	143.779+/-	13.147	50	S TOP VER	.440+/-	1.605
25	N MMHC/Byro	*****+/-*****		51	N Ecolyzer-4	1.384+/-	.630
26	N Gnd Temp	72.607+/-	1.576	52	S GND PER	4.738+/-	2.771
27	N CH4/Byron	*****+/-*****		53	N Ecolyzer-5	2.186+/-	.878
28	N WV 74'	136.421+/-	12.852	54	N GND PAR	-2.677+/-	1.825
29	N CD/Byron	*****+/-*****		55	N Re1 Hum	82.039+/-	.244
30	N 74' Temp	71.278+/-	3.334	56	S GND VER	.318+/-	1.039
31	N CO2/Byron	*****+/-*****		57	N Solar Rad	37.287+/-	3.535
32	N HA 74'	14.250+/-	3.952	58	S VA 55'	1.181+/-	1.880
33				59			
34				60			
35				61			
				62			
				63			
				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	13.06+/- 3.67	143.9+/- 12.5	3.0+/- 10.1
02	17 19 21	12.01+/- 3.68	136.9+/- 14.2	3.8+/- 8.5
03	38 40 42	9.47+/- 3.45	148.1+/- 18.1	3.2+/- 11.1
04	41 43 45	9.15+/- 2.96	121.3+/- 16.5	1.5+/- 7.3
05	50 52 54	11.06+/- 3.50	147.9+/- 14.8	3.6+/- 10.2
06	56 58 60	5.99+/- 2.43	149.3+/- 25.4	5.2+/- 15.1

Average for 15 minute period ending at 08:30:00  
 Traffic Data  
 Total Traffic = 2484 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	57.1	42	54.8	97	56.0	60	58.1	31	50.3
Cat2	144	59.6	207	57.0	172	57.2	175	58.6	67	50.6
Cat3	29	63.4	46	59.1	40	58.2	13	55.9	3	51.4
Cat4	18	65.4	31	62.3	12	59.8	16	56.5	3	46.8
Cat5	11	70.3	20	66.0	4	61.3	6	71.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	62.3	67	57.7	78	58.5	84	57.4	33	47.3
Cat2	144	63.8	172	59.5	153	58.7	149	58.1	50	47.3
Cat3	17	63.6	39	60.5	33	58.0	12	59.6	1	50.4
Cat4	6	68.0	19	62.7	21	58.0	7	58.6	0	.0
Cat5	4	68.5	4	61.9	2	59.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	635	25.6	58.1	1433	57.7	58.1	232	9.3	61.0	133	5.4	66.1	51	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.677+/-	3.602	37	N VA 102'	.524+/-	2.396
12	N Dasibi CD	1.938+/-	.277	38	S BOT PER	7.648+/-	3.268
13	N TOP PAR	-7.804+/-	3.014	39	N VA 74'	-.502+/-	2.009
14	N Dasibi D3	.022+/-	.050	40	S BOT PAR	-4.181+/-	2.727
15	N TOP VER	.649+/-	1.874	41	N GND PER	5.094+/-	2.658
16	N NOX/TECO	.154+/-	.035	42	S BOT VER	.407+/-	1.337
17	N BOT PER	8.698+/-	3.830	43	N GND PAR	-7.506+/-	2.875
18	N BOT PAR	-8.021+/-	3.082	44	N GND VER	1.419+/-	1.085
19	N NO2/TECO	.028+/-	.004	45	N Ecolyzer-1	1.176+/-	.263
20	N BOT VER	.735+/-	1.560	46	S TOP PER	9.228+/-	3.392
21	N ND/TECO	.126+/-	.034	47	N Ecolyzer-2	1.637+/-	.410
22	N HA 102'	18.623+/-	4.086	48	S TOP PAR	-5.547+/-	2.976
23	N THC/Byron	*****+/-*****		49	N Ecolyzer-3	1.398+/-	.432
24	N WV 102'	142.402+/-	10.986	50	S TOP VER	.273+/-	1.640
25	N MMHC/Byro	*****+/-*****		51	N Ecolyzer-4	*****+/-*****	
26	N Gnd Temp	72.529+/-	1.420	52	S GND PER	4.808+/-	2.660
27	N CH4/Byron	*****+/-*****		53	N Ecolyzer-5	2.176+/-	.866
28	N WV 74'	136.756+/-	12.766	54	S GND PAR	-2.779+/-	1.843
29	N CD/Byron	*****+/-*****		55	N Re1 Hum	81.697+/-	.242
30	N 74' Temp	72.866+/-	3.404	56	S GND VER	.637+/-	1.322
31	N CO2/Byron	*****+/-*****		57	N Solar Rad	50.003+/-	5.693
32				58			
				59			
				60			
				61			

UWV	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	13.43+/- 3.78	145.0+/- 12.0	3.6+/- 8.5
02	17 19 21	12.33+/- 3.69	136.7+/- 14.1	4.2+/- 8.2
03	38 40 42	9.23+/- 3.28	151.1+/- 17.6	3.9+/- 9.5
04	41 43 45	9.55+/- 2.79	124.7+/- 17.3	2.6+/- 6.8
05	50 52 54	11.18+/- 3.74	149.3+/- 13.2	3.0+/- 9.5
06	56 58 60	6.12+/- 2.45	147.9+/- 21.3	8.5+/- 17.3

Average for 15 minute period ending at 08:45:00  
 Traffic Data  
 Total Traffic = 2342 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1	Radar 3	Radar 5	Radar 7	Radar 9
	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	64 58.6	40 54.8	63 58.2	50 59.4	24 51.5
Cat2	129 59.8	173 57.6	138 58.1	157 58.7	73 49.9
Cat3	26 61.8	49 59.6	31 58.0	19 58.3	4 44.3
Cat4	14 64.4	22 63.9	14 56.5	15 60.4	6 44.6
Cat5	4 66.7	17 64.5	4 59.9	6 54.4	0 .0

Eastbound Traffic

	Radar 2	Radar 4	Radar 6	Radar 8	Radar 10
	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	78 60.7	58 56.6	70 57.7	72 56.5	20 48.5
Cat2	155 62.3	167 58.0	145 58.5	164 58.7	60 45.4
Cat3	12 63.1	37 58.7	34 57.4	19 58.5	2 37.8
Cat4	11 64.2	27 59.7	22 58.0	6 57.3	1 33.9
Cat5	1 69.2	6 60.2	11 59.7	2 53.5	0 .0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	559	23.9	57.6	1361	58.1	58.7	233	9.9	59.7	138	5.9	61.2	51	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	11.617+/- 3.948	mph	37	N VA 102'	.820+/- 2.730	mph
12	N Dasibi CO	1.518+/- .302	ppm	38	S BDT PER	8.988+/- 3.920	mph
13	N TOP PAR	-8.256+/- 3.717	mph	39	N VA 74'	-.419+/- 2.417	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BDT PAR	-5.132+/- 3.127	mph
15	N TOP VER	.617+/- 2.089	mph	41	N GND PER	5.778+/- 3.114	mph
16	N NOX/TECO	.128+/- .037	ppm	42	S BDT VER	.162+/- 1.373	mph
17	N BDT PER	9.511+/- 3.476	mph	43	N GND PAR	-7.995+/- 3.768	mph
19	N BDT PAR	-8.671+/- 3.724	mph	45	N GND VER	1.100+/- 1.187	ppm
20	N ND2/TECO	.024+/- .004	ppm	49	N Ecolyzer-1	.945+/- .205	ppm
21	N BDT VER	.895+/- 1.670	mph	50	S TOP PER	10.275+/- 3.914	mph
22	N NO/TECO	.104+/- .036	ppm	51	N Ecolyzer-2	1.565+/- .252	ppm
23	N HA 102'	18.367+/- 4.258	mph	52	S TOP PAR	-6.202+/- 3.118	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.212+/- .374	ppm
25	N WV 102'	143.417+/- 11.216	DEGR AZ	54	S TOP VER	1.232+/- 1.620	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N GND Temp	72.868+/- 2.807	DEGR F	56	S GND PER	5.798+/- 3.150	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.384+/- 1.350	ppm
29	N WV 74'	137.039+/- 11.266	DEGR AZ	58	S GND PAR	-3.144+/- 1.736	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.469+/- .345	%
31	N 74' Temp	71.044+/- 2.707	DEGR F	60	S GND VER	4.06+/- .970	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	57.270+/- 16.895	W/m**2
35	N HA 74'	16.934+/- 4.740	mph	64	S VA 55'	.891+/- 1.954	mph

UWV	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	14.78+/- 4.32	144.9+/- 12.5	3.3+/- 8.5
02	17 19 21	13.40+/- 3.96	138.2+/- 13.3	4.6+/- 7.4
03	38 40 42	10.89+/- 3.89	149.3+/- 16.8	1.7+/- 8.4
04	41 43 45	10.54+/- 3.40	126.6+/- 19.1	.8+/- 7.4
05	50 52 54	12.43+/- 4.13	148.8+/- 13.1	2.3+/- 8.4
06	56 58 60	6.98+/- 2.96	148.2+/- 18.9	4.9+/- 11.0

Average for 15 minute period ending at 08:00:00  
 Traffic Data  
 Total Traffic = 2327 vehicles averaging 58.0 mph

Westbound Traffic

	Radar 1	Radar 3	Radar 5	Radar 7	Radar 9
	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	61 58.8	34 55.2	90 57.5	41 57.8	28 51.1
Cat2	142 60.2	183 57.5	171 58.3	142 58.5	81 51.5
Cat3	25 61.0	45 59.7	26 57.7	19 57.9	5 50.6
Cat4	14 64.3	37 61.8	13 59.6	8 61.8	4 48.8
Cat5	3 64.1	13 63.7	3 61.9	3 59.2	0 .0

Eastbound Traffic

	Radar 2	Radar 4	Radar 6	Radar 8	Radar 10
	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.
Cat1	75 60.7	62 56.9	97 57.2	79 56.6	27 44.3
Cat2	142 62.6	149 58.2	136 57.7	166 57.7	35 44.9
Cat3	21 62.6	35 58.7	31 57.4	8 55.0	1 42.8
Cat4	8 65.6	18 57.7	22 60.9	7 59.0	0 .0
Cat5	4 65.8	3 62.5	9 60.3	1 58.3	0 .0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	594	25.5	58.0	1347	57.9	58.8	216	9.3	60.8	131	5.6	62.5	39	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.425+/- 3.368	mph	37	N VA 102'	.788+/- 2.158	mph
12	N Dasibi CO	1.762+/- .287	ppm	38	S BDT PER	7.004+/- 2.946	mph
13	N TOP PAR	-6.070+/- 3.044	mph	39	N VA 74'	-.553+/- 1.938	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BDT PAR	-3.186+/- 2.777	mph
15	N TOP VER	.232+/- 1.828	mph	41	N GND PER	4.679+/- 2.847	mph
16	N NOX/TECO	.141+/- .036	ppm	42	S BDT VER	.309+/- 1.170	mph
17	N BDT PER	8.442+/- 3.282	mph	43	N GND PAR	-6.329+/- 2.938	mph
19	N BDT PAR	-6.457+/- 2.986	mph	45	N GND VER	1.140+/- 1.089	ppm
20	N ND2/TECO	.024+/- .004	ppm	49	N Ecolyzer-1	1.073+/- .216	ppm
21	N BDT VER	.400+/- 1.418	mph	50	S TOP PER	8.110+/- 3.208	mph
22	N NO/TECO	.117+/- .035	ppm	51	N Ecolyzer-2	1.865+/- .211	ppm
23	N HA 102'	14.595+/- 4.022	mph	52	S TOP PAR	-3.787+/- 2.529	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.100+/- .368	ppm

25	N WV 102'	149.505+/-	11.112	DEGR AZ	54	S TDP VER	.254+/-	1.410	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N EcoLyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	73.483+/-	2.890	DEGR F	56	S GND PER	4.592+/-	2.281	ppm
28	N CH4/Byron	*****+/-	*****	ppm	57	N EcoLyzer-5	1.857+/-	1.171	ppm
29	N WV 74'	143.204+/-	11.763	DEGR AZ	58	S GND PAR	-2.355+/-	1.830	ppm
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	81.762+/-	.258	%
31	N 74' Temp	70.914+/-	3.524	DEGR F	60	S GND VER	.431+/-	1.009	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	45.779+/-	25.885	W/m**2
35	N HA 74'	13.546+/-	4.039	mph	64	S VA 55'	.864+/-	1.776	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	12.47+/-	3.73	150.1+/-	12.4	2.0+/-	8.4
02	17	19	21	11.07+/-	3.50	142.6+/-	14.4	3.0+/-	8.2
03	38	40	42	8.22+/-	3.08	156.5+/-	18.2	3.8+/-	10.8
04	41	43	45	8.47+/-	2.84	125.9+/-	19.8	1.4+/-	8.0
05	50	52	54	9.38+/-	3.29	155.0+/-	14.5	3.5+/-	11.5
06	56	58	60	5.55+/-	2.36	152.8+/-	21.1	7.5+/-	16.2

Average for hourly period ending at 09:00:00  
 Traffic Data  
 Total Traffic = 9730 vehicles averaging 57.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	272	57.8	148	54.6	361	56.8	207	58.2	126	50.5
Cat2	565	59.8	756	57.1	647	57.7	656	58.3	304	50.8
Cat3	101	61.1	193	59.8	127	57.3	74	57.5	19	49.6
Cat4	67	64.9	124	62.7	52	58.0	55	58.7	14	47.0
Cat5	24	67.8	68	64.5	14	61.0	18	61.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	305	61.5	258	57.4	328	58.0	310	56.7	125	45.7
Cat2	588	63.0	683	58.8	574	58.4	656	57.3	214	46.6
Cat3	73	63.2	137	59.3	140	57.9	56	57.7	7	44.2
Cat4	33	65.4	83	59.9	83	59.2	26	57.7	1	33.9
Cat5	10	67.4	20	61.6	27	60.4	3	55.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	2438	25.1	57.8	5843	58.0	58.8	927	9.5	60.6	538	5.5	63.4	184	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	10.709+/-	3.567	37	N VA 102'	.801+/-	2.389
12	N Dasibi CD	1.783+/-	.367	38	S BOT PER	7.754+/-	3.405
13	N TDP PAR	-7.300+/-	3.376	39	N VA 74'	-4.474+/-	2.114
14	N Dasibi D3	.017+/-	.025	40	S BOT PAR	-4.333+/-	3.086
15	N TDP VER	.485+/-	1.894	41	N GND PER	4.987+/-	2.801
16	N NOX/TECO	.142+/-	.040	42	S BOT VER	.277+/-	1.315
17	N BOT PER	8.739+/-	3.388	43	N GND PAR	-7.343+/-	3.248
19	N BOT PAR	-7.780+/-	3.459	45	N GND VER	.232+/-	1.091
20	N NO2/TECO	.025+/-	.005	49	N EcoLyzer-1	*****+/-	*****
21	N BOT VER	.649+/-	1.586	50	S TDP PER	9.092+/-	3.431
22	N NO/TECO	.117+/-	.038	51	N EcoLyzer-2	1.711+/-	.322
23	N HA 102'	16.281+/-	4.324	52	S TDP PAR	-5.359+/-	3.202
24	N THC/Byron	*****+/-	*****	53	N EcoLyzer-3	1.294+/-	.428
25	N WV 102'	144.777+/-	11.939	54	S TDP VER	.300+/-	1.570
26	N NMHC/Byro	*****+/-	*****	55	N EcoLyzer-4	*****+/-	*****
27	N Gnd Temp	72.874+/-	2.251	56	S GND PER	4.984+/-	2.768
28	N CH4/Byron	*****+/-	*****	57	N EcoLyzer-5	1.900+/-	1.137
29	N WV 74'	138.356+/-	12.409	58	S GND PAR	-2.739+/-	1.827
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	81.742+/-	.341
31	N 74' Temp	71.526+/-	3.271	60	S GND VER	.448+/-	1.098
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	47.585+/-	17.048
35	N HA 74'	14.874+/-	4.408	64	S VA 55'	.963+/-	1.893

UVW Vector Calculations

UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	13.44+/-	3.97	146.0+/-	12.5	3.0+/-	8.9
02	17	19	21	12.20+/-	3.79	138.6+/-	14.2	3.9+/-	8.1
03	38	40	42	9.45+/-	3.56	151.3+/-	17.9	3.1+/-	10.0
04	41	43	45	9.43+/-	3.09	124.8+/-	18.3	1.6+/-	7.4
05	50	52	54	11.01+/-	3.83	150.3+/-	14.2	3.1+/-	10.0
06	56	58	60	8.16+/-	2.61	149.5+/-	21.8	6.5+/-	15.1

09:25:49 -- BEGIN CALIBRATION OF ECOLYZERS  
 09:25:57 -- CALIBRATION CH 57 NCO-5  
 09:35:35 -- END CAL. NCO-5 GRD  
 09:36:02 -- BEGIN CAL. NCO-4 GRD  
 09:39:52 -- CANNOT CAL. NCO-4 GRD  
 09:40:04 -- BEGIN CAL. NCO-3 GRD  
 09:49:55 -- END CAL. NCO-3  
 09:50:29 -- BEGIN CAL. NCO-2  
 09:59:41 -- END CAL. NCO-2  
 09:59:50 -- BEGIN CAL. NCO-1

Average for 15 minute period ending at 09:15:00  
 Traffic Data  
 Total Traffic = 2201 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	58.3	27	54.4	75	58.4	36	58.7	19	51.0
Cat2	107	60.6	174	57.0	160	58.8	128	59.8	89	51.3
Cat3	28	61.9	38	61.3	25	58.6	30	60.4	3	47.3
Cat4	15	65.1	25	62.9	11	56.4	6	58.1	1	46.5
Cat5	8	66.3	21	65.1	2	60.0	1	52.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	61.7	51	57.8	58	58.9	76	57.2	18	48.0
Cat2	150	63.7	179	59.1	139	58.9	155	58.3	39	47.3
Cat3	16	63.4	36	58.3	33	58.9	16	59.3	0	.0
Cat4	12	65.0	22	61.6	28	59.0	10	61.5	0	.0
Cat5	4	62.4	3	64.2	9	59.3	2	63.7	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	466	21.2	58.5	1330	60.4	59.9	225	10.2	61.3	130	5.9	63.5	50	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	11.746+/-	4.163	37	N VA 102'	.012+/-	2.444
12	N Dasibi CD	1.387+/-	.359	38	S BDT PER	8.240+/-	3.167
13	N TDP PAR	-6.092+/-	3.050	39	N VA 74'	-5.75+/-	2.202
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	-3.611+/-	2.618
15	N TDP VER	.463+/-	1.859	41	N GND PER	4.944+/-	3.128
16	N ND2/TECD	.116+/-	.040	42	S BDT VER	.423+/-	1.341
17	N BDT PER	9.624+/-	3.930	43	N GND PAR	-6.407+/-	3.243
19	N BDT PAR	-6.720+/-	2.887	45	N GND VER	.415+/-	1.112
20	N ND2/TECD	.021+/-	.005	49	N Ecolyzer-1	1.038+/-	.235
21	N BDT VER	.538+/-	1.785	50	S TDP PER	9.700+/-	3.528
22	N ND/TECD	.085+/-	.036	51	N Ecolyzer-2	1.826+/-	.230
23	N HA 102'	16.914+/-	4.574	52	S TDP PAR	-4.633+/-	2.985
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.124+/-	.420
25	N WV 102'	152.085+/-	12.983	54	S TDP VER	.279+/-	1.678
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	73.936+/-	2.822	56	S GND PER	5.246+/-	2.781
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	1.494+/-	.964
29	N WV 74'	144.201+/-	13.645	58	S GND PAR	-2.286+/-	1.805
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	81.404+/-	.501
31	N 74' Temp	71.669+/-	2.598	60	S GND VER	.440+/-	1.065
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	161.626+/-	59.726
35	N HA 74'	15.250+/-	4.891	64	S VA 55'	.876+/-	1.987

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	13.68+/- 4.25	152.4+/- 12.5	3.1+/- 8.8
02	17 19 21	12.24+/- 3.97	144.1+/- 14.1	3.6+/- 10.0
03	38 40 42	9.47+/- 3.16	156.3+/- 16.2	3.9+/- 10.5
04	41 43 45	8.70+/- 3.37	126.4+/- 20.2	3.4+/- 9.1
05	50 52 54	11.18+/- 3.95	154.9+/- 13.3	2.7+/- 8.4
06	56 58 60	6.21+/- 2.55	154.5+/- 23.2	6.4+/- 14.2

Average for 15 minute period ending at 09:30:00  
 Traffic Data  
 Total Traffic = 2049 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	56.8	23	56.2	78	57.9	20	59.5	15	52.2
Cat2	111	58.9	171	57.3	160	58.2	131	60.3	80	50.8
Cat3	21	63.2	48	60.0	28	59.0	21	59.5	5	51.7
Cat4	12	66.2	30	62.5	11	60.6	9	60.1	1	46.9
Cat5	7	65.7	15	64.2	2	73.0	6	63.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	63.0	53	56.3	52	58.3	54	57.7	14	47.1
Cat2	155	64.2	140	59.7	123	60.8	107	59.5	57	46.8
Cat3	11	64.2	41	58.8	37	59.7	17	58.8	1	35.1
Cat4	12	64.3	12	60.4	25	58.8	6	58.1	0	.0
Cat5	2	70.3	5	63.8	8	62.3	1	68.3	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	424	20.7	58.6	1235	60.3	59.9	228	11.1	61.6	118	5.8	64.8	44	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	9.505+/-	3.364	37	N VA 102'	.544+/-	2.362
12	N Dasibi CD	1.485+/-	.378	38	S BDT PER	6.400+/-	2.738
13	N TDP PAR	-4.272+/-	2.917	39	N VA 74'	-.220+/-	1.899
14	N Dasibi O3	.016+/-	.003	40	S BDT PAR	-2.414+/-	2.407
15	N TDP VER	.298+/-	1.678	41	N GND PER	4.324+/-	2.595
16	N ND2/TECD	.141+/-	.037	42	S BDT VER	.239+/-	1.095
17	N BDT PER	7.802+/-	3.591	43	N GND PAR	-4.925+/-	3.009
19	N BDT PAR	-4.783+/-	2.909	45	N GND VER	-.287+/-	.998
20	N ND2/TECD	.024+/-	.004	49	N Ecolyzer-1	1.033+/-	.208
21	N BDT VER	.411+/-	1.455	50	S TDP PER	7.835+/-	3.123
22	N ND/TECD	.117+/-	.036	51	N Ecolyzer-2	1.481+/-	.235
23	N HA 102'	12.992+/-	3.393	52	S TDP PAR	-2.815+/-	2.437
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.077+/-	.442
25	N WV 102'	156.481+/-	14.459	54	S TDP VER	-.027+/-	1.272
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	73.337+/-	2.318	56	S GND PER	4.038+/-	2.114
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****



29	N WV 74'	150.545+/-	13.836	DEGR AZ	58	S GND PAR	-1.782+/-	1.727	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	81.290+/-	.254	%
31	N 74' Temp	73.076+/-	3.312	DEGR F	60	S GND VER	.333+/-	.826	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	80.286+/-	27.572	W/m <sup>2</sup> =2
35	N HA 74'	12.113+/-	3.937	mph	64	S VA 55'	.537+/-	1.798	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	10.89+/-	3.58	155.8+/-	14.7	2.7+/-	9.3
02	17	19	21	9.68+/-	3.89	148.0+/-	17.4	3.6+/-	9.1
03	38	40	42	7.27+/-	2.90	161.9+/-	21.0	4.1+/-	10.7
04	41	43	45	7.12+/-	3.02	132.6+/-	22.5	2.5+/-	9.9
05	50	52	54	8.73+/-	3.22	161.7+/-	19.3	1.7+/-	11.6
06	56	58	60	4.82+/-	2.10	157.0+/-	22.9	7.0+/-	14.2

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic : 2151 vehicles averaging 57.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	57.5	42	54.5	71	56.6	34	57.6	20	49.9
Cat2	119	59.2	157	56.9	154	58.2	128	59.9	79	49.7
Cat3	22	60.0	37	59.0	36	59.0	18	59.0	6	50.3
Cat4	19	63.2	36	62.3	11	57.6	7	60.1	6	48.3
Cat5	7	65.4	10	64.7	1	63.1	3	64.0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	60.3	44	57.8	68	57.6	65	55.5	18	43.8
Cat2	172	61.7	182	58.6	136	58.4	141	55.5	51	43.9
Cat3	20	64.5	34	58.6	31	56.6	10	54.2	1	48.7
Cat4	15	63.1	16	59.5	12	58.1	4	52.4	0	0
Cat5	3	64.0	9	58.8	7	60.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	471	21.9	57.5	1299	60.4	58.7	215	10.0	60.3	126	5.9	62.7	40	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.502+/-	3.213	37	N VA 102'	1.061+/-	2.073
12	N Dasibi CO	1.603+/-	.328	38	S BOT PER	7.008+/-	2.767
13	N TOP PAR	-5.208+/-	3.013	39	N VA 74'	.016+/-	1.836
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	-3.216+/-	2.781
15	N TOP VER	.773+/-	1.593	41	N GND PER	4.217+/-	2.688
16	N NDX/TECO	.132+/-	.031	42	S BOT VER	.358+/-	1.083
17	N BOT PER	8.123+/-	3.544	43	N GND PAR	-5.650+/-	3.045
19	N BOT PAR	-5.792+/-	2.997	45	N GND VER	.415+/-	.942
20	N ND2/TECO	.024+/-	.005	49	N Ecolyzer-1	1.046+/-	.240
21	N BOT VER	.554+/-	1.258	50	S TOP PER	8.549+/-	3.008
22	N ND/TECO	.109+/-	.029	51	N Ecolyzer-2	1.301+/-	.237
23	N HA 102'	13.727+/-	3.211	52	S TOP PAR	-4.039+/-	2.523
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	148.782+/-	14.240	54	S TOP VER	4.314+/-	1.258
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	73.623+/-	1.775	56	S GND PER	4.416+/-	2.013
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	142.861+/-	12.803	58	S GND PAR	-2.216+/-	1.662
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	81.925+/-	.485
31	N 74' Temp	72.607+/-	3.188	60	S GND VER	.279+/-	.801
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	38.331+/-	7.778
35	N HA 74'	12.360+/-	3.907	64	S VA 55'	.889+/-	1.555

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (deg)			
01	11	13	15	11.37+/-	3.25	151.0+/-	15.0	5.0+/-	8.8
02	17	19	21	10.51+/-	3.53	143.5+/-	16.2	4.3+/-	8.4
03	38	40	42	8.28+/-	2.75	156.1+/-	19.9	3.5+/-	10.3
04	41	43	45	7.78+/-	2.55	127.0+/-	23.3	3.1+/-	7.6
05	50	52	54	9.87+/-	3.01	154.4+/-	14.9	2.7+/-	8.4
06	56	58	60	5.32+/-	1.90	152.4+/-	22.1	5.4+/-	14.4

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic : 2033 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	58.7	42	54.5	72	57.2	40	59.6	21	50.6
Cat2	107	60.0	186	57.3	157	58.5	111	59.8	92	50.7
Cat3	21	60.4	27	59.4	31	57.1	17	58.8	6	49.8
Cat4	21	64.8	19	62.4	13	56.8	10	60.9	2	40.8
Cat5	6	67.8	10	67.0	3	72.6	3	60.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	62.4	39	58.5	60	59.6	57	58.4	14	46.8
Cat2	155	64.2	128	60.1	115	59.4	130	59.6	45	46.6
Cat3	6	61.1	44	60.4	27	58.5	12	58.1	1	40.1
Cat4	18	65.0	19	60.7	14	59.4	5	58.2	0	0
Cat5	5	65.6	8	59.7	10	62.2	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	451	22.2	58.6	1224	60.2	58.8	192	9.4	61.3	121	6.0	64.5	45	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.991+/-	2.734	37	N VA 102'	.479+/-	2.308
12	N Dasibi CO	1.525+/-	.317	38	S BOT PER	6.197+/-	2.087
13	N TOP PAR	-5.639+/-	3.068	39	N VA 74'	-1.373+/-	1.779
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	-3.200+/-	2.410
15	N TOP VER	.257+/-	1.592	41	N GND PER	3.981+/-	2.098
16	N NDX/TECO	.136+/-	.042	42	S BOT VER	.336+/-	1.054
17	N BOT PER	7.395+/-	2.454	43	N GND PAR	-6.308+/-	2.566
19	N BOT PAR	-6.076+/-	2.832	45	N GND VER	.141+/-	.888
20	N ND2/TECO	.023+/-	.005	49	N Ecolyzer-	.993+/-	.231

21	N BDT VER	.470+/-	1.177	mph	50	S TOP PER	7.531+/-	2.399	mph
22	N ND/TECO	.113+/-	.038	ppm	51	N EcoLyzer-2	*****+/-*****		ppm
23	N HA 102'	13.748+/-	3.566	mph	52	S TOP PAR	-3.823+/-	2.229	mph
24	N THC/Byron	*****+/-*****		ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	148.383+/-	12.871	DEGR AZ	54	S TOP VER	.409+/-	1.228	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	73.675+/-	2.932	DEGR F	56	S GND PER	3.706+/-	1.721	mph
28	N CH4/Byron	*****+/-*****		ppm	57	N EcoLyzer-5	1.897+/-	1.109	ppm
29	N WV 74'	141.493+/-	11.979	DEGR AZ	58	S GND PAR	-2.154+/-	1.475	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	82.055+/-	.405	%
31	N 74' Temp	72.789+/-	2.691	DEGR F	60	S GND VER	.310+/-	.824	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	138.973+/-	25.733	W/m**2
35	N HA 74'	12.738+/-	3.852	mph	64	S VA 55'	1.000+/-	1.577	mph

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	11.03+/-	3.22	148.7+/-	13.6	2.2+/-	8.8	
02	17	19	21	9.97+/-	2.78	141.0+/-	14.5	3.4+/-	7.7	
03	38	40	42	7.42+/-	2.21	154.3+/-	19.0	3.6+/-	9.4	
04	41	43	45	7.87+/-	2.33	122.9+/-	18.0	1.4+/-	6.9	
05	50	52	54	8.80+/-	2.51	153.5+/-	14.2	4.1+/-	9.8	
06	56	58	60	4.65+/-	1.64	148.6+/-	21.1	5.3+/-	15.4	

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 8434 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	197	57.8	134	54.8	296	57.5	130	58.8	75	50.8
Cat2	444	59.7	588	57.1	631	58.4	498	60.0	340	50.6
Cat3	92	61.4	150	60.0	118	58.4	86	59.6	20	50.1
Cat4	67	64.7	110	62.5	46	57.8	32	60.0	10	46.5
Cat5	28	66.3	56	65.1	8	68.4	13	62.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	238	61.8	187	57.5	238	58.6	252	57.1	64	46.4
Cat2	642	63.4	607	59.3	513	59.3	538	58.1	192	46.0
Cat3	53	63.7	155	59.4	128	58.5	55	58.0	3	41.3
Cat4	57	64.4	69	60.6	79	59.2	25	58.6	0	.0
Cat5	14	65.0	25	60.7	32	61.1	3	65.2	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5			
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
57.4	1812	21.5	58.3	5088	60.3	59.4	880	10.2	61.1	495	5.9
									63.9	179	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.936+/-	3.564	37	N VA 102'	.524+/-	2.326
12	N Desibi CO	1.500+/-	.354	38	S BDT PER	6.961+/-	2.826
13	N TOP PAR	-5.303+/-	3.080	39	N VA 74'	-.288+/-	1.844
14	N Desibi O3	.016+/-	.003	40	S BDT PAR	-3.110+/-	2.590
15	N TOP VER	.448+/-	1.693	41	N GND PER	4.367+/-	2.665
16	N ND/TECO	.131+/-	.039	42	S BDT VER	.339+/-	1.148
17	N BDT PER	8.236+/-	3.520	43	N GND PAR	-5.822+/-	3.029
19	N BDT PAR	-5.843+/-	3.008	45	N GND VER	.314+/-	.991
20	N ND2/TECO	.023+/-	.005	49	N EcoLyzer-1	1.028+/-	.230
21	N BDT VER	.484+/-	1.438	50	S TOP PER	8.404+/-	3.179
22	N ND/TECO	.108+/-	.036	51	N EcoLyzer-2	1.504+/-	.316
23	N HA 102'	14.345+/-	4.013	52	S TOP PAR	-3.827+/-	2.835
24	N THC/Byron	*****+/-*****		53	N EcoLyzer-3	1.147+/-	.437
25	N WV 102'	151.429+/-	13.888	54	S TOP VER	.244+/-	1.378
26	N NMHC/Byro	*****+/-*****		55	N EcoLyzer-4	*****+/-*****	
27	N Gnd Temp	73.643+/-	2.449	56	S GND PER	4.352+/-	2.262
28	N CH4/Byron	*****+/-*****		57	N EcoLyzer-5	1.703+/-	1.066
29	N WV 74'	144.764+/-	13.486	58	S GND PAR	-2.110+/-	1.680
30	N CO/Byron	*****+/-*****		59	N Rel Hum	81.668+/-	.526
31	N 74' Temp	72.535+/-	2.935	60	S GND VER	.340+/-	.886
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	104.809+/-	59.937
35	N HA 74'	13.115+/-	4.345	64	S VA 55'	.825+/-	1.743

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	11.74+/-	3.76	152.0+/-	14.2	3.3+/-	9.0	
02	17	19	21	10.60+/-	3.65	144.1+/-	15.8	3.7+/-	8.8	
03	38	40	42	8.11+/-	2.91	157.1+/-	19.2	3.7+/-	10.2	
04	41	43	45	7.87+/-	2.90	127.2+/-	21.3	2.6+/-	8.5	
05	50	52	54	9.64+/-	3.36	156.1+/-	15.9	2.8+/-	9.9	
06	56	58	60	5.25+/-	2.16	153.1+/-	22.4	6.0+/-	14.5	

10:05:08 -- THE LAST SPAN DRIFT VALUES SHOULD BE DISREGARDED FOR NCD-2 REC. TYPE 2 WAS USED BY  
 10:05:12 -- MISTAKE  
 10:31:10 -- REPLACED MERCURY BATTERY ON NCD-4 GRD  
 10:31:55 -- READ NEW SPAN AND ZERO VALUES  
 10:39:38 -- RESTART 1  
 10:39:39 -- 12/13/84  
 10:39:40 -- THIS IS A 12/13/84 RESTART. IT IS THE FIRST RESTART OF THE DAY  
 10:40:39 -- PLACING CD-4 Ch 55 ONLINE  
 10:47:09 -- BEGIN RECAL. NCD-2 GRD  
 10:47:29 -- IT LOOKS LIKE IT IS READING HIGH GRD

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1995 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	57.9	48	55.6	73	58.6	27	59.6	15	49.9
Cat2	104	61.1	158	57.6	144	59.4	114	60.0	69	50.8
Cat3	17	61.7	27	60.0	28	58.5	16	60.9	7	47.0
Cat4	11	62.3	18	62.4	14	59.2	6	60.8	1	45.1
Cat5	4	68.8	10	67.2	0	0	3	54.0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	62.7	57	58.9	60	60.2	55	58.8	11	47.6
Cat2	189	64.3	145	60.2	118	61.3	111	59.5	42	48.3
Cat3	24	64.9	35	59.7	31	59.3	13	61.2	0	0
Cat4	17	66.0	21	60.8	15	61.7	4	60.5	0	0
Cat5	4	68.1	3	60.2	4	62.8	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.7	467	23.4	59.5	1194	59.8	60.0	198	9.9	61.8	108	5.4	64.7	28	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.180+/-	3.289	37	N VA 102'	.777+/-	2.421
12	N Dasibi CD	1.361+/-	.308	38	S BDT PER	6.432+/-	2.870
13	N TOP PAR	-3.707+/-	3.137	39	N VA 74'	.010+/-	2.091
14	N Dasibi D3	.018+/-	.002	40	S BDT PAR	-2.501+/-	2.588
15	N TOP VER	.509+/-	1.727	41	N GND PER	4.044+/-	2.497
16	N ND/TECD	.125+/-	.035	42	S BDT VER	.336+/-	1.185
17	N BDT PER	7.734+/-	3.028	43	N GND PAR	-4.212+/-	3.325
19	N BDT PAR	-4.056+/-	3.067	45	N GND VER	.287+/-	1.000
20	N ND2/TECD	.024+/-	.005	49	N Ecolyzer-1	*****	*****
21	N BDT VER	.407+/-	1.502	50	S TOP PER	7.783+/-	3.013
22	N ND/TECD	.101+/-	.035	51	N Ecolyzer-2	1.526+/-	.222
23	N HA 102'	12.404+/-	3.278	52	S TOP PAR	-3.031+/-	2.761
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.268+/-	.445
25	N WV 102'	160.376+/-	15.138	54	S TOP VER	.243+/-	1.281
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	75.786+/-	2.203	56	S GND PER	3.992+/-	2.158
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	1.715+/-	3.637
29	N WV 74'	148.697+/-	13.604	58	S GND PAR	-2.087+/-	1.815
30	N CD/Byron	*****	*****	59	N Rat Hum	81.159+/-	.493
31	N 74' Temp	73.441+/-	3.173	60	S GND VER	.339+/-	.908
32	N CD2/Byron	*****	*****	61	N Solat Rad	201.965+/-	18.221
35	N HA 74'	11.950+/-	4.028	64	S VA 55'	.803+/-	1.696

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	10.47+/- 3.48	158.1+/- 16.3	3.9+/- 10.5
02	17 19 21	9.29+/- 3.30	153.2+/- 17.9	3.3+/- 10.8
03	38 40 42	7.46+/- 2.88	161.5+/- 23.6	5.2+/- 13.3
04	41 43 45	6.85+/- 2.85	135.2+/- 28.2	3.0+/- 11.0
05	50 52 54	6.79+/- 3.28	160.5+/- 17.5	3.6+/- 11.6
06	56 58 60	4.95+/- 2.15	154.7+/- 26.6	7.1+/- 16.7

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 2016 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.6	48	56.0	78	58.4	26	59.2	22	52.0
Cat2	94	59.9	160	58.8	146	58.9	135	60.5	75	50.7
Cat3	17	63.1	39	62.4	21	57.5	15	56.2	4	48.8
Cat4	12	65.9	23	61.2	6	56.9	3	60.7	5	44.5
Cat5	2	67.5	5	67.4	1	63.8	4	65.6	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	62.3	45	58.5	53	58.5	55	57.6	28	48.7
Cat2	181	63.1	163	59.7	120	59.5	116	60.0	42	47.6
Cat3	18	65.4	32	57.7	35	60.6	9	59.8	2	48.9
Cat4	11	66.1	19	61.6	20	62.7	5	60.1	0	0
Cat5	2	65.5	4	62.2	3	60.1	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	466	23.1	59.1	1232	61.1	60.1	192	9.5	61.5	105	5.2	64.7	21	1.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.881+/-	4.291	37	N VA 102'	.234+/-	2.053
12	N Dasibi CD	1.468+/-	.311	38	S BDT PER	5.935+/-	2.462
13	N TOP PAR	-2.581+/-	2.444	39	N VA 74'	.378+/-	1.921
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	-1.350+/-	1.955
15	N TOP VER	.079+/-	1.812	41	N GND PER	4.251+/-	2.854
16	N ND/TECD	.122+/-	.033	42	S BDT VER	.294+/-	1.153
17	N BDT PER	8.544+/-	4.006	43	N GND PAR	-4.015+/-	2.660
19	N BDT PAR	-3.282+/-	2.472	45	N GND VER	.079+/-	1.081
20	N ND2/TECD	.021+/-	.004	49	N Ecolyzer-1	*****	*****
21	N BDT VER	.206+/-	1.370	50	S TOP PER	7.658+/-	3.227
22	N ND/TECD	.100+/-	.031	51	N Ecolyzer-2	1.539+/-	.249
23	N HA 102'	13.308+/-	4.139	52	S TOP PAR	-1.720+/-	2.188
24	N THC/Byron	*****	*****	53	N Ecolyzer-3	1.102+/-	.500
25	N WV 102'	166.038+/-	13.154	54	S TOP VER	.040+/-	1.195
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	76.593+/-	1.701	56	S GND PER	3.548+/-	1.668
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	1.569+/-	1.191

29	N WV 74'	155.727+/-	14.250	DEGR AZ	58	S GND PAR	-1.448+/-	1.448	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Re1 Hum	80.492+/-	.205	%
31	N 74' Temp	74.170+/-	3.077	DEGR F	60	S GND VER	.314+/-	.753	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	150.690+/-	17.275	W/m**2
35	N HA 74'	12.465+/-	4.771	mph	64	S VA 55'	.582+/-	1.754	mph

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)	
01	11	13	15	10.59+/-	4.38	165.4+/-	13.1	2.0+/-	10.2	
02	17	19	21	9.53+/-	4.13	158.3+/-	14.4	2.9+/-	9.5	
03	38	40	42	5.49+/-	2.48	168.1+/-	17.5	4.1+/-	12.2	
04	41	43	45	8.52+/-	2.84	136.3+/-	25.1	.7+/-	10.6	
05	50	52	54	8.20+/-	3.32	168.3+/-	15.5	1.9+/-	9.6	
06	56	58	60	4.19+/-	1.62	159.6+/-	22.9	6.3+/-	14.9	

Average for 15 minute period ending at 10:45:00  
 Traffic Data  
 Total Traffic = 1669 vehicles averaging 58.5 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	58.0	37	55.4	71	57.0	34	58.3	14	51.9
Cat2	88	60.4	125	57.1	106	57.9	104	59.5	58	51.1
Cat3	14	62.4	28	57.5	25	57.5	12	58.5	11	52.7
Cat4	8	65.0	12	62.5	8	57.1	9	57.6	1	50.6
Cat5	6	64.1	4	60.9	2	59.9	2	48.3	0	0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	61.9	55	57.8	38	58.2	41	57.4	18	46.6
Cat2	129	64.1	125	59.7	115	59.1	93	59.6	38	44.1
Cat3	13	64.8	26	60.0	16	59.2	9	56.2	2	46.0
Cat4	14	65.0	18	60.0	14	58.6	3	59.7	0	0
Cat5	3	67.8	4	57.5	7	63.8	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.4	417	25.0	58.5	981	58.8	58.7	156	9.3	60.8	67	5.2	61.6	28	1.7

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.594+/-	4.363	37	N VA 102'	.112+/-	2.402	37	N VA 102'	.112+/-	2.402
12	N Dasibi CO	1.372+/-	.369	38	S BOT PER	7.286+/-	3.435	38	S BOT PER	7.286+/-	3.435
13	N TOP PAR	-3.541+/-	3.022	39	N VA 74'	-.627+/-	2.177	39	N VA 74'	-.627+/-	2.177
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	-2.140+/-	2.635	40	S BOT PAR	-2.140+/-	2.635
15	N TOP VER	-.181+/-	2.097	41	N GND PER	4.103+/-	2.546	41	N GND PER	4.103+/-	2.546
16	N NOX/TECO	.117+/-	.037	42	S BOT VER	.330+/-	1.398	42	S BOT VER	.330+/-	1.398
17	N BOT PER	9.012+/-	4.130	43	N GND PAR	-4.772+/-	3.201	43	N GND PAR	-4.772+/-	3.201
19	N BOT PAR	-4.345+/-	3.061	45	N GND VER	.329+/-	1.383	45	N GND VER	.329+/-	1.383
20	N NO2/TECO	.021+/-	.006	49	N Ecolyzer-1	.764+/-	.188	49	N Ecolyzer-1	.764+/-	.188
21	N BOT VER	.128+/-	1.695	50	S TOP PER	9.113+/-	4.108	50	S TOP PER	9.113+/-	4.108
22	N NO/TECO	.096+/-	.033	51	N Ecolyzer-2	1.451+/-	.225	51	N Ecolyzer-2	1.451+/-	.225
23	N HA 102'	13.839+/-	4.232	52	S TOP PAR	-2.434+/-	2.907	52	S TOP PAR	-2.434+/-	2.907
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.002+/-	.429	53	N Ecolyzer-3	1.002+/-	.429
25	N WV 102'	162.394+/-	14.120	54	S TOP VER	-.070+/-	1.336	54	S TOP VER	-.070+/-	1.336
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	*****+/-	*****	56	S GND PER	4.339+/-	2.382	56	S GND PER	4.339+/-	2.382
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	1.546+/-	1.290	57	N Ecolyzer-5	1.546+/-	1.290
29	N WV 74'	153.653+/-	14.315	58	S GND PAR	-2.173+/-	1.847	58	S GND PAR	-2.173+/-	1.847
30	N CO/Byron	*****+/-	*****	59	N Re1 Hum	*****+/-	*****	59	N Re1 Hum	*****+/-	*****
31	N 74' Temp	*****+/-	*****	60	S GND VER	.249+/-	.876	60	S GND VER	.249+/-	.876
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	*****+/-	*****	61	N Solar Rad	*****+/-	*****
35	N HA 74'	13.387+/-	4.908	64	S VA 55'	.481+/-	1.900	64	S VA 55'	.481+/-	1.900

UVW Vector Calculations										
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)	
01	11	13	15	11.73+/-	4.45	163.6+/-	17.8	1.2+/-	13.0	
02	17	19	21	10.54+/-	4.28	154.7+/-	16.3	3.1+/-	14.0	
03	38	40	42	8.08+/-	3.62	166.4+/-	18.4	4.6+/-	13.2	
04	41	43	45	6.91+/-	3.24	133.3+/-	26.4	2.9+/-	14.7	
05	50	52	54	9.90+/-	4.23	166.7+/-	17.3	2.0+/-	11.1	
06	56	58	60	5.20+/-	2.53	155.0+/-	23.7	4.7+/-	15.1	

Average for 15 minute period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 2052 vehicles averaging 58.0 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	56.7	72	55.2	96	57.1	30	59.8	28	50.5
Cat2	92	59.6	148	57.4	168	58.2	128	59.4	89	49.9
Cat3	14	62.5	39	59.1	22	57.2	18	57.8	5	50.6
Cat4	17	63.6	20	61.3	9	58.4	10	63.1	2	49.2
Cat5	6	68.0	10	66.0	1	66.3	2	59.7	3	55.1

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	53	61.3	61	58.9	58	57.7	45	54.8	14	41.7
Cat2	161	63.2	151	59.7	134	58.2	119	56.8	47	43.2
Cat3	13	64.9	28	59.5	27	58.8	14	56.0	1	40.7
Cat4	10	62.7	18	60.4	23	60.8	2	54.8	0	0
Cat5	2	63.5	6	61.6	6	60.6	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
56.7	517	24.8	58.0	1237	59.4	58.9	181	8.7	61.1	111	5.3	63.0	36	1.7

Regular Channels											
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	11.871+/-	4.042	37	N VA 102'	.357+/-	2.212	37	N VA 102'	.357+/-	2.212
12	N Dasibi CO	1.266+/-	.297	38	S BOT PER	6.488+/-	2.553	38	S BOT PER	6.488+/-	2.553
13	N TOP PAR	-1.817+/-	2.849	39	N VA 74'	-.228+/-	2.184	39	N VA 74'	-.228+/-	2.184
14	N Dasibi O3	.020+/-	.003	40	S BOT PAR	-1.016+/-	2.460	40	S BOT PAR	-1.016+/-	2.460
15	N TOP VER	.054+/-	1.906	41	N GND PER	4.907+/-	2.953	41	N GND PER	4.907+/-	2.953
16	N NOX/TECO	.113+/-	.045	42	S BOT VER	.551+/-	1.324	42	S BOT VER	.551+/-	1.324
17	N BOT PER	9.808+/-	3.973	43	N GND PAR	-3.171+/-	3.163	43	N GND PAR	-3.171+/-	3.163
19	N BOT PAR	-2.588+/-	2.976	45	N GND VER	1.100+/-	1.151	45	N GND VER	1.100+/-	1.151
20	N NO2/TECO	.020+/-	.005	49	N Ecolyzer-1	.686+/-	.194	49	N Ecolyzer-1	.686+/-	.194

21	N BDT VER	.199+/-	1.547	mph	50	S TOP PER	8.782+/-	3.181	mph
22	N ND/TECO	.092+/-	.042	ppm	51	N Ecolyzer-2	*****+/-*****		ppm
23	N HA 102'	15.618+/-	3.915	mph	52	S TOP PAR	-1.013+/-	3.020	mph
24	N THC/Byron	*****+/-*****		ppm	53	N Ecolyzer-3	.846+/-	4.06	ppm
25	N WV 102'	168.004+/-	11.935	DEGR AZ	54	S TOP VER	.486+/-	1.349	mph
26	N NMHC/Byro	*****+/-*****		ppm	55	N Ecolyzer-4	1.162+/-	3.375	ppm
27	N Gnd Temp	76.411+/-	1.809	DEGR F	56	S GND PER	3.955+/-	1.954	ppm
28	N CH4/Byron	*****+/-*****		ppm	57	N Ecolyzer-5	1.434+/-	1.914	ppm
29	N WV 74'	158.543+/-	13.774	DEGR AZ	58	S GND PAR	-1.219+/-	1.825	mph
30	N CD/Byron	*****+/-*****		ppm	59	N Rel Hum	80.735+/-	3.18	%
31	N 74' Temp	74.301+/-	2.030	DEGR F	60	S GND VER	.484+/-	1.778	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	105.819+/-	28.893	W/m**2
35	N HA 74'	14.379+/-	4.134	mph	64	S VA 55'	1.063+/-	1.818	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.50+/-	3.99	170.4+/-	13.8	1.8+/- 9.7
02	17 19 21	10.71+/-	3.91	164.0+/-	17.0	2.3+/- 8.8
03	38 40 42	7.18+/-	2.48	171.9+/-	21.2	6.9+/- 15.2
04	41 43 45	6.78+/-	2.85	148.2+/-	27.8	1.9+/- 13.8
05	50 52 54	9.45+/-	3.18	174.2+/-	18.3	4.4+/- 10.5
06	56 58 60	4.68+/-	1.89	185.4+/-	25.4	8.8+/- 14.4

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic = 7762 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	196	57.7	205	55.5	318	57.8	117	59.2	79	51.1
Cat2	378	60.3	591	57.8	564	58.6	481	59.8	291	50.6
Cat3	62	62.4	133	59.9	96	57.7	61	58.4	27	50.3
Cat4	48	64.1	73	61.7	37	58.2	28	60.6	9	46.3
Cat5	18	66.8	29	66.0	4	62.5	11	58.2	3	55.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	257	62.1	218	58.5	210	58.7	196	57.2	71	45.8
Cat2	680	63.7	584	59.8	487	59.7	439	58.9	169	45.8
Cat3	89	65.0	121	59.2	109	59.6	45	58.3	5	46.1
Cat4	52	65.1	76	60.7	73	61.1	15	59.4	0	.0
Cat5	11	66.7	17	60.5	20	61.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	1867	24.1	58.8	4644	59.8	59.5	727	9.4	61.3	411	5.3	63.4	113	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.372+/-	4.121	37	N VA 102'	.382+/-	2.280
12	N Dasibi CO	1.366+/-	.328	38	S BDT PER	6.502+/-	2.859
13	N TOP PAR	-2.883+/-	2.964	39	N VA 74'	-2.293+/-	2.101
14	N Dasibi D3	.018+/-	.003	40	S BDT PAR	-1.736+/-	2.484
15	N TOP VER	.128+/-	1.845	41	N GND PER	4.336+/-	2.743
16	N ND/TECO	.119+/-	.038	42	S BDT VER	.380+/-	1.284
17	N BDT PER	8.764+/-	3.853	43	N GND PAR	-4.010+/-	3.138
18	N BDT PAR	-3.532+/-	2.970	45	N GND VER	.193+/-	1.157
20	N ND2/TECO	.022+/-	.005	49	N Ecolyzer-1	*****+/-*****	
21	N BDT VER	.240+/-	1.525	50	S TOP PER	8.299+/-	3.423
22	N ND/TECO	.097+/-	.035	51	N Ecolyzer-2	*****+/-*****	
23	N HA 102'	13.790+/-	4.068	52	S TOP PAR	-2.032+/-	2.831
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.088+/-	.464
25	N WV 102'	168.300+/-	13.903	54	S TOP VER	.186+/-	1.304
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	*****+/-*****	
27	N Gnd Temp	76.229+/-	2.034	56	S GND PER	3.952+/-	2.056
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	1.567+/-	2.275
29	N WV 74'	154.177+/-	14.390	58	S GND PAR	-1.712+/-	1.780
30	N CD/Byron	*****+/-*****		59	N Rel Hum	80.735+/-	4.438
31	N 74' Temp	73.933+/-	2.788	60	S GND VER	.351+/-	.832
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	152.548+/-	42.011
35	N HA 74'	13.020+/-	4.546	64	S VA 55'	.746+/-	1.798

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.31+/-	4.15	188.4+/-	15.8	2.3+/- 10.9
02	17 19 21	9.98+/-	3.94	157.7+/-	16.9	2.9+/- 10.8
03	38 40 42	7.27+/-	2.92	167.0+/-	20.7	5.2+/- 13.6
04	41 43 45	6.71+/-	2.94	137.9+/-	27.2	2.1+/- 12.8
05	50 52 54	9.05+/-	3.54	167.5+/-	17.8	3.0+/- 10.8
06	56 58 60	4.73+/-	2.08	158.8+/-	25.3	6.8+/- 15.4

11:01:26 -- END RECAL. NCD-2  
 11:37:32 -- BEGIN CALIBRATION OF ECOL. GRD  
 11:37:49 -- BEGIN CAL. NCD-5 GRD  
 11:45:33 -- END BYRDN 401 CALIBRATIONS  
 11:55:46 -- END CAL. NCD-5 GRD  
 11:55:57 -- BEGIN CAL. NCD-4 GRD  
 11:56:16 -- TURNING DN BYRDN 401

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 2072 Vehicles averaging 58.2 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	56.8	75	55.0	89	57.1	42	50.4	18	51.9
Cat2	112	58.8	132	57.1	140	57.7	127	58.3	70	50.7
Cat3	20	61.4	42	57.4	29	58.1	13	57.9	4	54.5
Cat4	11	64.8	25	61.1	15	57.0	11	57.7	2	42.2
Cat5	6	63.7	8	67.0	3	59.7	1	59.3	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	60.9	58	57.2	56	58.7	40	57.0	22	47.0
Cat2	160	62.9	147	58.4	140	59.3	140	59.5	43	45.3
Cat3	22	63.0	34	59.4	24	58.7	7	57.8	0	.0
Cat4	13	66.0	17	59.7	19	59.4	6	58.8	1	49.1
Cat5	3	65.6	5	59.3	8	63.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	512	24.7	58.1	1211	58.4	59.0	195	9.4	60.2	120	5.8	63.4	34	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	11.989+/-	3.883	37	N VA 102'	.476+/-	3.152
12	N Desibi CD	1.185+/-	.272	38	S BOT PER	7.345+/-	3.689
13	N TOP PAR	-1.653+/-	3.724	39	N VA 74'	-.190+/-	2.475
14	N Desibi 03	.019+/-	.003	40	S BOT PAR	-1.349+/-	2.820
15	N TOP VER	.087+/-	2.327	41	N GND PER	5.115+/-	3.143
16	N NOX/TECO	.109+/-	.035	42	S BOT VER	.125+/-	1.363
17	N BOT PER	10.476+/-	4.015	43	N GND PAR	-3.216+/-	4.118
18	N BOT PAR	-2.555+/-	3.859	45	N GND VER	-.085+/-	1.341
20	N NO2/TECO	.021+/-	.005	49	N Ecolyzer-1	.683+/-	.195
21	N BOT VER	.098+/-	1.730	50	S TOP PER	9.393+/-	4.061
22	N NO/TECO	.089+/-	.031	51	N Ecolyzer-2	1.147+/-	.293
23	N HA 102'	16.037+/-	3.926	52	S TOP PAR	-1.485+/-	2.946
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.949+/-	.388
25	N WV 102'	169.579+/-	13.449	54	S TOP VER	-.110+/-	1.331
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.143+/-	.422
27	N Gnd Temp	75.447+/-	2.946	56	S GND PER	4.731+/-	2.517
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	1.490+/-	1.173
29	N WV 74'	161.450+/-	13.972	58	S GND PAR	-1.552+/-	2.332
30	N CO/Byron	*****+/-*****		59	N Re1 Hum	80.588+/-	.326
31	N 74' Temp	75.108+/-	1.439	60	S GND VER	2.156+/-	1.047
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	124.578+/-	37.997
35	N HA 74'	14.939+/-	4.228	64	S VA 55'	.276+/-	-2.104

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.84+/- 3.98	172.0+/- 16.4	1.4+/- 11.6
02	17 18 21	11.53+/- 4.16	166.5+/- 19.0	1.3+/- 8.6
03	38 40 42	8.00+/- 3.95	172.8+/- 20.7	3.8+/- 11.2
04	41 43 45	7.28+/- 3.48	148.4+/- 34.7	1.7+/- 14.1
05	50 52 54	9.88+/- 4.23	172.5+/- 16.6	1.0+/- 8.8
06	56 58 60	5.50+/- 2.73	164.3+/- 24.1	5.0+/- 15.1

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 2192 Vehicles averaging 55.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	56.6	80	53.0	76	55.3	27	57.8	18	50.7
Cat2	134	58.2	141	56.2	141	56.4	148	57.9	81	50.0
Cat3	8	59.6	38	57.2	37	55.2	17	59.2	11	47.3
Cat4	11	62.4	13	57.3	10	52.2	6	57.5	2	43.1
Cat5	5	63.4	6	59.7	1	47.3	3	53.2	1	39.3

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	71	60.0	47	55.2	40	57.0	52	53.5	23	43.1
Cat2	165	60.8	179	56.7	157	55.2	168	53.9	69	43.8
Cat3	19	61.7	28	58.5	25	56.7	13	53.9	3	35.0
Cat4	18	60.0	17	58.6	12	52.7	4	56.6	2	37.2
Cat5	2	58.5	6	61.3	11	59.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.7	479	21.9	55.8	1383	63.1	56.6	200	9.1	56.8	95	4.3	58.7	35	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	12.134+/-	4.157	37	N VA 102'	.155+/-	2.535
12	N Desibi CD	1.308+/-	.352	38	S BOT PER	6.718+/-	3.435
13	N TOP PAR	-1.559+/-	3.436	39	N VA 74'	-.546+/-	2.589
14	N Desibi 03	.021+/-	.003	40	S BOT PAR	-.879+/-	2.727
15	N TOP VER	-.042+/-	1.994	41	N GND PER	4.988+/-	3.317
16	N NOX/TECO	.098+/-	.033	42	S BOT VER	.374+/-	1.206
17	N BOT PER	10.573+/-	4.043	43	N GND PAR	-2.643+/-	3.351
18	N BOT PAR	-2.365+/-	3.324	45	N GND VER	-.001+/-	1.252
20	N NO2/TECO	.018+/-	.006	49	N Ecolyzer-1	.638+/-	.200
21	N BOT VER	.193+/-	1.663	50	S TOP PER	8.085+/-	4.079
22	N NO/TECO	.080+/-	.030	51	N Ecolyzer-2	1.025+/-	.257
23	N HA 102'	16.127+/-	4.235	52	S TOP PAR	-.795+/-	2.695
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	.981+/-	.387
25	N WV 102'	172.728+/-	11.897	54	S TOP VER	4.409+/-	1.185
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	1.222+/-	.435
27	N Gnd Temp	77.505+/-	2.738	56	S GND PER	4.086+/-	2.382
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	1.702+/-	1.107
29	N WV 74'	162.838+/-	14.274	58	S GND PAR	-1.324+/-	2.421
30	N CO/Byron	*****+/-*****		59	N Re1 Hum	81.308+/-	.809
31	N 74' Temp	75.968+/-	3.090	60	S GND VER	.323+/-	.885

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.88+/- 4.09	173.2+/- 16.6	1.2+/- 10.4
02	17 19 21	11.44+/- 4.06	167.9+/- 17.5	2.6+/- 9.7
03	38 40 42	7.32+/- 3.65	174.7+/- 19.3	5.2+/- 12.6
04	41 43 45	6.75+/- 3.16	153.1+/- 31.7	1.7+/- 14.7
05	50 52 54	8.65+/- 4.18	176.7+/- 18.0	6.2+/- 12.2
06	56 58 60	4.93+/- 2.56	167.8+/- 28.9	5.9+/- 17.9

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2193 vehicles averaging 58.3 mph

**Westbound Traffic**

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	58.5	73	55.0	88	56.7	46	58.1	25	51.4
Cat2	115	59.8	153	57.2	141	58.3	129	58.8	86	49.7
Cat3	20	61.4	38	60.2	26	57.3	21	57.6	4	49.2
Cat4	15	64.3	16	60.5	13	55.8	4	62.4	2	41.5
Cat5	7	67.7	7	64.9	4	59.8	1	59.8	0	.0

**Eastbound Traffic**

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	63.1	62	58.9	62	58.5	43	58.6	32	46.4
Cat2	204	63.7	188	59.4	138	59.5	123	59.8	67	47.3
Cat3	16	65.1	36	56.3	22	58.8	12	59.2	2	43.0
Cat4	13	65.1	21	60.6	17	58.4	4	58.8	0	.0
Cat5	6	67.6	4	63.4	7	53.9	0	.0	0	.0

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.9	531	24.2	58.4	1324	60.4	59.1	197	9.0	60.4	105	4.8	62.9	36	1.6

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	11.321+/- 4.136	mph	37	N VA 102'	.113+/- 2.320	mph
12	N Dasibi CO	1.243+/- .237	ppm	38	S BOT PER	6.035+/- 2.719	mph
13	N TOP PAR	.486+/- 3.183	mph	39	N VA 74'	-.053+/- 2.280	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	-.175+/- 2.422	mph
15	N TOP VER	.211+/- 2.079	mph	41	N GND PER	4.382+/- 2.787	mph
16	N NOX/TECO	.100+/- .028	ppm	42	S BOT VER	.249+/- 1.467	mph
17	N BOT PER	9.840+/- 4.062	mph	43	N GND PAR	-2.127+/- 3.045	mph
18	N BOT PAR	-.941+/- 2.970	mph	45	N GND VER	.143+/- 1.198	mph
20	N NO2/TECO	.019+/- .004	ppm	49	N Ecolyzer-1	.858+/- .175	ppm
21	N BOT VER	.267+/- 1.678	mph	50	S TOP PER	7.921+/- 3.088	mph
22	N NO/TECO	.081+/- .027	ppm	51	N Ecolyzer-2	1.026+/- .220	ppm
23	N HA 102'	14.979+/- 3.253	ppm	52	S TOP PAR	-.035+/- 2.848	ppm
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	1.050+/- .382	ppm
25	N WV 102'	176.509+/- 13.575	DEGR AZ	54	S TOP VER	.339+/- 1.269	mph
26	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	1.269+/- .420	ppm
27	N Gnd Temp	76.515+/- 2.562	DEGR F	56	S GND PER	3.857+/- 2.091	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
29	N WV 74'	168.208+/- 14.290	DEGR AZ	58	S GND PAR	-1.145+/- 2.214	mph
30	N CD/Byron	*****	ppm	59	N Rel Hum	79.824+/- .371	%
31	N 74' Temp	74.639+/- 1.324	DEGR F	60	S GND VER	.414+/- 1.141	mph
32	N C02/Byron	*****	ppm	61	N Solar Rad	186.707+/- 37.987	W/m**2
35	N HA 74'	13.940+/- 4.313	mph	64	S VA 55'	.874+/- 1.814	mph

**UVW Vector Calculations**

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.94+/- 4.16	181.4+/- 15.9	2.8+/- 11.0
02	17 19 21	10.55+/- 3.81	172.9+/- 18.8	3.1+/- 11.2
03	38 40 42	6.61+/- 2.86	179.8+/- 20.4	4.3+/- 13.8
04	41 43 45	5.92+/- 2.87	153.8+/- 32.4	2.3+/- 16.7
05	50 52 54	8.48+/- 3.18	180.3+/- 18.2	4.4+/- 10.5
06	56 58 60	4.73+/- 2.12	188.1+/- 29.4	7.4+/- 18.2

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2089 vehicles averaging 59.2 mph

**Westbound Traffic**

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	57.4	71	56.0	102	57.3	34	59.3	22	50.7
Cat2	100	59.8	162	58.4	144	58.8	121	59.1	81	50.9
Cat3	14	62.2	22	61.4	22	58.1	12	59.9	7	48.4
Cat4	13	64.1	13	63.3	9	59.6	9	60.5	3	47.1
Cat5	2	61.8	6	67.1	1	57.5	6	67.0	0	.0

**Eastbound Traffic**

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	63.8	55	60.2	62	59.2	49	59.1	25	45.8
Cat2	183	65.9	144	61.3	145	60.3	136	59.7	61	47.4
Cat3	14	65.9	24	61.8	23	61.0	17	60.6	3	47.3
Cat4	17	64.9	17	61.9	22	61.3	4	58.8	0	.0
Cat5	3	70.2	4	59.5	4	64.7	0	.0	0	.0

**Vehicle Classification Summary**

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	541	25.9	59.3	1257	60.2	60.4	158	7.6	61.9	107	5.1	65.1	26	1.2

**Regular Channels**

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.928+/- 3.393	mph	37	N VA 102'	.599+/- 2.443	mph
12	N Dasibi CO	1.291+/- .266	ppm	38	S BOT PER	6.361+/- 3.352	mph
13	N TOP PAR	-.525+/- 3.038	mph	39	N VA 74'	-.173+/- 2.250	mph
14	N Dasibi O3	.019+/- .003	ppm	40	S BOT PAR	-.700+/- 2.922	mph
15	N TOP VER	.250+/- 2.076	mph	41	N GND PER	4.260+/- 2.614	mph
16	N NOX/TECO	.113+/- .031	ppm	42	S BOT VER	.486+/- 1.138	mph
17	N BOT PER	8.610+/- 3.363	mph	43	N GND PAR	-1.721+/- 3.185	mph
18	N BOT PAR	-1.382+/- 2.867	mph	45	N GND VER	-.099+/- 1.335	mph
20	N NO2/TECO	.022+/- .006	ppm	49	N Ecolyzer-1	.757+/- .202	ppm
21	N BOT VER	.327+/- 1.856	mph	50	S TOP PER	7.917+/- 3.632	mph
22	N NO/TECO	.091+/- .028	ppm	51	N Ecolyzer-2	1.226+/- .217	ppm
23	N HA 102'	13.623+/- 3.606	ppm	52	S TOP PAR	-.624+/- 2.893	mph

24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.216+/-	.438	ppm
25	N WV 102'	175.140+/- 14.727	DEGR AZ	54	S TOP VER	3.373+/-	1.055	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	78.782+/- 2.746	DEGR F	56	S GND PER	3.910+/-	2.585	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	164.879+/- 13.838	DEGR AZ	58	S GND PAR	-1.050+/-	2.551	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	78.815+/-	.802	%
31	N 74' Temp	76.593+/- 2.421	DEGR F	60	S GND VER	.386+/-	.852	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	231.385+/-	96.185	W/m**2
35	N HA 74'	12.672+/- 3.725	mph	64	S VA 55'	.954+/-	1.781	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	10.80+/- 3.39	177.3+/- 16.5	3.3+/- 12.5		
02	17 19 21	9.36+/- 3.38	172.2+/- 17.9	4.3+/- 13.7		
03	38 40 42	7.02+/- 3.60	177.7+/- 23.0	6.0+/- 12.9		
04	41 43 45	5.72+/- 2.67	160.1+/- 34.8	-6.6+/- 17.6		
05	50 52 54	8.48+/- 3.71	179.4+/- 20.5	4.5+/- 10.4		
06	56 58 60	4.77+/- 2.76	170.3+/- 30.9	9.1+/- 19.2		

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8546 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	182	57.3	303	54.7	355	56.7	148	59.0	83	51.2
Cat2	461	59.0	588	57.3	565	57.8	525	58.5	318	50.3
Cat3	62	61.3	141	58.7	114	57.0	63	58.5	26	49.0
Cat4	50	64.0	67	60.7	47	56.1	30	59.1	9	43.9
Cat5	20	64.8	27	64.9	9	58.2	11	61.9	1	39.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	263	62.0	222	57.4	220	58.5	184	57.0	102	45.7
Cat2	692	63.3	638	58.8	580	58.5	567	57.9	240	46.0
Cat3	71	63.7	122	59.3	94	58.8	49	58.1	8	41.6
Cat4	61	63.7	72	60.2	70	58.6	18	58.3	3	41.2
Cat5	14	66.4	19	60.9	30	59.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	2063	24.1	57.9	5175	60.6	58.7	750	8.8	59.9	427	5.0	62.3	131	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	11.343+/- 3.993	mph	37	N VA 102'	.336+/- 2.635	mph
12	N Dasibi CO	1.257+/- .289	ppm	38	S 80T PER	6.614+/- 3.361	ppm
13	N TOP PAR	-.810+/- 3.461	mph	39	N VA 74'	-.154+/- 2.413	mph
14	N Dasibi O3	.020+/- .003	ppm	40	S BDT PAR	-.801+/- 2.783	ppm
15	N TOP VER	.121+/- 2.121	mph	41	N GND PER	4.686+/- 2.985	mph
16	N NDX/TECD	.105+/- .032	ppm	42	S 80T VER	.308+/- 1.304	mph
17	N BOT PER	9.875+/- 3.952	mph	43	N GND PAR	-2.427+/- 3.488	mph
19	N BOT PAR	-1.811+/- 3.339	mph	45	N GND VER	.032+/- 1.263	ppm
20	N ND2/TECD	.020+/- .005	ppm	49	N Ecolyzer-1	.684+/- .198	ppm
21	N BOT VER	.221+/- 1.732	mph	50	S TOP PER	8.324+/- 3.786	mph
22	N ND/TECD	.085+/- .029	ppm	51	N Ecolyzer-2	-1.105+/- .262	ppm
23	N HA 102'	15.191+/- 3.846	mph	52	S TOP PAR	-.667+/- 2.943	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.049+/- .412	ppm
25	N WV 102'	173.485+/- 13.664	DEGR AZ	54	S TOP VER	2.53+/- 1.230	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.237+/- .429	ppm
27	N Gnd Temp	77.062+/- 2.954	DEGR F	56	S GND PER	4.146+/- 2.422	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	164.342+/- 14.278	DEGR AZ	58	S GND PAR	-1.268+/- 2.385	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	80.134+/- 1.081	%
31	N 74' Temp	75.577+/- 2.368	DEGR F	60	S GND VER	.335+/- .990	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	198.820+/- 88.422	W/m**2
35	N HA 74'	14.048+/- 4.216	mph	64	S VA 55'	.788+/- 1.913	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)		
01	11 13 15	12.07+/- 4.02	176.0+/- 16.7	2.2+/- 11.4		
02	17 19 21	10.72+/- 3.96	169.9+/- 18.5	2.8+/- 11.2		
03	38 40 42	7.24+/- 3.56	176.2+/- 21.0	5.1+/- 12.7		
04	41 43 45	6.42+/- 3.07	153.8+/- 33.5	1.3+/- 15.8		
05	50 52 54	8.90+/- 3.88	177.2+/- 18.6	4.0+/- 10.7		
06	56 58 60	4.98+/- 2.57	167.6+/- 28.5	6.9+/- 17.7		



12:03:07 -- END CAL. NCD-4 GRD  
 12:03:16 -- BEGIN CAL. NCD-3 GRD  
 12:15:55 -- END CAL. NCD-3 GRD  
 12:16:05 -- BEGIN CAL. NCD-2 GRD  
 12:28:06 -- END CAL. NCD-2 GRD  
 12:38:37 -- END CAL. NCD-1 GRD

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 1989 vehicles averaging 59.2 mph.

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	39	57.5	69	56.4	73	57.4	40	59.0	21	50.4
Cat2	86	58.8	138	58.3	115	58.8	108	58.2	74	48.3
Cat3	14	60.0	22	59.3	25	56.2	15	58.3	9	53.5
Cat4	13	68.4	23	61.1	16	61.7	11	57.6	3	40.0
Cat5	6	64.2	3	57.5	3	57.7	4	72.1	1	35.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	63.4	56	59.7	62	60.3	51	59.0	20	46.1
Cat2	187	64.8	159	60.6	118	61.3	137	60.2	52	47.1
Cat3	11	64.6	29	60.9	27	61.1	7	62.0	1	42.1
Cat4	16	65.7	25	62.0	18	63.1	2	56.3	1	45.4
Cat5	6	69.5	5	61.5	13	62.7	1	59.7	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.1	485	24.4	59.1	1174	59.0	59.4	160	8.0	61.9	128	6.4	63.9	42	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.399+/-	4.459	37	N VA 102'	.482+/-	2.534
12	N Dasibi CD	1.229+/-	.280	38	S BDT PER	5.864+/-	2.551
13	N TOP PAR	1.109+/-	3.719	39	N VA 74'	.132+/-	2.079
14	N Dasibi D3	.021+/-	.003	40	S BDT PAR	.196+/-	2.692
15	N TOP VER	.051+/-	2.111	41	N GND PER	4.848+/-	3.254
16	N NDX/TECD	.103+/-	.039	42	S BDT VER	.324+/-	1.250
17	N BDT PER	9.379+/-	4.376	43	N GND PAR	-1.126+/-	3.174
19	N BDT PAR	-.178+/-	3.432	45	N GND VER	.215+/-	1.305
20	N ND2/TECD	.020+/-	.005	49	N Ecolyzer-1	.775+/-	.228
21	N BDT VER	.236+/-	1.912	50	S TOP PER	7.772+/-	3.674
22	N ND/TECD	.083+/-	.036	51	N Ecolyzer-2	1.141+/-	.230
23	N HA 102'	14.132+/-	3.861	52	S TOP PAR	.564+/-	2.759
24	N THC/Byron	2.016+/-	.144	53	N Ecolyzer-3	*****	*****
25	N WV 102'	178.984+/-	15.026	54	S TOP VER	.347+/-	1.318
26	N NMHC/Byro	3.190+/-	.399	55	N Ecolyzer-4	1.218+/-	.405
27	N Gnd Temp	78.574+/-	2.600	58	S GND PER	3.474+/-	2.092
28	N CH4/Byron	.878+/-	.129	57	N Ecolyzer-5	1.450+/-	1.192
29	N WV 74'	169.795+/-	16.031	58	S GND PAR	-.397+/-	2.318
30	N CD/Byron	.726+/-	.481	59	N Rel Hum	77.723+/-	.893
31	N 74' Temp	78.469+/-	2.946	60	S GND VER	.340+/-	.901
32	N CD2/Byron	381.371+/-	11.264	61	N Solar Rad	185.797+/-	41.581
35	N HA 74'	13.223+/-	4.311	64	S VA 55'	1.039+/-	1.899

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.24+/- 4.60	184.8+/- 19.0	2.2+/- 12.6
02	17 19 21	10.16+/- 4.40	177.2+/- 20.1	3.7+/- 12.3
03	38 40 42	6.58+/- 2.56	183.6+/- 24.2	3.9+/- 12.2
04	41 43 45	6.04+/- 3.26	185.3+/- 32.2	3.1+/- 15.9
05	50 52 54	8.39+/- 3.65	184.7+/- 19.9	4.8+/- 12.5
06	56 58 60	4.27+/- 2.15	175.8+/- 30.8	8.1+/- 19.0

Average for 15 mins period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 2013 vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	43	58.6	74	55.2	79	57.4	30	58.7	10	49.7
Cat2	97	59.2	122	57.5	141	58.6	134	58.3	69	49.8
Cat3	19	62.1	31	60.8	15	57.3	18	56.6	5	49.7
Cat4	15	64.8	21	65.4	10	56.3	8	57.7	3	51.2
Cat5	7	66.1	9	61.8	4	51.0	1	64.7	1	50.9

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	62.6	61	60.8	55	60.9	52	58.8	26	47.5
Cat2	169	65.1	162	61.1	139	60.5	111	62.1	46	48.8
Cat3	16	65.7	37	61.5	25	58.5	6	62.9	1	48.2
Cat4	19	67.1	25	62.4	20	64.0	2	60.3	0	0
Cat5	4	64.9	4	61.3	6	67.1	1	66.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.2	490	24.3	59.4	1190	59.1	60.2	173	8.6	63.1	123	6.1	63.3	37	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.312+/-	3.921	37	N VA 102'	.635+/-	2.273
12	N Dasibi CD	1.266+/-	.313	38	S BDT PER	4.762+/-	2.477
13	N TOP PAR	2.027+/-	3.157	39	N VA 74'	.252+/-	2.546
14	N Dasibi D3	.021+/-	.003	40	S BDT PAR	.349+/-	2.258
15	N TOP VER	.377+/-	2.215	41	N GND PER	4.272+/-	3.052
16	N NDX/TECD	.106+/-	.030	42	S BDT VER	.410+/-	1.058
17	N BDT PER	8.197+/-	3.578	43	N GND PAR	.061+/-	2.935
19	N BDT PAR	1.141+/-	2.970	45	N GND VER	-.052+/-	1.203
20	N ND2/TECD	.021+/-	.005	49	N Ecolyzer-1	.807+/-	.238
21	N BDT VER	.261+/-	1.889	50	S TOP PER	6.030+/-	2.947
22	N ND/TECD	.084+/-	.028	51	N Ecolyzer-2	*****	*****
23	N HA 102'	13.509+/-	3.495	52	S TOP PAR	1.155+/-	2.404
24	N THC/Byron	1.938+/-	.090	53	N Ecolyzer-3	1.290+/-	.396
25	N WV 102'	189.119+/-	15.548	54	S TOP VER	.577+/-	1.188
26	N NMHC/Byro	2.254+/-	.214	55	N Ecolyzer-4	1.324+/-	.437
27	N Gnd Temp	79.381+/-	3.087	58	S GND PER	2.781+/-	1.910
28	N CH4/Byron	.990+/-	.141	57	N Ecolyzer-5	1.424+/-	1.149
29	N WV 74'	179.287+/-	17.665	58	S GND PAR	-.359+/-	1.959
30	N CD/Byron	.262+/-	.077	59	N Rel Hum	76.111+/-	.604
31	N 74' Temp	78.131+/-	2.870	60	S GND VER	.371+/-	.795
32	N CD2/Byron	393.096+/-	12.538	61	N Solar Rad	207.597+/-	88.231

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	10.36+/- 3.71	193.2+/- 18.2	4.6+/- 16.3		
02	17 19 21	9.09+/- 3.34	188.4+/- 21.7	4.3+/- 17.3		
03	38 40 42	5.35+/- 2.62	185.7+/- 22.9	6.8+/- 15.4		
04	41 43 45	5.1+/- 2.69	180.2+/- 37.9	.2+/- 13.0		
05	50 52 54	6.88+/- 3.04	191.1+/- 19.9	7.9+/- 12.0		
06	56 58 60	3.44+/- 2.06	178.7+/- 32.5	8.8+/- 18.2		

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 2178 Vehicles averaging 59.0 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	56.7	80	55.6	66	56.9	41	58.2	12	50.6
Cat2	108	60.0	158	56.7	130	57.2	147	59.2	78	51.2
Cat3	17	60.2	30	59.5	27	57.5	17	58.7	7	50.5
Cat4	8	65.6	20	63.6	4	55.3	12	59.7	3	54.3
Cat5	7	65.9	10	64.9	7	57.5	3	61.2	0	0

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	62.7	80	58.8	61	60.1	54	58.6	21	45.8
Cat2	172	64.3	188	60.5	134	60.7	112	60.7	50	47.7
Cat3	16	65.7	33	61.3	36	61.2	8	60.2	0	0
Cat4	22	64.7	12	61.0	16	62.8	5	60.0	0	0
Cat5	4	68.3	5	61.5	6	62.5	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	526	24.8	59.0	1257	59.3	60.1	191	9.0	62.3	102	4.8	63.2	42	2.0

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	8.851+/-	4.050	37	N VA 102'	.620+/-	2.390						
12	N Dasibi CD	1.270+/-	.208	38	S BOT PER	6.027+/-	2.439						
13	N TOP PAR	1.435+/-	3.511	39	N VA 74'	.199+/-	2.163						
14	N Dasibi D3	.021+/-	.004	40	S BOT PAR	.548+/-	2.863						
15	N TOP VER	.163+/-	2.087	41	N GND PER	3.475+/-	2.797						
16	N NDX/TECO	.100+/-	.027	42	S BOT VER	.595+/-	1.054						
17	N BOT PER	7.456+/-	3.852	43	N GND PAR	.344+/-	2.929						
19	N BOT PAR	.532+/-	3.186	45	N GND VER	.301+/-	1.439						
20	N NO2/TECO	.020+/-	.005	49	N EcoLyzer-1	*****	*****						
21	N BOT VER	.393+/-	1.919	50	S TOP PER	7.901+/-	3.154						
22	N NO/TECO	.080+/-	.025	51	N EcoLyzer-2	1.091+/-	.353						
23	N HA 102'	13.965+/-	4.306	52	S TOP PAR	1.597+/-	2.993						
24	N THC/Byron	1.990+/-	.193	53	N EcoLyzer-3	1.359+/-	.404						
25	N WV 102'	188.803+/-	16.340	54	S TOP VER	5.28+/-	1.112						
26	N NMHC/Byro	2.171+/-	.132	55	N EcoLyzer-4	1.143+/-	.396						
27	N Gnd Temp	80.944+/-	2.398	56	S GND PER	4.045+/-	2.124						
28	N CH4/Byron	1.049+/-	.075	57	N EcoLyzer-5	1.451+/-	.971						
29	N WV 74'	177.536+/-	17.003	58	S GND PAR	.733+/-	2.348						
30	N CO/Byron	.217+/-	.122	59	N Rel Hum	74.792+/-	.404						
31	N 74' Temp	78.808+/-	2.186	60	S GND VER	.516+/-	1.010						
32	N CO2/Byron	440.156+/-	18.491	61	N Solar Rad	164.315+/-	68.556						
35	N HA 74'	12.619+/-	4.576	64	S VA 55'	1.307+/-	1.807						

UWV Vector Calculations						
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	9.86+/- 4.03	189.1+/- 22.0	3.0+/- 15.0		
02	17 19 21	8.38+/- 3.80	183.5+/- 25.4	5.7+/- 15.9		
03	38 40 42	6.68+/- 2.75	185.3+/- 20.6	6.8+/- 11.0		
04	41 43 45	4.92+/- 2.55	175.9+/- 44.0	6.9+/- 22.4		
05	50 52 54	8.63+/- 3.30	191.9+/- 18.1	5.2+/- 9.4		
06	56 58 60	4.85+/- 2.16	173.2+/- 30.1	7.4+/- 16.2		

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2038 Vehicles averaging 58.8 mph

Westbound Traffic										
Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	48	57.7	73	55.1	92	57.3	40	58.7	11	50.7
Cat2	94	59.8	141	56.5	132	58.5	115	58.8	64	50.4
Cat3	14	61.7	34	62.0	22	57.2	17	58.5	6	50.4
Cat4	10	62.1	14	61.0	10	59.5	12	58.7	1	59.3
Cat5	6	65.3	5	65.4	2	55.8	4	62.7	1	40.1

Eastbound Traffic										
Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	62.6	54	58.4	59	60.0	45	58.2	25	47.2
Cat2	186	64.0	173	60.2	132	59.8	111	60.2	44	47.3
Cat3	18	64.1	41	59.6	35	60.4	10	62.7	0	0
Cat4	12	61.6	19	59.3	22	62.2	2	60.7	1	52.2
Cat5	5	68.4	7	62.5	6	61.5	0	0	0	0

Vehicle Classification Summary														
Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	510	25.0	58.7	1192	58.5	60.2	197	9.7	60.6	103	5.1	63.0	36	1.8

Regular Channels													
Channel	Instrument	Value	Units	Channel	Instrument	Value	Units						
11	N TOP PER	12.074+/-	4.701	37	N VA 102'	.759+/-	2.965						
12	N Dasibi CD	1.146+/-	.323	38	S BOT PER	6.847+/-	3.089						
13	N TOP PAR	3.428+/-	3.995	39	N VA 74'	.418+/-	2.644						
14	N Dasibi D3	.024+/-	.003	40	S BOT PAR	1.714+/-	3.032						
15	N TOP VER	.115+/-	2.483	41	N GND PER	5.441+/-	3.490						
16	N NDX/TECO	.088+/-	.028	42	S BOT VER	.658+/-	1.193						
17	N BOT PER	10.624+/-	4.571	43	N GND PAR	1.628+/-	3.893						
19	N BOT PAR	2.280+/-	3.973	45	N GND VER	.014+/-	1.593						
20	N NO2/TECO	.017+/-	.005	49	N EcoLyzer-1	.596+/-	.195						
21	N BOT VER	.298+/-	2.008	50	S TOP PER	9.210+/-	3.978						
22	N NO/TECO	.071+/-	.025	51	N EcoLyzer-2	.992+/-	.286						
23	N HA 102'	17.185+/-	4.578	52	S TOP PAR	3.083+/-	3.191						
24	N THC/Byron	1.920+/-	.077	53	N EcoLyzer-3	1.126+/-	.382						

25	N WV 102'	190.737+/-	14.019	DEGR AZ	54	S TOP VER	.685+/-	1.216	mph
26	N NMHC/Byron	2.325+/-	.123	ppm	55	N Ecolyzer-4	.972+/-	.408	ppm
27	N Gnd Temp	81.570+/-	2.223	DEGR F	56	S GND PER	4.043+/-	2.339	mph
28	N CH4/Byron	1.086+/-	.099	ppm	57	N Ecolyzer-5	1.192+/-	.759	ppm
29	N WV 74'	178.961+/-	16.260	DEGR AZ	58	S GND PAR	.208+/-	2.391	mph
30	N CD/Byron	.220+/-	.117	ppm	59	N Rel HUM	74.304+/-	.785	%
31	N 74' Temp	79.772+/-	2.510	DEGR F	60	S GND VER	.571+/-	1.011	mph
32	N CO2/Byron	420.453+/-	32.125	ppm	61	N Solar Rad	227.307+/-	97.534	W/m**2
35	N HA 74'	16.249+/-	4.860	mph	64	S VA 55'	1.093+/-	2.146	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	13.41+/-	4.69	195.6+/-	18.4	2.7+/-	12.4
02	17	19	21	11.75+/-	6.56	190.5+/-	20.8	3.5+/-	13.3
03	38	40	42	7.71+/-	3.31	192.6+/-	20.8	6.2+/-	11.6
04	41	43	45	7.03+/-	3.55	193.9+/-	35.1	1.9+/-	18.2
05	50	52	54	10.25+/-	4.15	197.9+/-	17.5	5.7+/-	9.4
06	56	58	60	4.78+/-	2.46	184.3+/-	28.3	9.6+/-	17.9

Average for hourly period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 8158 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	178	57.6	296	55.6	330	57.2	151	58.6	64	50.3
Cat2	385	59.5	559	57.2	518	58.3	504	58.2	285	49.9
Cat3	64	61.0	117	60.5	89	57.0	87	58.0	27	51.3
Cat4	46	65.4	78	62.9	40	59.2	43	58.5	10	49.6
Cat5	26	65.4	27	64.3	16	55.7	12	65.6	3	42.2

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	240	62.8	231	59.4	237	60.3	202	58.7	92	46.7
Cat2	714	64.5	662	60.6	523	60.6	471	60.8	192	47.7
Cat3	61	65.0	140	60.8	123	60.4	31	61.9	2	45.1
Cat4	69	65.1	81	61.3	76	63.0	11	59.5	2	48.8
Cat5	19	68.0	21	61.8	31	63.3	2	78.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.9	2011	24.7	59.1	4813	59.0	60.0	721	8.8	62.0	456	5.6	63.4	157	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.159+/-	4.461	37	N VA 102'	.624+/-	2.550
12	N Desibi CO	1.227+/-	.289	38	S BOT PER	5.860+/-	2.747
13	N TOP PAR	1.899+/-	3.709	39	N VA 74'	.250+/-	2.369
14	N Desibi O3	.022+/-	.004	40	S BOT PAR	.701+/-	2.786
15	N TOP VER	.176+/-	2.231	41	N GND PER	4.509+/-	3.235
16	N NOX/TECO	.099+/-	.032	42	S BOT VER	.497+/-	1.148
17	N BOT PER	8.914+/-	4.277	43	N GND PAR	.055+/-	3.402
19	N BOT PAR	.944+/-	3.521	45	N GND VER	.120+/-	1.397
20	N NO2/TECO	.020+/-	.005	49	N Ecolyzer-1	.739+/-	.237
21	N BOT VER	.257+/-	1.930	50	S TOP PER	7.728+/-	3.636
22	N ND/TECO	.079+/-	.029	51	N Ecolyzer-2	1.102+/-	.289
23	N HA 102'	14.698+/-	4.325	52	S TOP PAR	1.600+/-	2.995
24	N THC/Byron	1.966+/-	.136	53	N Ecolyzer-3	1.250+/-	.401
25	N WV 102'	186.916+/-	15.884	54	S TOP VER	.537+/-	1.215
26	N NMHC/Byro	2.485+/-	.478	55	N Ecolyzer-4	1.161+/-	.432
27	N Gnd Temp	80.117+/-	2.803	56	S GND PER	3.585+/-	2.180
28	N CH4/Byron	1.003+/-	.139	57	N Ecolyzer-5	1.379+/-	1.037
29	N WV 74'	178.389+/-	17.121	58	S GND PAR	.320+/-	2.281
30	N CD/Byron	.356+/-	.331	59	N Rel HUM	75.733+/-	1.475
31	N 74' Temp	78.795+/-	2.650	60	S GND VER	.450+/-	.937
32	N CO2/Byron	408.769+/-	30.527	61	N Solar Rad	196.254+/-	78.708
35	N HA 74'	13.809+/-	4.675	64	S VA 55'	1.103+/-	1.990

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	11.22+/-	4.48	190.7+/-	20.0	3.1+/-	14.2
02	17	19	21	9.84+/-	4.24	184.9+/-	22.6	4.3+/-	14.8
03	38	40	42	6.58+/-	2.94	186.8+/-	22.4	5.9+/-	12.7
04	41	43	45	5.88+/-	3.13	178.8+/-	38.5	3.0+/-	18.0
05	50	52	54	8.49+/-	3.77	191.4+/-	19.4	5.9+/-	11.0
06	56	58	60	4.34+/-	2.28	178.0+/-	30.6	8.5+/-	17.8

13:28:40 -- RESTART 2  
 13:28:41 -- 12/13/84  
 13:28:42 -- THIS IS THE SECOND RESTART OF 12/13/84.  
 13:35:48 -- WILL TURN DOWN CH. 9 RADAR SLIGHTLY GRD  
 13:36:10 -- BEGIN RECAL. OF ECDLYZERS. GRD  
 13:36:27 -- BEGIN CAL. NCD-5  
 13:46:48 -- BEGIN CAL. NCD-4 GRD  
 13:47:04 -- END CAL. NCD-5 GRD  
 13:55:07 -- END CAL. NCD-4 GRD  
 13:55:47 -- BEGIN CAL. NCD-3 GRD

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 2138 vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	58.1	58	55.4	91	56.8	37	57.9	18	51.1
Cat2	108	59.4	168	57.1	154	57.1	139	58.3	98	50.5
Cat3	20	61.8	29	59.9	26	57.5	13	55.6	4	50.4
Cat4	11	63.0	16	61.4	11	57.2	12	59.4	3	47.5
Cat5	2	60.1	6	69.9	2	54.4	2	65.9	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	61.9	53	57.9	66	59.4	52	58.7	19	46.7
Cat2	156	64.8	160	60.3	134	59.8	107	60.5	58	47.9
Cat3	22	63.8	41	61.4	31	59.9	12	60.0	0	0
Cat4	10	67.0	21	61.1	23	64.4	3	61.0	0	0
Cat5	4	65.8	7	60.1	3	62.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.6	522	24.4	58.4	1282	60.0	60.0	198	9.3	61.6	110	5.1	63.5	26	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.514+/-	4.563	37	N VA 102'	.476+/-	2.256
12	N Dasibi CD	1.314+/-	.343	38	S BOT PER	6.565+/-	3.000
13	N TOP PAR	2.762+/-	3.281	39	N VA 74'	-.098+/-	2.041
14	N Dasibi O3	.021+/-	.003	40	S BOT PAR	1.315+/-	2.524
15	N TOP VER	.156+/-	2.164	41	N GND PER	3.472+/-	2.776
16	N NOX/TECO	.104+/-	.031	42	S BOT VER	.510+/-	1.011
17	N BOT PER	8.141+/-	4.333	43	N GND PAR	.400+/-	3.375
19	N BOT PAR	1.541+/-	3.519	45	N GND VER	.124+/-	1.635
20	N NO2/TECO	.019+/-	.005	49	N Ecolyzer-1	.524+/-	.217
21	N BOT VER	.315+/-	1.899	50	S TOP PER	8.754+/-	4.388
22	N ND/TECO	.085+/-	.028	51	N Ecolyzer-2	1.065+/-	.236
23	N HA 102'	14.806+/-	4.578	52	S TOP PAR	2.945+/-	2.874
24	N THC/Byron	1.958+/-	.093	53	N Ecolyzer-3	1.593+/-	.404
25	N WV 102'	192.918+/-	17.792	54	S TOP VER	.567+/-	1.000
26	N NMHC/Byro	2.395+/-	.132	55	N Ecolyzer-4	1.238+/-	.510
27	N Gnd Temp	80.475+/-	1.681	56	S GND PER	4.068+/-	2.302
28	N CH4/Byron	1.203+/-	.155	57	N Ecolyzer-5	1.415+/-	1.021
29	N WV 74'	181.295+/-	18.146	58	S GND PAR	-.003+/-	2.313
30	N CD/Byron	.181+/-	.121	59	N Rel Hum	74.304+/-	.360
31	N 74' Temp	79.251+/-	2.965	60	S GND VER	.445+/-	1.010
32	N CO2/Byron	397.981+/-	7.805	61	N Solar Rad	143.378+/-	39.012
35	N HA 74'	13.334+/-	5.035	64	S VA 55'	.807+/-	1.831

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.68+/- 4.50	198.0+/- 19.6	2.4+/- 13.5
02	17 19 21	9.18+/- 4.37	192.8+/- 23.1	5.0+/- 15.6
03	38 40 42	7.23+/- 3.03	192.1+/- 20.1	6.1+/- 10.5
04	41 43 45	5.10+/- 2.81	191.3+/- 42.3	6.2+/- 22.8
05	50 52 54	9.70+/- 4.46	199.4+/- 17.4	5.5+/- 9.1
06	56 58 60	4.77+/- 2.37	183.3+/- 28.2	8.8+/- 18.6

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 1754 vehicles averaging 58.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	30	57.2	51	55.3	70	56.5	28	57.2	11	49.0
Cat2	100	59.2	111	57.1	112	57.5	122	58.3	78	50.9
Cat3	19	60.7	32	60.2	25	57.2	12	58.9	2	56.4
Cat4	12	65.9	14	62.9	9	58.4	6	58.4	2	51.7
Cat5	6	67.7	5	64.0	2	57.1	1	65.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	60	62.7	60	58.5	40	59.5	46	58.4	28	45.1
Cat2	138	63.8	126	59.8	108	59.9	114	60.6	40	47.3
Cat3	10	63.2	24	59.7	32	59.9	8	56.7	1	47.6
Cat4	15	62.9	21	62.6	19	60.4	3	55.8	0	0
Cat5	2	73.1	7	67.1	4	62.9	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
57.1	424	24.0	58.5	1047	59.4	59.5	165	9.4	61.6	101	5.7	65.7	27	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.562+/-	4.760	37	N VA 102'	.489+/-	2.954
12	N Dasibi CD	1.113+/-	.197	38	S BOT PER	6.227+/-	3.411
13	N TOP PAR	4.726+/-	3.448	39	N VA 74'	-.092+/-	2.446
14	N Dasibi O3	.022+/-	.003	40	S BOT PAR	2.177+/-	2.332
15	N TOP VER	-.117+/-	2.339	41	N GND PER	4.402+/-	3.673
16	N NOX/TECO	.087+/-	.027	42	S BOT VER	.671+/-	1.093
17	N BOT PER	8.695+/-	4.939	43	N GND PAR	1.806+/-	3.979
19	N BOT PAR	3.656+/-	3.306	45	N GND VER	-.177+/-	2.159
20	N NO2/TECO	.018+/-	.005	49	N Ecolyzer-1	.517+/-	.190
21	N BOT VER	.046+/-	1.938	50	S TOP PER	8.145+/-	3.858
22	N ND/TECO	.069+/-	.025	51	N Ecolyzer-2	.911+/-	.209
23	N HA 102'	15.557+/-	5.723	52	S TOP PAR	3.105+/-	2.784
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	1.389+/-	.357
25	N WV 102'	197.959+/-	15.272	54	S TOP VER	.842+/-	.956
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	.913+/-	.332
27	N Gnd Temp	*****+/-*****		56	S GND PER	3.619+/-	2.253
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	.901+/-	.793

29	N WY 74'	187.482+/-	17.310	DEGR AZ	58	S GND PAR	.609+/-	1.844	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rø1 Hum'	*****+/-	*****	%
31	N 74' Temp	*****+/-	*****	DEGR F	60	S GND VER	.447+/-	.983	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	*****+/-	*****	W/m <sup>2</sup>
35	N HA 74'	13.539+/-	5.175	mph	64	S VA 55'	.673+/-	1.881	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	11.39+/-	4.89	207.6+/-	17.7	1.2+/-	11.6
02	17	19	21	10.18+/-	4.94	205.9+/-	20.8	2.7+/-	13.9
03	38	40	42	7.11+/-	3.47	199.4+/-	18.6	7.4+/-	12.0
04	41	43	45	6.42+/-	3.91	201.4+/-	38.2	1.9+/-	23.8
05	50	52	54	9.17+/-	3.98	200.6+/-	17.4	5.7+/-	9.3
06	56	58	60	4.19+/-	2.35	188.6+/-	26.6	7.8+/-	21.6

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2213 vehicles averaging 58.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	57.6	73	54.3	83	55.9	31	58.2	29	48.4
Cat2	111	60.1	152	57.0	160	57.6	120	58.4	71	60.8
Cat3	17	59.7	30	60.4	20	58.9	17	56.7	3	49.1
Cat4	17	63.6	27	62.8	10	58.1	9	55.7	4	48.1
Cat5	6	62.7	12	64.9	0	.0	2	58.2	2	41.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	62.4	72	57.8	66	58.4	53	57.4	24	46.6
Cat2	177	63.5	164	59.6	147	58.7	157	59.8	39	47.4
Cat3	15	65.1	37	59.4	36	57.9	11	60.1	1	46.3
Cat4	15	66.2	30	61.8	21	61.1	4	60.1	0	.0
Cat5	2	65.4	5	59.4	10	65.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	552	24.9	58.6	1298	58.7	59.3	187	8.5	61.5	137	8.2	62.4	39	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	9.155+/-	4.428	37	N VA 102'	.763+/-	2.902
12	N Dasibi CO	1.294+/-	.331	38	S BDT PER	6.921+/-	3.087
13	N TDP PAR	3.342+/-	3.363	39	N VA 74'	.264+/-	2.528
14	N Dasibi O3	.021+/-	.003	40	S BDT PAR	1.751+/-	2.792
15	N TOP VER	.101+/-	2.321	41	N GND PER	3.614+/-	2.948
16	N NOX/TECO	.103+/-	.037	42	S BDT VER	.085+/-	.933
17	N BDT PER	8.279+/-	4.238	43	N GND PAR	1.093+/-	3.522
19	N BDT PAR	2.421+/-	3.443	45	N GND VER	.085+/-	1.552
20	N ND2/TECD	.018+/-	.006	49	N EcoLyzer-1	.538+/-	.214
21	N BDT VER	.132+/-	2.126	50	S TOP PER	9.144+/-	4.163
22	N NO/TECD	.085+/-	.033	51	N EcoLyzer-2	1.156+/-	.271
23	N HA 102'	15.095+/-	4.631	52	S TOP PAR	3.156+/-	2.768
24	N THC/Byron	1.791+/-	.034	53	N EcoLyzer-3	1.372+/-	.407
25	N WV 102'	196.416+/-	14.165	54	S TOP VER	.419+/-	.884
26	N NMHC/Byro	3.089+/-	1.280	55	N EcoLyzer-4	3.985+/-	.382
27	N Gnd Temp	82.890+/-	3.682	56	S GND PER	3.887+/-	1.940
28	N CH4/Byron	1.023+/-	.130	57	N EcoLyzer-5	*****+/-	*****
29	N WY 74'	184.523+/-	19.415	58	S GND PAR	.417+/-	2.040
30	N CO/Byron	.205+/-	.088	59	N Rø1 Hum	72.317+/-	.907
31	N 74' Temp	80.397+/-	2.442	60	S GND VER	.472+/-	.910
32	N CO2/Byron	429.897+/-	12.145	61	N Solar Rad	273.895+/-	117.259
35	N HA 74'	13.409+/-	4.617	64	S VA 55'	.602+/-	1.861

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)			
01	11	13	15	10.67+/-	4.24	201.6+/-	20.7	3.2+/-	16.0
02	17	19	21	9.59+/-	4.16	196.5+/-	22.9	3.5+/-	16.2
03	38	40	42	7.72+/-	3.18	193.1+/-	20.6	4.0+/-	9.5
04	41	43	45	5.37+/-	3.01	195.5+/-	41.7	3.6+/-	20.0
05	50	52	54	10.12+/-	4.20	198.8+/-	18.4	3.4+/-	6.7
06	56	58	60	4.57+/-	1.87	188.1+/-	27.9	8.1+/-	15.6

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2182 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	58.2	65	55.0	117	56.3	37	56.6	28	47.6
Cat2	127	59.5	180	57.3	144	58.1	134	58.2	41	44.1
Cat3	26	62.2	29	59.7	24	55.5	14	55.2	3	36.5
Cat4	12	64.9	10	64.4	4	54.3	10	58.1	1	30.3
Cat5	7	65.0	13	64.1	2	57.0	1	54.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	61.6	58	57.3	60	59.1	43	58.2	23	46.7
Cat2	190	62.9	162	59.4	146	59.2	138	59.1	55	45.8
Cat3	21	65.2	28	59.7	35	59.4	13	60.0	0	.0
Cat4	13	62.9	16	63.2	16	62.2	2	65.1	1	42.8
Cat5	0	.0	6	62.7	6	63.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	552	25.3	58.3	1317	60.4	59.4	193	8.8	61.7	85	3.9	63.2	35	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	9.777+/-	4.969	37	N VA 102'	.242+/-	2.063
12	N Dasibi CO	1.550+/-	.371	38	S BDT PER	6.467+/-	3.243
13	N TDP PAR	2.254+/-	2.865	39	N VA 74'	.045+/-	2.333
14	N Dasibi O3	.021+/-	.003	40	S BDT PAR	.769+/-	2.625
15	N TOP VER	.398+/-	2.165	41	N GND PER	3.758+/-	2.828
16	N NOX/TECO	.107+/-	.034	42	S BDT VER	.662+/-	1.130
17	N BDT PER	8.595+/-	4.671	43	N GND PAR	-.039+/-	3.028
19	N BDT PAR	1.141+/-	3.061	45	N GND VER	.183+/-	1.324
20	N ND2/TECD	.018+/-	.005	49	N EcoLyzer-1	.559+/-	.226

21	N BDT VER	.393+/-	2.127	mph	50	S TOP PER	8.164+/-	3.658	mph
22	N NO/TECO	.088+/-	.031	ppm	51	N EcoLyzer-2	1.121+/-	.330	ppm
23	N HA 102'	13.955+/-	3.972	mph	52	S TOP PAR	2.129+/-	2.727	mph
24	N THC/Byron	2.202+/-	.260	ppm	53	N EcoLyzer-3	*****+/-*****		ppm
25	N WV 102'	189.771+/-	16.124	DEGR AZ	54	S TOP VER	.397+/-	1.017	mph
26	N NMHC/Byro	2.695+/-	.823	ppm	55	N EcoLyzer-4	*****+/-*****		ppm
27	N Gnd Temp	82.508+/-	1.856	DEGR F	56	S GND PER	4.350+/-	2.652	mph
28	N CH4/Byron	.993+/-	.090	ppm	57	N EcoLyzer-5	1.734+/-	.643	ppm
29	N WV 74'	180.829+/-	17.283	DEGR AZ	58	S GND PAR	1.745+/-	2.405	mph
30	N CD/Byron	1.037+/-	.724	ppm	59	N Rel Hum	71.617+/-	.735	%
31	N 74' Temp	81.439+/-	2.824	DEGR F	60	S GND VER	.452+/-	1.223	mph
32	N CD2/Byron	412.636+/-	7.238	ppm	61	N Solar Rad	365.418+/-	153.896	W/m**2
35	N HA 74'	13.087+/-	4.982	mph	64	S VA 55'	.874+/-	1.921	mph

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15		10.80+/-	4.65	195.5+/-	20.8	5.3+/-	17.4
02	17	19	21		9.57+/-	4.39	190.0+/-	23.6	6.9+/-	18.8
03	38	40	42		7.15+/-	3.18	187.5+/-	23.6	5.8+/-	11.0
04	41	43	45		5.03+/-	2.78	182.8+/-	39.0	4.5+/-	19.8
05	50	52	54		8.91+/-	3.70	195.5+/-	18.3	4.5+/-	9.0
06	56	58	60		5.08+/-	2.86	178.0+/-	28.8	8.2+/-	16.9

Average for hourly period ending at 14:00:00  
 Traffic Date  
 Total Traffic = 8297 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	198	57.9	247	54.9	361	56.6	133	57.5	86	48.8
Cat2	446	59.6	611	57.1	570	57.6	515	58.3	288	49.7
Cat3	82	61.2	120	60.1	95	57.2	56	56.5	12	47.6
Cat4	52	64.3	67	62.7	34	57.4	37	58.0	10	46.8
Cat5	21	84.7	36	85.3	8	56.2	6	61.4	2	41.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	262	62.1	243	57.9	232	59.0	194	58.2	94	48.2
Cat2	661	63.7	612	59.8	533	59.3	516	59.9	192	47.1
Cat3	68	64.4	130	60.1	134	59.2	44	59.4	2	46.9
Cat4	53	64.6	88	62.1	79	62.1	12	60.1	1	42.8
Cat5	8	67.5	25	62.5	23	64.0	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	2050	24.7	58.4	4944	59.6	59.5	743	9.0	61.6	433	5.2	63.6	127	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.498+/-	4.675	37	N VA 102'	.493+/-	2.557
12	N Dasibi CO	1.326+/-	.356	38	S BDT PER	6.562+/-	3.182
13	N TOP PAR	3.200+/-	3.349	39	N VA 74'	.034+/-	2.341
14	N Dasibi D3	.021+/-	.003	40	S BDT PAR	1.471+/-	2.631
15	N TOP VER	.147+/-	2.247	41	N GND PER	3.781+/-	3.056
16	N NOX/TECO	.101+/-	.033	42	S BDT VER	.490+/-	1.045
17	N BDT PER	8.414+/-	4.528	43	N GND PAR	.767+/-	3.526
19	N BDT PAR	2.118+/-	3.459	45	N GND VER	.065+/-	1.670
20	N NO2/TECO	.018+/-	.005	49	N EcoLyzer-1	.535+/-	.213
21	N BDT VER	.230+/-	2.030	50	S TOP PER	8.574+/-	4.049
22	N NO/TECO	.083+/-	.030	51	N EcoLyzer-2	1.071+/-	.282
23	N HA 102'	14.822+/-	4.745	52	S TOP PAR	2.822+/-	2.814
24	N THC/Byron	1.988+/-	.221	53	N EcoLyzer-3	1.484+/-	.475
25	N WV 102'	194.113+/-	16.174	54	S TOP VER	.499+/-	.969
26	N NMHC/Byro	2.683+/-	.845	55	N EcoLyzer-4	1.117+/-	.500
27	N Gnd Temp	81.986+/-	2.659	56	S GND PER	3.998+/-	2.311
28	N CH4/Byron	1.074+/-	.147	57	N EcoLyzer-5	1.279+/-	.959
29	N WV 74'	183.353+/-	18.224	58	S GND PAR	.044+/-	2.232
30	N CD/Byron	.432+/-	.544	59	N Rel Hum	72.812+/-	1.257
31	N 74' Temp	80.246+/-	2.742	60	S GND VER	.455+/-	1.038
32	N CD2/Byron	413.905+/-	15.886	61	N Solar Rad	252.933+/-	136.752
35	N HA 74'	13.333+/-	4.938	64	S VA 55'	.768+/-	1.875

UVW Vector Calculations										
UVW	Channels				Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15		10.88+/-	4.56	200.4+/-	20.2	3.1+/-	15.0
02	17	19	21		9.60+/-	4.45	195.8+/-	23.3	4.6+/-	16.4
03	38	40	42		7.31+/-	3.21	192.8+/-	21.2	5.7+/-	10.8
04	41	43	45		5.43+/-	3.18	192.3+/-	40.7	4.1+/-	21.8
05	50	52	54		9.49+/-	4.12	198.5+/-	17.4	4.8+/-	8.8
06	56	58	60		4.67+/-	2.40	183.6+/-	28.2	8.2+/-	18.1

14:04:49 -- END CAL. NCO-3 GRD  
 14:05:11 -- BEGIN CAL. NCO-2 GRD  
 14:13:10 -- BEGIN CAL. NCO-1 GRD  
 14:14:59 -- END CAL. NCO-2  
 14:17:35 -- BEGINNING TO RAIN  
 14:27:36 -- END CAL. NCO-1 GRD  
 14:27:51 -- ALL ECOL. CAL. AND DM LINE

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2228 vehicles averaging 58.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.2	72	54.5	95	56.1	31	57.7	34	47.8
Cat2	128	58.5	150	56.6	145	57.0	141	59.5	30	49.4
Cat3	20	60.9	41	58.7	22	55.8	18	59.2	6	49.6
Cat4	15	63.5	20	61.7	12	61.8	13	59.9	3	47.6
Cat5	10	65.5	11	64.3	3	54.5	2	63.1	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	61.8	66	57.7	56	58.5	47	56.8	25	46.2
Cat2	183	62.5	173	58.4	160	58.9	140	57.9	34	46.9
Cat3	18	64.6	42	58.5	30	58.5	10	57.5	2	43.0
Cat4	20	64.4	19	61.0	26	59.2	2	54.9	1	47.9
Cat5	5	64.1	13	63.1	15	60.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	545	24.5	58.0	1284	57.6	58.8	209	9.4	61.0	131	5.8	62.7	59	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	11.478+/-	4.177	37	N VA 102'	.335+/-	2.577
12	N Dasibi CD	1.313+/-	.321	38	S BDT PER	7.204+/-	2.841
13	N TDP PAR	3.001+/-	3.263	39	N VA 74'	.084+/-	2.382
14	N Dasibi D3	.023+/-	.004	40	S BDT PAR	1.721+/-	2.961
15	N TDP VER	.061+/-	2.072	41	N GND PER	4.723+/-	2.847
16	N NDX/TECO	.103+/-	.039	42	S BDT VER	.515+/-	1.116
17	N BDT PER	9.759+/-	3.986	43	N GND PAR	.092+/-	3.221
18	N BDT PAR	1.432+/-	2.957	45	N GND VER	.214+/-	1.424
20	N ND2/TECO	.019+/-	.007	49	N Ecolyzer-1	.490+/-	1.199
21	N BDT VER	.077+/-	1.930	50	S TDP PER	9.549+/-	3.835
22	N ND/TECO	.084+/-	.024	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	16.132+/-	3.761	52	S TDP PAR	2.819+/-	3.341
24	N THC/Byron	1.925+/-	.044	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	191.508+/-	14.544	54	S TDP VER	.288+/-	1.106
26	N NMHC/Byro	2.234+/-	.286	55	N Ecolyzer-4	1.381+/-	4.435
27	N Gnd Temp	83.394+/-	3.481	56	S GND PER	4.073+/-	2.067
28	N CH4/Byron	1.028+/-	.053	57	N Ecolyzer-5	1.501+/-	2.843
29	N WV 74'	180.332+/-	13.899	58	N GND PAR	.156+/-	2.898
30	N CO/Byron	.923+/-	.620	59	N Rsl Hum	72.122+/-	1.748
31	N 74' Temp	78.590+/-	2.468	60	S GND VER	.451+/-	1.558
32	N CO2/Byron	408.403+/-	11.201	61	N Solar Rad	225.899+/-	158.467
35	N HA 74'	14.726+/-	4.182	64	S VA 55'	.565+/-	2.261

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	12.49+/- 4.12	194.8+/- 16.0	1.7+/- 11.5
02	17 18 21	10.49+/- 3.95	187.9+/- 17.7	1.7+/- 11.8
03	38 40 42	8.02+/- 2.97	193.1+/- 20.1	4.8+/- 9.4
04	41 43 45	5.92+/- 2.78	179.5+/- 34.3	4.2+/- 17.1
05	50 52 54	10.50+/- 3.99	196.0+/- 18.0	3.3+/- 8.5
06	56 58 60	5.06+/- 2.28	183.6+/- 31.5	7.1+/- 17.2

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2275 vehicles averaging 51.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	28	55.0	50	51.1	45	52.0	22	54.6	38	44.4
Cat2	118	55.8	148	52.8	144	52.8	148	53.7	61	44.3
Cat3	32	57.3	31	54.0	36	51.9	22	56.2	3	43.4
Cat4	14	58.6	30	57.5	18	52.9	6	53.6	3	47.7
Cat5	11	60.6	12	59.8	8	56.2	6	57.7	2	43.7

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	34	56.2	24	53.3	32	52.8	30	49.3	13	42.6
Cat2	220	53.8	172	50.9	196	49.1	197	50.4	63	41.3
Cat3	37	54.0	81	50.5	36	49.1	19	50.3	0	0
Cat4	10	56.9	22	49.8	17	49.8	6	47.9	0	0
Cat5	5	54.2	14	51.9	24	49.8	3	53.5	4	29.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
51.4	316	13.9	51.4	1467	64.5	52.5	277	12.2	53.8	126	5.5	53.8	89	3.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	11.019+/-	3.903	37	N VA 102'	.214+/-	2.569
12	N Dasibi CD	1.392+/-	.273	38	S BDT PER	6.035+/-	2.641
13	N TDP PAR	1.983+/-	2.672	39	N VA 74'	-.182+/-	1.968
14	N Dasibi D3	-.021+/-	-.003	40	S BDT PAR	.969+/-	2.315
15	N TDP VER	-.183+/-	2.045	41	N GND PER	4.693+/-	3.246
16	N NDX/TECO	-.097+/-	.027	42	S BDT VER	.321+/-	.727
17	N BDT PER	9.528+/-	4.150	43	N GND PAR	-1.340+/-	3.368
18	N BDT PAR	.331+/-	2.806	45	N GND VER	.224+/-	1.347
20	N ND2/TECO	-.018+/-	.005	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	-.071+/-	1.890	50	S TDP PER	8.377+/-	3.797
22	N ND/TECO	.080+/-	.023	51	N Ecolyzer-2	1.126+/-	.201
23	N HA 102'	15.340+/-	3.314	52	S TDP PAR	2.016+/-	2.578
24	N THC/Byron	1.979+/-	.095	53	N Ecolyzer-3	1.103+/-	.365
25	N WV 102'	186.560+/-	11.389	54	S TDP VER	.319+/-	.691
26	N NMHC/Byro	2.050+/-	.545	55	N Ecolyzer-4	1.311+/-	.383
27	N Gnd Temp	78.938+/-	2.875	56	S GND PER	3.502+/-	1.759
28	N CH4/Byron	1.001+/-	.046	57	N Ecolyzer-5	-.082+/-	.691
29	N WV 74'	175.570+/-	12.627	58	S GND PAR	-.082+/-	2.121
30	N CO/Byron	-.335+/-	1.105	59	N Rsl Hum	79.710+/-	2.344
31	N 74' Temp	77.714+/-	2.907	60	S GND VER	.345+/-	.903

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	11.73+/- 3.76	190.8+/- 15.3	0+/- 11.1
02	17 19 21	10.14+/- 4.08	183.1+/- 18.1	2.0+/- 12.8
03	38 40 42	6.54+/- 2.75	187.9+/- 19.2	4.3+/- 8.8
04	41 43 45	6.13+/- 3.15	167.2+/- 36.5	4.6+/- 15.7
05	50 52 54	9.00+/- 3.86	193.5+/- 17.1	3.4+/- 6.5
06	56 58 60	4.10+/- 1.98	181.5+/- 26.1	7.7+/- 17.0

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2215 vehicles averaging 55.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	55.4	65	52.1	78	53.3	29	54.3	38	45.5
Cat2	160	57.2	155	53.8	162	54.6	153	56.1	59	46.5
Cat3	14	58.4	44	56.2	35	54.1	26	56.7	3	44.5
Cat4	16	60.4	15	58.2	15	55.2	7	56.9	1	36.0
Cat5	7	60.6	8	61.7	1	48.7	2	56.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	59.4	43	55.3	52	54.2	35	55.0	13	42.4
Cat2	171	59.6	173	55.7	166	55.3	159	54.7	55	44.0
Cat3	17	61.7	29	56.4	34	55.8	8	53.2	1	38.1
Cat4	12	58.5	19	55.3	16	55.1	6	54.0	1	37.8
Cat5	2	61.3	6	57.3	10	56.8	1	45.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
53.5	446	20.1	55.0	1413	63.8	56.1	211	9.5	56.5	108	4.9	58.3	37	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.867+/-	3.862	37	N VA 102'	.159+/-	2.085
12	N Dasibi CO	1.333+/-	.218	38	S BOT PER	5.041+/-	2.132
13	N TOP PAR	1.603+/-	2.577	39	N VA 74'	-.088+/-	2.166
14	N Dasibi O3	.021+/-	.003	40	S BOT PAR	.504+/-	2.022
15	N TOP VER	-.004+/-	1.945	41	N GND PER	3.663+/-	2.703
16	N NOX/TECO	.100+/-	.031	42	S BOT VER	.435+/-	.591
17	N BOT PER	7.805+/-	3.663	43	N GND PAR	-.748+/-	2.635
18	N BOT PAR	.297+/-	2.565	45	N GND VER	.030+/-	1.038
19	N NO2/TECO	.017+/-	.005	49	N Ecolyzer-1	.874+/-	.195
20	N BOT VER	.076+/-	1.674	50	S TOP PER	7.013+/-	2.961
21	N NO/TECO	.083+/-	.028	51	N Ecolyzer-2	1.153+/-	.275
22	N HA 102'	12.653+/-	3.275	52	S TOP PAR	1.669+/-	2.434
23	N THC/Byron	2.086+/-	.084	53	N Ecolyzer-3	1.221+/-	.457
24	N WV 102'	185.997+/-	12.360	54	S TOP VER	-.391+/-	.773
25	N NMHC/Byro	2.156+/-	.449	55	N Ecolyzer-4	1.332+/-	.493
26	N Gnd Temp	78.954+/-	2.006	56	S GND PER	2.822+/-	1.563
27	N CH4/Byron	1.052+/-	.059	57	N Ecolyzer-5	1.702+/-	.809
28	N WV 74'	174.762+/-	13.832	58	S GND PAR	-.178+/-	1.600
29	N CO/Byron	.422+/-	.120	59	N Rel Hum	78.531+/-	.782
30	N 74' Temp	77.219+/-	3.595	60	S GND VER	.288+/-	.788
31	N CO2/Byron	392.933+/-	25.398	61	N Solar Rad	314.097+/-	73.405
32	N HA 74'	11.803+/-	3.699	64	S VA 55'	.855+/-	1.809

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.58+/- 3.83	190.4+/- 16.6	2.5+/- 14.6
02	17 19 21	8.41+/- 3.60	180.6+/- 19.0	2.5+/- 14.0
03	38 40 42	5.47+/- 2.21	185.3+/- 20.0	6.2+/- 9.2
04	41 43 45	4.73+/- 2.61	169.5+/- 36.1	2.0+/- 16.5
05	50 52 54	7.58+/- 3.14	192.3+/- 17.3	3.8+/- 7.5
06	56 58 60	3.36+/- 1.55	177.6+/- 29.0	8.1+/- 18.6

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2209 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	56.4	79	54.3	102	56.9	31	59.6	43	45.3
Cat2	121	59.1	160	56.7	173	58.0	134	59.4	69	47.7
Cat3	16	61.4	30	60.1	32	56.3	15	59.2	11	49.5
Cat4	13	65.4	23	60.3	6	57.7	9	57.0	3	38.2
Cat5	3	65.1	4	62.3	1	64.5	6	57.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	61.5	66	57.8	69	59.1	47	58.2	20	44.3
Cat2	183	63.1	147	58.7	180	57.8	125	60.6	52	45.8
Cat3	7	63.3	37	60.0	21	56.7	10	59.9	2	41.8
Cat4	17	63.7	18	60.2	15	60.7	3	61.1	0	.0
Cat5	2	64.1	9	61.1	10	61.1	1	62.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	561	25.4	58.2	1324	59.9	58.3	181	8.2	60.5	107	4.8	61.3	36	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.877+/-	3.730	37	N VA 102'	-.008+/-	1.974
12	N Dasibi CO	1.586+/-	.362	38	S BOT PER	5.407+/-	2.353
13	N TOP PAR	.850+/-	2.563	39	N VA 74'	-.079+/-	1.828
14	N Dasibi O3	.019+/-	.003	40	S BOT PAR	.364+/-	2.333
15	N TOP VER	.158+/-	1.758	41	N GND PER	3.758+/-	2.763
16	N NOX/TECO	.117+/-	.033	42	S BOT VER	.405+/-	.641
17	N BOT PER	7.661+/-	3.382	43	N GND PAR	-1.473+/-	2.556
18	N BOT PAR	-.275+/-	2.437	45	N GND VER	.112+/-	1.247
19	N NO2/TECO	.019+/-	.006	49	N Ecolyzer-1	.883+/-	.192
20	N BOT VER	.257+/-	1.548	50	S TOP PER	6.664+/-	2.949
21	N NO/TECO	.088+/-	.029	51	N Ecolyzer-2	1.187+/-	.199
22	N HA 102'	12.958+/-	2.954	52	S TOP PAR	1.230+/-	2.510



24	N THC/Byron	2.053+/-	.134	ppm	53	N Ecolyzer-3	1.304+/-	.485	ppm
25	N WV 102'	184.924+/-	13.843	DEGR A2	54	S TOP VER	.445+/-	.611	mph
26	N NMHC/Byro	2.734+/-	.096	ppm	55	N Ecolyzer-4	1.559+/-	.462	ppm
27	N Gnd Temp	82.247+/-	2.481	DEGR F	56	S GND PER	3.475+/-	1.909	mph
28	N CH4/Byron	1.115+/-	.066	ppm	57	N Ecolyzer-5	1.935+/-	.897	ppm
29	N WV 74'	175.153+/-	16.633	DEGR A2	58	S GND PAR	.457+/-	2.204	mph
30	N CO/Byron	.951+/-	.198	ppm	59	N Rel Hum	76.356+/-	1.083	%
31	N 74' Temp	78.912+/-	2.862	DEGR F	60	S GND VER	.490+/-	.924	mph
32	N CO2/Byron	411.008+/-	10.133	ppm	61	N Solar Rad	302.789+/-	5.414	W/m <sup>2</sup>
35	N HA 74'	11.848+/-	3.451	mph	64	S VA 55'	.897+/-	1.786	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)	
01	11 13 15	9.53+/-	3.57	188.1+/-	19.2	3.2+/- 11.9
02	17 19 21	8.23+/-	3.29	180.1+/-	20.5	4.3+/- 12.9
03	38 40 42	5.85+/-	2.59	184.8+/-	19.1	5.6+/- 8.1
04	41 43 45	4.94+/-	2.77	190.8+/-	35.7	3.8+/- 17.4
05	50 52 54	7.24+/-	3.06	190.0+/-	19.0	5.4+/- 8.4
06	56 58 60	4.17+/-	2.11	177.8+/-	29.7	8.8+/- 17.3

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8927 vehicles averaging 55.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	166	56.4	266	53.2	320	55.1	113	56.7	153	45.7
Cat2	527	57.7	613	55.0	624	55.7	576	57.1	219	46.6
Cat3	82	59.2	146	57.2	125	54.3	81	57.6	23	46.1
Cat4	58	62.1	88	59.3	51	56.2	35	57.5	10	43.6
Cat5	31	62.6	35	61.9	13	55.9	16	58.2	2	43.7

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	216	60.3	199	56.7	209	56.8	155	55.3	71	44.3
Cat2	757	59.5	685	56.1	682	54.5	621	55.2	204	44.1
Cat3	79	56.9	169	55.6	121	54.9	47	54.4	5	41.6
Cat4	59	61.7	78	56.3	74	56.5	17	53.2	2	42.9
Cat5	14	60.2	42	58.1	59	56.5	5	53.8	4	29.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.8	1868	20.9	55.5	5488	61.5	56.1	878	9.8	57.9	472	5.3	58.2	221	2.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	10.060+/-	4.093	37	N VA 102'	.175+/-	2.316	mph
12	N Dasibi CO	1.406+/-	.317	38	S BOT PER	5.922+/-	2.633	mph
13	N TOP PAR	1.859+/-	2.907	39	N VA 74'	.068+/-	2.095	mph
14	N Dasibi O3	.021+/-	.004	40	S BOT PAR	.888+/-	2.484	mph
15	N TOP VER	.008+/-	1.959	41	N GND PER	4.209+/-	2.934	mph
16	N NOX/TECO	.104+/-	.033	42	S BOT VER	.419+/-	.797	mph
17	N BOT PER	8.688+/-	3.918	43	N GND PAR	.867+/-	3.026	mph
18	N BOT PAR	.447+/-	2.763	45	N GND VER	.145+/-	1.272	mph
20	N NO2/TECO	.018+/-	.006	49	N Ecolyzer-1	.752+/-	.265	ppm
21	N BOT VER	.084+/-	1.788	50	S TOP PER	7.901+/-	3.594	mph
22	N NO/TECO	.086+/-	.030	51	N Ecolyzer-2	1.158+/-	.230	ppm
23	N HA 102'	14.271+/-	3.652	52	S TOP PAR	1.933+/-	2.796	ppm
24	N THC/Byron	2.010+/-	.109	53	N Ecolyzer-3	1.200+/-	.446	ppm
25	N WV 102'	187.480+/-	13.280	54	S TOP VER	.363+/-	.860	mph
26	N NMHC/Byro	2.296+/-	.457	55	N Ecolyzer-4	1.396+/-	.455	ppm
27	N Gnd Temp	81.133+/-	3.232	56	S GND PER	3.468+/-	1.883	mph
28	N CH4/Byron	1.049+/-	.070	57	N Ecolyzer-5	1.683+/-	.875	ppm
29	N WV 74'	176.457+/-	14.464	58	S GND PAR	.140+/-	2.197	mph
30	N CO/Byron	.658+/-	.432	59	N Rel Hum	76.930+/-	3.479	%
31	N 74' Temp	78.359+/-	3.060	60	S GND VER	.393+/-	1.067	mph
32	N CO2/Byron	396.963+/-	21.282	61	N Solar Rad	244.418+/-	112.996	W/m <sup>2</sup>
35	N HA 74'	13.234+/-	4.081	64	S VA 55'	.799+/-	1.919	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)	
01	11 13 15	10.84+/-	4.04	191.0+/-	17.0	1.9+/- 12.4
02	17 19 21	9.32+/-	3.87	183.0+/-	19.0	2.7+/- 12.9
03	38 40 42	6.47+/-	2.81	187.8+/-	19.8	5.2+/- 8.9
04	41 43 45	5.43+/-	2.89	169.3+/-	36.0	3.7+/- 16.7
05	50 52 54	8.58+/-	3.76	192.9+/-	18.0	4.0+/- 7.8
06	56 58 60	4.17+/-	2.08	180.1+/-	29.2	7.9+/- 17.5

Average for 15 minute period ending at 15:15:00  
Traffic Data  
Total Traffic = 2299 vehicles averaging 58.0 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows include Spd., Total, and %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments and their readings.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for UVW.

Average for 15 minute period ending at 15:30:00  
Traffic Data  
Total Traffic = 2453 vehicles averaging 57.0 mph

Westbound Traffic

Table with columns for Radar 1, Radar 3, Radar 5, Radar 7, Radar 9. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, Radar 10. Rows include Cat 1 through Cat 5 with No. and Spd. values.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, CAT 5. Rows include Spd., Total, and %.

Regular Channels

Large table with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various instruments and their readings.

UVW Vector Calculations

Table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg AZ, Elevation Angle (Deg). Shows vector calculations for UVW.

01	11	13	15	11.72+/-	3.35	183.2+/-	14.6	-7.7+/-	9.6
02	17	19	21	10.39+/-	3.54	178.1+/-	17.1	-1.0+/-	11.2
03	38	40	42	6.13+/-	2.55	181.3+/-	21.3	5.0+/-	7.8
04	41	43	45	5.61+/-	2.52	158.4+/-	32.6	1.6+/-	18.6
05	50	52	54	7.55+/-	3.24	185.3+/-	19.3	5.4+/-	11.5
06	56	58	60	4.35+/-	1.98	175.4+/-	29.9	7.9+/-	19.1

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2631 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	57	57.4	62	55.3	111	57.3	49	57.9	41	47.2
Cat2	138	58.8	173	56.4	163	57.5	154	58.6	62	48.7
Cat3	29	61.2	45	59.7	29	55.5	20	59.2	9	48.0
Cat4	19	63.6	18	64.1	8	57.3	8	58.9	3	46.5
Cat5	10	63.6	19	62.5	5	60.0	3	63.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	60.4	52	56.8	63	57.2	37	58.0	20	44.9
Cat2	201	61.7	221	57.7	220	57.1	173	58.2	84	46.5
Cat3	18	61.6	44	58.3	53	58.7	19	56.3	2	43.9
Cat4	10	61.4	36	60.1	23	58.5	4	57.8	0	.0
Cat5	5	63.4	18	59.7	12	61.6	2	64.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	571	21.7	57.3	1589	60.4	58.3	268	10.2	60.3	129	4.9	61.8	74	2.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.704+/-	4.651	37	N VA 102'	-1.167+/-	1.769
12	N Dasibi CD	2.010+/-	.380	38	S BDT PER	4.804+/-	1.727
13	N TOP PAR	.496+/-	2.575	39	N VA 74'	-.653+/-	1.935
14	N Dasibi 03	.016+/-	.002	40	S BDT PAR	-.146+/-	1.740
15	N TOP VER	-.103+/-	1.793	41	N GND PER	4.155+/-	2.857
16	N ND/TECO	.123+/-	.037	42	S BDT VER	.363+/-	.633
17	N BOT PER	9.209+/-	4.243	43	N GND PAR	-1.504+/-	2.804
19	N BOT PAR	-.507+/-	2.750	45	N GND VER	.288+/-	1.234
20	N ND2/TECO	.020+/-	.005	49	N Ecolyzer-1	.980+/-	.233
21	N BOT VER	.084+/-	1.855	50	S TOP PER	5.934+/-	2.681
22	N ND/TECO	.103+/-	.034	51	N Ecolyzer-2	1.383+/-	.208
23	N HA 102'	13.415+/-	4.085	52	S TOP PAR	-.392+/-	2.031
24	N THC/Byron	2.140+/-	.188	53	N Ecolyzer-3	1.538+/-	.516
25	N WV 102'	178.555+/-	12.495	54	S TOP VER	.333+/-	.898
26	N NMHC/Byro	2.078+/-	.535	55	N Ecolyzer-4	1.708+/-	.554
27	N Gnd Temp	80.423+/-	3.181	56	N GND PAR	3.275+/-	1.537
28	N CH4/Byron	.958+/-	.135	57	N Ecolyzer-5	2.702+/-	.898
29	N WV 74'	188.560+/-	12.734	58	N GND PAR	-.783+/-	1.990
30	N CD/Byron	1.360+/-	.221	59	N Rel Hum	78.733+/-	.439
31	N 74' Temp	76.854+/-	2.588	60	S GND VER	-.372+/-	.869
32	N CO2/Byron	406.774+/-	17.043	61	N Solar Rad	126.347+/-	34.659
35	N HA 74'	13.295+/-	4.821	64	S VA 55'	1.111+/-	1.648

UVW Vector Calculations

UVW	Channels	Vector Sum (mpn)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	11.20+/-	4.57	181.9+/-	15.8	1.5+/-	11.1
02	17 19 21	9.78+/-	4.21	175.0+/-	16.7	2.7+/-	12.4
03	38 40 42	5.16+/-	1.72	179.2+/-	19.1	5.2+/-	9.4
04	41 43 45	5.50+/-	2.62	154.9+/-	34.0	4.0+/-	18.3
05	50 52 54	8.38+/-	2.60	184.6+/-	20.3	5.1+/-	10.4
06	56 58 60	3.98+/-	1.89	170.2+/-	27.9	8.1+/-	16.5

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2736 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	57.4	67	54.0	114	57.1	40	58.3	39	46.8
Cat2	153	59.3	176	56.9	185	58.2	154	57.7	60	48.6
Cat3	28	59.2	51	58.8	33	57.0	15	58.7	7	46.6
Cat4	13	65.7	28	62.2	15	58.3	9	60.3	3	50.2
Cat5	12	66.1	16	65.6	4	59.9	2	69.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	60.0	52	55.3	62	55.3	47	55.4	42	44.0
Cat2	200	62.4	253	57.7	215	55.7	188	58.2	83	45.8
Cat3	21	64.8	38	58.7	49	57.2	22	57.5	7	46.6
Cat4	18	65.3	31	59.4	30	57.8	10	59.8	0	.0
Cat5	6	64.6	22	60.1	20	57.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	581	21.2	57.2	1647	60.2	58.0	271	9.9	60.5	155	5.7	62.1	82	3.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.473+/-	3.495	37	N VA 102'	.601+/-	2.150
12	N Dasibi CD	2.176+/-	.445	38	S BDT PER	5.030+/-	2.456
13	N TOP PAR	.171+/-	2.931	39	N VA 74'	-.191+/-	2.095
14	N Dasibi 03	.016+/-	.002	40	S BDT PAR	-.684+/-	2.129
15	N TOP VER	.588+/-	1.915	41	N GND PER	3.571+/-	2.523
16	N ND/TECO	.144+/-	.045	42	S BDT VER	.331+/-	.570
17	N BOT PER	7.319+/-	3.132	43	N GND PAR	-1.816+/-	2.688
19	N BOT PAR	-.861+/-	2.838	45	N GND VER	.303+/-	1.118
20	N ND2/TECO	.023+/-	.006	49	N Ecolyzer-1	1.054+/-	.209
21	N BOT VER	.381+/-	1.695	50	S TOP PER	6.055+/-	2.642
22	N ND/TECO	.120+/-	.041	51	N Ecolyzer-2	1.568+/-	.263
23	N HA 102'	11.950+/-	3.245	52	S TOP PAR	-.453+/-	2.521
24	N THC/Byron	2.047+/-	.113	53	N Ecolyzer-3	1.783+/-	.646
25	N WV 102'	177.780+/-	15.514	54	S TOP VER	-.405+/-	.876
26	N NMHC/Byro	2.456+/-	.190	55	N Ecolyzer-4	2.000+/-	.644
27	N Gnd Temp	80.137+/-	1.953	56	N GND PAR	3.118+/-	1.749
28	N CH4/Byron	.912+/-	.071	57	N Ecolyzer-5	*****	*****
29	N WV 74'	167.922+/-	17.393	58	S GND PAR	-1.202+/-	1.901

30	N CO/Byron	1.003+/-	.345	ppm	59	N Rel Hum	78.912+/-	.253	%
31	N 74' Temp	78.235+/-	2.583	DEGR	60	S GND VER	.292+/-	.979	mph
32	N CO2/Byron	429.409+/-	7.790	ppm	61	N Solar Rad	96.872+/-	24.803	W/m**2
35	N HA 74'	11.055+/-	3.733	mph	64	S VA 55'	1.289+/-	1.594	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	9.23+/-	3.35	181.8+/-	20.3	5.1+/-	13.7
02	17	19	21	8.14+/-	2.99	173.7+/-	22.9	5.0+/-	14.0
03	38	40	42	5.50+/-	2.54	175.4+/-	21.9	5.4+/-	8.5
04	41	43	45	5.05+/-	2.32	152.8+/-	35.1	4.9+/-	16.1
05	50	52	54	6.58+/-	2.80	179.5+/-	20.2	6.3+/-	10.8
06	56	58	60	3.83+/-	2.04	164.3+/-	28.1	6.3+/-	19.1

Average for hourly period ending at 16:00:00  
 Traffic Date  
 Total Traffic = 10119 vehicles averaging 57.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	225	57.3	277	54.6	403	56.8	179	57.9	153	48.5
Cat2	547	59.0	672	56.9	654	57.7	556	58.2	249	48.1
Cat3	100	60.2	177	59.7	108	56.9	68	58.6	28	46.0
Cat4	59	64.1	91	62.9	44	58.0	34	60.3	13	46.8
Cat5	34	64.7	47	64.1	14	59.7	6	67.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	271	60.4	228	56.5	273	56.8	170	57.5	105	44.3
Cat2	793	62.2	882	57.9	804	56.8	637	58.6	286	45.7
Cat3	72	62.9	165	58.8	187	57.6	77	59.0	14	45.2
Cat4	47	63.2	120	59.7	100	58.3	20	58.9	3	34.1
Cat5	19	65.5	54	59.9	50	60.7	3	62.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	2285	22.6	57.4	6080	60.1	58.4	996	9.8	60.2	531	5.2	62.3	227	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.587+/-	4.080	37	N VA 102'	.156+/-	2.039
12	N Dasibi CO	1.830+/-	.481	38	S BOT PER	5.398+/-	2.483
13	N TDP PAR	.178+/-	2.997	39	N VA 74'	-.342+/-	2.091
14	N Dasibi D3	.017+/-	.003	40	S BOT PAR	-.264+/-	2.125
15	N TOP VER	.034+/-	1.969	41	N GND PER	4.155+/-	2.718
16	N NOX/TECO	.121+/-	.039	42	S BOT VER	.350+/-	.651
17	N BOT PER	9.218+/-	3.943	43	N GND PAR	-1.861+/-	2.941
19	N BOT PAR	-.761+/-	3.015	45	N GND VER	.213+/-	1.303
20	N NO2/TECO	.019+/-	.006	49	N Ecolyzer-1	.849+/-	.217
21	N BOT VER	.025+/-	1.827	50	S TOP PAR	6.783+/-	3.192
22	N NO/TECO	.102+/-	.035	51	N Ecolyzer-2	1.331+/-	.267
23	N HA 102'	13.789+/-	4.020	52	S TOP VER	.079+/-	2.427
24	N THC/Byron	2.062+/-	.182	53	N Ecolyzer-3	1.485+/-	.534
25	N WV 102'	177.571+/-	13.690	54	S TOP VER	.362+/-	.939
26	N NMHC/Byro	2.491+/-	.459	55	N Ecolyzer-4	1.587+/-	.605
27	N Gnd Temp	78.935+/-	2.538	56	S GND PER	3.431+/-	1.817
28	N CH4/Byron	.985+/-	.111	57	N Ecolyzer-5	2.354+/-	.950
29	N WV 74'	168.011+/-	14.886	58	S GND PAR	-.758+/-	2.084
30	N CO/Byron	.729+/-	.531	59	N Rel Hum	78.000+/-	1.037
31	N 74' Temp	77.929+/-	2.731	60	S GND VER	.343+/-	.974
32	N CO2/Byron	412.148+/-	15.567	61	N Solar Rad	140.881+/-	67.568
35	N HA 74'	13.232+/-	4.395	64	S VA 55'	1.034+/-	1.806

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	11.20+/-	4.03	181.2+/-	16.8	1.8+/-	11.4
02	17	19	21	9.90+/-	3.83	175.0+/-	18.8	2.2+/-	12.2
03	38	40	42	5.83+/-	2.53	178.8+/-	20.6	5.2+/-	8.9
04	41	43	45	5.62+/-	2.63	154.8+/-	33.2	3.3+/-	16.7
05	50	52	54	7.27+/-	3.21	182.0+/-	19.6	5.4+/-	10.5
06	56	58	60	4.15+/-	1.97	171.2+/-	29.0	7.5+/-	17.9

16:01:33 -- END CAL. NCO-5 GRD  
 16:01:55 -- BEGIN CAL. NCO-4 GRD  
 16:10:37 -- BEGIN CAL. NCO-3  
 16:10:56 -- END CAL. NCO-4  
 16:19:55 -- BEGIN CAL. NCO-2  
 16:19:57 -- END CAL. NCO-3  
 16:29:59 -- END CAL. NCO-2  
 16:30:06 -- BEGIN CAL. NCO-1  
 16:39:52 -- END CAL. NCO-1 GRD  
 16:40:10 -- END CALIBRATION RUN-ALL ECCL. ON LINE  
 16:56:54 -- RESTART 3  
 16:56:55 -- 12/13/84  
 16:56:56 -- This is the third restart of 12/13/84

Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2763 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	57.5	71	54.4	106	56.6	35	58.9	40	46.1
Cat2	154	60.1	178	57.3	151	57.3	140	57.9	57	47.7
Cat3	33	61.7	49	61.0	35	57.2	10	55.2	5	44.2
Cat4	16	65.5	21	64.0	14	57.3	8	61.4	2	43.8
Cat5	6	65.0	13	63.4	2	60.9	3	63.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	60.6	45	56.5	62	56.2	53	57.1	42	44.3
Cat2	222	62.1	284	57.1	244	55.6	181	58.4	102	45.8
Cat3	14	66.1	45	56.6	42	55.4	21	58.8	5	45.7
Cat4	15	61.9	30	58.9	33	58.1	2	60.0	0	.0
Cat5	4	60.1	11	63.2	15	58.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	596	21.6	57.1	1713	62.0	58.2	259	9.4	60.3	141	5.1	61.8	54	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.046+/-	2.903	37	N VA 102'	.391+/-	2.185
12	N Dasibi CO	2.150+/-	.433	38	S BOT PER	6.237+/-	2.484
13	N TOP PAR	-1.594+/-	3.346	39	N VA 74'	-.389+/-	2.045
14	N Dasibi O3	-.016+/-	-.002	40	S BOT PAR	-1.458+/-	2.209
15	N TOP VER	.040+/-	1.847	41	N GND PER	4.287+/-	2.282
16	N NOX/TECO	.139+/-	.041	42	S BOT VER	.251+/-	.603
17	N BOT PER	8.740+/-	2.751	43	N GND PAR	-2.629+/-	2.777
18	N BOT PAR	-2.058+/-	2.950	45	N GND VER	-.147+/-	1.003
20	N NO2/TECO	.022+/-	-.006	49	N Ecolyzer-1	1.027+/-	.193
21	N BOT VER	.133+/-	1.539	50	S TOP PER	7.661+/-	3.260
22	N NO/TECO	.116+/-	-.038	51	N Ecolyzer-2	1.493+/-	.180
23	N HA 102'	13.380+/-	3.297	52	S TOP PAR	-1.478+/-	2.637
24	N THC/Byron	2.182+/-	.121	53	N Ecolyzer-3	*****	*****
25	N WV 102'	168.004+/-	14.278	54	S TOP VER	.179+/-	.845
26	N NMHC/Byro	2.850+/-	.318	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	75.590+/-	2.954	56	S GND PER	4.141+/-	1.738
28	N CH4/Byron	.922+/-	-.054	57	N Ecolyzer-5	2.655+/-	.953
29	N WV 74'	158.833+/-	14.397	58	S GND PAR	-1.963+/-	2.248
30	N CO/Byron	.739+/-	.101	59	N Rel Hum	78.873+/-	.228
31	N 74' Temp	78.854+/-	2.354	60	S GND VER	.286+/-	.802
32	N CO2/Byron	438.691+/-	24.855	61	N Solar Rad	97.100+/-	14.262
35	N HA 74'	12.574+/-	3.272	64	S VA 55'	.813+/-	1.494

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.84+/- 2.98	171.1+/- 17.5	1.2+/- 10.2
02	17 19 21	9.57+/- 2.77	166.7+/- 18.2	2.0+/- 9.6
03	38 40 42	6.73+/- 2.67	169.7+/- 18.2	3.4+/- 7.0
04	41 43 45	5.83+/- 2.29	149.4+/- 28.5	3.3+/- 12.8
05	50 52 54	8.22+/- 3.41	172.3+/- 18.9	2.8+/- 7.8
06	56 58 60	5.04+/- 2.10	159.2+/- 25.3	4.9+/- 12.9

Average for 15 minute period ending at 16:30:00  
 Traffic Data  
 Total Traffic = 2721 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	66	57.9	91	55.5	110	57.4	55	58.6	57	47.1
Cat2	158	60.0	188	57.2	180	57.6	133	60.2	65	46.8
Cat3	20	61.8	33	60.0	28	58.8	19	59.6	9	47.5
Cat4	25	64.1	38	62.7	11	58.0	9	62.2	3	47.7
Cat5	11	66.0	13	65.2	1	56.1	2	62.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	61.2	71	56.3	67	56.7	43	58.3	38	44.7
Cat2	183	62.0	243	57.6	223	57.0	166	59.8	87	46.0
Cat3	15	61.0	37	57.8	31	57.2	16	58.7	1	45.8
Cat4	10	62.4	30	60.0	24	60.1	1	57.1	0	.0
Cat5	3	65.5	9	60.4	17	57.8	1	55.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	667	24.5	57.5	1637	60.2	58.4	209	7.7	61.3	151	5.5	62.0	57	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.859+/-	3.494	37	N VA 102'	.318+/-	2.100
12	N Dasibi CO	2.399+/-	.462	38	S BOT PER	5.780+/-	2.673
13	N TOP PAR	-1.843+/-	2.956	39	N VA 74'	-.158+/-	1.881
14	N Dasibi O3	-.015+/-	-.002	40	S BOT PAR	-1.218+/-	2.011
15	N TOP VER	.163+/-	1.638	41	N GND PER	3.569+/-	2.282
16	N NOX/TECO	.148+/-	.044	42	S BOT VER	.306+/-	.686
17	N BOT PER	7.576+/-	3.272	43	N GND PAR	-3.143+/-	2.397
18	N BOT PAR	-2.571+/-	2.902	45	N GND VER	-.154+/-	1.195
20	N NO2/TECO	.023+/-	-.005	49	N Ecolyzer-1	1.116+/-	.193
21	N BOT VER	.209+/-	1.521	50	S TOP PER	7.090+/-	3.273
22	N NO/TECO	.125+/-	-.040	51	N Ecolyzer-2	*****	*****
23	N HA 102'	12.350+/-	3.537	52	S TOP PAR	-1.524+/-	2.318
24	N THC/Byron	2.275+/-	.077	53	N Ecolyzer-3	*****	*****
25	N WV 102'	167.095+/-	13.499	54	S TOP VER	.132+/-	.867

26	N NMHC/Byro	2.850+/-	.086	ppm	55	N Ecolyzer-4	1.911+/-	.685	ppm
27	N Gnd Temp	78.878+/-	3.044	DEGR F	56	S GND PER	3.438+/-	1.733	mph
28	N CH4/Byron	.953+/-	.093	ppm	57	N Ecolyzer-5	2.871+/-	1.098	ppm
29	N WV 74'	159.024+/-	14.294	DEGR AZ	58	S GND PAR	-1.488+/-	1.814	mph
30	N CD/Byron	1.451+/-	.279	ppm	59	N Re1 Hum	80.589+/-	.428	%
31	N 74' Temp	75.317+/-	2.831	DEGR F	60	S GND VER	.327+/-	.807	mph
32	N CD2/Byron	402.540+/-	14.806	ppm	61	N Solar Rad	68.896+/-	18.478	W/m**2
35	N HA 74'	11.148+/-	3.747	mph	64	S VA 55'	.747+/-	1.493	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.89+/-	3.53	170.2+/-	18.6	2.6+/- 13.7
02	17 19 21	8.80+/-	3.40	162.9+/-	19.5	2.3+/- 13.0
03	38 40 42	6.21+/-	2.84	171.0+/-	16.8	5.3+/- 11.3
04	41 43 45	5.41+/-	2.38	139.9+/-	29.7	2.3+/- 15.8
05	50 52 54	7.57+/-	3.48	171.1+/-	16.5	4.2+/- 11.2
06	56 58 60	4.11+/-	2.04	161.9+/-	24.0	7.8+/- 16.8

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic = 2747 vehicles averaging 57.0 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	59	58.4	92	54.9	106	56.7	56	58.0	46	44.9
Cat2	173	60.0	184	58.9	178	57.8	143	57.6	81	44.9
Cat3	28	61.6	39	60.3	20	56.6	17	56.4	6	47.2
Cat4	17	66.8	21	61.2	16	55.7	13	56.0	2	40.1
Cat5	12	65.5	13	66.5	1	56.9	3	47.6	0	.0

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	70	60.6	68	56.9	74	56.7	56	57.6	30	46.4
Cat2	176	62.0	231	56.8	220	57.1	167	58.1	104	46.2
Cat3	18	62.9	51	57.6	37	57.4	18	58.1	3	45.7
Cat4	12	62.3	28	58.2	23	57.0	5	57.1	1	35.9
Cat5	2	61.3	8	57.7	19	58.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	657	23.9	56.8	1657	60.3	58.3	237	8.6	58.9	138	5.0	61.1	58	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.833+/-	3.393	37	N VA 102'	.467+/-	2.108
12	N Dasibi CD	2.052+/-	.378	38	S BOT PER	5.867+/-	2.701
13	N TOP PAR	-.337+/-	2.992	39	N VA 74'	-.182+/-	1.903
14	N Dasibi D3	.015+/-	.003	40	S BOT PAR	-.888+/-	2.653
15	N TOP VER	.238+/-	1.728	41	N GND PER	3.447+/-	2.289
16	N ND/TECO	-.133+/-	.035	42	S BOT VER	-.322+/-	.781
17	N BOT PER	7.894+/-	3.410	43	N GND PAR	-1.862+/-	2.607
19	N BOT PAR	-1.050+/-	2.798	45	N GND VER	.048+/-	1.070
20	N ND2/TECO	-.021+/-	.004	49	N Ecolyzer-1	*****	*****
21	N BOT VER	-.230+/-	1.477	50	S TOP PER	8.957+/-	3.089
22	N ND/TECO	-.112+/-	.034	51	N Ecolyzer-2	1.663+/-	.277
23	N HA 102'	11.749+/-	3.095	52	S TOP PAR	-.280+/-	2.516
24	N THC/Byron	2.107+/-	.084	53	N Ecolyzer-3	1.773+/-	.640
25	N WV 102'	175.918+/-	13.095	54	S TOP VER	.270+/-	.925
26	N NMHC/Byro	3.703+/-	1.232	55	N Ecolyzer-4	2.027+/-	.633
27	N Gnd Temp	77.818+/-	2.220	56	S GND PER	3.419+/-	2.180
28	N CH4/Byron	.984+/-	.121	57	N Ecolyzer-5	2.710+/-	.878
29	N WV 74'	164.729+/-	15.846	58	S GND PAR	-.980+/-	2.183
30	N CD/Byron	1.457+/-	.578	59	N Re1 Hum	81.208+/-	.431
31	N 74' Temp	76.932+/-	2.888	60	S GND VER	.368+/-	.944
32	N CD2/Byron	406.286+/-	18.846	61	N Solar Rad	39.149+/-	10.094
35	N HA 74'	11.209+/-	3.002	64	S VA 55'	.713+/-	1.595

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.48+/-	3.42	179.8+/-	18.3	3.8+/- 12.3
02	17 19 21	8.37+/-	3.44	173.7+/-	18.9	4.2+/- 13.8
03	38 40 42	6.46+/-	2.88	175.9+/-	22.5	4.4+/- 9.8
04	41 43 45	4.78+/-	2.43	152.8+/-	33.8	1.7+/- 16.8
05	50 52 54	7.43+/-	3.17	181.4+/-	18.8	4.3+/- 10.5
06	56 58 60	4.20+/-	2.36	168.8+/-	30.9	7.3+/- 20.0

Average for 15 minute period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 2309 vehicles averaging 56.9 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 9		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	48	57.8	80	55.2	82	57.3	51	58.5	49	47.2
Cat2	144	59.1	149	56.6	157	57.6	124	59.1	47	47.1
Cat3	12	61.0	29	59.6	24	58.8	11	57.1	3	49.9
Cat4	14	63.2	17	61.2	8	54.3	6	64.3	1	47.2
Cat5	10	64.6	11	62.8	2	55.3	4	59.7	0	.0

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10		
Cat	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	
Cat1	63	60.1	45	55.6	54	55.5	46	56.0	34	45.4
Cat2	153	62.6	217	56.5	196	55.9	140	58.7	83	44.3
Cat3	19	62.2	41	57.1	38	57.0	11	58.4	2	43.8
Cat4	11	64.8	24	56.8	14	56.6	5	53.5	0	.0
Cat5	3	68.4	11	60.4	15	59.9	1	56.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.4	552	23.9	56.9	1410	61.1	58.0	190	8.2	59.3	100	4.3	61.6	57	2.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.926+/-	3.416	37	N VA 102'	.289+/-	1.834
12	N Dasibi CD	2.396+/-	.497	38	S BOT PER	4.944+/-	2.360
13	N TOP PAR	-1.858+/-	2.604	39	N VA 74'	-.145+/-	1.768
14	N Dasibi D3	.013+/-	.002	40	S BOT PAR	-1.104+/-	2.217
15	N TOP VER	.285+/-	1.943	41	N GND PER	3.603+/-	2.316
16	N ND/TECO	-.143+/-	.035	42	S BOT VER	.369+/-	.807

17	N BOT PER	7.354+/-	3.253	mph	43	N GND PAR	-2.869+/-	2.303	mph
19	N BOT PAR	-2.456+/-	2.490	mph	45	N GND VER	.194+/-	1.021	mph
20	N ND2/TECO	.021+/-	.004	ppm	49	N Ecolyzer-1	1.154+/-	.207	ppm
21	N BOT VER	.247+/-	1.225	mph	50	S TOP PER	6.390+/-	2.633	mph
22	N ND/TECO	.122+/-	.034	ppm	51	N Ecolyzer-2	1.772+/-	.316	ppm
23	N HA 102'	11.638+/-	2.984	mph	52	S TOP PAR	-1.228+/-	2.275	mph
24	N THC/Byron	2.136+/-	.069	ppm	53	N Ecolyzer-3	1.835+/-	.610	ppm
25	N WV 102'	166.002+/-	16.463	DEGR AZ	54	S TOP VER	.251+/-	.912	mph
26	N NMHC/Byro	2.853+/-	.288	ppm	55	N Ecolyzer-4	2.245+/-	.718	ppm
27	N Gnd Temp	77.707+/-	2.585	DEGR F	56	S GND PER	3.023+/-	1.912	mph
28	N CH4/Byron	.930+/-	.067	ppm	57	N Ecolyzer-5	3.050+/-	.869	ppm
29	N WV 74'	156.230+/-	16.157	DEGR AZ	58	S GND PAR	-.973+/-	1.875	mph
30	N CD/Byron	.622+/-	.367	ppm	59	N Rel Hum	81.343+/-	.284	%
31	N 74' Temp	76.179+/-	1.631	DEGR F	60	S GND VER	-.360+/-	.852	mph
32	N CO2/Byron	422.792+/-	8.904	ppm	61	N Solar Rad	29.851+/-	9.389	W/m**2
35	N HA 74'	11.013+/-	3.508	mph	64	S VA 55'	.784+/-	1.654	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	9.63+/-	3.34	168.0+/-	16.3	3.2+/-	10.9
02	17	19	21	8.26+/-	3.20	160.5+/-	19.3	3.1+/-	10.2
03	38	40	42	5.54+/-	2.49	171.1+/-	22.8	5.9+/-	11.5
04	41	43	45	5.30+/-	2.20	141.1+/-	27.9	3.5+/-	15.1
05	50	52	54	6.93+/-	2.71	170.9+/-	18.4	4.1+/-	10.6
06	56	58	60	3.74+/-	2.03	170.3+/-	30.8	9.0+/-	21.3

Average for hourly period ending at 17:00:00  
 Traffic Data  
 Total Traffic = 10540 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	231	57.9	334	55.0	404	57.0	197	58.4	201	48.4
Cat 2	630	59.8	699	57.0	666	57.6	540	58.7	250	46.5
Cat 3	93	61.6	150	60.3	107	57.4	57	57.4	23	47.0
Cat 4	72	64.9	97	62.4	49	56.4	36	60.1	8	44.8
Cat 5	39	65.3	50	64.5	6	57.6	12	58.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	277	60.6	229	56.4	257	56.3	198	57.2	144	45.1
Cat 2	734	62.2	975	57.0	883	56.4	654	59.0	386	45.6
Cat 3	66	62.9	174	57.3	148	56.7	66	58.0	11	45.3
Cat 4	48	62.8	112	58.6	94	58.1	13	56.2	1	35.9
Cat 5	12	63.7	39	60.6	66	58.6	2	55.8	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%			
55.7	2472	23.6	57.1	6417	60.9	58.2	895	8.5	60.0	530	5.0	61.6	226	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TOP PER	9.178+/-	3.338	37	N VA 102'	.370+/-	2.069	mph
12	N Dasibi CO	2.242+/-	.467	38	S BOT PER	5.744+/-	2.602	mph
13	N TOP PAR	-1.386+/-	3.073	39	N VA 74'	-.222+/-	1.907	mph
14	N Dasibi O3	-.015+/-	.002	40	S BOT PAR	-1.117+/-	2.301	mph
15	N TOP VER	.177+/-	1.750	41	N GND PER	3.732+/-	2.313	mph
16	N NOX/TECO	-.141+/-	.039	42	S BOT VER	-.309+/-	.719	mph
17	N BOT PER	7.864+/-	3.216	43	N GND PAR	-2.614+/-	2.579	mph
19	N BOT PAR	-2.014+/-	2.863	45	N GND VER	-.133+/-	1.076	mph
20	N ND2/TECO	.022+/-	.005	49	N Ecolyzer-1	1.107+/-	.206	ppm
21	N BOT VER	.203+/-	1.453	50	S TOP PER	7.055+/-	3.124	mph
22	N ND/TECO	.118+/-	.037	51	N Ecolyzer-2	1.623+/-	.274	ppm
23	N HA 102'	12.305+/-	3.311	52	S TOP PAR	-1.122+/-	2.497	mph
24	N THC/Byron	2.178+/-	.110	53	N Ecolyzer-3	1.701+/-	.610	ppm
25	N WV 102'	169.423+/-	14.757	54	S TOP VER	.296+/-	.886	mph
26	N NMHC/Byro	3.002+/-	.798	55	N Ecolyzer-4	2.039+/-	.680	ppm
27	N Gnd Temp	78.501+/-	2.763	56	S GND PER	3.529+/-	1.936	mph
28	N CH4/Byron	.948+/-	.090	57	N Ecolyzer-5	2.813+/-	.969	ppm
29	N WV 74'	160.132+/-	15.340	58	S GND PAR	-1.369+/-	2.083	mph
30	N CD/Byron	1.099+/-	.531	59	N Rel Hum	80.719+/-	.688	%
31	N 74' Temp	76.331+/-	2.553	60	S GND VER	-.335+/-	.852	mph
32	N CO2/Byron	417.205+/-	23.264	61	N Solar Rad	60.813+/-	29.619	W/m**2
35	N HA 74'	11.509+/-	3.440	64	S VA 55'	.763+/-	1.553	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	9.93+/-	3.36	172.4+/-	18.2	2.7+/-	11.9
02	17	19	21	8.72+/-	3.25	166.2+/-	19.5	3.1+/-	11.8
03	38	40	42	6.27+/-	2.76	172.2+/-	20.3	4.7+/-	10.0
04	41	43	45	5.33+/-	2.36	145.9+/-	30.5	2.7+/-	15.2
05	50	52	54	7.57+/-	3.25	174.1+/-	18.6	3.8+/-	10.1
06	56	58	60	4.30+/-	2.19	164.7+/-	28.1	7.1+/-	17.9

17:35:03 -- BEGIN CAL. NORTH ECOL. GRD  
 17:35:21 -- BEGIN CAL. NCO-5  
 17:41:04 -- READ ZERO NCO-5  
 17:49:54 -- END CAL. NCO-5  
 17:50:07 -- BEGIN CAL. NCO-4  
 17:58:56 -- BEGIN CALIBRATION OF NCO-3 CH 53

Average for 15 minute period ending at 17:15:00  
 Traffic Data  
 Total Traffic = 2877 vehicles averaging 56.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	89	57.9	92	54.9	116	56.9	43	58.6	44	46.7
Cat2	167	59.8	186	56.5	170	58.1	186	58.2	49	47.9
Cat3	25	61.3	44	60.9	27	58.3	10	61.7	6	47.6
Cat4	21	64.3	23	61.9	10	58.7	8	59.9	2	49.4
Cat5	5	66.3	8	65.1	5	57.2	5	63.4	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	60.4	77	55.4	74	55.1	49	57.5	42	34.4
Cat2	196	62.5	289	56.0	214	54.8	170	58.5	106	46.1
Cat3	16	65.3	41	56.5	54	55.2	8	57.3	5	46.1
Cat4	11	64.7	35	59.0	27	57.5	6	59.2	2	42.1
Cat5	2	66.2	8	55.8	15	57.0	3	59.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	712	24.7	56.9	1733	60.2	58.1	236	8.2	60.0	145	5.0	60.1	51	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	10.151+/-	3.704	37	N VA 102'	.293+/-	1.952
12	N Dasibi CO	2.074+/-	.522	38	S BDT PER	6.703+/-	2.932
13	N TOP PAR	-2.685+/-	2.750	39	N VA 74'	-.174+/-	2.142
14	N Dasibi O3	.015+/-	.002	40	S BDT PAR	-1.787+/-	2.102
15	N TOP VER	.152+/-	1.828	41	N GND PER	4.288+/-	2.652
16	N NOX/TECO	.123+/-	.040	42	S BDT VER	1.174+/-	2.877
17	N BDT PER	8.635+/-	3.547	43	N GND PAR	-3.499+/-	2.830
19	N BDT PAR	-3.328+/-	2.753	45	N GND VER	.231+/-	.980
20	N NO2/TECO	.019+/-	.004	49	N Ecolyzer-1	1.103+/-	.224
21	N BDT VER	.201+/-	1.581	50	S TOP PER	8.681+/-	3.431
22	N NO/TECO	.104+/-	.038	51	N Ecolyzer-2	1.884+/-	.220
23	N HA 102'	13.753+/-	3.804	52	S TOP PAR	-2.129+/-	2.368
24	N THC/Byron	2.066+/-	.167	53	N Ecolyzer-3	1.583+/-	.428
25	N WV 102'	165.155+/-	13.169	54	S TOP VER	.063+/-	.897
26	N NMHC/Byro	2.387+/-	.186	55	N Ecolyzer-4	1.919+/-	.602
27	N Gnd Temp	76.489+/-	2.645	56	S GND PER	4.470+/-	2.174
28	N CH4/Byron	.894+/-	.111	57	N Ecolyzer-5	2.654+/-	1.029
29	N WV 74'	153.741+/-	13.737	58	S GND PAR	-1.965+/-	2.053
30	N CO/Byron	1.137+/-	.545	59	N Rel Hum	81.632+/-	.229
31	N 74' Temp	75.968+/-	3.163	60	S GND VER	1.176+/-	.759
32	N CO2/Byron	430.712+/-	11.140	61	N Solar Rad	13.625+/-	4.047
35	N HA 74'	12.756+/-	3.901	64	S VA 55'	.660+/-	1.516

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.99+/- 3.77	185.4+/- 14.8	1.9+/- 10.0
02	17 19 21	9.73+/- 3.68	159.2+/- 15.8	2.5+/- 9.9
03	38 40 42	7.25+/- 3.07	185.8+/- 15.7	2.6+/- 8.1
04	41 43 45	6.26+/- 2.73	141.2+/- 27.4	3.0+/- 10.9
05	50 52 54	9.26+/- 3.50	186.9+/- 15.9	1.7+/- 7.4
06	56 58 60	5.19+/- 2.54	158.7+/- 19.8	3.5+/- 11.6

Average for 15 minute period ending at 17:30:00  
 Traffic Data  
 Total Traffic = 2928 vehicles averaging 56.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	56.4	88	53.9	128	56.0	88	57.9	56	47.4
Cat2	187	58.2	197	56.3	160	57.6	153	58.7	52	48.1
Cat3	27	60.1	45	59.7	40	57.4	14	58.4	3	44.7
Cat4	22	63.3	18	62.5	8	59.6	9	62.6	0	0
Cat5	11	63.7	17	64.5	4	53.2	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	78	60.4	70	55.9	68	55.1	57	56.0	54	44.9
Cat2	192	61.4	295	55.1	243	54.0	191	57.5	95	46.5
Cat3	17	62.8	53	57.6	46	53.9	12	56.6	1	42.9
Cat4	9	61.0	19	56.4	19	56.6	4	58.4	0	0
Cat5	3	63.8	11	55.2	19	56.2	1	56.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.9	751	25.6	58.2	1745	59.6	57.6	258	8.8	60.1	108	3.7	59.6	66	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.912+/-	3.173	37	N VA 102'	.782+/-	2.299
12	N Dasibi CO	2.148+/-	.451	38	S BDT PER	5.933+/-	2.308
13	N TOP PAR	-2.976+/-	3.177	39	N VA 74'	-.053+/-	1.999
14	N Dasibi O3	.015+/-	.002	40	S BDT PAR	-1.710+/-	2.095
15	N TOP VER	.376+/-	1.662	41	N GND PER	3.905+/-	2.397
16	N NOX/TECO	.129+/-	.032	42	S BDT VER	.262+/-	.918
17	N BDT PER	7.918+/-	2.966	43	N GND PAR	-3.380+/-	2.720
19	N BDT PAR	-3.415+/-	2.918	45	N GND VER	.285+/-	1.271
20	N NO2/TECO	.020+/-	.005	49	N Ecolyzer-1	1.129+/-	.212
21	N BDT VER	.379+/-	1.349	50	S TOP PER	7.355+/-	2.617
22	N NO/TECO	.109+/-	.029	51	N Ecolyzer-2	1.892+/-	2.752
23	N HA 102'	13.787+/-	3.554	52	S TOP PAR	-2.090+/-	2.431
24	N THC/Byron	2.128+/-	.080	53	N Ecolyzer-3	1.774+/-	.538
25	N WV 102'	163.113+/-	12.586	54	S TOP VER	.235+/-	.828
26	N NMHC/Byro	2.537+/-	.127	55	N Ecolyzer-4	1.976+/-	.646
27	N Gnd Temp	77.401+/-	1.689	56	S GND PER	3.785+/-	1.767
28	N CH4/Byron	.917+/-	.156	57	N Ecolyzer-5	2.764+/-	1.031
29	N WV 74'	153.582+/-	13.233	58	S GND PAR	-1.481+/-	1.717
30	N CO/Byron	.632+/-	.115	59	N Rel Hum	82.039+/-	.274
31	N 74' Temp	76.898+/-	2.972	60	S GND VER	1.367+/-	.852
32	N CO2/Byron	399.121+/-	21.609	61	N Solar Rad	5.041+/-	1.906



UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	10.88+/-	3.41	164.0+/-	15.2	3.5+/-	9.6
02	17	19	21	9.15+/-	3.14	156.9+/-	16.7	3.7+/-	10.1
03	38	40	42	6.55+/-	2.41	166.0+/-	17.3	3.7+/-	11.5
04	41	43	45	6.05+/-	2.20	139.0+/-	29.8	3.0+/-	14.9
05	50	52	54	8.02+/-	2.77	165.9+/-	16.9	3.0+/-	7.5
06	56	58	60	4.48+/-	1.84	160.3+/-	23.5	6.7+/-	17.5

Average for 15 minute period ending at 17:45:00  
 Traffic Data  
 Total Traffic = 2468 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	85	56.3	83	54.1	114	56.3	37	57.5	53	46.9
Cat2	172	58.2	182	55.8	176	56.4	141	57.7	49	49.6
Cat3	18	60.2	41	60.8	22	57.9	13	60.2	2	52.5
Cat4	18	61.9	20	63.6	4	57.4	5	57.1	0	.0
Cat5	2	62.8	4	62.6	2	60.0	1	48.6	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	61.7	74	57.1	78	57.2	45	57.5	48	46.3
Cat2	126	64.4	224	58.8	183	57.5	140	58.9	84	46.5
Cat3	8	65.0	38	60.1	29	57.4	16	59.7	1	46.2
Cat4	8	65.2	18	61.8	25	59.6	5	55.0	0	.0
Cat5	0	.0	4	61.4	6	60.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	681	27.6	57.3	1477	59.8	59.8	188	7.6	61.2	103	4.2	60.8	19	.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.100+/-	2.939	37	N VA 102'	.556+/-	1.680
12	N Dasibi CO	2.273+/-	.395	38	S BDT PER	4.858+/-	2.332
13	N TOP PAR	-1.917+/-	2.500	39	N VA 74'	-.293+/-	1.584
14	N Dasibi O3	.011+/-	.002	40	S BDT PAR	-.948+/-	1.729
15	N TOP VER	.671+/-	1.364	41	N GND PER	2.949+/-	2.076
16	N NDX/TECO	.152+/-	.028	42	S BDT VER	.328+/-	.822
17	N BDT PER	5.734+/-	2.734	43	N GND PAR	-2.818+/-	2.257
19	N BDT PAR	-2.103+/-	2.510	45	N GND VER	.200+/-	.740
20	N ND2/TECO	.021+/-	.005	49	N EcoLyzer-1	1.307+/-	.263
21	N BDT VER	.574+/-	1.089	50	S TOP PER	5.994+/-	2.794
22	N ND/TECO	.131+/-	.028	51	N EcoLyzer-2	2.140+/-	1.421
23	N HA 102'	9.994+/-	3.170	52	S TOP PAR	-1.636+/-	1.948
24	N THC/Byron	2.053+/-	.206	53	N EcoLyzer-3	2.050+/-	.837
25	N WV 102'	163.020+/-	16.069	54	S TOP VER	.215+/-	.860
26	N NMHC/Byro	2.122+/-	.486	55	N EcoLyzer-4	2.219+/-	.589
27	N Gnd Temp	77.453+/-	2.155	56	S GND PER	2.886+/-	1.787
28	N CH4/Byron	.938+/-	.204	57	N EcoLyzer-5	*****	*****
29	N WV 74'	155.152+/-	16.841	58	S GND PAR	-.833+/-	1.206
30	N CO/Byron	.448+/-	.268	59	N Rel Hum	82.625+/-	.378
31	N 74' Temp	75.160+/-	2.244	60	S GND VER	.211+/-	.640
32	N CO2/Byron	412.799+/-	20.164	61	N Solar Rad	4.224+/-	1.842
35	N HA 74'	8.991+/-	3.320	64	S VA 55'	.627+/-	1.515

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	7.87+/-	3.04	185.1+/-	17.9	6.2+/-	11.3
02	17	19	21	6.66+/-	2.85	180.1+/-	21.9	6.0+/-	12.5
03	38	40	42	5.26+/-	2.45	172.2+/-	19.5	7.0+/-	14.3
04	41	43	45	4.65+/-	2.23	138.4+/-	29.4	3.3+/-	13.1
05	50	52	54	6.52+/-	2.90	166.2+/-	16.8	4.2+/-	10.1
06	56	58	60	3.28+/-	1.81	168.4+/-	26.4	8.2+/-	18.3

Average for 15 minute period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 2357 vehicles averaging 56.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	69	55.9	85	53.0	85	54.8	40	57.1	36	47.2
Cat2	140	57.9	152	55.4	164	56.8	133	57.9	43	47.4
Cat3	12	58.7	33	59.5	27	57.0	9	55.9	2	45.1
Cat4	18	63.5	27	61.6	7	55.2	4	59.5	0	.0
Cat5	4	62.2	5	62.9	3	59.0	2	61.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	61.9	65	56.5	82	55.6	45	57.8	28	44.7
Cat2	145	61.9	268	57.7	218	56.9	157	57.7	59	45.5
Cat3	8	64.4	34	59.8	31	57.5	11	56.7	3	41.2
Cat4	4	63.7	13	58.3	16	57.5	2	59.6	0	.0
Cat5	3	61.3	5	58.4	5	58.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.3	590	25.0	56.9	1478	62.7	58.1	170	7.2	60.2	91	3.9	60.1	27	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.086+/-	4.128	37	N VA 102'	.183+/-	1.646
12	N Dasibi CO	1.928+/-	.669	38	S BDT PER	6.081+/-	2.958
13	N TOP PAR	-2.077+/-	2.429	39	N VA 74'	-.259+/-	1.894
14	N Dasibi O3	.014+/-	.003	40	S BDT PAR	-1.443+/-	2.066
15	N TOP VER	.079+/-	1.876	41	N GND PER	4.037+/-	2.878
16	N NDX/TECO	.120+/-	.046	42	S BDT VER	-.110+/-	.960
17	N BDT PER	7.325+/-	4.270	43	N GND PAR	-2.959+/-	2.661
19	N BDT PAR	-2.471+/-	2.486	45	N GND VER	.135+/-	.951
20	N ND2/TECO	.019+/-	.005	49	N EcoLyzer-1	1.065+/-	.206
21	N BDT VER	.242+/-	1.432	50	S TOP PER	7.089+/-	3.485
22	N ND/TECO	.101+/-	.043	51	N EcoLyzer-2	1.829+/-	.431
23	N HA 102'	11.935+/-	4.881	52	S TOP PAR	-1.488+/-	2.103
24	N THC/Byron	1.998+/-	.177	53	N EcoLyzer-3	1.622+/-	.527

25	N WV 102'	163.697+/-	14.534	DEGR AZ	54	S TOP VER	.069+/-	.945	mph
26	N NMHC/Byro	2.317+/-	.450	ppm	55	N Ecolyzer-4	*****+/-*****		ppm
27	N Gnd Temp	77.062+/-	1.772	DEGR F	56	S GND PER	3.490+/-	2.329	mph
28	N CH4/Byron	1.060+/-	.089	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	154.934+/-	13.310	DEGR AZ	58	S GND PAR	-1.436+/-	1.669	mph
30	N CD/Byron	1.119+/-	.353	ppm	59	N Rel Hum	83.016+/-	.347	%
31	N 74' Temp	74.744+/-	1.378	DEGR F	60	S GND VER	.188+/-	.782	mph
32	N CO2/Byron	397.818+/-	11.709	ppm	61	N Solar Rad	2.634+/-	1.310	W/m**2
35	N HA 74'	11.159+/-	4.657	mph	64	S VA 55'	.516+/-	1.581	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	9.76+/-	4.17	165.8+/-	15.0	1.5+/-	9.1
02	17	19	21	8.28+/-	4.19	158.1+/-	20.8	3.2+/-	10.6
03	38	40	42	6.56+/-	3.16	168.0+/-	16.1	2.0+/-	9.1
04	41	43	45	5.79+/-	2.79	140.9+/-	29.4	1.9+/-	9.2
05	50	52	54	7.57+/-	3.56	167.0+/-	14.9	2.0+/-	8.3
06	56	58	60	4.17+/-	2.53	163.8+/-	28.0	5.6+/-	17.1

Average for hourly period ending at 18:00:00  
 Traffic Data  
 Total Traffic = 10630 vehicles averaging 56.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	307	56.7	349	54.0	423	56.2	188	57.8	189	47.0
Cat2	646	58.6	717	56.1	670	57.2	613	58.1	193	48.3
Cat3	82	60.3	163	60.3	116	57.6	46	58.5	13	47.3
Cat4	79	63.3	88	62.3	29	57.9	26	60.2	2	48.4
Cat5	22	63.9	34	64.2	14	56.8	8	61.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	322	61.1	286	56.2	302	55.8	196	57.1	172	45.1
Cat2	659	62.4	1076	56.7	858	55.7	658	58.1	344	46.2
Cat3	49	64.3	166	58.4	160	55.7	47	57.8	10	44.3
Cat4	32	63.7	85	58.9	87	57.9	17	57.8	2	42.1
Cat5	8	63.4	28	56.5	45	57.3	4	58.5	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5						
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total					
55.3	2734	25.7	56.8	6434	60.5	58.3	852	8.0	60.4	447	4.2	60.0	163	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.065+/-	3.709	37	N VA 102'	.453+/-	1.922
12	N Dasibi CO	2.106+/-	.534	38	S BOT PER	5.894+/-	2.727
13	N TOP PAR	-2.414+/-	2.766	39	N VA 74'	-.048+/-	1.826
14	N Dasibi O3	.014+/-	.003	40	S BOT PAR	-1.472+/-	2.027
15	N TOP VER	.320+/-	1.654	41	N GND PER	3.795+/-	2.564
16	N NOX/TECO	.131+/-	.039	42	S BOT VER	.213+/-	.898
17	N BOT PER	7.403+/-	3.587	43	N GND PAR	-3.184+/-	2.636
19	N BOT PAR	-2.829+/-	2.720	45	N GND VER	.213+/-	1.003
20	N NO2/TECO	.020+/-	.005	49	N Ecolyzer-1	1.151+/-	.246
21	N BOT VER	.349+/-	1.379	50	S TDP PER	7.280+/-	3.243
22	N NO/TECO	.111+/-	.037	51	N Ecolyzer-2	1.886+/-	1.574
23	N HA 102'	12.367+/-	4.141	52	S TOP PAR	-1.836+/-	2.234
24	N THC/Byron	2.062+/-	.167	53	N Ecolyzer-3	1.760+/-	.668
25	N WV 102'	163.749+/-	14.379	54	S TDP VER	.145+/-	.885
26	N NMHC/Byro	2.341+/-	.373	55	N Ecolyzer-4	1.985+/-	.658
27	N Gnd Temp	77.101+/-	2.082	56	S GND PER	3.658+/-	2.099
28	N CH4/Byron	.952+/-	.168	57	N Ecolyzer-5	*****+/-*****	
29	N WV 74'	154.349+/-	14.379	58	S GND PAR	-1.429+/-	1.782
30	N CD/Byron	.834+/-	.461	59	N Rel Hum	82.328+/-	.814
31	N 74' Temp	75.642+/-	2.660	60	S GND VER	-.235+/-	.764
32	N CO2/Byron	410.112+/-	21.167	61	N Solar Rad	6.381+/-	4.951
35	N HA 74'	11.322+/-	4.167	64	S VA 55'	.692+/-	1.550

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)		Bearing Deg AZ		Elevation Angle (Deg)	
01	11	13	15	9.88+/-	3.83	165.1+/-	15.7	3.3+/-	10.2
02	17	19	21	8.46+/-	3.68	158.6+/-	19.0	3.9+/-	10.9
03	38	40	42	6.40+/-	2.88	168.0+/-	17.4	3.8+/-	11.2
04	41	43	45	5.69+/-	2.58	139.9+/-	29.0	2.8+/-	12.2
05	50	52	54	7.84+/-	3.34	166.5+/-	16.1	2.7+/-	8.4
06	56	58	60	4.28+/-	2.31	162.7+/-	24.8	6.0+/-	16.4

18:05:53 -- END CALIBRATION CO-3 CH 53  
 18:06:02 -- BEGIN CALIBRATION OF NCD-2 CH 51  
 18:13:21 -- END CALIBRATION OF NCD-2 CH 51  
 18:13:29 -- BEGIN CALIBRATION OF NCD-1 CH 49  
 18:21:24 -- END ECOLYZER CALIBRATION  
 18:57:47 -- BEGIN ECOLYZER END CALIBRATIONS.  
 18:58:03 -- SPANNING CD-5 CH 57

Average for 15 minute period ending at 18:15:00  
 Traffic Data  
 Total Traffic = 2174 vehicles averaging 56.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	55.8	95	53.9	70	54.8	35	57.0	44	46.8
Cat2	132	57.2	148	55.0	170	56.3	122	57.9	27	48.9
Cat3	10	60.7	29	61.4	27	56.2	8	59.0	1	44.8
Cat4	14	60.5	12	60.2	9	55.9	4	63.7	3	45.7
Cat5	7	62.9	12	62.6	1	55.7	1	54.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	59.2	56	56.2	74	55.9	43	55.7	35	45.5
Cat2	147	61.5	202	56.9	187	56.3	125	57.9	59	45.0
Cat3	8	62.1	30	55.9	31	55.6	9	57.9	2	44.9
Cat4	4	61.1	13	57.3	12	57.0	7	55.3	0	.0
Cat5	3	67.9	6	57.3	6	59.1	1	56.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
54.6	585	26.9	56.5	1319	60.7	57.6	155	7.1	58.0	78	3.6	61.1	37	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.891+/-	2.273	37	N VA 102'	.759+/-	1.805
12	N Dasibi CD	1.976+/-	.364	38	S BDT PER	5.168+/-	1.932
13	N TOP PAR	-3.095+/-	2.133	39	N VA 74'	.043+/-	1.554
14	N Dasibi D3	.013+/-	.002	40	S BOT PAR	-1.759+/-	1.709
15	N TOP VER	.352+/-	1.365	41	N GND PER	3.231+/-	1.728
16	N ND/TECO	.140+/-	.039	42	S BDT VER	.271+/-	.854
17	N BDT PER	5.589+/-	2.304	43	N GND PAR	-3.542+/-	1.914
19	N BDT PAR	-3.169+/-	2.051	45	N GND VER	.227+/-	.752
20	N ND2/TECO	.021+/-	.005	49	N Ecolyzer-1	.465+/-	.216
21	N BDT VER	.413+/-	.982	50	S TOP PER	6.002+/-	1.991
22	N ND/TECO	.118+/-	.038	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	9.654+/-	2.684	52	S TOP PAR	-2.204+/-	1.864
24	N THC/Byron	2.239+/-	.123	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	156.060+/-	13.909	54	S TOP VER	.228+/-	.796
26	N NMHC/Byro	3.236+/-	.653	55	N Ecolyzer-4	2.619+/-	.581
27	N Gnd Temp	75.056+/-	2.422	56	S GND PER	3.060+/-	1.575
28	N CH4/Byron	1.164+/-	.089	57	N Ecolyzer-5	2.455+/-	.951
29	N WV 74'	146.891+/-	14.146	58	S GND PAR	-1.300+/-	1.406
30	N CD/Byron	.923+/-	.121	59	N Rel Hum	83.227+/-	.302
31	N 74' Temp	73.571+/-	2.426	60	S GND VER	.154+/-	.480
32	N CD2/Byron	405.471+/-	9.185	61	N Solar Rad	2.680+/-	1.793
35	N HA 74'	9.074+/-	2.568	64	S VA 55'	.660+/-	1.090

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.95+/- 2.36	155.7+/- 15.2	3.6+/- 10.2
02	17 19 21	6.80+/- 2.39	150.3+/- 16.8	4.2+/- 9.6
03	38 40 42	5.77+/- 2.00	161.9+/- 17.6	4.2+/- 10.1
04	41 43 45	5.21+/- 1.75	132.6+/- 21.0	2.8+/- 8.6
05	50 52 54	6.66+/- 2.15	160.9+/- 15.2	3.3+/- 7.8
06	56 58 60	3.59+/- 1.69	160.5+/- 23.3	5.7+/- 15.4

Average for 15 minute period ending at 18:30:00  
 Traffic Data  
 Total Traffic = 2085 vehicles averaging 57.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	77	56.8	73	53.6	75	55.1	26	57.9	25	46.7
Cat2	121	59.0	164	56.0	161	57.0	115	58.4	45	46.7
Cat3	17	59.6	40	61.4	22	57.3	9	58.3	3	47.9
Cat4	13	61.6	12	62.4	11	58.0	4	58.7	1	82.4
Cat5	6	66.5	3	64.5	0	.0	2	72.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	60.4	63	55.8	69	56.0	39	57.5	20	45.5
Cat2	161	62.1	191	57.9	174	56.3	112	59.0	53	44.9
Cat3	6	58.8	26	58.5	21	58.8	10	58.4	1	44.0
Cat4	7	65.7	10	61.5	14	60.3	3	57.3	0	.0
Cat5	1	66.5	4	59.1	2	57.0	0	.0	1	32.4

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	539	25.9	57.2	1297	62.2	58.9	155	7.4	61.3	75	3.6	62.4	19	.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.682+/-	2.496	37	N VA 102'	.305+/-	1.214
12	N Dasibi CD	2.074+/-	.393	38	S BDT PER	4.709+/-	2.413
13	N TOP PAR	-2.397+/-	2.123	39	N VA 74'	-.066+/-	1.415
14	N Dasibi D3	.012+/-	.002	40	S BOT PAR	-1.420+/-	1.810
15	N TOP VER	.296+/-	1.302	41	N GND PER	2.921+/-	1.786
16	N ND/TECO	.141+/-	.029	42	S BOT VER	.218+/-	.804
17	N BDT PER	4.949+/-	2.499	43	N GND PAR	-3.085+/-	1.973
19	N BDT PAR	-2.731+/-	1.923	45	N GND VER	.154+/-	.693
20	N ND2/TECO	.023+/-	.004	49	N Ecolyzer-1	*****+/-	*****
21	N BDT VER	.241+/-	1.055	50	S TOP PER	5.217+/-	2.819
22	N ND/TECO	.118+/-	.029	51	N Ecolyzer-2	1.304+/-	.254
23	N HA 102'	9.418+/-	2.407	52	S TOP PAR	-1.770+/-	1.597
24	N THC/Byron	2.186+/-	.116	53	N Ecolyzer-3	2.228+/-	.551
25	N WV 102'	157.241+/-	13.115	54	S TOP VER	.110+/-	.818
26	N NMHC/Byro	2.560+/-	.142	55	N Ecolyzer-4	2.681+/-	.535
27	N Gnd Temp	77.167+/-	2.131	56	S GND PER	2.652+/-	1.877
28	N CH4/Byron	.984+/-	.111	57	N Ecolyzer-5	2.660+/-	.976
29	N WV 74'	148.305+/-	14.029	58	S GND PAR	-1.224+/-	1.330
30	N CD/Byron	.997+/-	.123	59	N Rel Hum	83.260+/-	.209
31	N 74' Temp	76.541+/-	2.308	60	S GND VER	.228+/-	.643

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	7.50+/- 2.59	161.0+/- 16.3	3.9+/- 11.5
02	17 19 21	6.08+/- 2.47	150.1+/- 20.0	3.7+/- 12.8
03	38 40 42	5.21+/- 2.62	166.8+/- 17.3	4.7+/- 11.7
04	41 43 45	4.70+/- 1.88	134.1+/- 24.2	2.7+/- 10.6
05	50 52 54	5.77+/- 2.86	163.1+/- 19.1	4.7+/- 13.5
06	56 58 60	3.22+/- 1.97	160.6+/- 26.9	8.9+/- 18.4

Average for 15 minute period ending at 18:45:00  
Traffic Data  
 Total Traffic = 1986 vehicles averaging 56.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	55.0	104	53.7	73	55.5	32	58.4	23	43.3
Cat2	113	56.8	145	55.7	159	56.7	103	57.8	47	46.1
Cat3	16	57.5	31	59.3	21	58.2	5	57.7	3	43.2
Cat4	9	61.7	8	62.9	10	57.5	3	51.0	1	48.4
Cat5	0	.0	3	61.2	1	57.8	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	59.8	46	56.1	82	57.5	42	57.8	30	44.2
Cat2	170	60.9	184	57.7	147	56.7	118	58.5	45	44.8
Cat3	8	59.3	24	55.9	20	56.9	9	58.9	3	41.5
Cat4	7	61.6	19	57.5	8	52.8	0	.0	0	.0
Cat5	0	.0	2	50.1	4	53.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.2	550	27.6	56.7	1231	61.7	57.2	140	7.0	58.2	65	3.3	55.4	10	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.181+/-	2.705	37	N VA 102'	.519+/-	1.895
12	N Dasibi CO	1.725+/-	.466	38	S BOT PER	5.616+/-	2.296
13	N TOP PAR	-4.045+/-	2.852	39	N VA 74'	-.126+/-	1.870
14	N Dasibi O3	.012+/-	.002	40	S BOT PAR	-1.972+/-	1.800
15	N TOP VER	.340+/-	1.486	41	N GND PER	3.689+/-	2.008
16	N NDX/TECO	.116+/-	.031	42	S BOT VER	.161+/-	.838
17	N BOT PER	6.467+/-	2.760	43	N GND PAR	-4.114+/-	2.214
18	N BOT PAR	-4.234+/-	2.528	45	N GND VER	.180+/-	.785
20	N ND2/TECO	.021+/-	.004	49	N Ecolyzer-1	.467+/-	.197
21	N BOT VER	.292+/-	1.214	50	S TOP PER	6.612+/-	2.549
22	N ND/TECO	.095+/-	.030	51	N Ecolyzer-2	1.316+/-	.210
23	N HA 102'	11.285+/-	3.136	52	S TOP PAR	-2.726+/-	1.996
24	N THC/Byron	2.283+/-	.187	53	N Ecolyzer-3	2.135+/-	.425
25	N WV 102'	156.534+/-	12.819	54	S TOP VER	.083+/-	.526
26	N NMHC/Byro	2.120+/-	.128	55	N Ecolyzer-4	2.231+/-	.497
27	N Gnd Temp	75.968+/-	2.407	56	S GND PER	3.318+/-	2.203
28	N CH4/Byron	1.073+/-	.098	57	N Ecolyzer-5	2.269+/-	.991
29	N WV 74'	145.427+/-	13.231	58	S GND PAR	-1.555+/-	1.483
30	N CD/Byron	.795+/-	.393	59	N Rel Hum	83.179+/-	.321
31	N 74' Temp	74.613+/-	2.636	60	S GND VER	.218+/-	.739
32	N C02/Byron	436.248+/-	14.649	61	N Solar Rad	2.089+/-	1.717
35	N HA 74'	10.853+/-	3.071	64	S VA 55'	.644+/-	1.355

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg A2	Elevation Angle (Deg)
01	11 13 15	9.59+/- 2.82	153.8+/- 15.0	2.8+/- 9.0
02	17 19 21	8.28+/- 2.58	146.2+/- 18.9	2.4+/- 8.6
03	38 40 42	6.27+/- 2.42	161.4+/- 16.2	2.7+/- 10.2
04	41 43 45	6.03+/- 1.93	132.2+/- 22.2	2.0+/- 7.6
05	50 52 54	7.41+/- 2.75	158.3+/- 13.7	2.1+/- 8.7
06	56 58 60	4.01+/- 2.22	157.4+/- 27.2	6.3+/- 19.1

Average for 15 minute period ending at 19:00:00  
Traffic Data  
 Total Traffic = 1965 vehicles averaging 57.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	55.5	88	53.9	78	55.7	37	58.8	35	48.4
Cat2	108	57.2	141	54.8	168	56.3	105	58.5	33	46.4
Cat3	12	58.3	30	59.4	12	55.0	3	55.6	2	47.4
Cat4	10	59.3	13	60.3	7	56.8	4	60.3	1	40.6
Cat5	4	60.1	5	62.9	2	57.1	1	64.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	60.0	75	57.9	70	57.6	38	56.6	24	44.7
Cat2	178	61.6	152	58.5	157	58.1	106	58.9	35	46.0
Cat3	6	61.7	16	60.1	19	56.4	7	58.3	4	42.6
Cat4	8	62.5	10	58.8	13	61.1	1	52.4	0	.0
Cat5	2	66.8	4	60.1	3	60.9	1	xxx	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.6	584	29.7	57.4	1183	60.2	57.5	111	5.6	58.5	65	3.3	63.4	22	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.223+/-	2.985	37	N VA 102'	.379+/-	1.882
12	N Dasibi CO	1.295+/-	.226	38	S BOT PER	6.605+/-	2.365
13	N TOP PAR	-4.436+/-	2.928	39	N VA 74'	-.198+/-	1.959
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-2.738+/-	2.075
15	N TOP VER	.578+/-	1.681	41	N GND PER	3.925+/-	2.285
16	N NDX/TECO	.094+/-	.023	42	S BOT VER	.152+/-	1.032
17	N BOT PER	7.787+/-	2.742	43	N GND PAR	-4.327+/-	2.747
18	N BOT PAR	-4.790+/-	2.704	45	N GND VER	.220+/-	.885
20	N ND2/TECO	.018+/-	.004	49	N Ecolyzer-1	.325+/-	.180
21	N BOT VER	.589+/-	1.474	50	S TOP PER	7.949+/-	2.765
22	N ND/TECO	.078+/-	.022	51	N Ecolyzer-2	.882+/-	.185
23	N HA 102'	13.360+/-	3.359	52	S TOP PAR	-3.243+/-	2.276

24	N THC/Byron	2.000+/-	.146	ppm	53	N Ecolyzer-3	2.054+/-	.396	ppm
25	N WV 102'	155.395+/-	12.735	DEGR AZ	54	S TOP VER	.199+/-	1.025	mph
26	N NMHC/Byro	1.977+/-	.357	ppm	55	N Ecolyzer-4	1.951+/-	.352	ppm
27	N Gnd Temp	75.421+/-	2.794	DEGR F	56	S GND PER	4.235+/-	1.801	mph
28	N CH4/Byron	1.083+/-	.113	ppm	57	N Ecolyzer-5	1.723+/-	.711	ppm
29	N WV 74'	145.786+/-	14.206	DEGR AZ	58	S GND PAR	-2.122+/-	1.596	mph
30	N CO/Byron	.409+/-	.006	ppm	59	N Rel Hum	83.407+/-	.263	%
31	N 74' Temp	73.571+/-	3.008	DEGR F	60	S GND VER	.160+/-	.770	mph
32	N CO2/Byron	402.703+/-	22.558	ppm	61	N Solar Rad	2.589+/-	1.731	W/m**2
35	N HA 74'	12.297+/-	3.484	mph	64	S VA 55'	.913+/-	1.499	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.77+/- 3.07	154.5+/- 16.3	4.0+/- 10.2
02	17 19 21	9.60+/- 2.84	148.7+/- 15.1	4.8+/- 10.5
03	38 40 42	7.50+/- 2.42	157.8+/- 15.8	2.3+/- 9.3
04	41 43 45	6.45+/- 2.46	132.9+/- 23.4	2.2+/- 10.0
05	50 52 54	8.88+/- 2.96	158.7+/- 14.1	2.1+/- 7.9
06	56 58 60	5.02+/- 1.90	153.8+/- 18.5	2.7+/- 15.3

Average for hourly period ending at 19:00:00  
Traffic Data  
 Total Traffic = 8220 vehicles averaging 56.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	267	55.8	361	53.8	296	55.3	130	58.0	127	45.5
Cat2	474	57.6	598	55.4	658	56.6	445	58.1	152	46.8
Cat3	55	58.9	130	60.4	82	56.8	25	58.1	9	45.9
Cat4	46	60.8	45	61.3	37	57.1	15	58.9	6	51.4
Cat5	17	63.5	23	62.7	4	56.9	4	65.8	0	

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	271	59.9	240	56.8	295	56.8	182	56.9	109	45.0
Cat2	656	61.5	728	57.7	685	58.8	461	58.5	192	45.1
Cat3	28	60.5	96	57.3	91	56.8	35	58.4	10	42.9
Cat4	24	62.9	52	58.5	47	58.4	11	55.6	0	
Cat5	6	67.3	16	57.6	15	57.6	2	60.7	1	32.4

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
55.2	2258	27.5	56.9	5030	61.2	57.9	561	6.8	59.2	283	3.4	61.3	88	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	7.744+/-	2.817	37	N VA 102'	.490+/-	1.675
12	N Dasibi CO	1.767+/-	.479	38	S BDT PER	5.524+/-	2.361
13	N TDP PAR	-3.493+/-	2.604	39	N VA 74'	-.982+/-	1.716
14	N Dasibi O3	.013+/-	.002	40	S BDT PAR	-1.975+/-	1.936
15	N TDP VER	.391+/-	1.486	41	N GND PER	3.462+/-	2.001
16	N NOX/TECO	.123+/-	.035	42	S BDT VER	-.201+/-	.910
17	N BDT PER	6.198+/-	2.789	43	N GND PAR	-3.787+/-	2.284
19	N BDT PAR	-3.731+/-	2.460	45	N GND VER	-.195+/-	.776
20	N NO2/TECO	.020+/-	.005	49	N Ecolyzer-1	.453+/-	.226
21	N BDT VER	.384+/-	1.201	50	S TDP PER	6.445+/-	2.738
22	N NO/TECO	.102+/-	.035	51	N Ecolyzer-2	1.180+/-	.294
23	N HA 102'	10.928+/-	3.314	52	S TDP PAR	-2.486+/-	2.022
24	N THC/Byron	2.172+/-	.179	53	N Ecolyzer-3	2.144+/-	.476
25	N WV 102'	156.307+/-	13.142	54	S TDP VER	.155+/-	.896
26	N NMHC/Byro	2.473+/-	.620	55	N Ecolyzer-4	2.370+/-	.580
27	N Gnd Temp	75.903+/-	2.519	56	S GND PER	3.316+/-	1.962
28	N CH4/Byron	1.071+/-	.124	57	N Ecolyzer-5	2.295+/-	.980
29	N WV 74'	145.601+/-	13.923	58	S GND PAR	-1.550+/-	1.491
30	N CO/Byron	.781+/-	.367	59	N Rel Hum	83.268+/-	.272
31	N 74' Temp	74.574+/-	2.820	60	S GND VER	.190+/-	.667
32	N CO2/Byron	419.394+/-	21.901	61	N Solar Rad	2.691+/-	1.793
35	N HA 74'	10.230+/-	3.356	64	S VA 55'	.691+/-	1.275

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.95+/- 3.01	156.2+/- 15.9	3.6+/- 10.3
02	17 19 21	7.68+/- 2.93	148.8+/- 17.8	3.8+/- 10.5
03	38 40 42	6.19+/- 2.52	161.9+/- 17.0	3.5+/- 10.4
04	41 43 45	5.60+/- 2.13	132.9+/- 22.7	2.4+/- 8.3
05	50 52 54	7.18+/- 2.92	160.2+/- 15.8	3.0+/- 9.8
06	56 58 60	3.95+/- 2.06	158.0+/- 24.4	5.9+/- 17.3

19:00:33 -- SPANNING CO-4 CH 55  
 19:05:21 -- SPANNING NCO-2 CH 51  
 19:07:59 -- SPANNING NCO-1 CH 49  
 19:10:23 -- RESPANNING CH 51 NCO-2  
 19:14:55 -- TURNING OFF BYRON AND TECD FOR END CALIBRATIONS IN SUBSEQUENT FILE.  
 19:25:59 -- BEGIN READING ZEROS ON ECDLYZERS GRD  
 19:33:20 -- END DATA RUN OF 12/13/84. WILL BEGIN A CALIBRATION FILE FOR ALL INSTRUMENTS IN ME  
 19:33:27 -- L-2 AFTER THIS FILE

Average for 15 minute period ending at 19:15:00  
 Traffic Data  
 Total Traffic = 1625 vehicles averaging 57.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	54	56.9	87	53.8	60	58.3	35	57.9	27	45.0
Cat2	76	57.9	132	56.9	145	57.2	82	58.5	25	46.6
Cat3	11	61.0	17	59.2	16	59.2	5	58.4	1	47.5
Cat4	8	65.9	16	63.7	3	60.1	1	52.9	0	.0
Cat5	0	.0	0	.0	1	61.5	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	76	60.6	55	58.2	55	57.5	34	57.8	13	43.7
Cat2	108	62.3	160	58.1	127	58.1	89	57.9	26	45.3
Cat3	5	63.9	8	59.2	17	58.0	6	58.7	3	43.5
Cat4	6	65.0	12	59.2	8	59.1	0	.0	1	49.2
Cat5	0	.0	3	58.7	1	50.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	506	31.1	57.6	970	59.7	58.7	89	5.5	61.9	55	3.4	57.5	5	.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.105+/-	2.832	37	N VA 102'	.519+/-	2.069
12	N Dasibi CD	1.289+/-	.348	38	S BOT PER	5.711+/-	2.745
13	N TOP PAR	-4.902+/-	2.793	39	N VA 74'	-.318+/-	1.700
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	-2.449+/-	2.185
15	N TOP VER	.322+/-	1.475	41	N GND PER	3.892+/-	2.273
16	N NDX/TECD	.087+/-	.030	42	S BOT VER	.385+/-	.933
17	N BOT PER	7.353+/-	2.617	43	N GND PAR	-5.118+/-	2.725
18	N BOT PAR	-5.405+/-	2.785	45	N GND VER	.304+/-	.886
20	N ND2/TECD	.018+/-	.004	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.341+/-	1.361	50	S TOP PER	7.005+/-	2.952
22	N ND/TECD	.069+/-	.027	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	12.482+/-	3.131	52	S TOP PAR	-2.954+/-	2.152
24	N THC/Byron	2.133+/-	.313	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	154.814+/-	13.071	54	S TOP VER	.344+/-	.867
26	N NMHC/Byro	2.447+/-	.637	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	76.411+/-	2.140	56	S GND PER	3.643+/-	2.295
28	N CH4/Byron	1.021+/-	.121	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	146.132+/-	14.513	58	S GND PAR	-1.786+/-	1.483
30	N CD/Byron	1.689+/-	1.048	59	N Rel Hum	83.569+/-	.264
31	N 74' Temp	73.780+/-	3.077	60	S GND VER	.279+/-	.756
32	N CO2/Byron	417.359+/-	8.456	61	N Solar Rad	5.450+/-	4.613
35	N HA 74'	11.220+/-	3.814	64	S VA 55'	.830+/-	1.412

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.77+/- 3.00	151.9+/- 13.8	2.6+/- 9.9
02	17 19 21	9.54+/- 2.96	144.1+/- 15.2	2.9+/- 9.1
03	38 40 42	6.65+/- 2.78	157.3+/- 20.6	6.0+/- 13.0
04	41 43 45	6.92+/- 2.61	128.0+/- 20.7	2.9+/- 7.9
05	50 52 54	7.92+/- 3.08	157.5+/- 15.8	4.7+/- 10.8
06	56 58 60	4.40+/- 2.30	154.5+/- 24.8	7.5+/- 17.3

Average for 15 minute period ending at 19:30:00  
 Traffic Data  
 Total Traffic = 1644 vehicles averaging 57.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	58.2	91	53.3	37	55.9	37	57.3	40	45.3
Cat2	93	58.0	115	56.3	156	56.6	76	56.6	18	43.7
Cat3	7	58.6	18	61.0	15	55.0	5	56.5	1	45.9
Cat4	6	61.8	11	62.9	5	57.9	0	.0	0	.0
Cat5	3	66.3	3	58.5	1	63.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	62.4	54	57.8	72	59.3	41	59.8	13	47.2
Cat2	142	63.2	155	59.3	102	59.5	93	59.4	25	47.5
Cat3	12	65.2	19	60.8	9	60.3	5	63.0	2	41.0
Cat4	3	63.3	12	61.1	14	60.9	0	.0	0	.0
Cat5	1	74.8	0	.0	1	58.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.5	515	31.3	58.2	975	59.3	59.6	94	5.7	61.3	51	3.1	63.4	9	.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.880+/-	3.346	37	N VA 102'	.553+/-	2.140
12	N Dasibi CD	1.204+/-	.282	38	S BOT PER	7.630+/-	2.817
13	N TOP PAR	-4.858+/-	2.651	39	N VA 74'	-.263+/-	1.933
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-3.218+/-	2.570
15	N TOP VER	.403+/-	1.759	41	N GND PER	5.053+/-	2.856
16	N NDX/TECD	*****+/-*****	ppm	42	S BOT VER	.002+/-	1.296
17	N BOT PER	8.351+/-	3.080	43	N GND PAR	-4.718+/-	2.820
18	N BOT PAR	-5.224+/-	2.731	45	N GND VER	.174+/-	.919
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.566+/-	1.504	50	S TOP PER	8.879+/-	3.244
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	14.089+/-	3.698	52	S TOP PAR	-3.777+/-	2.189
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	152.365+/-	12.571	54	S TOP VER	-.013+/-	1.144
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	75.213+/-	2.547	56	S GND PER	4.584+/-	2.449
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	143.892+/-	12.749	58	S GND PAR	-2.356+/-	1.750
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	83.390+/-	.335

31	N 74' Temp	74.509+/-	2.740	DEGR F	60	S GND VER	.279+/-	.992	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	7.494+/-	3.445	W/m**2
35	N HA 74'	12.773+/-	4.283	mph	64	S VA 55'	.630+/-	1.875	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	11.47+/- 3.32	153.4+/- 13.5	3.2+/- 9.7			
02	17	19	21	10.34+/- 3.11	147.8+/- 14.9	4.4+/- 9.7			
03	38	40	42	8.69+/- 3.04	158.4+/- 16.1	.3+/- 10.3			
04	41	43	45	7.67+/- 2.44	135.8+/- 24.1	1.8+/- 9.0			
05	50	52	54	9.92+/- 3.35	156.7+/- 12.8	.8+/- 7.6			
06	55	58	60	5.57+/- 2.38	151.0+/- 23.6	5.3+/- 16.3			

Average for 15 minute period ending at 19:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	*****+/-*****	23.7+/- 13.7	268.3+/-*****			
02	17	19	21	*****+/-*****	29.0+/- 19.0	332.5+/-*****			
03	38	40	42	*****+/-*****	19.0+/- 11.1	136.2+/-*****			
04	41	43	45	*****+/-*****	35.6+/- 28.0	281.9+/-*****			
05	50	52	54	*****+/-*****	21.0+/- 11.3	186.3+/-*****			
06	58	58	60	*****+/-*****	24.8+/- 19.4	268.4+/-*****			

Average for 15 minute period ending at 20:00:00  
 Average for hourly period ending at 20:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph

22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TDP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UWV	Channels	UVW vector Calculations			
		Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****

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20:29:31 -- Calibration data file.  
 20:29:32 -- 12/13/84  
 20:29:33 -- This is a calibration file on the BYRON, TECO, and DASIBI CO monitors. Only Spa  
 20:29:34 -- ns of these instruments will be read at this time. New calibrations will be done  
 20:29:35 -- next week prior to the SF6 experiment so the calibrations will wait til then.  
 20:29:43 -- READ BYRON SPANS (DRIFTS)  
 20:30:45 -- READ TECO NOX SPAN DRIFTS  
 20:50:13 -- READ OASIBI CO SPAN DRIFT  
 20:56:38 -- READ DASIBI CO ZERO DRIFT  
 20:57:54 -- END OASIBI CO CHECK  
 20:58:01 -- END TECO SPAN CHECK

Average for 15 minute period ending at 20:15:00  
 Average for 15 minute period ending at 20:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PAR	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	ppm	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 20:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	7.786+/- 2.964	mph	37	N VA 102'	.890+/- 2.038	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	6.078+/- 2.361	mph
13	N TOP PAR	-4.054+/- 2.503	mph	39	N VA 74'	.223+/- 1.872	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BDT PAR	-2.141+/- 2.061	mph
15	N TOP VER	.757+/- 1.567	mph	41	N GND PAR	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.320+/- .980	mph
17	N BDT PER	6.473+/- 2.640	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-4.504+/- 2.498	ppm	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	.712+/- 1.457	mph	50	S TOP PER	7.101+/- 2.863	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	11.414+/- 2.892	mph	52	S TOP PAR	-2.909+/- 2.167	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	150.811+/- 14.115	DEGR AZ	54	S TOP VER	.308+/- 1.128	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	74.405+/- 1.940	DEGR F	56	S GND PER	3.911+/- 1.932	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	142.335+/- 16.028	DEGR AZ	58	S GND PAR	-1.751+/- 1.381	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	86.139+/- 5.92	mph
31	N 74' Temp	73.154+/- 3.713	DEGR F	60	S GND VER	.327+/- .633	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	29.520+/- 18.007	W/m <sup>2</sup>
35	N HA 74'	10.583+/- 3.348	mph	64	S VA 55'	.932+/- 1.478	mph

UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	9.26+/- 3.08	152.3+/- 14.6	5.7+/- 11.0
02	17 19 21	8.40+/- 2.72	145.2+/- 16.2	10.5
03	38 40 42	6.78+/- 2.56	161.6+/- 16.2	4.1+/- 10.5
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	8.01+/- 2.99	158.5+/- 15.5	4.2+/- 10.2
06	56 58 60	4.58+/- 1.89	155.2+/- 20.1	6.5+/- 14.7

Average for 15 minute period ending at 21:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.357+/- 2.414	mph	37	N VA 102'	.592+/- 1.809	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	5.575+/- 1.991	mph
13	N TOP PAR	-5.065+/- 2.328	mph	39	N VA 74'	-.315+/- 1.763	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BDT PAR	-2.613+/- 1.970	mph
15	N TOP VER	.538+/- 1.611	mph	41	N GND PAR	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.221+/- .951	mph
17	N BDT PER	6.741+/- 2.226	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-5.857+/- 2.390	ppm	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BDT VER	.519+/- 1.269	mph	50	S TOP PER	6.612+/- 2.198	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	12.180+/- 3.013	mph	52	S TOP PAR	-3.161+/- 1.975	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	150.392+/- 12.236	DEGR AZ	54	S TOP VER	.323+/- 1.055	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	72.946+/- 1.678	DEGR F	56	S GND PER	3.360+/- 1.726	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	142.302+/- 11.950	DEGR AZ	58	S GND PAR	-1.817+/- 1.191	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.980+/- .543	mph
31	N 74' Temp	72.294+/- 2.448	DEGR F	60	S GND VER	.320+/- .652	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	34.834+/- 24.524	W/m <sup>2</sup>
35	N HA 74'	11.515+/- 3.012	mph	64	S VA 55'	.828+/- 1.385	mph

UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	10.13+/- 2.64	149.0+/- 11.5	3.7+/- 9.8
02	17 19 21	9.11+/- 2.84	140.8+/- 12.6	3.9+/- 8.9
03	38 40 42	6.50+/- 2.10	158.1+/- 17.2	3.3+/- 10.5
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	7.61+/- 2.40	154.7+/- 12.7	4.1+/- 10.3

Average for hourly period ending at 21:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW	Channels			UVW Vector Calculations		Elevation Angle (Deg)
	Vector Sum (mpn)	Bearing Deg AZ				
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****

21:00:45 -- READ TECO NOX ANALYZER'S ZERO DRIFTS  
 21:43:45 -- STOPPING CALIBRATION FILE OF 12/13/84

MWH  
 Average for 15 minute period ending at 21:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.445+/- 2.503	mph	37	N VA 102'	.461+/- 2.058	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	6.190+/- 2.289	mph
13	N TOP PAR	-5.692+/- 2.747	mph	39	N VA 74'	-.468+/- 1.755	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	-3.341+/- 2.388	mph
15	N TOP VER	.366+/- 1.631	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.196+/- 1.212	mph
17	N BOT PER	7.304+/- 2.625	mph	43	N GND PAR	*****	mph
18	N BOT PAR	-6.019+/- 2.740	mph	45	N GND VER	*****	mph
19	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
20	N BOT VER	-.667+/- 1.355	mph	50	S TOP PER	-7.296+/- 2.348	mph
21	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
22	N HA 102'	13.098+/- 2.424	ppm	52	S TOP PAR	-3.998+/- 1.929	ppm
23	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
24	N WV 102'	149.075+/- 13.245	DEGR AZ	54	S TOP VER	.163+/- 1.248	ppm
25	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
26	N Gnd Temp	74.379+/- 2.234	DEGR F	56	S GND PER	4.146+/- 2.118	ppm
27	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
28	N WV 74'	139.853+/- 12.286	DEGR AZ	58	S GND PAR	-1.795+/- 1.236	mph
29	N CO/Byron	*****	ppm	59	N Rel Hum	84.172+/- .612	%
30	N 74' Temp	73.389+/- 3.181	DEGR F	60	S GND VER	.231+/- .772	mph
31	N CO2/Byron	*****	ppm	61	N Solar Rad	40.511+/- 22.224	W/m**2
32	N HA 74'	11.777+/- 2.720	mph	64	S VA 55'	.652+/- 1.548	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	10.62+/- 2.72	148.8+/- 14.1	2.8+/- 9.2		
02	17 19 21	9.94+/- 2.74	140.7+/- 15.1	4.9+/- 8.4		
03	38 40 42	7.47+/- 2.47	152.0+/- 17.2	2.5+/- 11.1		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	8.64+/- 2.33	151.0+/- 13.3	2.2+/- 9.7		
06	56 58 60	4.87+/- 1.84	154.0+/- 22.1	4.0+/- 12.7		

Average for 15 minute period ending at 21:30:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	9.212+/- 3.063	mph	37	N VA 102'	.814+/- 2.093	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	6.459+/- 2.448	mph
13	N TOP PAR	-5.902+/- 2.508	mph	39	N VA 74'	-.129+/- 1.884	mph
14	N Dasibi O3	.017+/- .002	ppm	40	S BOT PAR	-3.237+/- 2.507	mph
15	N TOP VER	.750+/- 1.870	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.244+/- 1.473	mph
17	N BOT PER	7.082+/- 2.606	mph	43	N GND PAR	*****	mph
18	N BOT PAR	-6.194+/- 2.382	mph	45	N GND VER	*****	mph
19	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
20	N BOT VER	.735+/- 1.384	mph	50	S TOP PER	7.704+/- 2.720	mph
21	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
22	N HA 102'	13.616+/- 3.276	ppm	52	S TOP PAR	-4.060+/- 2.028	ppm
23	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
24	N WV 102'	146.743+/- 11.981	DEGR AZ	54	S TOP VER	.341+/- 1.368	ppm
25	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
26	N Gnd Temp	74.144+/- 2.742	DEGR F	56	S GND PER	4.132+/- 2.204	ppm
27	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
28	N WV 74'	139.360+/- 11.773	DEGR AZ	58	S GND PAR	-1.865+/- 1.237	mph
29	N CO/Byron	*****	ppm	59	N Rel Hum	84.677+/- 3.986	%
30	N 74' Temp	73.858+/- 1.958	DEGR F	60	S GND VER	.322+/- .905	mph
31	N CO2/Byron	*****	ppm	61	N Solar Rad	47.551+/- 30.348	W/m**2
32	N HA 74'	12.445+/- 3.167	mph	64	S VA 55'	.740+/- 1.717	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	11.38+/- 3.13	146.9+/- 11.9	4.6+/- 10.6		
02	17 19 21	9.79+/- 2.74	138.7+/- 13.4	5.1+/- 9.2		
03	38 40 42	7.74+/- 2.58	153.8+/- 17.9	3.3+/- 11.2		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	9.01+/- 2.84	152.3+/- 12.2	3.4+/- 9.5		
06	56 58 60	4.95+/- 1.89	152.6+/- 22.9	6.7+/- 14.4		

Average for 15 minute period ending at 21:45:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	8.463+/- 3.016	mph	37	N VA 102'	.611+/- 1.741	mph
12	N Dasibi CO	*****	ppm	38	S BOT PER	5.494+/- 2.181	mph
13	N TOP PAR	-5.134+/- 2.684	mph	39	N VA 74'	-.146+/- 1.767	mph
14	N Dasibi O3	.018+/- .002	ppm	40	S BOT PAR	-2.443+/- 2.197	mph
15	N TOP VER	.421+/- 1.648	mph	41	N GND PER	*****	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.326+/- 1.049	mph
17	N BOT PER	6.380+/- 3.121	mph	43	N GND PAR	*****	mph
18	N BOT PAR	-5.504+/- 2.562	mph	45	N GND VER	*****	mph
19	N NO2/TECO	*****	ppm	49	N Ecolyzer-1	*****	ppm
20	N BOT VER	.488+/- 1.467	mph	50	S TOP PER	6.551+/- 2.503	mph
21	N NO/TECO	*****	ppm	51	N Ecolyzer-2	*****	ppm
22	N HA 102'	12.355+/- 2.918	ppm	52	S TOP PAR	-3.100+/- 2.087	ppm
23	N THC/Byron	*****	ppm	53	N Ecolyzer-3	*****	ppm
24	N WV 102'	149.487+/- 13.677	DEGR AZ	54	S TOP VER	.453+/- 1.106	ppm
25	N NMHC/Byro	*****	ppm	55	N Ecolyzer-4	*****	ppm
26	N Gnd Temp	74.574+/- 3.209	DEGR F	56	S GND PER	2.147+/- 1.772	ppm
27	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	*****	ppm
28	N WV 74'	140.216+/- 14.363	DEGR AZ	58	S GND PAR	-1.408+/- 1.173	mph
29	N CO/Byron	*****	ppm	59	N Rel Hum	83.601+/- .733	%
30	N 74' Temp	72.978+/- 2.491	DEGR F	60	S GND VER	.388+/- .655	mph
31	N CO2/Byron	*****	ppm	61	N Solar Rad	47.403+/- 25.805	W/m**2
32	N HA 74'	11.266+/- 2.955	mph	64	S VA 55'	.901+/- 1.548	mph

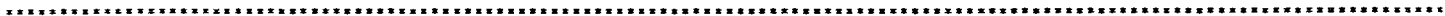
UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	10.38+/- 3.05	148.4+/- 14.5	3.5+/- 10.0		
02	17 19 21	8.95+/- 3.06	138.5+/- 17.2	4.3+/- 11.1		
03	38 40 42	6.42+/- 2.39	157.5+/- 17.9	4.9+/- 12.2		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	7.58+/- 2.87	154.9+/- 14.1	4.8+/- 9.7		
06	56 58 60	3.77+/- 1.85	154.2+/- 24.5	8.5+/- 16.5		

Average for 15 minute period ending at 22:00:00  
 Average for hourly period ending at 22:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
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11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzor-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzor-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzor-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzor-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzor-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	*****+/-*****	mph
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UWV	Channels	UVW Vector Calculations		Bearing Deg AZ	Elevation Angle (Deg)		
		Vector	Sum (mph)				
01	11 13 15	10.81+/-	2.99	147.3+/-	13.5	3.7+/-	10.0
02	17 19 21	9.57+/-	2.87	139.3+/-	15.3	4.8+/-	9.6
03	38 40 42	7.23+/-	2.54	154.3+/-	17.8	3.5+/-	11.5
04	41 43 45	*****+/-	*****	*****+/-	*****	*****+/-	*****
05	50 52 54	8.43+/-	2.68	152.7+/-	13.3	3.4+/-	9.7
06	56 58 60	4.55+/-	1.87	153.6+/-	23.1	5.7+/-	14.7



Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	18:00:00	1136 vehicles
02	16:00:00	1202 vehicles
03	18:00:00	1351 vehicles
04	18:00:00	1641 vehicles
05	18:00:00	1252 vehicles
06	18:00:00	1452 vehicles
07	09:00:00	1010 vehicles
08	09:00:00	1051 vehicles
09	17:00:00	482 vehicles
10	17:00:00	542 vehicles
11	12:00:00	11.343 mph
12	17:00:00	2.243 ppm
13	14:00:00	3.200 mph
14	13:00:00	.022 ppm
15	09:00:00	.485 mph
16	09:00:00	.142 ppm
17	12:00:00	8.875 mph
19	14:00:00	2.118 mph
20	09:00:00	.025 ppm
21	09:00:00	.649 mph
22	17:00:00	.118 ppm
23	09:00:00	16.251 ppm
24	17:00:00	2.178 ppm
25	14:00:00	194.113 DEGR AZ
26	17:00:00	3.002 ppm
27	14:00:00	81.966 DEGR F
28	14:00:00	1.074 ppm
29	14:00:00	183.353 DEGR AZ
30	17:00:00	1.099 ppm
31	14:00:00	80.246 DEGR F
32	19:00:00	419.394 ppm
35	09:00:00	14.874 mph
37	09:00:00	.801 mph
38	09:00:00	7.764 mph
39	13:00:00	.250 mph
40	14:00:00	1.471 mph
41	09:00:00	4.987 mph
42	13:00:00	.437 mph
43	14:00:00	.767 mph
45	10:00:00	.314 mph
49	18:00:00	1.151 ppm
50	09:00:00	9.092 mph
51	18:00:00	1.886 ppm
52	14:00:00	2.822 mph
53	19:00:00	2.144 ppm
54	13:00:00	.537 mph
55	19:00:00	2.370 ppm
56	09:00:00	4.984 mph
57	17:00:00	2.813 ppm
58	14:00:00	.044 mph
59	19:00:00	83.258 %
60	14:00:00	.455 mph
61	14:00:00	252.933 W/m <sup>2</sup>
64	13:00:00	1.103 mph

NOTE: All times in the maximums are ending times for the interval

Data for Dec. 18, 1984  
 11:35:38 -- 12/18/84  
 11:35:39 -- This is an SF6 data run. Cloud cover is @ 100%. Southerly winds. Probably last  
 11:35:40 -- tape file of ZX1320.  
 11:44:06 -- begin reading zeros on ecol. grd  
 11:46:41 -- READ ZERO ON DASIB1  
 11:58:48 -- TURNING ON CO-5 AND CO-4

Average for 15 minute period ending at 11:15:00  
 Average for 15 minute period ending at 11:30:00  
 Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat2	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat3	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat4	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat5	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat2	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat3	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat4	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
Cat5	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	xxxx	0	0	xxxx	0	0	xxxx	0	0	xxxx	0	0	xxxx

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m^2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2152 vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	36	57.4	5	58.7	77	58.3	44	57.9	36	46.2
Cat2	138	59.9	123	60.9	174	58.3	147	57.6	67	46.6
Cat3	19	61.8	44	62.7	32	59.2	18	55.3	3	43.8
Cat4	15	63.7	39	64.2	10	59.7	9	58.5	1	33.2
Cat5	11	64.5	64	68.3	6	58.9	2	60.7	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	61.6	50	57.0	52	57.6	53	58.3	17	46.7
Cat2	186	62.7	154	60.0	148	59.1	98	60.1	68	46.2
Cat3	17	61.7	35	58.3	39	58.9	11	59.8	3	42.7
Cat4	15	63.8	14	60.2	18	62.1	2	66.9	0	.0
Cat5	3	63.5	7	67.1	2	63.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	430	20.0	58.5	1283	59.6	59.6	221	10.3	62.4	123	5.7	66.7	95	4.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.222+/- 1.463	mph	37	N VA 102'	.448+/- 1.008	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	3.114+/- 1.673	mph
13	N TOP PAR	-5.910+/- 2.024	mph	39	N VA 74'	-.121+/- 1.032	mph
14	N Desibi O3	.017+/- .003	ppm	40	S BOT PAR	-3.628+/- 1.764	mph
15	N TOP VER	.254+/- 1.073	mph	41	N GND PER	2.283+/- 1.347	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.447+/- .942	mph
17	N BOT PER	3.133+/- 1.544	mph	43	N GND PAR	-5.963+/- 1.771	mph
19	N BOT PAR	-6.151+/- 1.761	mph	45	N GND VER	.180+/- .519	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.408+/- 1.006	mph	50	S TOP PER	4.099+/- 1.657	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	8.629+/- 1.660	mph	52	S TOP PAR	-4.433+/- 1.924	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	127.009+/- 11.302	DEGR AZ	54	S TOP VER	.395+/- 1.133	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	75.160+/- 1.468	DEGR F	56	S GND PER	2.007+/- 1.760	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	123.890+/- 12.922	DEGR AZ	58	S GND PAR	-1.531+/- 1.035	mph

30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.615+/-	.453	%
31	N 74' Temp	72.763+/- 1.484	DEGR F	60	S GND VER	.194+/-	.743	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	279.445+/-	72.390	W/m <sup>2</sup>
35	N HA 74'	7.548+/- 2.044	mph	64	S VA 55'	.621+/-	1.072	mph

UVW Vector Calculations								
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.51+/-	1.94	126.5+/-	12.2	2.8+/- 8.3
02	17	19	21	7.17+/-	1.68	117.6+/-	13.4	3.7+/- 7.9
03	38	40	42	5.26+/-	1.47	131.1+/-	21.6	6.2+/- 11.6
04	41	43	45	6.56+/-	1.73	111.2+/-	12.8	2.0+/- 5.3
05	50	52	54	6.38+/-	1.89	133.8+/-	15.3	6.8+/- 14.5
06	56	58	60	2.85+/-	1.56	137.4+/-	30.8	8.9+/- 23.6

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Desibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Desibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations								
UVW	Channels			Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****	*****+/-*****

12:02:21 -- TURNING ON CO-3 CH 53  
 12:12:54 -- RECHECKING CO-3  
 12:13:08 -- READING DASIBI CD SPAN  
 12:13:20 -- TURNING DN CO-1

Average for 15 minute period ending at 12:15:00  
Traffic Data  
 Total Traffic = 2156 vehicles averaging 59.6 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	59.7	6	53.1	90	58.6	31	58.1	37	46.1
Cat2	106	60.2	137	61.5	154	59.1	165	58.2	51	47.4
Cat3	26	61.1	49	63.6	18	58.1	16	59.8	2	46.3
Cat4	10	66.7	40	65.9	10	60.2	7	61.3	1	39.9
Cat5	5	68.1	40	70.4	1	64.6	2	55.1	1	45.9

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	62.3	50	58.4	57	60.5	46	58.8	24	47.6
Cat2	188	63.9	171	58.3	146	59.9	142	60.9	59	46.9
Cat3	15	64.8	39	60.7	29	59.1	9	57.9	2	42.5
Cat4	13	63.4	21	61.5	23	59.7	3	65.5	0	.0
Cat5	4	66.1	10	61.3	7	61.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	444	20.5	58.3	1319	60.9	60.8	205	9.5	63.0	128	5.9	66.9	70	3.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.904+/- 1.843	mph	37	N VA 102'	1.105+/- 1.427	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	2.851+/- 2.106	mph
13	N TDP PAR	-6.556+/- 2.129	ppm	39	N VA 74'	-.337+/- 1.246	mph
14	N Dasibi D3	.017+/- .003	ppm	40	S BOT PAR	-4.229+/- 2.052	mph
15	N TDP VER	.481+/- 1.273	ppm	41	N GND PER	2.288+/- 1.472	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.390+/- .887	mph
17	N BOT PER	2.697+/- 1.602	ppm	43	N GND PAR	-5.953+/- 1.827	mph
19	N BOT PAR	-6.742+/- 2.185	ppm	45	N GND VER	-.155+/- .523	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.541+/- .980	ppm	50	S TDP PER	3.854+/- 2.165	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	8.545+/- 1.682	ppm	52	S TDP PAR	-5.086+/- 2.125	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	122.054+/- 13.003	DEGR AZ	54	S TDP VER	.274+/- 1.044	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.015+/- .651	ppm
27	N Gnd Temp	73.571+/- 2.349	DEGR F	56	S GND PER	2.014+/- 2.284	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	2.252+/- .907	ppm
29	N WV 74'	117.564+/- 14.211	DEGR AZ	58	S GND PAR	-1.686+/- 1.263	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.583+/- .660	%
31	N 74' Temp	71.695+/- 2.433	DEGR F	60	S GND VER	.382+/- .853	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	306.604+/- 18.337	W/m**2
35	N HA 74'	7.729+/- 1.986	ppm	64	S VA 55'	.540+/- 1.052	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mpn)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.03+/- 1.85	121.5+/- 15.0	4.3+/- 9.7
02	17 19 21	7.60+/- 1.88	113.5+/- 15.0	4.5+/- 7.9
03	38 40 42	5.60+/- 2.11	124.5+/- 22.3	5.6+/- 12.4
04	41 43 45	6.58+/- 1.77	111.3+/- 13.8	1.6+/- 5.8
05	50 52 54	6.73+/- 2.42	126.9+/- 16.9	4.7+/- 11.7
06	56 58 60	3.24+/- 2.01	136.5+/- 36.9	10.9+/- 27.9

Average for 15 minute period ending at 12:30:00  
Traffic Data  
 Total Traffic = 2127 vehicles averaging 59.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	40	58.3	5	47.5	99	58.1	25	57.7	40	45.2
Cat2	117	60.6	141	61.2	163	58.4	138	57.7	55	45.7
Cat3	21	61.4	54	63.7	19	59.1	20	58.4	4	46.5
Cat4	14	63.7	38	63.9	8	57.4	8	57.0	2	41.3
Cat5	4	61.1	48	69.3	2	65.6	1	60.2	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	47	62.1	47	57.0	61	58.6	42	58.8	24	47.8
Cat2	184	63.9	137	59.8	151	59.7	126	61.0	65	48.4
Cat3	16	65.4	34	59.7	31	58.9	8	66.2	1	52.4
Cat4	15	65.8	22	63.3	26	59.8	2	59.9	1	44.7
Cat5	4	66.2	12	63.2	4	64.9	1	67.8	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	430	20.2	59.3	1277	60.0	61.0	208	9.8	61.9	136	6.4	67.3	76	3.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.328+/- 2.053	mph	37	N VA 102'	.571+/- 1.221	mph
12	N Dasibi CD	2.015+/- .639	ppm	38	S BOT PER	3.093+/- 1.947	mph
13	N TDP PAR	-6.308+/- 2.680	ppm	39	N VA 74'	-.157+/- 1.230	mph
14	N Dasibi D3	.017+/- .003	ppm	40	S BOT PAR	-2.716+/- 1.636	mph
15	N TDP VER	.516+/- 1.103	ppm	41	N GND PER	2.271+/- 1.559	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.521+/- .866	mph
17	N BOT PER	3.092+/- 1.924	ppm	43	N GND PAR	-5.376+/- 2.066	mph
19	N BOT PAR	-6.453+/- 2.649	ppm	45	N GND VER	-.188+/- .577	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	1.443+/- .262	ppm
21	N BOT VER	.656+/- .962	ppm	50	S TDP PER	3.658+/- 2.013	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	1.712+/- .313	ppm
23	N HA 102'	8.953+/- 1.468	ppm	52	S TDP PAR	-3.298+/- 1.784	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	1.551+/- .528	ppm
25	N WV 102'	126.896+/- 16.444	DEGR AZ	54	S TDP VER	.634+/- 1.033	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	1.811+/- .637	ppm
27	N Gnd Temp	73.753+/- 3.620	DEGR F	56	S GND PER	2.045+/- 1.848	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	2.024+/- 2.107	ppm
29	N WV 74'	123.456+/- 19.928	DEGR AZ	58	S GND PAR	-1.234+/- 1.097	ppm
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.794+/- .380	%
31	N 74' Temp	70.210+/- 2.068	DEGR F	60	S GND VER	.313+/- .661	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	256.192+/- 26.140	W/m**2
35	N HA 74'	8.085+/- 1.890	ppm	64	S VA 55'	1.005+/- .853	mph



UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.22+/- 1.96	125.4+/- 19.3	4.4+/- 8.1		
02	17 19 21	7.89+/- 2.02	118.5+/- 19.5	5.5+/- 7.7		
03	38 40 42	4.63+/- 1.73	137.6+/- 26.5	8.5+/- 14.4		
04	41 43 45	6.15+/- 1.81	114.2+/- 18.4	2.1+/- 6.1		
05	50 52 54	5.33+/- 2.12	136.4+/- 17.7	11.6+/- 17.8		
06	56 58 60	2.79+/- 1.74	149.3+/- 34.5	12.7+/- 26.4		

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 2103 Vehicles averaging 59.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	40	58.4	8	53.3	75	57.4	40	56.1	39	45.3
Cat 2	120	59.4	158	61.6	160	58.5	153	58.5	50	47.3
Cat 3	30	61.3	49	63.4	28	56.2	18	58.1	4	47.7
Cat 4	17	65.0	43	65.2	8	57.4	7	57.5	0	.0
Cat 5	6	60.2	29	67.4	1	41.1	2	57.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	68	63.0	65	62.4	51	59.7	41	60.2	18	47.8
Cat 2	147	64.7	151	60.8	157	59.7	133	61.9	47	48.2
Cat 3	13	65.5	33	60.5	29	58.2	8	62.8	0	.0
Cat 4	9	64.6	25	62.5	13	62.0	6	59.3	1	40.0
Cat 5	2	61.7	6	61.9	0	.0	1	67.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	445	21.1	59.6	1276	60.5	60.4	212	10.1	62.9	129	6.1	64.5	47	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.851+/- 1.889	mph	37	N VA 102'	.704+/- 1.539	mph
12	N Dasibi CO	1.924+/- .512	ppm	38	S BOT PER	3.847+/- 1.860	mph
13	N TOP PAR	-5.337+/- 2.040	ppm	39	N VA 74'	1.162+/- 1.236	mph
14	N Dasibi O3	.017+/- .002	ppm	40	S BOT PAR	-3.323+/- 1.973	ppm
15	N TOP VER	.524+/- 1.205	mph	41	N GND PER	2.435+/- 1.561	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.627+/- .887	mph
17	N BOT PER	3.645+/- 1.896	mph	43	N GND PAR	-5.919+/- 1.971	ppm
18	N BOT PAR	-5.477+/- 2.171	ppm	44	N GND VER	-.250+/- .591	ppm
19	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.365+/- .328	ppm
20	N BOT VER	.567+/- .966	mph	50	S TOP PER	4.393+/- 1.786	mph
21	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.754+/- .263	ppm
22	N HA 102'	8.257+/- 2.082	ppm	52	S TOP PAR	-3.519+/- 2.067	ppm
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.432+/- .582	ppm
24	N WV 102'	134.883+/- 15.125	DEGR AZ	54	S TOP VER	.588+/- 1.202	ppm
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.707+/- .612	ppm
26	N Gnd Temp	74.092+/- 2.447	DEGR F	56	S GND PER	2.789+/- 1.814	ppm
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.138+/- 1.082	ppm
28	N WV 74'	131.273+/- 15.745	DEGR AZ	58	S GND PAR	-1.441+/- 1.266	ppm
29	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.778+/- .571	%
30	N 74' Temp	71.617+/- 3.084	DEGR F	60	S GND VER	-.304+/- .832	ppm
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	172.944+/- 32.656	W/m <sup>2</sup>
32	N HA 74'	7.255+/- 2.263	ppm	64	S VA 55'	.828+/- 1.230	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	7.82+/- 1.85	132.8+/- 16.0	4.7+/- 9.7		
02	17 19 21	7.00+/- 1.95	124.8+/- 17.6	5.6+/- 9.8		
03	38 40 42	5.61+/- 1.70	139.8+/- 21.6	7.9+/- 10.7		
04	41 43 45	6.70+/- 1.86	113.9+/- 16.7	2.3+/- 5.8		
05	50 52 54	6.05+/- 2.06	142.7+/- 16.4	8.2+/- 15.0		
06	56 58 60	3.83+/- 1.53	150.0+/- 29.2	6.7+/- 20.5		

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 2183 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	38	58.8	69	56.1	92	58.3	46	57.0	36	45.7
Cat 2	115	60.5	176	59.1	150	59.6	138	57.9	55	46.8
Cat 3	12	65.2	47	62.2	24	58.2	17	60.2	6	48.9
Cat 4	18	67.3	16	66.2	12	61.3	5	56.8	2	44.3
Cat 5	4	62.9	4	65.3	0	.0	3	64.9	1	78.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	45	61.5	58	57.0	65	54.3	41	59.6	13	47.8
Cat 2	178	64.1	191	59.8	156	60.0	138	61.0	61	47.5
Cat 3	11	63.8	27	58.9	36	59.3	9	57.3	2	46.0
Cat 4	10	67.4	24	61.2	16	59.4	3	56.7	1	38.0
Cat 5	7	66.9	4	62.8	14	63.1	2	64.6	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	500	22.8	59.2	1356	61.8	60.0	191	8.7	62.5	107	4.9	64.6	39	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.787+/- 1.725	mph	37	N VA 102'	.425+/- 1.154	mph
12	N Dasibi CO	1.932+/- .305	ppm	38	S BOT PER	3.113+/- 1.637	mph
13	N TOP PAR	-5.350+/- 1.822	ppm	39	N VA 74'	-.255+/- 1.099	ppm
14	N Dasibi O3	.018+/- .003	ppm	40	S BOT PAR	-3.338+/- 1.965	ppm
15	N TOP VER	.291+/- 1.149	mph	41	N GND PER	2.575+/- 1.370	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.359+/- .860	ppm
17	N BOT PER	3.500+/- 1.787	mph	43	N GND PAR	-5.246+/- 2.084	ppm
18	N BOT PAR	-5.146+/- 2.018	ppm	44	N GND VER	-.277+/- .559	ppm
19	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.226+/- .315	ppm
20	N BOT VER	.545+/- .981	mph	50	S TOP PER	3.783+/- 1.574	ppm
21	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.864+/- .239	ppm
22	N HA 102'	8.200+/- 1.229	ppm	52	S TOP PAR	-4.064+/- 2.021	ppm
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.336+/- .549	ppm
24	N WV 102'	129.521+/- 11.893	DEGR AZ	54	S TOP VER	-.285+/- .960	ppm
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.750+/- .556	ppm

27	N Gnd Temp	74.561+/-	1.583	DEGR F	56	S GND PER	1.874+/-	1.612	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	2.233+/-	1.032	ppm
29	N WV 74'	128.863+/-	16.855	DEGR AZ	58	S GND PAR	-1.506+/-	1.130	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	81.778+/-	234	%
31	N 74' Temp	71.539+/-	2.860	DEGR F	60	S GND VER	-.234+/-	681	mph
32	N CD2/Byron	*****+/-	*****	ppm	61	N Solar Rad	200.239+/-	19.283	W/m**2
33	N HA 74'	7.797+/-	1.542	mph	64	S VA 55'	.554+/-	1.028	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.55+/- 1.44	132.0+/- 15.8	2.8+/- 9.5
02	17 19 21	6.66+/- 1.68	124.7+/- 18.6	5.5+/- 9.8
03	38 40 42	5.04+/- 1.67	134.6+/- 23.2	6.2+/- 12.2
04	41 43 45	6.13+/- 1.79	117.7+/- 17.5	2.7+/- 6.3
05	50 52 54	5.89+/- 1.92	134.1+/- 16.9	5.2+/- 12.4
06	56 58 60	2.87+/- 1.39	138.0+/- 34.1	8.6+/- 19.7

Average for hourly period ending at 13:00:00  
Traffic Data  
 Total Traffic : 8595 vehicles averaging 59.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	155	58.8	86	55.2	356	58.1	142	57.1	152	45.8
Cat 2	458	60.2	612	60.8	627	59.1	584	58.1	211	46.8
Cat 3	89	61.8	199	63.2	89	57.8	71	59.1	16	47.7
Cat 4	59	65.7	137	65.2	38	59.4	27	58.6	5	42.2
Cat 5	19	63.0	121	69.1	4	59.2	8	60.0	2	62.4

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	222	62.3	217	57.8	234	59.2	170	59.3	79	47.8
Cat 2	697	64.1	650	59.9	610	59.8	537	61.2	232	47.7
Cat 3	55	65.0	133	60.0	125	58.9	34	60.8	5	45.9
Cat 4	47	65.3	92	62.1	78	60.1	14	60.2	3	40.9
Cat 5	17	65.9	32	62.3	25	62.8	4	66.2	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	1819	21.2	59.3	5228	60.8	60.5	816	9.5	62.6	500	5.8	66.2	232	2.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.462+/- 1.915	mph	37	N VA 102'	.702+/- 1.365	mph
12	N Dasibi CD	*****+/-	ppm	38	S BOT PER	3.236+/- 1.926	mph
13	N TOP PAR	-5.887+/- 2.255	mph	39	N VA 74'	-1.100+/- 1.222	mph
14	N Dasibi D3	-.017+/- .003	ppm	40	S BOT PAR	-3.401+/- 1.985	mph
15	N TOP VER	.453+/- 1.185	mph	41	N GND PER	2.393+/- 1.495	mph
16	N NDX/TECO	*****+/-	ppm	42	S BOT VER	.474+/- .885	mph
17	N BOT PER	3.233+/- 1.836	mph	43	N GND PAR	-5.623+/- 2.010	mph
19	N BOT PAR	-5.955+/- 2.358	mph	45	N GND VER	-.217+/- .564	mph
20	N ND2/TECO	*****+/-	ppm	49	N Ecolyzer-1	1.350+/- .318	ppm
21	N BOT VER	.578+/- .972	mph	50	S TOP PER	3.922+/- 1.920	mph
22	N ND/TECO	*****+/-	ppm	51	N Ecolyzer-2	*****+/-	ppm
23	N HA 102'	8.485+/- 1.669	mph	52	S TOP PAR	-3.992+/- 2.115	mph
24	N THC/Byron	*****+/-	ppm	53	N Ecolyzer-3	1.522+/- .612	ppm
25	N WV 102'	128.329+/- 14.892	DEGR AZ	54	S TOP VER	.445+/- 1.074	mph
26	N NMHC/Byro	*****+/-	ppm	55	N Ecolyzer-4	1.821+/- 1.626	ppm
27	N Gnd Temp	73.994+/- 2.565	DEGR F	56	S GND PER	2.180+/- 1.935	mph
28	N CH4/Byron	*****+/-	ppm	57	N Ecolyzer-5	2.152+/- 1.373	ppm
29	N WV 74'	125.284+/- 17.490	DEGR AZ	58	S GND PAR	-1.466+/- 1.200	mph
30	N CD/Byron	*****+/-	ppm	59	N Rel Hum	81.733+/- .479	%
31	N 74' Temp	71.265+/- 2.645	DEGR F	60	S GND VER	-.308+/- .752	mph
32	N CD2/Byron	*****+/-	ppm	61	N Solar Rad	233.985+/- 57.324	W/m**2
33	N HA 74'	7.717+/- 1.962	mph	64	S VA 55'	.731+/- 1.086	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.85+/- 1.80	128.2+/- 17.2	4.1+/- 9.3
02	17 19 21	7.24+/- 1.93	120.4+/- 18.3	5.3+/- 8.8
03	38 40 42	5.22+/- 1.86	134.1+/- 24.0	7.0+/- 12.6
04	41 43 45	6.39+/- 1.77	114.2+/- 16.8	2.2+/- 5.9
05	50 52 54	6.00+/- 2.19	135.0+/- 17.8	7.4+/- 14.7
06	56 58 60	3.13+/- 1.72	143.6+/- 34.1	9.7+/- 23.5

13:18:50 -- BEGIN SF6 SAMPLING AT 1:08 GRD  
 13:36:36 -- BEGIN CAL. NCO-5 GRD  
 13:46:43 -- END CAL. NCO-5 GRD  
 13:46:59 -- BEGIN CAL. NCO-4 GRD  
 13:56:38 -- END CAL. NCO-4 GRD  
 13:56:47 -- BEGIN CAL. NCO-3 GRD

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 2133 vehicles averaging 59.4 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	46	58.7	77	56.9	102	59.0	36	57.2	30	47.4
Cat2	110	61.1	141	58.8	143	61.2	139	58.7	50	47.5
Cat3	12	61.8	41	62.4	15	58.8	13	58.7	2	45.1
Cat4	13	65.8	14	63.0	16	59.6	7	60.2	1	48.4
Cat5	5	64.7	5	70.3	3	60.4	3	59.1	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	49	64.1	50	58.0	55	59.9	41	59.6	27	46.4
Cat2	178	65.2	181	60.4	159	59.5	126	61.0	76	46.6
Cat3	17	66.5	21	61.9	38	60.3	9	60.4	1	43.7
Cat4	13	65.0	17	62.1	12	60.7	6	59.4	1	49.9
Cat5	4	68.6	6	64.0	5	63.9	1	50.6	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	524	24.6	59.5	1304	61.1	61.2	169	7.9	62.0	100	4.7	64.4	36	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.679+/- 1.681	mph	37	N VA 102'	.289+/- 1.087	mph
12	N Dasibi CO	2.057+/- .496	ppm	38	S BOT PER	2.694+/- 1.599	mph
13	N TOP PAR	-6.023+/- 2.073	mph	39	N VA 74'	-3.09+/- 1.059	mph
14	N Dasibi O3	.018+/- .003	ppm	40	S BOT PAR	-2.296+/- 2.255	mph
15	N TOP VER	.044+/- 1.000	mph	41	N GND PER	2.217+/- 1.269	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.866	mph
17	N BOT PER	3.508+/- 1.842	mph	43	N GND PAR	-6.052+/- 1.722	mph
18	N BOT PAR	-5.988+/- 1.893	mph	45	N GND VER	.234+/- .536	ppm
19	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.125+/- .279	ppm
20	N BOT VER	2.52+/- .855	mph	50	S TOP PER	3.717+/- 1.539	ppm
21	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.585+/- .202	ppm
22	N HA 102'	8.736+/- 1.666	mph	52	S TOP PAR	-4.624+/- 2.254	mph
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	1.205+/- .478	ppm
24	N WV 102'	126.292+/- 13.247	DEGR AZ	54	S TOP VER	.216+/- 1.006	mph
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	1.663+/- .560	ppm
26	N Gnd Temp	73.597+/- 3.136	DEGR F	56	S GND PER	1.345+/- 1.804	mph
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.104+/- 1.134	ppm
28	N WV 74'	123.805+/- 15.327	DEGR AZ	58	S GND PAR	-1.458+/- 1.085	mph
29	N CD/Byron	*****+/-*****	ppm	59	N Ret Hum	81.843+/- .237	%
30	N 74' Temp	69.845+/- 2.242	DEGR F	60	S GND VER	.215+/- .928	mph
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	189.022+/- 21.092	W/m**2
32	N HA 74'	7.763+/- 2.030	mph	64	S VA 55'	.468+/- 1.020	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.90+/- 1.95	128.4+/- 13.7	1.1+/- 7.6
02	17 19 21	7.25+/- 1.84	120.6+/- 15.6	2.6+/- 7.2
03	38 40 42	5.82+/- 1.71	128.0+/- 23.5	3.3+/- 9.7
04	41 43 45	6.78+/- 1.53	114.2+/- 13.3	2.0+/- 4.9
05	50 52 54	6.27+/- 2.08	130.6+/- 16.4	4.6+/- 12.1
06	56 58 60	2.73+/- 1.34	128.6+/- 41.6	10.3+/- 28.6

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2144 vehicles averaging 59.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.0	65	56.3	98	59.8	41	59.5	26	47.7
Cat2	112	61.1	160	59.6	160	60.8	137	59.1	49	48.4
Cat3	16	65.5	35	62.8	19	58.5	17	60.2	4	48.4
Cat4	9	66.1	20	65.5	10	62.5	7	60.1	3	41.3
Cat5	3	69.2	7	70.3	2	62.0	1	57.3	1	41.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	62.8	83	58.7	55	59.0	48	58.8	24	46.9
Cat2	205	64.6	155	60.3	149	60.5	132	61.4	69	46.5
Cat3	12	65.5	33	60.3	29	60.1	14	59.8	2	49.2
Cat4	11	67.7	19	62.0	19	61.9	2	60.4	0	0
Cat5	3	69.4	4	67.3	6	62.6	1	55.5	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
58.0	507	23.6	59.9	1328	61.9	60.9	181	8.4	62.9	100	4.7	65.4	28	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.296+/- 1.343	mph	37	N VA 102'	.677+/- 1.156	mph
12	N Dasibi CO	1.925+/- .324	ppm	38	S BOT PER	2.480+/- 1.638	mph
13	N TOP PAR	-7.551+/- 1.941	mph	39	N VA 74'	.072+/- 1.124	mph
14	N Dasibi O3	.017+/- .002	ppm	40	S BOT PAR	-4.046+/- 2.344	mph
15	N TOP VER	.424+/- 1.116	mph	41	N GND PER	1.923+/- 1.310	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.336+/- .861	mph
17	N BOT PER	2.297+/- 1.259	mph	43	N GND PAR	-7.287+/- 1.902	mph
18	N BOT PAR	-7.648+/- 1.870	mph	49	N GND VER	.243+/- .516	ppm
19	N ND2/TECO	*****+/-*****	ppm	50	N Ecolyzer-1	1.144+/- .264	ppm
20	N BOT VER	.625+/- .971	mph	51	N Ecolyzer-2	3.281+/- 1.578	ppm
21	N ND/TECO	*****+/-*****	ppm	52	S TOP PAR	-1.679+/- 2.566	mph
22	N HA 102'	8.860+/- 1.263	mph	53	N Ecolyzer-3	-4.980+/- 2.081	ppm
23	N THC/Byron	*****+/-*****	ppm	54	S TOP VER	1.450+/- 4.399	mph
24	N WV 102'	116.117+/- 10.793	DEGR AZ	55	N Ecolyzer-4	1.717+/- 4.37	ppm
25	N NMHC/Byro	*****+/-*****	ppm	56	S GND PER	1.339+/- 1.859	mph
26	N Gnd Temp	74.144+/- 2.491	DEGR F	57	N Ecolyzer-5	1.766+/- 1.012	ppm
27	N CH4/Byron	*****+/-*****	ppm	58	S GND PAR	-1.469+/- 1.106	mph
28	N WV 74'	111.335+/- 12.869	DEGR AZ	59	N Ret Hum	81.534+/- .189	%
29	N CD/Byron	*****+/-*****	ppm	60	S GND VER	.286+/- .784	mph
30	N 74' Temp	70.809+/- 1.964	DEGR F	61	N Solar Rad	246.337+/- 24.332	W/m**2
31	N CO2/Byron	*****+/-*****	ppm				
32	N HA 74'	*****+/-*****	ppm				

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.48+/- 1.72	114.5+/- 11.2	3.4+/- 8.2		
02	17 19 21	8.21+/- 1.68	107.8+/- 10.6	4.5+/- 7.5		
03	38 40 42	5.19+/- 2.20	124.4+/- 23.1	6.6+/- 13.0		
04	41 43 45	7.67+/- 1.82	105.1+/- 11.1	1.8+/- 4.1		
05	50 52 54	6.37+/- 2.11	123.1+/- 16.8	5.1+/- 14.5		
06	56 58 60	2.62+/- 1.56	133.2+/- 38.8	13.4+/- 26.0		

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2142 Vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.9	71	56.3	81	59.2	41	57.9	33	45.0
Cat2	110	60.9	158	59.6	156	60.5	132	58.4	56	47.2
Cat3	19	62.5	39	63.6	15	61.9	7	61.0	6	49.1
Cat4	10	67.7	17	64.4	11	59.4	5	62.5	4	43.1
Cat5	4	71.3	6	71.1	2	60.7	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	63.2	47	57.9	59	57.9	47	60.3	27	46.6
Cat2	196	64.6	175	59.8	148	58.5	136	59.9	60	46.9
Cat3	15	63.7	30	60.5	38	58.3	11	59.9	5	43.4
Cat4	7	57.3	20	63.5	19	60.3	2	60.0	0	0
Cat5	3	64.5	6	59.5	8	59.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.3	506	23.6	59.3	1327	62.0	60.4	185	8.6	62.3	95	4.4	64.1	29	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.310+/- 2.136	mph	37	N VA 102'	.246+/- 1.085	mph
12	N Dasibi CO	1.774+/- .508	ppm	38	S BOT PER	3.833+/- 1.770	mph
13	N TOP PAR	-6.538+/- 1.863	mph	39	N VA 74'	-4.451+/- 1.118	mph
14	N Dasibi D3	.022+/- .003	ppm	40	S BOT PAR	-4.837+/- 2.067	mph
15	N TOP VER	.239+/- 1.173	mph	41	N GND PER	3.527+/- 1.625	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.328+/- .950	mph
17	N BOT PER	4.766+/- 2.042	mph	43	N GND PAR	-8.110+/- 1.891	mph
19	N BOT PAR	-6.338+/- 1.941	mph	45	N GND VER	.188+/- .614	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzor-1	.991+/- .263	ppm
21	N BOT VER	.543+/- .979	mph	50	S TOP PER	5.253+/- 1.840	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzor-2	1.511+/- .167	ppm
23	N HA 102'	9.924+/- 1.681	mph	52	S TOP PAR	-5.295+/- 1.643	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzor-3	.990+/- .457	ppm
25	N WV 102'	132.690+/- 10.799	DEGR AZ	54	S TOP VER	.062+/- 1.009	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzor-4	1.372+/- .546	ppm
27	N Gnd Temp	75.838+/- 1.483	DEGR F	56	S GND PER	2.355+/- 2.104	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzor-5	*****+/-*****	ppm
29	N WV 74'	130.684+/- 13.206	DEGR AZ	58	S GND PAR	-2.055+/- 1.110	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	81.225+/- .379	%
31	N 74' Temp	71.487+/- 2.122	DEGR F	60	S GND VER	.294+/- .878	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	280.353+/- 38.714	W/m**2
35	N HA 74'	9.578+/- 1.839	mph	64	S VA 55'	.498+/- 1.004	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	9.39+/- 1.94	133.7+/- 12.5	1.9+/- 7.6		
02	17 19 21	8.27+/- 1.92	126.9+/- 14.2	4.3+/- 7.2		
03	38 40 42	6.63+/- 1.83	129.9+/- 17.4	3.7+/- 9.9		
04	41 43 45	7.31+/- 1.72	120.5+/- 14.1	1.4+/- 5.3		
05	50 52 54	7.66+/- 2.00	134.5+/- 11.0	1.5+/- 8.8		
06	56 58 60	3.59+/- 1.85	132.5+/- 27.4	6.6+/- 19.8		

Average for 15 minutes period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2304 Vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	58.8	55	56.5	97	59.4	37	58.1	33	45.8
Cat2	127	60.4	147	58.7	175	60.6	129	58.9	54	48.4
Cat3	22	61.1	42	62.7	22	59.8	17	58.6	5	46.5
Cat4	21	66.2	34	64.0	5	60.6	9	62.0	3	47.5
Cat5	13	68.9	15	66.3	1	58.8	2	63.5	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	63.5	53	57.8	79	58.8	47	59.4	27	45.3
Cat2	198	63.6	193	59.0	162	58.7	130	59.6	66	46.2
Cat3	15	66.3	35	61.6	29	59.6	12	59.4	0	0
Cat4	14	65.9	20	60.7	17	59.7	6	61.9	2	41.5
Cat5	6	65.0	8	65.0	9	59.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	539	23.4	58.9	1381	59.9	60.9	199	8.6	62.4	131	5.7	65.2	54	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.952+/- 2.161	mph	37	N VA 102'	.619+/- 1.307	mph
12	N Dasibi CO	1.886+/- .590	ppm	38	S BOT PER	3.806+/- 2.189	mph
13	N TOP PAR	-5.895+/- 2.812	mph	39	N VA 74'	.168+/- 1.411	mph
14	N Dasibi D3	.022+/- .004	ppm	40	S BOT PAR	-4.276+/- 2.763	mph
15	N TOP VER	.616+/- 1.463	mph	41	N GND PER	2.513+/- 1.561	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.431+/- 1.082	mph
17	N BOT PER	3.667+/- 1.968	mph	43	N GND PAR	-6.114+/- 2.254	mph
19	N BOT PAR	-6.002+/- 2.524	mph	45	N GND VER	.324+/- .614	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N EcoLyzor-1	1.147+/- .443	ppm
21	N BOT VER	.660+/- 1.197	mph	50	S TOP PER	4.782+/- 1.946	mph
22	N ND/TECO	*****+/-*****	ppm	51	N EcoLyzor-2	1.694+/- .332	ppm
23	N HA 102'	9.099+/- 2.221	mph	52	S TOP PAR	-4.689+/- 2.676	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzor-3	1.499+/- .766	ppm

25	N WV 102'	128.880+/-	15.779	DEGR AZ	54	S TDP VER	.220+/-	1.139	mph
26	N NMHC/Byro	*****+/-	*****	ppm	55	N Ecolyzer-4	*****+/-	*****	ppm
27	N Gnd Temp	76.333+/-	3.605	DEGR F	56	S GND PER	2.624+/-	2.124	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	2.036+/-	1.321	ppm
29	N WV 74'	128.414+/-	18.964	DEGR AZ	58	S GND PAR	-1.872+/-	1.521	mph
30	N CD/Byron	*****+/-	*****	ppm	59	N Rel Hum	79.547+/-	.650	%
31	N 74' Temp	73.232+/-	1.719	DEGR F	60	S GND VER	.268+/-	.844	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	312.826+/-	41.256	W/m**2
35	N HA 74'	8.294+/-	2.536	mph	64	S VA 55'	.502+/-	1.238	mph

UVW Vector Calculations									
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	8.29+/-	2.36	131.2+/-	18.5	5.8+/-	11.3		
02	17 19 21	7.53+/-	2.19	122.4+/-	18.3	6.2+/-	10.2		
03	38 40 42	6.42+/-	2.29	134.2+/-	24.7	5.4+/-	11.2		
04	41 43 45	6.88+/-	2.07	113.5+/-	15.8	2.9+/-	6.6		
05	50 52 54	7.13+/-	2.50	137.5+/-	17.3	3.5+/-	10.6		
06	56 58 60	3.78+/-	1.91	142.0+/-	32.6	6.7+/-	20.7		

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8723 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	186	58.8	268	56.5	378	59.4	155	58.2	122	46.4
Cat 2	459	60.9	606	59.2	834	60.8	537	58.8	209	47.9
Cat 3	69	62.6	157	62.8	71	59.7	54	59.4	17	47.7
Cat 4	53	66.4	85	64.3	42	60.4	28	61.2	11	44.3
Cat 5	25	68.5	33	68.6	8	60.7	6	60.3	1	41.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	207	63.4	223	58.1	249	58.9	183	59.5	105	46.3
Cat 2	778	64.5	704	59.8	618	59.3	524	60.5	271	46.5
Cat 3	59	65.5	119	61.0	134	59.5	46	59.8	8	44.9
Cat 4	45	66.3	76	62.1	87	60.7	16	60.5	3	44.3
Cat 5	16	66.6	24	63.8	32	61.4	2	53.0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	2076	23.8	59.4	5340	61.2	60.8	734	8.4	62.4	426	4.9	64.8	147	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units	
11	N TDP PER	4.803+/-	2.144	37	N VA 102'	.460+/-	1.171	mph
12	N Desibi CD	1.910+/-	.499	38	S BOT PER	3.231+/-	1.956	mph
13	N TOP PAR	-6.502+/-	2.295	39	N VA 74'	-.130+/-	1.212	mph
14	N Desibi G3	.020+/-	.004	40	S BOT PAR	-4.364+/-	2.384	mph
15	N TDP VER	.331+/-	1.217	41	N GND PER	2.633+/-	1.556	mph
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.328+/-	.945	mph
17	N BOT PER	3.560+/-	2.002	43	N GND PAR	-6.386+/-	2.013	mph
18	N BOT PAR	-6.494+/-	2.180	45	N GND VER	.287+/-	.573	mph
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	1.102+/-	.328	ppm
21	N BOT VER	.520+/-	1.021	50	S TOP PER	4.258+/-	1.971	mph
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	1.617+/-	.258	ppm
23	N HA 102'	9.155+/-	1.798	52	S TOP PAR	-4.897+/-	2.206	mph
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.274+/-	.574	ppm
25	N WV 102'	125.937+/-	14.121	54	S TOP VER	.176+/-	1.106	mph
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	1.602+/-	.529	ppm
27	N Gnd Temp	74.978+/-	2.955	56	S GND PER	1.916+/-	2.058	mph
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	1.959+/-	1.152	ppm
29	N WV 74'	123.535+/-	16.880	58	S GND PAR	-1.714+/-	1.245	mph
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	81.037+/-	.978	%
31	N 74' Temp	71.343+/-	2.331	60	S GND VER	.266+/-	.859	mph
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	257.134+/-	56.038	W/m**2
35	N HA 74'	8.443+/-	2.148	64	S VA 55'	.503+/-	1.166	mph

UVW Vector Calculations									
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)		
01	11 13 15	8.52+/-	2.08	126.9+/-	16.0	3.1+/-	8.0		
02	17 19 21	7.81+/-	1.86	119.4+/-	16.4	4.4+/-	8.2		
03	38 40 42	5.86+/-	2.10	128.1+/-	22.7	4.8+/-	11.1		
04	41 43 45	7.16+/-	1.83	113.3+/-	14.6	2.0+/-	5.3		
05	50 52 54	6.86+/-	2.25	131.4+/-	16.4	3.7+/-	11.7		
06	56 58 60	3.18+/-	1.75	133.9+/-	36.0	9.3+/-	24.2		

14:03:54 -- END CAL. NCD-3 GRD  
 14:04:38 -- BEGIN CAL. NCD-2 GRD  
 14:09:48 -- END CAL. NCD-2 GRD  
 14:51:39 -- END SFS SAMPLING RUN GRD  
 14:54:26 -- BEGIN END CAL. ECOL. GRD  
 14:54:51 -- BEGIN END CAL. NCD-5 GRD

Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2196 vehicles averaging 59.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	59.0	68	57.6	81	59.0	47	58.4	30	47.5
Cat2	117	61.1	176	59.0	158	59.9	120	58.3	55	47.6
Cat3	31	62.1	36	62.2	29	59.7	16	57.8	3	45.0
Cat4	15	64.6	21	65.4	11	61.9	6	59.0	4	45.4
Cat5	8	69.9	13	68.3	1	63.8	5	62.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	44	62.8	50	57.0	44	58.0	42	59.6	32	45.7
Cat2	187	64.4	176	59.7	148	60.1	116	60.5	81	46.9
Cat3	18	65.2	38	59.5	29	58.6	12	58.7	2	42.5
Cat4	11	67.4	23	61.6	26	61.0	2	63.3	0	.0
Cat5	5	66.3	10	61.4	7	63.2	1	63.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	479	21.8	59.1	1334	60.7	60.2	214	9.7	62.4	119	5.4	65.4	50	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.151+/-	1.581	37	N VA 102'	.546+/-	1.048
12	N Dasibi CD	1.741+/-	.347	38	S BOT PER	2.051+/-	1.384
13	N TDP PAR	-7.614+/-	2.051	39	N VA 74'	-1.148+/-	1.109
14	N Dasibi 03	.023+/-	.003	40	S BOT PAR	-4.607+/-	2.106
15	N TOP VER	.177+/-	1.078	41	N GND PER	2.144+/-	1.337
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.316+/-	.865
17	N BOT PER	2.864+/-	1.518	43	N GND PAR	-7.628+/-	1.843
19	N BOT PAR	-7.818+/-	1.928	45	N GND VER	.285+/-	.548
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.491+/-	1.077	50	S TOP PER	3.434+/-	1.580
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	9.741+/-	1.611	52	S TDP PAR	-5.466+/-	1.984
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	1.594+/-	.435
25	N WV 102'	121.105+/-	10.083	54	S TDP VER	.212+/-	1.055
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	2.092+/-	.534
27	N Gnd Temp	74.092+/-	3.090	56	S GND PER	1.305+/-	1.892
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	1.892+/-	.937
29	N WV 74'	116.724+/-	10.871	58	S GND PAR	-1.513+/-	1.160
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	79.629+/-	.344
31	N 74' Temp	72.763+/-	1.520	60	S GND VER	.282+/-	1.051
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	227.989+/-	21.071
35	N HA 74'	8.815+/-	1.845	64	S VA 55'	.463+/-	1.072

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	8.89+/- 2.01	119.1+/- 10.7	1.6+/- 7.5
02	17 19 21	8.57+/- 1.79	110.7+/- 11.5	3.6+/- 7.5
03	38 40 42	5.44+/- 1.82	116.2+/- 19.4	4.9+/- 12.9
04	41 43 45	8.08+/- 1.85	106.1+/- 10.9	1.9+/- 4.4
05	50 52 54	6.72+/- 2.04	122.3+/- 12.9	3.7+/- 11.7
06	56 58 60	2.72+/- 1.85	124.3+/- 42.3	12.7+/- 30.1

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2284 vehicles averaging 58.8 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	45	58.3	69	56.0	95	58.4	42	59.6	41	47.1
Cat2	99	59.9	163	58.2	154	59.9	126	59.2	61	47.6
Cat3	23	62.2	27	61.7	23	59.0	16	57.0	4	48.3
Cat4	15	64.0	18	61.6	12	59.7	9	57.7	2	43.3
Cat5	5	64.2	9	65.7	1	58.3	2	57.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	37	62.4	48	57.4	62	58.5	51	57.4	23	46.0
Cat2	201	64.7	190	59.3	169	58.6	143	61.2	90	46.6
Cat3	23	68.6	43	60.7	39	59.7	10	57.6	4	47.0
Cat4	21	67.0	18	59.8	25	60.9	2	61.2	0	.0
Cat5	3	68.7	12	64.5	9	61.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	513	22.5	58.9	1396	61.1	60.3	212	9.3	61.7	122	5.3	63.8	41	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.868+/-	1.710	37	N VA 102'	.672+/-	1.245
12	N Dasibi CD	2.071+/-	.438	38	S BOT PER	2.831+/-	1.704
13	N TDP PAR	-5.762+/-	1.980	39	N VA 74'	-1.324+/-	1.222
14	N Dasibi 03	.020+/-	.004	40	S BOT PAR	-3.797+/-	2.122
15	N TOP VER	.556+/-	1.073	41	N GND PER	2.094+/-	1.448
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.362+/-	.921
17	N BOT PER	2.738+/-	1.885	43	N GND PAR	-6.438+/-	2.017
19	N BOT PAR	-6.329+/-	2.025	45	N GND VER	.306+/-	.561
20	N ND2/TECO	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.643+/-	1.055	50	S TOP PER	3.807+/-	2.026
22	N ND/TECO	*****+/-	*****	51	N Ecolyzer-2	1.775+/-	.419
23	N HA 102'	7.807+/-	1.765	52	S TDP PAR	-4.447+/-	2.063
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	2.057+/-	.736
25	N WV 102'	123.225+/-	13.777	54	S TDP VER	.148+/-	.990
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	2.541+/-	.814
27	N Gnd Temp	75.551+/-	2.108	56	S GND PER	1.760+/-	1.863
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	2.663+/-	1.158
29	N WV 74'	120.848+/-	17.957	58	S GND PAR	-1.542+/-	1.210
30	N CD/Byron	*****+/-	*****	59	N Rel Hum	78.749+/-	.695
31	N 74' Temp	72.242+/-	2.256	60	S GND VER	.197+/-	.870
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	254.012+/-	45.478

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	7.28+/- 1.85	124.6+/- 14.2	4.8+/- 8.9
02	17	19	21	7.25+/- 1.84	114.4+/- 15.3	5.3+/- 8.6
03	38	40	42	5.18+/- 2.00	128.4+/- 22.4	8.2+/- 13.3
04	41	43	45	6.98+/- 1.90	108.2+/- 15.0	2.7+/- 4.8
05	50	52	54	6.15+/- 2.41	129.7+/- 15.3	6.1+/- 15.8
06	56	58	60	2.91+/- 1.65	137.3+/- 35.5	9.6+/- 27.2

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2301 vehicles averaging 59.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	42	58.3	63	56.4	77	59.0	41	59.0	40	46.4
Cat2	122	60.4	158	59.0	172	60.0	138	59.0	54	48.7
Cat3	28	61.6	42	62.3	28	61.3	14	58.5	10	51.2
Cat4	15	65.4	23	65.2	17	58.6	10	59.8	1	55.3
Cat5	10	67.4	12	69.7	0	.0	2	66.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	63.0	53	57.5	59	57.3	51	59.0	25	46.5
Cat2	193	64.6	188	59.3	174	59.3	134	61.3	67	47.2
Cat3	7	65.1	37	60.9	34	59.3	17	60.3	1	43.8
Cat4	16	67.0	27	62.1	24	59.5	4	59.7	0	.0
Cat5	1	71.6	8	64.1	10	62.9	2	74.9	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	501	21.8	59.4	1400	60.8	60.5	218	9.5	62.4	137	6.0	66.8	45	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.482+/- 2.553	mph	37	N VA 102'	.828+/- 1.282	mph
12	N Dasibi CO	2.140+/- .468	ppm	38	S BOT PER	3.740+/- 1.899	mph
13	N TOP PAR	-6.105+/- 2.208	mph	39	N VA 74'	.079+/- 1.186	mph
14	N Dasibi O3	.021+/- .003	ppm	40	S BOT PAR	-3.844+/- 2.028	mph
15	N TOP VER	.511+/- 1.188	mph	41	N GND PER	-2.795+/- 1.802	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.214+/- .937	mph
17	N BOT PER	3.150+/- 2.251	mph	43	N GND PAR	-6.378+/- 2.110	mph
18	N BOT PAR	-6.348+/- 2.074	mph	45	N GND VER	.261+/- .683	mph
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	1.245+/- .348	ppm
21	N BOT VER	.763+/- .868	mph	50	S TOP PER	4.462+/- 2.215	mph
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	1.615+/- .560	ppm
23	N HA 102'	8.230+/- 2.139	mph	52	S TOP PAR	-4.374+/- 1.818	mph
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	2.009+/- .910	ppm
25	N WV 102'	130.183+/- 15.653	DEGR AZ	54	S TOP VER	1.611+/- 1.020	mph
26	N MMHC/Byro	*****	ppm	55	N Ecolyzer-4	2.420+/- .815	ppm
27	N Gnd Temp	75.447+/- 2.489	DEGR F	56	S GND PER	2.262+/- 1.972	mph
28	N CH4/Byron	*****	ppm	57	N Ecolyzer-5	2.607+/- 1.304	ppm
29	N WV 74'	127.370+/- 17.920	DEGR AZ	58	S GND PAR	-2.028+/- 1.338	mph
30	N CO/Byron	*****	ppm	59	N Rel Hum	77.382+/- 1.044	%
31	N 74' Temp	73.571+/- 3.365	DEGR F	60	S GND VER	.224+/- .843	mph
32	N CO2/Byron	*****	ppm	61	N Solar Rad	309.011+/- 81.927	W/m**2
35	N HA 74'	6.044+/- 2.478	mph	64	S VA 55'	.614+/- 1.048	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	8.08+/- 2.25	126.0+/- 18.1	5.6+/- 9.1
02	17	19	21	7.54+/- 2.00	116.6+/- 17.4	6.4+/- 7.5
03	38	40	42	5.75+/- 2.08	138.9+/- 19.5	3.7+/- 10.5
04	41	43	45	7.24+/- 2.05	113.8+/- 16.6	2.3+/- 6.5
05	50	52	54	6.55+/- 2.33	134.8+/- 15.3	3.8+/- 12.1
06	56	58	60	3.54+/- 1.77	132.9+/- 30.4	6.7+/- 22.2

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2450 vehicles averaging 58.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	59.1	75	57.2	109	60.0	47	58.5	52	47.6
Cat2	140	60.8	156	59.6	185	61.3	138	59.6	76	48.2
Cat3	25	61.0	46	64.0	29	61.3	10	58.7	8	47.3
Cat4	22	64.9	27	63.0	6	59.5	6	61.4	2	42.9
Cat5	10	66.9	11	69.5	3	60.8	6	59.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	35	63.1	45	57.8	74	58.5	50	58.5	16	43.7
Cat2	207	64.4	186	57.7	193	58.0	135	58.4	77	48.3
Cat3	23	64.3	42	57.9	29	58.6	14	59.7	3	46.5
Cat4	15	67.6	33	60.1	30	60.3	6	56.3	1	42.5
Cat5	4	62.5	7	57.7	14	58.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	544	22.2	58.8	1473	60.1	60.3	230	9.4	61.7	148	6.0	62.5	55	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.700+/- 2.203	mph	37	N VA 102'	.868+/- 1.536	mph
12	N Dasibi CO	2.342+/- .772	ppm	38	S BOT PER	2.792+/- 1.899	mph
13	N TOP PAR	-7.468+/- 2.386	mph	39	N VA 74'	1.84+/- 1.520	mph
14	N Dasibi O3	.020+/- .003	ppm	40	S BOT PAR	-4.143+/- 2.581	mph
15	N TOP VER	.522+/- 1.339	mph	41	N GND PER	2.793+/- 1.664	mph
16	N NOX/TECO	*****	ppm	42	S BOT VER	.365+/- 1.035	mph
17	N BOT PER	3.468+/- 2.350	mph	43	N GND PAR	-7.569+/- 2.260	mph
18	N BOT PAR	-7.535+/- 2.326	mph	45	N GND VER	.323+/- .769	mph
20	N ND2/TECO	*****	ppm	49	N Ecolyzer-1	1.250+/- .294	ppm
21	N BOT VER	.748+/- 1.089	mph	50	S TOP PER	3.852+/- 2.052	mph
22	N ND/TECO	*****	ppm	51	N Ecolyzer-2	1.836+/- .355	ppm
23	N HA 102'	9.677+/- 1.822	mph	52	S TOP PAR	-4.616+/- 2.561	mph
24	N THC/Byron	*****	ppm	53	N Ecolyzer-3	1.837+/- .700	ppm

25	N WV 102'	125.073+/-	15.934	DEGR AZ	54	S TDP VER	.338+/-	1.218	mph
26	N NMHC/Byrn	*****+/-*****		ppm	55	N Ecolyzer-4	2.530+/-	.715	ppm
27	N Gnd Temp	77.114+/-	2.738	DEGR F	56	S GNO PER	1.872+/-	1.966	mph
28	N CH4/Byrn	*****+/-*****		ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	121.337+/-	17.259	DEGR AZ	58	S GNO PAR	-1.604+/-	1.285	mph
30	N CD/Byrn	*****+/-*****		ppm	59	N Rel Hum	76.665+/-	.976	%
31	N 74' Temp	74.066+/-	1.677	DEGR F	60	S GNO VER	.159+/-	.951	mph
32	N CD2/Byrn	*****+/-*****		ppm	61	N Solar Rad	373.820+/-	42.092	W/m**2
35	N HA 74'	9.378+/-	2.242	mph	64	S VA 55'	.685+/-	1.211	mph

UUV Vector Calculations						
UUV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	9.25+/- 2.19	122.3+/- 15.5	3.5+/- 10.3		
02	17 19 21	8.77+/- 2.12	115.1+/- 17.3	4.9+/- 7.7		
03	38 40 42	5.60+/- 2.25	127.6+/- 27.0	6.8+/- 15.6		
04	41 43 45	8.34+/- 2.04	111.1+/- 14.9	2.3+/- 6.1		
05	50 52 54	6.54+/- 2.39	130.5+/- 21.0	6.6+/- 15.7		
06	56 58 60	3.09+/- 1.72	136.6+/- 36.2	9.3+/- 29.1		

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 9231 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	169	58.7	275	56.8	362	59.1	177	58.8	163	47.2
Cat2	478	60.6	653	59.2	648	60.3	522	59.1	246	48.0
Cat3	108	61.7	151	62.7	109	60.4	56	57.9	25	48.8
Cat4	67	64.7	89	63.8	46	59.8	31	58.3	9	45.5
Cat5	33	67.4	45	68.4	5	60.9	15	60.8	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	166	62.8	196	57.4	239	58.1	194	58.6	96	45.6
Cat2	788	64.5	740	59.0	684	58.9	528	60.6	315	46.7
Cat3	71	65.4	160	59.8	131	59.1	53	59.3	10	45.6
Cat4	63	67.2	101	60.9	105	60.4	14	59.0	1	42.5
Cat5	13	66.1	37	62.3	40	61.0	3	71.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.1	2037	22.1	59.1	5603	60.7	60.3	874	9.5	62.0	526	5.7	64.6	191	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.295+/- 2.069	mph	37	N VA 102'	.728+/- 1.293	mph
12	N Dasibi CD	2.073+/- .573	ppm	38	S BDT PER	2.857+/- 1.830	mph
13	N TDP PAR	-6.737+/- 2.306	ppm	39	N VA 74'	.110+/- 1.278	mph
14	N Dasibi O3	.021+/- .004	ppm	40	S BDT PAR	-4.098+/- 2.239	mph
15	N TDP VER	.467+/- 1.184	mph	41	N GND PER	2.457+/- 1.606	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	.314+/- .970	mph
17	N BDT PER	3.055+/- 1.999	mph	43	N GNO PAR	-7.003+/- 2.165	mph
19	N BDT PAR	-7.007+/- 2.195	mph	45	N GNO VER	.289+/- .646	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	1.239+/- .371	ppm
21	N BDT VER	.661+/- 1.030	mph	50	S TDP PER	3.889+/- 2.012	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	1.767+/- .438	ppm
23	N HA 102'	8.814+/- 2.059	mph	52	S TDP PAR	-4.726+/- 2.165	mph
24	N THC/Byrn	*****+/-*****	ppm	53	N Ecolyzer-3	1.892+/- .750	ppm
25	N WV 102'	124.868+/- 14.409	DEGR AZ	54	S TDP VER	.215+/- 1.075	mph
26	N NMHC/Byrn	*****+/-*****	ppm	55	N Ecolyzer-4	2.391+/- .751	ppm
27	N Gnd Temp	75.551+/- 2.781	DEGR F	56	S GNO PER	1.800+/- 1.950	mph
28	N CH4/Byrn	*****+/-*****	ppm	57	N Ecolyzer-5	2.477+/- 1.193	ppm
29	N WV 74'	121.528+/- 16.662	DEGR AZ	58	S GND PAR	-1.672+/- 1.265	mph
30	N CD/Byrn	*****+/-*****	ppm	59	N Rel Hum	78.106+/- 1.410	%
31	N 74' Temp	73.161+/- 2.370	DEGR F	60	S GNO VER	.218+/- .931	mph
32	N CD2/Byrn	*****+/-*****	ppm	61	N Solar Rad	291.208+/- 76.110	W/m**2
35	N HA 74'	8.309+/- 2.327	mph	64	S VA 55'	.556+/- 1.087	mph

UUV Vector Calculations						
UUV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	8.38+/- 2.21	123.0+/- 15.1	3.9+/- 9.1		
02	17 19 21	8.04+/- 2.04	114.2+/- 15.7	5.0+/- 7.9		
03	38 40 42	5.49+/- 2.05	126.8+/- 23.2	5.4+/- 13.2		
04	41 43 45	7.66+/- 2.04	109.8+/- 14.7	2.3+/- 5.5		
05	50 52 54	6.49+/- 2.30	128.2+/- 16.9	4.8+/- 13.9		
06	56 58 60	3.06+/- 1.72	133.1+/- 36.7	9.6+/- 27.4		



15:01:40 -- BEGIN END CAL. NCO-3  
 15:05:07 -- BEGIN END CAL. NCO-2 GRD  
 15:13:33 -- END OF END CAL. SPAN READINGS GRD  
 15:14:38 -- BEGIN READING ZEROS  
 15:19:29 -- END OF END CAL. ECOL GRD

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2307 vehicles averaging 59.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	57.4	68	56.7	87	59.5	144	58.0	47	47.3
Cat2	136	60.5	172	58.2	179	60.8	142	59.3	80	49.1
Cat3	33	61.5	46	63.3	22	62.3	21	59.4	9	50.2
Cat4	11	66.1	21	65.7	13	61.8	8	63.5	4	43.8
Cat5	5	68.7	7	68.9	2	64.9	2	62.8	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	50	63.3	61	58.8	63	58.1	46	59.3	20	47.3
Cat2	172	65.5	172	60.2	166	59.8	137	60.6	77	47.7
Cat3	15	65.2	20	60.0	22	58.6	8	55.7	2	49.2
Cat4	4	68.8	15	61.8	20	59.6	5	54.9	1	47.7
Cat5	3	66.5	8	60.7	10	62.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.5	536	23.2	59.3	1433	62.1	60.7	198	8.6	61.8	102	4.4	64.7	38	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.198+/- 1.922	mph	37	N VA 102'	.577+/- 1.355	mph
12	N Dasibi CD	2.124+/- .382	ppm	38	S BOT PER	3.593+/- 2.072	mph
13	N TOP PAR	-5.611+/- 2.021	mph	39	N VA 74'	-.142+/- 1.160	mph
14	N Dasibi O3	.020+/- .003	ppm	40	S BOT PAR	-4.216+/- 1.949	mph
15	N TOP VER	.411+/- 1.147	mph	41	N GND PER	2.797+/- 1.478	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.423+/- .966	mph
17	N BOT PER	4.267+/- 1.850	mph	43	N GND PAR	-6.306+/- 1.868	mph
19	N BOT PAR	-5.646+/- 1.832	mph	45	N GND VER	.305+/- .851	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.573+/- .900	mph	50	S TOP PER	4.729+/- 2.131	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	9.118+/- 1.689	mph	52	S TOP PAR	-4.779+/- 2.042	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	133.094+/- 14.299	DEGR AZ	54	S TOP VER	.247+/- 1.112	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	76.411+/- 2.613	DEGR F	56	S GND PER	2.488+/- 1.991	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	130.570+/- 16.109	DEGR AZ	58	S GND PAR	-2.104+/- 1.524	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	77.756+/- .511	%
31	N 74' Temp	73.649+/- 1.904	DEGR F	60	S GND VER	.125+/- .951	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	244.248+/- 61.368	W/m**2
35	N HA 74'	8.245+/- 2.238	mph	64	S VA 55'	.650+/- 1.104	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	7.97+/- 2.05	133.2+/- 13.7	4.0+/- 8.9
02	17 19 21	7.39+/- 1.84	127.3+/- 14.4	5.2+/- 7.5
03	38 40 42	5.98+/- 2.01	129.5+/- 20.0	5.7+/- 11.6
04	41 43 45	7.13+/- 1.73	114.4+/- 13.7	2.3+/- 5.6
05	50 52 54	7.04+/- 2.37	135.2+/- 15.6	5.2+/- 14.1
06	56 58 60	3.76+/- 1.88	134.8+/- 31.5	5.9+/- 26.9

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CD	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	ppm
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	*****+/-*****	86.3+/- 52.4	300.3+/-*****
02	17	19	21	*****+/-*****	72.1+/- 61.6	239.6+/-*****
03	38	40	42	*****+/-*****	88.8+/- 57.8	244.2+/-*****
04	41	43	45	*****+/-*****	79.1+/- 73.3	189.5+/-*****
05	50	52	54	*****+/-*****	65.0+/- 50.4	45.2+/-*****
06	56	58	60	*****+/-*****	48.7+/- 47.2	*****+/-*****

Average for 15 minute period ending at 15:45:00  
Average for 15 minute period ending at 16:00:00  
Average for hourly period ending at 16:00:00  
Traffic Data  
Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi D3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECD	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	mph
22	N NO/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TOP PAR	*****+/-*****	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	50	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m=2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	*****+/-*****	*****+/-*****	*****+/-*****
02	17	19	21	*****+/-*****	*****+/-*****	*****+/-*****
03	38	40	42	*****+/-*****	*****+/-*****	*****+/-*****
04	41	43	45	*****+/-*****	*****+/-*****	*****+/-*****
05	50	52	54	*****+/-*****	*****+/-*****	*****+/-*****
06	56	58	60	*****+/-*****	*****+/-*****	*****+/-*****

Daily Hourly Average Maximums for each Active Channel

<u>Channel</u>	<u>Time</u>	<u>Value</u>
01	15:00:00	855 vehicles
02	14:00:00	1105 vehicles
03	15:00:00	1213 vehicles
04	15:00:00	1234 vehicles
05	15:00:00	1171 vehicles
06	15:00:00	1189 vehicles
07	13:00:00	842 vehicles
08	15:00:00	792 vehicles
09	15:00:00	443 vehicles
10	15:00:00	422 vehicles
11	14:00:00	4.809 mph
12	15:00:00	2.073 ppm
13	00:00:00	.000 mph
14	15:00:00	.021 ppm
15	15:00:00	.467 mph
16	00:00:00	.000 ppm
17	14:00:00	3.560 mph
19	00:00:00	.000 mph
20	00:00:00	.000 ppm
21	15:00:00	.661 mph
22	00:00:00	.000 ppm
23	14:00:00	9.155 mph
24	00:00:00	.000 ppm
25	13:00:00	128.329 DEGR AZ
26	00:00:00	.000 ppm
27	15:00:00	75.551 DEGR F
28	00:00:00	.000 ppm
29	13:00:00	125.284 DEGR AZ
30	00:00:00	.000 ppm
31	15:00:00	73.161 DEGR F
32	00:00:00	.000 ppm
35	14:00:00	8.443 mph
37	15:00:00	.728 mph
38	13:00:00	3.236 mph
39	15:00:00	.110 mph
40	00:00:00	.000 mph
41	14:00:00	2.639 mph
42	13:00:00	.474 mph
43	00:00:00	.000 mph
45	15:00:00	.289 mph
49	13:00:00	1.350 ppm
50	14:00:00	4.258 mph
51	15:00:00	1.767 ppm
52	00:00:00	.000 mph
53	15:00:00	1.892 ppm
54	13:00:00	.445 mph
55	15:00:00	2.391 ppm
56	13:00:00	2.180 mph
57	15:00:00	2.477 ppm
58	00:00:00	.000 mph
59	13:00:00	81.733 %
60	13:00:00	.308 mph
61	15:00:00	291.208 W/m**2
64	13:00:00	.731 mph

NDTE: All times in the maximums are ending times for the interval

Data for Dec. 19, 1984  
 07:42:39 -- 12/19/84  
 07:42:40 -- This is the data run of 12/19/84. SF6 will be ran today. Currently, the met cond  
 07:42:41 -- itions are: Winds southerly with some high ground fog.  
 07:42:47 -- TURNING OFF RADARS  
 07:43:52 -- Attempting to calibrate TECO NOX analyzer.  
 07:44:06 -- TURNING ON DASIBI CO  
 07:45:39 -- READ INITIAL TECO ZEROS  
 07:46:10 -- INVALIDATING NORTH GROUND STAND UNTIL IT HAS BEEN PLACED NEAR ROADWAY.  
 Average for 15 minute period ending at 07:15:00  
 Average for 15 minute period ending at 07:30:00  
 Average for 15 minute period ending at 07:45:00

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	ppm	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	ppm	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

Average for 15 minute period ending at 08:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	1.941+/- 1.170	mph	37	N VA 102'	.218+/- .544	mph
12	N Dasibi CO	3.545+/- .611	ppm	38	S BOT PER	1.601+/- .663	mph
13	N TOP PAR	.851+/- 1.171	ppm	39	N VA 74'	.173+/- .615	mph
14	N Dasibi O3	.014+/- .003	ppm	40	S BOT PAR	-.083+/- .693	mph
15	N TOP VER	.150+/- .613	ppm	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.218+/- .312	mph
17	N BOT PER	1.560+/- 1.028	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-1.166+/- 1.217	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.205+/- .560	mph	50	S TOP PER	1.257+/- .943	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	3.460+/- 1.212	ppm	52	S TOP PAR	-.654+/- .782	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	152.018+/- 17.325	DEGR AZ	54	S TOP VER	.218+/- .347	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	65.989+/- 2.226	DEGR F	56	S GND PER	.490+/- .498	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	153.139+/- 18.143	DEGR AZ	58	S GND PAR	.001+/- .362	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	86.207+/- .233	%
31	N 74' Temp	65.484+/- 2.808	DEGR F	60	S GND VER	.141+/- .195	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	14.079+/- 4.044	W/m**2
35	N HA 74'	2.607+/- 1.573	mph	64	S VA 55'	.390+/- .362	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	2.46+/- 1.24	158.6+/- 30.3	5.0+/- 18.8
02	17 19 21	2.32+/- 1.16	148.5+/- 29.5	6.0+/- 18.7
03	38 40 42	1.77+/- .72	181.1+/- 18.2	9.9+/- 12.6
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	1.64+/- 1.00	158.5+/- 31.8	17.4+/- 23.5
06	56 58 60	.84+/- .52	200.5+/- 31.1	20.9+/- 23.8

Average for hourly period ending at 08:00:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	ppm	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BOT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	ppm	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	*****+/-*****	mph
17	N BOT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	*****+/-*****	mph	50	S TOP PER	*****+/-*****	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	ppm	52	S TOP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TOP VER	*****+/-*****	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m**2
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	*****+/-*****	*****+/-*****	*****+/-*****
02	17 19 21	*****+/-*****	*****+/-*****	*****+/-*****
03	38 40 42	*****+/-*****	*****+/-*****	*****+/-*****
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	*****+/-*****	*****+/-*****	*****+/-*****
06	56 58 60	*****+/-*****	*****+/-*****	*****+/-*****

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08:29:23 -- BEGIN CAL. OF ECOL.  
 08:38:35 -- BEGIN CAL. NCO-4  
 08:38:45 -- END CAL. NCO-5  
 08:31:42 -- END CAL NCO-3  
 08:52:01 -- BEGIN CAL. NCO-2  
 08:55:29 -- BEGIN CAL NCO-1

Average for 15 minute period ending at 08:15:00  
Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.464+/- 1.010	mph	37	N VA 102'	.206+/- .435	mph
12	N Dasibi CO	3.578+/- .570	ppm	38	S BOT PER	2.476+/- .825	mph
13	N TOP PAR	-1.222+/- 1.135	mph	39	N VA 74'	.104+/- .495	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BOT PAR	-.164+/- .702	mph
15	N TOP VER	.273+/- .581	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.217+/- .446	mph
17	N BOT PER	1.918+/- .968	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-1.446+/- 1.097	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.323+/- .523	mph	50	S TOP PER	2.467+/- .947	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	4.015+/- .904	ppm	52	S TOP PAR	-1.133+/- .717	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	150.030+/- 14.105	DEGR AZ	54	S TOP VER	.277+/- .447	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	67.579+/- 2.839	DEGR F	56	S GND PER	1.210+/- .887	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	147.917+/- 17.293	DEGR AZ	58	S GND PAR	-.259+/- .646	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	86.093+/- .180	%
31	N 74' Temp	65.807+/- 2.713	DEGR F	60	S GND VER	.182+/- .210	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	37.741+/- 16.069	W/m**2
35	N HA 74'	3.456+/- 1.118	mph	64	S VA 55'	.403+/- .489	mph

<u>UVW Vector Calculations</u>						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	3.06+/- .96	154.1+/- 22.4	6.8+/- 12.7		
02	17 19 21	2.73+/- .92	142.9+/- 26.3	7.4+/- 13.6		
03	38 40 42	2.62+/- .85	178.1+/- 13.7	6.5+/- 12.5		
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0		
05	50 52 54	2.86+/- .93	154.6+/- 15.8	7.1+/- 10.3		
06	56 58 60	1.43+/- .88	177.7+/- 30.9	15.5+/- 19.7		

Average for 15 minute period ending at 08:30:00  
Traffic Data  
 Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.216+/- 1.001	mph	37	N VA 102'	.321+/- .631	mph
12	N Dasibi CO	3.024+/- .526	ppm	38	S BOT PER	2.178+/- 1.048	mph
13	N TOP PAR	-2.696+/- 1.011	mph	39	N VA 74'	-.084+/- .552	mph
14	N Dasibi O3	.014+/- .002	ppm	40	S BOT PAR	-1.170+/- 1.216	mph
15	N TOP VER	.423+/- .845	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.214+/- .408	mph
17	N BOT PER	2.394+/- 1.001	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-2.918+/- 1.023	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.447+/- .681	mph	50	S TOP PER	2.560+/- 1.246	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	4.897+/- 1.027	ppm	52	S TOP PAR	-2.043+/- .924	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	141.318+/- 12.883	DEGR AZ	54	S TOP VER	.414+/- .528	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	67.188+/- 1.859	DEGR F	56	S GND PER	.951+/- .905	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	137.230+/- 12.209	DEGR AZ	58	S GND PAR	-.463+/- .682	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	85.849+/- .368	%
31	N 74' Temp	67.005+/- 2.529	DEGR F	60	S GND VER	.192+/- .266	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	87.335+/- 8.763	W/m**2
35	N HA 74'	4.460+/- 1.215	mph	64	S VA 55'	.583+/- .520	mph

<u>UVW Vector Calculations</u>						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.41+/- 1.02	140.2+/- 13.2	6.0+/- 11.3		
02	17 19 21	4.01+/- .94	129.4+/- 16.0	6.4+/- 10.0		
03	38 40 42	2.75+/- 1.15	157.7+/- 26.7	8.4+/- 14.5		
04	41 43 45	.00+/- .00	0+/- .0	0+/- .0		
05	50 52 54	3.48+/- 1.22	139.4+/- 16.9	9.4+/- 11.9		
06	56 58 60	1.30+/- .91	166.3+/- 37.3	17.7+/- 24.2		

Average for 15 minute period ending at 08:45:00  
Traffic Data  
 Total Traffic = 2022 vehicles averaging 58.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	10	60.3	77	53.8	90	57.1	60	59.8	16	47.9
Cat2	163	64.1	96	56.0	150	58.8	123	58.7	21	48.1
Cat3	31	67.0	35	58.6	35	58.7	22	57.8	0	0
Cat4	26	68.9	11	62.6	11	58.8	7	61.9	1	50.4
Cat5	14	71.4	0	0	2	58.0	6	60.5	0	0

Eastbound Traffic

Table with columns for Radar 2, Radar 4, Radar 6, Radar 8, and Radar 10. Rows include Cat 1 through Cat 5 with sub-columns for No. and Spd.

Vehicle Classification Summary

Summary table with columns for CAT 1, CAT 2, CAT 3, CAT 4, and CAT 5. Rows include Spd., Total, and %.

Regular Channels

Main table for Regular Channels with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various sensors and their readings.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows vector data for channels 01-06.

Average for 15 minute period ending at 09:00:00

Traffic Data

Total Traffic = 2190 vehicles averaging 58.5 mph

Westbound Traffic

Table for Westbound Traffic with columns for Radar 1, Radar 3, Radar 5, Radar 7, and Radar 9. Rows include Cat 1 through Cat 5 with sub-columns for No. and Spd.

Eastbound Traffic

Table for Eastbound Traffic with columns for Radar 2, Radar 4, Radar 6, Radar 8, and Radar 10. Rows include Cat 1 through Cat 5 with sub-columns for No. and Spd.

Vehicle Classification Summary

Summary table for Westbound/Eastbound with columns for CAT 1, CAT 2, CAT 3, CAT 4, and CAT 5. Rows include Spd., Total, and %.

Regular Channels

Main table for Regular Channels (Westbound/Eastbound) with columns: Channel, Instrument, Value, Units, Channel, Instrument, Value, Units. Lists various sensors and their readings.

UVW Vector Calculations

UVW Vector Calculations table with columns: UVW, Channels, Vector Sum (mph), Bearing Deg A2, Elevation Angle (Deg). Shows vector data for channels 01-06.

Average for hourly period ending at 09:00:00

Traffic Data

Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
0	0	****	0	0	****	0	0	****	0	0	****	0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	2.844+/-	1.112	37	N VA 102'	.271+/-	.639
12	N Dasibi CO	2.971+/-	.672	38	S BOT PER	2.336+/-	1.032
13	N TOP PAR	-2.327+/-	1.365	39	N VA 74'	.088+/-	.616
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-1.103+/-	1.367
15	N TOP VER	.288+/-	.741	41	N GND PER	*****+/-	*****
16	N NDX/TECD	*****+/-	*****	42	S BOT VER	.162+/-	.526
17	N BOT PER	2.189+/-	1.103	43	N GND PAR	*****+/-	*****
19	N BOT PAR	-2.600+/-	1.357	45	N GND VER	*****+/-	*****
20	N NO2/TECD	*****+/-	*****	49	N Ecolyzer-1	*****+/-	*****
21	N BOT VER	.358+/-	.669	50	S TOP PER	2.568+/-	1.160
22	N ND/TECD	*****+/-	*****	51	N Ecolyzer-2	*****+/-	*****
23	N HA 102'	4.689+/-	1.067	52	S TOP PAR	-1.926+/-	1.158
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	*****+/-	*****
25	N WV 102'	142.331+/-	14.770	54	S TOP VER	.269+/-	.611
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	*****+/-	*****
27	N Gnd Temp	68.048+/-	2.265	56	S GND PER	1.037+/-	1.018
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	*****+/-	*****
29	N WV 74'	139.048+/-	16.204	58	S GND PAR	-.514+/-	.801
30	N CD/Byron	*****+/-	*****	59	N Rel Num	85.682+/-	.446
31	N 74' Temp	65.963+/-	3.133	60	S GND VER	.165+/-	.383
32	N CD2/Byron	*****+/-	*****	61	N Solar Rad	108.128+/-	60.553
35	N HA 74'	4.105+/-	1.335	64	S VA 55'	.455+/-	.585

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	3.86+/- 1.23	142.2+/- 19.4	5.2+/- 11.6
02	17 19 21	3.71+/- 1.21	131.4+/- 21.5	6.2+/- 11.5
03	38 40 42	2.94+/- 1.11	159.6+/- 26.3	5.7+/- 13.7
04	41 43 45	*****+/-	*****+/-	*****+/-
05	50 52 54	3.47+/- 1.19	143.1+/- 19.2	6.8+/- 13.0
06	56 58 60	1.47+/- 1.01	164.4+/- 38.3	15.5+/- 25.1

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09:03:49 -- END CAL. NCO-1  
 09:21:11 -- RESTART 1. See MEL-2 data log for details.  
 09:21:12 -- 12/19/84  
 09:21:13 -- This is a program restart. Use all previous calibration data and NOX zeros  
 Average for 15 minute period ending at 09:15:00

Traffic Data  
 Total Traffic = 1949 vehicles averaging 59.0 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	13	57.0	45	54.2	83	58.3	31	59.7	31	49.8
Cat2	133	63.6	185	57.1	142	58.8	122	59.7	26	48.4
Cat3	39	62.7	41	60.3	27	57.4	19	63.3	1	48.8
Cat4	18	66.2	12	61.8	13	58.9	13	57.4	1	46.3
Cat5	15	70.4	9	64.5	3	60.3	2	63.9	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	90	60.6	62	58.7	64	58.7	79	57.5	22	46.8
Cat2	105	62.1	122	60.1	129	59.0	101	58.5	32	47.6
Cat3	12	61.8	26	58.9	23	57.8	5	58.5	3	46.4
Cat4	8	62.3	18	63.6	9	58.5	5	52.8	0	.0
Cat5	2	64.6	3	63.1	5	64.7	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.4	520	26.7	59.1	1097	56.3	60.0	196	10.1	61.1	97	5.0	66.3	39	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.408+/-	1.302	37	N VA 102'	.333+/-	.820
12	N Dasibi CO	2.428+/-	.388	38	S BOT PER	3.121+/-	1.131
13	N TOP PAR	-2.268+/-	1.265	39	N VA 74'	.060+/-	.809
14	N Dasibi O3	.014+/-	.002	40	S BOT PAR	-1.014+/-	1.343
15	N TOP VER	.196+/-	.813	41	N GND PER	*****+/-	*****
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.287+/-	.681
17	N BOT PER	3.306+/-	1.434	43	N GND PAR	*****+/-	*****
18	N BOT PAR	-2.390+/-	1.265	45	N GND VER	*****+/-	*****
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	3.750+/-	.599
21	N BOT VER	.354+/-	.697	50	S TOP PER	3.704+/-	1.261
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	4.094+/-	.371
23	N HA 102'	5.713+/-	1.225	52	S TOP PAR	-1.603+/-	1.236
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	3.853+/-	.687
25	N WV 102'	151.226+/-	12.234	54	S TOP VER	.352+/-	.802
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	3.915+/-	.515
27	N Gnd Temp	89.008+/-	2.798	56	S GND PER	1.785+/-	1.198
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	3.187+/-	1.266
29	N WV 74'	147.607+/-	12.522	58	S GND PAR	-.739+/-	.939
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	84.082+/-	.227
31	N 74' Temp	66.272+/-	2.453	60	S GND VER	.237+/-	.416
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	186.712+/-	24.407
35	N HA 74'	5.651+/-	1.707	64	S VA 55'	.592+/-	.827

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
O1	11 13 15	5.18+/- 1.31	152.6+/- 13.9	2.7+/- 9.7
O2	17 19 21	4.38+/- 1.32	142.8+/- 19.6	5.5+/- 11.8
O3	38 40 42	3.57+/- 1.27	165.5+/- 19.0	7.2+/- 13.5
O4	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
O5	50 52 54	4.35+/- 1.38	155.1+/- 14.5	7.0+/- 12.8
O6	56 58 60	2.19+/- 1.18	161.3+/- 29.7	12.0+/- 21.1

Average for 15 minute period ending at 09:30:00  
Traffic Data  
 Total Traffic = 1530 vehicles averaging 59.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	6	57.3	38	54.3	58	58.1	22	59.0	16	52.0
Cat2	114	62.7	136	58.7	108	58.3	121	58.5	22	47.4
Cat3	28	64.1	26	60.3	18	58.6	11	59.7	4	51.8
Cat4	16	67.7	17	62.7	12	58.4	4	64.5	1	42.6
Cat5	15	69.8	7	62.8	0	.0	4	65.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	61.1	36	57.9	43	59.7	42	56.4	18	46.3
Cat2	79	63.1	119	59.6	106	59.1	69	60.0	29	46.5
Cat3	8	62.0	22	61.1	17	58.4	6	58.6	1	49.5
Cat4	7	64.5	13	63.3	14	59.9	2	63.8	0	.0
Cat5	2	63.8	5	69.4	6	60.8	1	****	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	360	23.5	58.8	903	59.0	60.4	141	9.2	62.7	86	5.6	67.3	40	2.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.644+/-	1.729	37	N VA 102'	.269+/-	1.048
12	N Dasibi CO	*****+/-	*****	38	S BOT PER	4.234+/-	1.443
13	N TOP PAR	-3.182+/-	1.583	39	N VA 74'	-.193+/-	.790
14	N Dasibi O3	*****+/-	*****	40	S BOT PAR	-1.773+/-	1.450
15	N TOP VER	.151+/-	.904	41	N GND PER	*****+/-	*****
16	N NOX/TECO	*****+/-	*****	42	S BOT VER	.082+/-	.857
17	N BOT PER	4.158+/-	1.764	43	N GND PAR	*****+/-	*****
19	N BOT PAR	-2.986+/-	1.378	45	N GND VER	*****+/-	*****
20	N NO2/TECO	*****+/-	*****	49	N Ecolyzer-1	3.544+/-	.497
21	N BOT VER	.388+/-	.697	50	S TOP PER	3.898+/-	2.485
22	N NO/TECO	*****+/-	*****	51	N Ecolyzer-2	3.698+/-	.295
23	N HA 102'	7.534+/-	1.371	52	S TOP PAR	-2.199+/-	1.412
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	3.511+/-	.484
25	N WV 102'	150.787+/-	9.130	54	S TOP VER	.030+/-	.824
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	3.617+/-	.474
27	N Gnd Temp	*****+/-	*****	56	S GND PER	2.702+/-	1.534
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	3.000+/-	.987
29	N WV 74'	145.652+/-	10.694	58	S GND PAR	-1.243+/-	1.156
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	*****+/-	*****
31	N 74' Temp	*****+/-	*****	60	S GND VER	.166+/-	.478
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	*****+/-	*****
35	N HA 74'	7.148+/-	1.745	64	S VA 55'	.489+/-	.942

UVW		Channels	Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	6.67+/-	1.94	151.2+/-	12.1	2.3+/- 8.4
02	17	19 21	5.38+/-	1.67	143.1+/-	17.4	5.3+/- 8.6
03	38	40 42	4.85+/-	1.57	158.8+/-	16.6	1.9+/- 10.9
04	41	43 45	.00+/-	.00	.0+/-	.0	.0+/- .0
05	50	52 54	4.74+/-	2.52	148.5+/-	21.1	7.0+/- 20.5
06	56	58 60	3.24+/-	1.52	155.9+/-	24.6	5.8+/- 14.5

Average for 15 minute period ending at 09:45:00  
 Traffic Data  
 Total Traffic = 2125 Vehicles averaging 58.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	8	59.3	47	53.6	106	57.3	38	59.0	19	49.7
Cat2	186	61.2	161	55.5	150	57.6	135	59.3	23	50.4
Cat3	34	62.3	45	58.7	30	56.5	23	57.0	1	41.7
Cat4	21	66.6	20	59.5	16	57.5	7	56.9	1	43.0
Cat5	12	68.7	10	64.4	2	53.4	2	58.9	1	48.8

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	92	62.5	48	58.9	64	59.0	59	58.0	20	46.0
Cat2	145	63.4	179	60.1	125	59.7	104	59.6	42	46.5
Cat3	7	64.7	25	61.7	25	57.1	10	59.9	2	44.6
Cat4	6	67.7	17	64.2	15	60.5	2	60.3	0	.0
Cat5	1	62.7	3	68.1	5	62.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.8	502	23.6	58.9	1280	60.2	59.0	202	9.5	61.6	105	4.9	64.4	36	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.149+/- 1.762	mph	37	N VA 102'	.480+/- 1.442	mph
12	N Dasibi CD	2.365+/- 1.413	ppm	38	S BOT PER	3.541+/- 1.610	mph
13	N TOP PAR	-1.197+/- 1.630	mph	39	N VA 74'	-.121+/- .940	mph
14	N Dasibi D3	.014+/- .002	ppm	40	S BOT PAR	-.945+/- 1.537	mph
15	N TOP VER	.092+/- .920	mph	41	N GND PER	2.703+/- 1.299	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.232+/- .793	mph
17	N BDT PER	3.833+/- 1.937	mph	43	N GND PAR	-2.962+/- 1.689	mph
19	N BDT PAR	-1.571+/- 1.362	mph	45	N GND VER	.140+/- .759	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N EcoLyzer-1	3.907+/- .506	ppm
21	N BDT VER	.207+/- .799	mph	50	S TOP PER	3.737+/- 1.649	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	3.951+/- .417	ppm
23	N HA 102'	6.691+/- 1.625	mph	52	S TOP PAR	-1.012+/- 1.480	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	3.553+/- .637	ppm
25	N WV 102'	164.601+/- 15.193	DEGR AZ	54	S TOP VER	.300+/- .944	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	3.842+/- .555	ppm
27	N Gnd Temp	69.897+/- 4.144	DEGR F	56	S GND PER	2.024+/- 1.079	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	3.038+/- .926	ppm
29	N WV 74'	159.865+/- 15.602	DEGR AZ	58	S GND PAR	-.592+/- .914	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	84.530+/- .214	%
31	N 74' Temp	66.538+/- 1.715	DEGR F	60	S GND VER	.199+/- .386	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	132.070+/- 35.965	W/m**2
35	N HA 74'	6.405+/- 1.947	mph	66	S VA 55'	.550+/- .914	mph

UVW		Channels	Vector Sum (mph)		Bearing Deg AZ	Elevation Angle (Deg)	
01	11	13 15	5.63+/-	1.69	166.3+/-	18.2	2.1+/- 9.8
02	17	19 21	4.55+/-	1.65	153.8+/-	24.5	3.8+/- 12.1
03	38	40 42	4.01+/-	1.73	169.4+/-	20.3	4.8+/- 15.3
04	41	43 45	4.53+/-	1.37	131.8+/-	21.8	2.7+/- 11.6
05	50	52 54	4.22+/-	1.74	166.6+/-	20.7	7.1+/- 15.5
06	56	58 60	2.32+/-	1.11	168.6+/-	23.6	7.6+/- 17.8

Average for 15 minute period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 2059 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	13	57.2	46	54.6	101	57.1	29	57.4	23	49.9
Cat2	138	61.3	133	56.2	154	58.3	132	58.4	29	49.9
Cat3	32	61.8	38	60.7	28	57.5	21	58.4	3	51.6
Cat4	17	65.3	25	62.9	9	57.2	2	57.7	0	.0
Cat5	15	68.8	16	65.0	1	55.8	2	69.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	101	60.6	51	59.1	65	58.8	72	58.5	12	49.1
Cat2	139	62.5	165	60.1	132	59.7	103	60.0	42	47.2
Cat3	12	63.0	38	61.2	28	59.0	16	61.1	2	46.1
Cat4	3	60.7	14	64.8	14	59.0	2	52.8	0	.0
Cat5	0	.0	5	61.1	6	63.0	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.7	513	24.9	58.8	1197	58.1	60.0	218	10.6	62.0	86	4.2	65.6	45	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.121+/- 1.680	mph	37	N VA 102'	.374+/- 1.132	mph
12	N Dasibi CD	1.865+/- 1.359	ppm	38	S BOT PER	4.325+/- 1.828	mph
13	N TOP PAR	-1.404+/- 1.650	mph	39	N VA 74'	-.290+/- .912	mph
14	N Dasibi D3	.014+/- .002	ppm	40	S BOT PAR	-1.686+/- 1.854	mph
15	N TOP VER	.428+/- .888	mph	41	N GND PER	2.409+/- 1.424	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	-.301+/- .695	mph
17	N BDT PER	3.495+/- 2.028	mph	43	N GND PAR	-3.004+/- 1.746	mph
19	N BDT PAR	-1.726+/- 1.406	mph	45	N GND VER	.342+/- .611	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	3.162+/- .515	ppm
21	N BDT VER	.458+/- .748	mph	50	S TOP PER	4.657+/- 1.972	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	3.190+/- .408	ppm
23	N HA 102'	6.698+/- 1.701	mph	52	S TOP PAR	-1.410+/- 1.471	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	2.965+/- .465	ppm
25	N WV 102'	164.680+/- 15.352	DEGR AZ	54	S TOP VER	.271+/- .926	mph
28	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	3.135+/- .513	ppm

27	N Gnd Temp	70.887+/-	2.429	DEGR F	56	S GND PER	2.285+/-	1.207	mph
28	N CH4/Byron	*****/-*****		ppm	57	N Ecolyzer-5	2.559+/-	.935	ppm
29	N WV 74'	161.333+/-	14.963	DEGR AZ	58	S GND PAR	-1.232+/-	1.223	mph
30	N CD/Byron	*****/-*****		ppm	59	N Rel Hum	83.732+/-	.284	%
31	N 74' Temp	67.240+/-	2.283	DEGR F	60	S GND VER	.216+/-	.439	mph
32	N CD2/Byron	*****/-*****		ppm	61	N Solar Rad	167.949+/-	20.912	W/m**2
35	N HA 74'	6.458+/-	2.142	mph	64	S VA 55'	.524+/-	.911	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.60+/- 1.82	166.4+/- 15.5	5.6+/- 10.0			
02	17	19	21	4.27+/- 1.96	153.0+/- 25.1	8.2+/- 14.2			
03	38	40	42	4.93+/- 2.13	162.8+/- 18.7	5.3+/- 11.2			
04	41	43	45	4.28+/- 1.65	131.9+/- 23.4	4.7+/- 10.2			
05	50	52	54	5.16+/- 2.01	165.1+/- 17.3	6.1+/- 14.8			
06	56	58	60	2.85+/- 1.35	155.8+/- 24.6	8.3+/- 16.1			

Average for hourly period ending at 10:00:00  
 Traffic Data  
 Total Traffic = 7663 vehicles averaging 59.0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	41	57.6	174	54.2	348	57.6	120	58.8	85	50.2
Cat2	571	62.1	675	56.4	554	58.3	510	59.0	100	49.0
Cat3	133	62.7	150	60.0	103	57.4	74	59.4	9	50.3
Cat4	72	66.4	74	61.7	50	58.0	26	58.4	3	44.0
Cat5	57	69.5	42	64.4	6	57.2	10	64.6	1	46.8

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	366	61.2	197	58.7	236	59.0	252	57.7	72	46.9
Cat2	468	62.8	585	60.0	492	59.4	377	59.5	145	46.9
Cat3	39	62.7	111	60.7	93	58.1	37	60.0	8	46.3
Cat4	24	64.1	62	64.0	52	59.6	11	56.2	0	.0
Cat5	5	63.9	16	65.4	22	62.7	1	****	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.6	1895	24.7	58.9	4477	58.4	59.8	757	9.9	61.8	374	4.9	65.9	160	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.050+/- 1.676	mph	37	N VA 102'	.364+/- 1.137	mph
12	N Dasibi C0	2.209+/- .438	ppm	38	S BOT PER	3.782+/- 1.606	mph
13	N TOP PAR	-1.950+/- 1.711	mph	39	N VA 74'	.043+/- .883	mph
14	N Dasibi 03	.014+/- .002	ppm	40	S BOT PAR	-1.332+/- 1.804	mph
15	N TOP VER	.220+/- .888	mph	41	N GND PER	*****/-*****	mph
16	N NOX/TECO	*****/-*****	ppm	42	S BOT VER	.233+/- .757	mph
17	N BOT PER	3.673+/- 1.831	mph	43	N GND PAR	*****/-*****	mph
19	N BOT PAR	-2.120+/- 1.453	mph	45	N GND VER	*****/-*****	mph
20	N ND2/TECO	*****/-*****	ppm	48	N Ecolyzer-1	3.585+/- .803	ppm
21	N BOT VER	.349+/- .743	mph	50	S TOP PER	4.004+/- 1.896	mph
22	N ND/TECO	*****/-*****	ppm	51	N Ecolyzer-2	3.735+/- 1.519	ppm
23	N HA 102'	6.612+/- 1.623	mph	52	S TOP PAR	-1.574+/- 1.465	mph
24	N THC/Byron	*****/-*****	ppm	53	N Ecolyzer-3	3.468+/- .668	ppm
25	N WV 102'	158.144+/- 14.923	DEGR AZ	54	S TOP VER	2.249+/- .885	mph
26	N NMHC/Byro	*****/-*****	ppm	55	N Ecolyzer-4	3.628+/- .605	ppm
27	N Gnd Temp	69.528+/- 3.205	DEGR F	56	S GND PER	2.166+/- 1.291	mph
28	N CH4/Byron	*****/-*****	ppm	57	N Ecolyzer-5	2.943+/- 1.067	ppm
29	N WV 74'	153.993+/- 15.273	DEGR AZ	58	S GND PAR	.936+/- 1.098	mph
30	N CD/Byron	*****/-*****	ppm	59	N Rel Hum	84.174+/- .408	%
31	N 74' Temp	66.662+/- 2.100	DEGR F	60	S GND VER	.207+/- .428	mph
32	N CD2/Byron	*****/-*****	ppm	61	N Solar Rad	151.208+/- 40.277	W/m**2
35	N HA 74'	6.376+/- 1.966	mph	64	S VA 55'	.537+/- .896	mph

UVW Vector Calculations

UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.72+/- 1.77	159.5+/- 16.7	3.2+/- 9.6			
02	17	19	21	4.60+/- 1.71	148.3+/- 22.8	5.7+/- 12.1			
03	38	40	42	4.31+/- 1.80	166.4+/- 19.1	5.0+/- 13.1			
04	41	43	45	*****/-*****	*****/-*****	*****/-*****			
05	50	52	54	4.61+/- 1.95	159.4+/- 19.6	6.8+/- 15.8			
06	56	58	60	2.82+/- 1.35	160.7+/- 26.2	8.6+/- 17.8			

10:12:57 -- BEGIN CAL. OF NCO-5 GRD  
 10:19:32 -- END CAL NCO-5  
 10:19:44 -- BEGIN CAL. NCO-4  
 10:28:25 -- BEGIN CAL. NCO-3  
 10:35:46 -- END CAL. NCO-3  
 10:37:21 -- BEGIN CAL. NCO-2 GRD  
 10:47:13 -- BEGIN CAL. NCO-1  
 10:55:14 -- RESTART 2. Ecolyzer vacuums left off during most of the run.  
 10:55:15 -- 12/19/84  
 10:55:16 -- This is a program restart. Use all previous calibration data. Just beginning SF6  
 10:55:17 -- experiment.

Average for 15 minute period ending at 10:15:00  
 Traffic Data  
 Total Traffic = 1923 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	52	56.5	52	53.4	94	56.4	36	55.9	28	47.4
Cat2	92	58.9	169	55.4	161	57.0	38	54.3	42	47.7
Cat3	15	60.6	33	60.7	15	56.1	8	55.2	5	43.6
Cat4	10	62.8	25	61.5	9	57.6	5	60.0	1	45.1
Cat5	5	74.5	7	65.5	0	0	1	43.9	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	91	60.9	57	58.0	62	58.6	53	58.9	25	46.6
Cat2	123	63.0	159	60.4	138	59.1	106	59.9	52	46.9
Cat3	20	62.5	25	61.6	18	58.0	6	55.6	1	48.2
Cat4	16	63.1	20	60.5	26	61.8	2	55.0	0	0
Cat5	0	0	11	62.9	9	60.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
56.6	550	28.6	57.7	1080	56.2	59.2	146	7.6	61.1	114	5.9	64.0	33	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.920+/- 2.090	mph	37	N VA 102'	.378+/- 1.038	mph
12	N Dasibi CD	1.902+/- .312	ppm	38	S BDT PER	3.380+/- 1.402	mph
13	N TDP PAR	.072+/- 1.370	mph	39	N VA 74'	.295+/- .872	mph
14	N Dasibi 03	.014+/- .002	ppm	40	S BDT PAR	-.320+/- 1.300	mph
15	N TDP VER	.360+/- .882	mph	41	N GND PER	2.152+/- 1.228	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.472+/- .944	mph
17	N BDT PER	3.562+/- 1.932	mph	43	N GND PAR	-1.725+/- 1.840	mph
19	N BDT PAR	-.230+/- 1.268	mph	45	N GND VER	.099+/- .739	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	3.089+/- .488	ppm
21	N BDT VER	.393+/- .708	mph	50	S TDP PER	3.429+/- 2.001	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	3.172+/- .463	ppm
23	N HA 102'	5.929+/- 1.563	mph	52	S TDP PAR	.035+/- 1.264	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.804+/- .806	ppm
25	N WV 102'	175.339+/- 15.421	DEGR AZ	54	S TOP VER	.447+/- 1.021	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.984+/- .537	ppm
27	N Gnd Temp	70.497+/- 2.375	DEGR F	56	S GND PER	1.742+/- 1.204	ppm
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.184+/- 1.079	ppm
29	N WV 74'	170.347+/- 13.992	DEGR AZ	58	S GND PAR	-.268+/- 1.209	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	83.179+/- .402	%
31	N 74' Temp	68.490+/- 3.328	DEGR F	60	S GND VER	2.245+/- .539	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	179.076+/- 53.802	W/m**2
35	N HA 74'	5.777+/- 2.095	mph	64	S VA 55'	.634+/- .939	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.24+/- 1.98	181.0+/- 17.9	6.7+/- 15.6
02	17 19 21	3.95+/- 1.77	173.4+/- 25.3	8.8+/- 16.8
03	38 40 42	3.79+/- 1.40	177.0+/- 19.9	10.5+/- 19.0
04	41 43 45	3.37+/- 1.31	142.7+/- 32.3	2.4+/- 14.0
05	50 52 54	3.82+/- 1.79	182.5+/- 25.4	14.5+/- 24.5
06	56 58 60	2.23+/- 1.18	178.5+/- 33.4	10.4+/- 23.9

Average for 15 minute period ending at 10:30:00  
 Traffic Data  
 Total Traffic = 2038 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	55	56.8	50	52.1	101	56.3	33	55.8	27	47.9
Cat2	105	58.9	151	55.6	174	57.0	56	55.8	31	47.8
Cat3	20	62.2	53	58.8	12	57.0	5	55.3	9	45.3
Cat4	12	63.5	11	61.9	10	56.7	7	54.5	2	41.3
Cat5	7	69.9	14	63.3	2	55.6	0	0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	60.1	51	58.0	50	59.4	65	57.4	22	45.0
Cat2	153	61.8	163	59.9	143	57.9	117	59.1	60	44.9
Cat3	13	60.2	41	60.7	29	59.3	10	60.1	2	47.4
Cat4	20	61.9	21	61.2	22	60.7	2	58.7	0	0
Cat5	1	62.4	8	62.9	8	60.2	1	****	0	0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total			Total			Total			Total			Total	
56.3	541	26.5	57.4	1155	56.7	58.9	194	9.5	60.2	107	5.3	64.3	41	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	5.146+/- 2.107	mph	37	N VA 102'	.203+/- 1.035	mph
12	N Dasibi CD	1.742+/- .329	ppm	38	S BDT PER	3.563+/- 1.467	mph
13	N TDP PAR	-.043+/- 1.556	mph	39	N VA 74'	.047+/- .928	mph
14	N Dasibi 03	.015+/- .003	ppm	40	S BDT PAR	-.189+/- 1.714	mph
15	N TDP VER	-.028+/- .941	mph	41	N GND PER	2.305+/- 1.422	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.343+/- .999	mph
17	N BDT PER	4.032+/- 2.010	mph	43	N GND PAR	-1.519+/- 1.779	mph
19	N BDT PAR	-.349+/- 1.509	mph	45	N GND VER	.218+/- .802	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.781+/- .515	ppm
21	N BDT VER	.011+/- .802	mph	50	S TDP PER	4.355+/- 1.832	ppm
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.729+/- .370	ppm
23	N HA 102'	5.638+/- 1.835	mph	52	S TDP PAR	.368+/- 1.716	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.365+/- .610	ppm
25	N WV 102'	175.029+/- 15.482	DEGR AZ	54	S TOP VER	.275+/- .874	ppm
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	72.503+/- 2.426	DEGR F	56	S GND PER	1.750+/- 1.273	ppm

28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	172.867+/- 17.777	DEGR AZ	58	S GND PAR	.180+/- 1.240	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	82.055+/- .465	%
31	N 74' Temp	69.168+/- 2.376	DEGR F	60	S GND VER	.305+/- .524	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	265.139+/- 82.041	W/m**2
35	N HA 74'	5.835+/- 2.105	mph	64	S VA 55'	.460+/- .881	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.48+/- 2.05	181.1+/- 19.3	.4+/- 12.1
02	17 19 21	4.44+/- 1.90	175.5+/- 25.9	1.9+/- 14.0
03	38 40 42	4.04+/- 1.61	179.1+/- 20.7	7.6+/- 16.8
04	41 43 45	3.36+/- 1.47	150.7+/- 36.0	4.9+/- 17.1
05	50 52 54	4.80+/- 1.79	185.1+/- 22.5	6.8+/- 16.1
06	56 58 60	2.18+/- 1.36	181.9+/- 31.2	15.4+/- 23.5

Average for 15 minute period ending at 10:45:00  
Traffic Data  
 Total Traffic = 1995 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	66	56.7	74	52.9	101	55.7	32	56.2	36	47.0
Cat 2	115	59.4	155	55.6	151	56.4	51	55.0	36	48.7
Cat 3	15	62.7	41	58.1	27	56.1	9	57.1	4	43.7
Cat 4	11	61.1	17	59.5	9	56.0	3	56.0	0	.0
Cat 5	8	73.0	13	63.7	3	58.5	3	54.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	85	60.7	46	60.6	57	58.6	85	57.8	29	48.0
Cat 2	133	62.5	150	60.8	122	59.8	125	60.2	43	47.6
Cat 3	16	62.1	30	61.0	37	60.4	7	58.9	4	44.1
Cat 4	12	64.0	20	64.1	17	60.4	2	62.6	1	49.5
Cat 5	5	67.8	8	63.0	5	65.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	591	29.6	58.1	1081	54.2	58.8	190	9.5	60.9	92	4.6	64.1	41	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.778+/- 1.816	mph	37	N VA 102'	.289+/- .787	mph
12	N Dasibi CO	1.753+/- .329	ppm	38	S BOT PER	2.863+/- 1.207	mph
13	N TOP PAR	.600+/- 1.350	mph	39	N VA 74'	.282+/- .869	mph
14	N Dasibi O3	.015+/- .002	ppm	40	S BOT PAR	.094+/- 1.248	mph
15	N TOP VER	.071+/- .807	mph	41	N GND PER	2.181+/- 1.335	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.355+/- .788	mph
17	N BOT PER	3.526+/- 1.793	mph	43	N GND PAR	-1.405+/- 1.501	mph
18	N BOT PAR	.219+/- 1.234	mph	45	N GND VER	.197+/- .773	mph
20	N NO2/TECO	*****+/-*****	ppm	48	N Ecolyzer-1	2.818+/- .325	ppm
21	N BOT VER	.197+/- .805	mph	50	S TOP PER	3.688+/- 1.637	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N VA 102'	5.694+/- 1.472	mph	52	S TOP PAR	.684+/- 1.284	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	180.285+/- 16.251	DEGR AZ	54	S TOP VER	.354+/- .885	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.671+/- .287	ppm
27	N Gnd Temp	72.451+/- 2.044	DEGR F	56	S GND PER	1.323+/- 1.072	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.068+/- .705	ppm
29	N WV 74'	181.084+/- 16.160	DEGR AZ	58	S GND PAR	-.022+/- .860	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	81.729+/- .715	%
31	N 74' Temp	69.090+/- 2.506	DEGR F	60	S GND VER	.161+/- .449	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	226.036+/- 74.259	W/m**2
35	N HA 74'	5.589+/- 2.048	mph	64	S VA 55'	.562+/- .891	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.09+/- 1.73	187.9+/- 18.8	3.1+/- 14.3
02	17 19 21	3.89+/- 1.87	183.3+/- 25.0	5.2+/- 18.4
03	38 40 42	3.28+/- 1.32	184.7+/- 16.6	8.4+/- 16.9
04	41 43 45	3.07+/- 1.39	147.7+/- 30.0	4.5+/- 18.6
05	50 52 54	4.10+/- 1.54	191.1+/- 19.2	8.8+/- 18.6
06	56 58 60	1.60+/- 1.15	190.0+/- 27.3	13.5+/- 26.7

Average for 15 minute period ending at 11:00:00  
Traffic Data  
 Total Traffic = 1631 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	39	58.0	51	53.4	84	55.9	30	56.8	20	46.3
Cat 2	78	59.4	128	56.3	112	57.1	37	56.0	29	47.2
Cat 3	19	61.3	32	59.6	16	57.3	7	59.6	2	47.2
Cat 4	10	66.0	19	62.9	8	56.2	2	61.5	2	48.0
Cat 5	7	68.0	8	63.3	3	61.2	1	58.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	68	60.4	56	58.3	44	59.4	39	57.7	22	46.8
Cat 2	143	62.0	133	61.1	123	60.2	96	59.3	39	48.3
Cat 3	15	62.8	19	59.3	32	60.7	3	61.9	1	44.7
Cat 4	9	62.1	18	61.3	7	62.1	2	61.2	1	49.1
Cat 5	3	68.3	6	65.8	8	65.1	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	453	27.8	58.4	918	56.3	59.9	146	9.0	61.8	78	4.8	64.8	38	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.560+/- 2.027	mph	37	N VA 102'	.079+/- .935	mph
12	N Dasibi CO	1.693+/- .301	ppm	38	S BOT PER	3.489+/- 1.532	mph
13	N TOP PAR	-.749+/- 1.880	mph	39	N VA 74'	.114+/- 1.075	mph
14	N Dasibi O3	.017+/- .002	ppm	40	S BOT PAR	-.622+/- 2.295	mph
15	N TOP VER	.047+/- 1.095	mph	41	N GND PER	2.567+/- 1.381	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.294+/- .866	mph
17	N BOT PER	4.581+/- 2.104	mph	43	N GND PAR	-1.838+/- 1.935	mph
19	N BOT PAR	-.968+/- 1.784	mph	45	N GND VER	.227+/- .682	mph

11:01:03 -- TURNING ON NOX SPAN READINGS  
 11:07:33 -- JUST BEGAN SF6 SAMPLING  
 11:07:57 -- STOP READING NOX SPANS  
 11:11:14 -- WILL TURN RADAR #7 BACK UP SLIGHTLY--TURNED DOWN 1 AND 7 ABOUT AN HOUR AGO.  
 11:11:24 -- TURNING NOX ANALYZER ONLINE

Average for 15 minute period ending at 11:15:00  
 Traffic Data  
 Total Traffic = 1976 Vehicles averaging 58.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	58.3	80	55.3	105	56.5	32	56.0	29	48.1
Cat2	92	60.4	167	57.0	140	57.7	32	55.0	37	49.0
Cat3	26	63.3	46	60.4	22	57.0	8	59.1	4	51.9
Cat4	12	62.9	21	63.9	13	56.9	0	.0	2	47.6
Cat5	6	69.2	4	63.0	4	51.5	1	62.5	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	61.9	65	58.8	57	59.0	60	58.2	26	45.5
Cat2	151	63.3	151	61.1	134	60.3	93	61.5	45	45.8
Cat3	19	64.2	28	61.1	35	61.4	7	63.1	3	46.2
Cat4	7	65.4	17	62.5	23	59.4	1	60.7	0	.0
Cat5	1	62.2	9	64.3	6	63.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.0	609	30.8	58.9	1042	52.7	60.7	198	10.0	61.3	96	4.9	63.1	31	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.168+/-	1.547	37	N VA 102'	.258+/-	.829
12	N Dasibi CO	1.717+/-	.303	38	S BOT PER	2.735+/-	1.587
13	N TOP PAR	1.836+/-	1.514	39	N VA 74'	.167+/-	.808
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	1.096+/-	1.350
15	N TOP VER	.122+/-	.727	41	N GND PER	1.891+/-	1.233
16	N NOX/TECO	*****+/-*****		42	S BOT VER	.349+/-	.686
17	N BOT PER	3.319+/-	1.518	43	N GND PAR	.185+/-	1.684
19	N BOT PAR	1.389+/-	1.585	45	N GND VER	.090+/-	.884
20	N ND2/TECO	*****+/-*****		49	N Ecolyzer-1	2.691+/-	.532
21	N BOT VER	.136+/-	.706	50	S TOP PER	3.260+/-	1.733
22	N NO/TECO	*****+/-*****		51	N Ecolyzer-2	2.615+/-	.382
23	N HA 102'	5.982+/-	1.445	52	S TOP PAR	2.028+/-	1.356
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	2.748+/-	.648
25	N WV 102'	197.231+/-	16.773	54	S TOP VER	.293+/-	.712
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.681+/-	.576
27	N Gnd Temp	73.389+/-	2.625	56	S GND PER	1.316+/-	1.041
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	2.147+/-	.934
29	N WV 74'	195.577+/-	17.725	58	S GND PAR	.736+/-	.962
30	N CO/Byron	*****+/-*****		59	N Rel Hum	79.026+/-	.367
31	N 74' Temp	71.200+/-	2.067	60	S GND VER	.189+/-	.427
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	266.047+/-	33.693
35	N HA 74'	5.402+/-	1.898	64	S VA 55'	.280+/-	.861

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.86+/- 1.51	204.7+/- 17.9	2.9+/- 10.6
02	17 19 21	3.96+/- 1.62	200.8+/- 22.7	3.6+/- 15.7
03	38 40 42	3.39+/- 1.46	203.3+/- 26.1	8.9+/- 14.4
04	41 43 45	2.70+/- 1.20	184.3+/- 39.4	2.9+/- 23.3
05	50 52 54	4.26+/- 1.42	214.9+/- 22.4	6.5+/- 13.1
06	56 58 60	1.85+/- 1.03	213.6+/- 30.9	9.5+/- 18.4

Average for 15 minute period ending at 11:30:00  
 Traffic Data  
 Total Traffic = 2113 Vehicles averaging 58.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	57.5	64	55.5	102	55.9	45	56.5	31	46.8
Cat2	106	60.7	184	56.1	156	56.0	80	58.0	37	48.2
Cat3	18	61.8	49	58.5	23	54.8	9	56.0	4	48.0
Cat4	14	64.1	15	59.0	13	56.2	6	50.7	2	43.3
Cat5	9	69.0	8	67.1	3	55.4	1	65.7	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	61.8	61	59.1	62	59.5	71	57.8	30	43.0
Cat2	143	63.5	144	60.0	140	60.8	121	59.0	60	45.4
Cat3	18	64.3	33	62.3	27	60.2	12	56.5	1	43.5
Cat4	7	64.2	23	62.4	18	61.1	3	54.6	0	.0
Cat5	4	65.7	2	63.6	9	66.1	1	59.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
Total	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.5	610	28.9	58.3	1171	55.4	59.3	194	9.2	58.9	101	4.8	65.8	37	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.103+/-	1.921	37	N VA 102'	.187+/-	.715
12	N Dasibi CO	1.771+/-	.395	38	S BOT PER	2.581+/-	1.145
13	N TOP PAR	1.692+/-	1.327	39	N VA 74'	.107+/-	.754
14	N Dasibi O3	.015+/-	.002	40	S BOT PAR	1.032+/-	1.207
15	N TOP VER	.299+/-	.960	41	N GND PER	1.701+/-	1.369
16	N NOX/TECO	.208+/-	.064	42	S BOT VER	.318+/-	.561
17	N BOT PER	2.605+/-	1.872	43	N GND PAR	-.099+/-	1.426
19	N BOT PAR	1.312+/-	1.308	45	N GND VER	.123+/-	.914
20	N ND2/TECO	.031+/-	.007	49	N Ecolyzer-1	2.584+/-	.567
21	N BOT VER	.286+/-	.894	50	S TOP PER	3.012+/-	1.847
22	N NO/TECO	.177+/-	.059	51	N Ecolyzer-2	2.580+/-	.402
23	N HA 102'	4.972+/-	1.601	52	S TOP PAR	1.966+/-	1.035
24	N THC/Byron	*****+/-*****		53	N Ecolyzer-3	2.654+/-	.717
25	N WV 102'	200.641+/-	18.249	54	S TOP VER	.370+/-	.645
26	N NMHC/Byro	*****+/-*****		55	N Ecolyzer-4	2.613+/-	.640
27	N Gnd Temp	74.301+/-	2.283	56	S GND PER	1.151+/-	.970
28	N CH4/Byron	*****+/-*****		57	N Ecolyzer-5	2.193+/-	.871
29	N WV 74'	198.299+/-	19.177	58	S GND PAR	.591+/-	.871
30	N CO/Byron	*****+/-*****		59	N Rel Hum	78.326+/-	.344
31	N 74' Temp	70.627+/-	2.640	60	S GND VER	.221+/-	.494
32	N CO2/Byron	*****+/-*****		61	N Solar Rad	296.567+/-	124.029
35	N HA 74'	4.338+/-	1.893	64	S VA 55'	.468+/-	.811

20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.237+/- .954	mph	50	S TOP PER	4.288+/- 1.749	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	6.331+/- 1.614	mph	52	S TOP PAR	-.247+/- 1.866	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.708+/- .589	ppm
25	N WV 102'	168.449+/- 15.978	DEGR AZ	54	S TOP VER	-.401+/- .392	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.694+/- .498	ppm
27	N Gnd Temp	73.692+/- 2.282	DEGR F	56	S GND PER	1.913+/- 1.442	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.217+/- .865	ppm
29	N WV 74'	166.004+/- 17.146	DEGR AZ	58	S GND PAR	-.435+/- 1.781	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	79.318+/- 4.26	%
31	N 74' Temp	70.388+/- 1.662	DEGR F	60	S GND VER	-.203+/- .581	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	276.460+/- 68.106	W/m**2
35	N HA 74'	6.470+/- 2.000	mph	64	S VA 55'	.587+/- .878	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.04+/-	1.94	171.3+/-	19.7	2.5+/- 11.5
02	17 19 21	5.19+/-	1.88	165.3+/-	24.0	4.1+/- 12.8
03	38 40 42	4.16+/-	1.92	176.2+/-	24.9	7.1+/- 15.5
04	41 43 45	3.77+/-	1.38	145.4+/-	29.1	3.9+/- 13.7
05	50 52 54	4.83+/-	1.67	177.1+/-	23.0	7.8+/- 15.6
06	56 58 60	2.58+/-	1.68	178.9+/-	36.6	8.5+/- 25.7

Average for hourly period ending at 11:00:00  
 Traffic Data  
 Total Traffic : 7587 vehicles averaging 57.8 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	212	56.9	227	52.9	380	56.1	131	56.2	111	47.2
Cat 2	390	59.2	603	55.7	598	56.9	182	55.3	138	47.9
Cat 3	69	61.7	159	59.2	70	58.5	29	56.9	20	44.7
Cat 4	43	63.3	72	61.5	38	58.6	17	57.2	5	44.7
Cat 5	23	69.9	42	63.8	8	58.8	5	52.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat 1	331	60.5	210	60.7	213	59.9	222	57.8	98	48.1
Cat 2	554	62.2	605	60.5	526	59.2	444	59.7	194	46.7
Cat 3	64	62.0	115	60.7	116	59.9	26	59.2	8	45.5
Cat 4	57	62.7	79	61.8	72	61.2	8	59.1	2	48.3
Cat 5	9	67.4	33	63.5	30	62.4	1	xxxx	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	2135	28.1	57.9	4234	55.8	59.1	676	8.9	60.9	391	5.2	64.2	151	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.081+/- 2.029	mph	37	N VA 102'	.248+/- .959	mph
12	N Dasibi CO	1.776+/- .328	ppm	38	S BDT VER	3.343+/- 1.418	mph
13	N TOP PAR	.001+/- 1.604	mph	39	N VA 74'	.188+/- .938	mph
14	N Dasibi B3	.015+/- .002	ppm	40	S BDT PAR	-.244+/- 1.678	mph
15	N TOP VER	.115+/- .940	mph	41	N GND PER	2.290+/- 1.348	mph
16	N ND/TECO	*****+/-*****	ppm	42	S BDT VER	-.369+/- .904	mph
17	N BDT PER	3.897+/- 1.996	mph	43	N GND PAR	-1.612+/- 1.768	mph
18	N BDT PAR	-.304+/- 1.504	mph	45	N GND VER	-.184+/- .753	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	2.859+/- .485	ppm
21	N BDT VER	.208+/- .826	mph	50	S TOP PER	3.920+/- 1.852	ppm
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	2.881+/- .453	ppm
23	N HA 102'	5.879+/- 1.645	mph	52	S TOP PAR	-.230+/- 1.575	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.653+/- .605	ppm
25	N WV 102'	175.267+/- 16.145	DEGR AZ	54	S TOP VER	.368+/- .944	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.779+/- .479	ppm
27	N Gnd Temp	72.185+/- 2.495	DEGR F	56	S GND PER	1.672+/- 1.262	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.130+/- .900	ppm
29	N WV 74'	172.807+/- 17.072	DEGR AZ	58	S GND PAR	-.220+/- 1.295	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	81.731+/- 4.422	%
31	N 74' Temp	69.205+/- 2.604	DEGR F	60	S GND VER	-.203+/- .525	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	233.836+/- 78.499	W/m**2
35	N HA 74'	5.894+/- 2.085	mph	64	S VA 55'	.559+/- .899	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.44+/-	1.96	180.7+/-	19.2	3.2+/- 13.7
02	17 19 21	4.33+/-	1.87	174.8+/-	25.7	5.0+/- 15.9
03	38 40 42	3.80+/-	1.60	179.4+/-	20.8	8.4+/- 17.2
04	41 43 45	3.38+/-	1.41	146.6+/-	32.1	3.9+/- 16.4
05	50 52 54	4.39+/-	1.74	184.3+/-	23.0	9.5+/- 19.4
06	56 58 60	2.13+/-	1.38	182.7+/-	32.3	12.1+/- 26.4

26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.874+/-	.536	ppm
27	N Gnd Temp	78.600+/- 2.175	DEGR F	56	S GND PER	.799+/-	.880	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.477+/-	.966	ppm
29	N WV 74'	197.997+/- 21.763	DEGR AZ	58	S GND PAR	.188+/-	.619	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	71.324+/-	.914	%
31	N 74' Temp	73.128+/- 2.727	DEGR F	60	S GND VER	.188+/-	.427	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	349.794+/-	190.463	W/m**2
35	N HA 74'	4.621+/- 1.722	mph	64	S VA 55'	.476+/-	.921	mph

UWV Vector Calculations							
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	4.29+/- 1.41	203.8+/- 25.2	4.2+/- 18.1			
02	17 19 21	3.66+/- 1.53	201.6+/- 29.4	5.4+/- 21.7			
03	38 40 42	2.60+/- 1.18	195.7+/- 29.9	15.9+/- 21.6			
04	41 43 45	2.76+/- 1.41	175.1+/- 42.3	4.6+/- 21.2			
05	50 52 54	2.94+/- 1.49	209.5+/- 30.6	16.9+/- 24.4			
06	56 58 60	1.12+/- .89	205.8+/- 28.4	19.1+/- 31.6			

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8258 Vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	263	57.4	277	54.2	407	56.5	182	56.2	115	47.1
Cat2	383	60.3	664	56.8	606	57.7	256	57.5	147	47.1
Cat3	83	62.2	171	59.6	93	56.2	39	57.1	18	46.3
Cat4	52	64.2	70	62.3	49	56.6	22	55.5	9	44.4
Cat5	33	67.8	36	64.6	7	53.2	9	61.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	317	61.6	255	58.8	234	59.5	245	58.2	120	45.0
Cat2	625	63.0	629	60.8	562	60.3	421	59.9	231	45.9
Cat3	75	63.3	123	61.5	119	61.1	27	59.5	6	44.6
Cat4	37	64.7	74	62.3	87	60.7	11	56.3	3	48.0
Cat5	10	65.7	28	63.4	27	64.3	1	59.5	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	2415	29.2	58.5	4524	54.8	58.8	754	9.1	60.7	414	5.0	64.3	151	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.707+/- 1.826	mph	37	N VA 102'	.251+/- .922	mph
12	N Dasibi CO	1.760+/- .381	ppm	38	S BOT PER	2.584+/- 1.509	mph
13	N TOP PAR	1.120+/- 2.035	mph	39	N VA 74'	.123+/- .884	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	.393+/- 1.636	mph
15	N TOP VER	.183+/- .931	mph	41	N GND PER	1.870+/- 1.389	mph
16	N NOX/TECO	.200+/- .057	ppm	42	S BOT VER	.375+/- .647	mph
17	N BOT PER	2.981+/- 1.834	mph	43	N GND PAR	-.694+/- 2.128	mph
19	N BOT PAR	.701+/- 1.882	mph	45	N GND VER	.129+/- .844	mph
20	N NO2/TECO	.031+/- .007	ppm	49	N Ecolyzer-1	2.728+/- .565	ppm
21	N BOT VER	.217+/- .874	mph	50	S TOP PER	2.933+/- 1.847	mph
22	N NO/TECO	.168+/- .053	ppm	51	N Ecolyzer-2	2.668+/- .390	ppm
23	N HA 102'	5.537+/- 1.630	mph	52	S TOP PAR	1.054+/- 1.793	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.796+/- .688	ppm
25	N WV 102'	191.862+/- 23.898	DEGR AZ	54	S TOP VER	.348+/- .704	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.785+/- .607	ppm
27	N Gnd Temp	75.551+/- 3.028	DEGR F	56	S GND PER	1.176+/- 1.070	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.295+/- .947	ppm
29	N WV 74'	189.245+/- 24.954	DEGR AZ	58	S GND PAR	271+/- 1.008	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel HUM	76.213+/- 4.017	%
31	N 74' Temp	71.584+/- 2.625	DEGR F	60	S GND VER	.211+/- .409	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	320.626+/- 138.592	W/m**2
35	N HA 74'	5.037+/- 1.980	mph	64	S VA 55'	.435+/- .943	mph

UWV Vector Calculations							
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11 13 15	4.51+/- 1.74	197.3+/- 28.2	5.2+/- 18.0			
02	17 19 21	3.80+/- 1.77	192.7+/- 33.7	7.4+/- 21.3			
03	38 40 42	3.17+/- 1.52	191.8+/- 29.1	11.1+/- 17.9			
04	41 43 45	2.95+/- 1.57	186.7+/- 42.3	4.2+/- 21.3			
05	50 52 54	3.76+/- 1.69	204.0+/- 31.9	11.0+/- 19.8			
06	56 58 60	1.60+/- 1.13	201.6+/- 32.6	14.7+/- 25.4			



UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	3.97+/- 1.78	209.6+/- 24.8	10.3+/- 25.1			
02	17	19	21	3.41+/- 1.72	206.8+/- 32.5	13.2+/- 26.5			
03	38	40	42	3.06+/- 1.25	199.9+/- 20.4	8.2+/- 16.4			
04	41	43	45	2.44+/- 1.30	178.2+/- 42.5	4.6+/- 23.8			
05	50	52	54	3.90+/- 1.66	218.2+/- 21.4	9.9+/- 18.0			
06	56	58	60	1.55+/- 1.06	210.3+/- 28.4	14.2+/- 22.8			

Average for 15 minute period ending at 11:45:00  
 Traffic Data  
 Total Traffic = 2020 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	57.4	68	53.5	89	56.9	47	56.5	24	48.1
Cat2	88	60.1	157	56.8	149	57.3	76	57.0	35	45.1
Cat3	19	63.1	30	59.5	23	57.2	10	57.6	5	43.6
Cat4	8	62.5	16	59.7	14	55.3	9	58.8	1	41.0
Cat5	13	67.4	14	62.2	0	0	3	57.0	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	86	62.4	75	59.3	50	55.2	55	58.8	30	45.0
Cat2	157	63.1	146	61.5	140	60.1	107	59.9	67	45.8
Cat3	19	62.8	26	61.5	25	60.5	4	59.9	1	33.6
Cat4	8	65.2	16	62.1	22	61.5	4	61.4	3	48.0
Cat5	2	71.3	9	61.9	7	55.9	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	589	29.2	58.3	1122	55.5	59.7	162	8.0	60.0	99	4.9	63.3	48	2.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.142+/- 2.035	mph	37	N VA 102'	.384+/- 1.137	mph
12	N Dasibi CO	1.795+/- .368	ppm	38	S BOT PER	2.965+/- 1.753	mph
13	N TOP PAR	-.724+/- 2.351	mph	39	N VA 74'	-.095+/- 1.008	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	-1.043+/- 1.799	mph
15	N TOP VER	.160+/- .862	mph	41	N GND PER	2.069+/- 1.541	mph
16	N NOX/TECO	.199+/- .054	ppm	42	S BOT VER	-.372+/- .653	mph
17	N BOT PER	3.205+/- 2.158	mph	43	N GND PAR	-2.550+/- 2.231	mph
18	N BOT PAR	-1.000+/- 2.219	mph	44	N GND VER	-.196+/- .734	ppm
19	N NO2/TECO	.031+/- .007	ppm	45	N Ecolyzer-1	2.932+/- .586	ppm
20	N BOT VER	-.291+/- .855	mph	46	S TOP PER	3.275+/- 2.032	ppm
21	N NO/TECO	.187+/- .050	ppm	47	N Ecolyzer-2	2.788+/- 1.400	ppm
22	N HA 102'	5.953+/- 1.732	ppm	48	S TOP PAR	-.799+/- 1.633	ppm
23	N THC/Byron	*****	ppm	49	N Ecolyzer-3	2.954+/- .696	ppm
24	N WV 102'	189.170+/- 24.482	DEGR AZ	50	S TOP VER	-.311+/- .792	mph
25	N NMHC/Byro	*****	ppm	51	N Ecolyzer-4	3.010+/- .581	ppm
26	N Gnd Temp	75.916+/- 2.240	DEGR F	52	N GND PER	1.439+/- 1.250	ppm
27	N CH4/Byron	*****	ppm	53	N Ecolyzer-5	2.364+/- 1.001	ppm
28	N WV 74'	163.281+/- 25.007	DEGR AZ	54	N GND PAR	-.430+/- 1.097	ppm
29	N CD/Byron	*****	ppm	55	N Re1 Hum	76.177+/- 5.213	%
30	N 74' Temp	71.383+/- 2.571	DEGR F	56	N GND VER	-.244+/- .429	ppm
31	N CD2/Byron	*****	ppm	57	N Solar Rad	370.085+/- 144.266	W/m^2
32	N HA 74'	5.790+/- 2.056	mph	58	S VA 55'	.537+/- 1.131	mph
35				59			

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	4.92+/- 2.02	168.6+/- 28.2	3.4+/- 13.8			
02	17	19	21	4.16+/- 2.07	158.2+/- 33.0	7.3+/- 19.0			
03	38	40	42	3.64+/- 1.88	167.0+/- 27.8	10.5+/- 17.8			
04	41	43	45	3.89+/- 1.89	132.8+/- 33.5	4.6+/- 16.1			
05	50	52	54	3.92+/- 1.86	188.4+/- 31.9	10.9+/- 20.7			
06	56	58	60	1.86+/- 1.35	175.0+/- 32.5	15.8+/- 26.2			

Average for 15 minute period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 2149 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	65	56.4	65	54.2	111	56.8	58	55.9	31	47.2
Cat2	97	59.8	156	57.2	161	57.9	68	58.7	38	46.0
Cat3	20	60.2	46	60.1	25	56.0	12	56.2	5	43.1
Cat4	18	65.9	18	65.5	9	59.0	7	55.2	4	44.2
Cat5	5	64.6	10	66.7	0	0	4	62.7	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	67	60.2	54	57.7	55	60.0	58	57.9	32	45.6
Cat2	174	62.4	188	60.7	148	60.0	100	59.6	59	46.6
Cat3	19	61.8	36	61.1	32	62.1	4	61.8	1	51.5
Cat4	15	64.4	20	62.0	24	60.9	3	49.8	0	0
Cat5	3	63.1	8	64.0	5	68.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	607	28.2	58.6	1189	55.3	59.6	200	9.3	61.7	118	5.5	65.3	35	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.415+/- 1.521	mph	37	N VA 102'	.197+/- .949	mph
12	N Dasibi CO	1.754+/- .443	ppm	38	S BOT PER	2.053+/- 1.339	mph
13	N TOP PAR	1.678+/- 1.575	mph	39	N VA 74'	.121+/- .946	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	-.488+/- 1.113	mph
15	N TOP VER	.149+/- 1.041	mph	41	N GND PER	1.820+/- 1.381	mph
16	N NOX/TECO	.191+/- .053	ppm	42	S BOT VER	-.463+/- .678	mph
17	N BOT PER	2.835+/- 1.848	mph	43	N GND PAR	-.312+/- 1.895	mph
18	N BOT PAR	1.104+/- 1.848	mph	44	N GND VER	-.105+/- .838	ppm
19	N NO2/TECO	.032+/- .007	ppm	45	N Ecolyzer-1	2.703+/- .515	ppm
20	N BOT VER	-.157+/- 1.010	mph	46	S TOP PER	2.166+/- 1.542	ppm
21	N NO/TECO	.158+/- .048	ppm	47	N Ecolyzer-2	2.688+/- .339	ppm
22	N HA 102'	5.233+/- 1.492	ppm	48	S TOP PAR	1.021+/- 1.446	ppm
23	N THC/Byron	*****	ppm	49	N Ecolyzer-3	2.827+/- .657	ppm
24	N WV 102'	199.035+/- 22.701	DEGR AZ	50	S TOP VER	-.419+/- .657	ppm
25				51			

26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	2.874+/-	.536	ppm
27	N Gnd Temp	78.600+/- 2.175	DEGR F	56	S GND PER	.799+/-	.880	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	2.477+/-	.966	ppm
29	N WV 74'	197.997+/- 21.763	DEGR AZ	58	S GND PAR	.188+/-	.619	mph
30	N CD/Byron	*****-/*****	ppm	59	N Re1 Hum	71.324+/-	.914	%
31	N 74' Temp	73.128+/- 2.727	DEGR F	60	S GND VER	.188+/-	.427	mph
32	N CD2/Byron	*****-/*****	ppm	61	N Solar Rad	349.794+/-	190.463	W/m**2
35	N HA 74'	4.621+/- 1.722	mph	64	S VA 55'	.476+/-	.921	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.29+/-	1.41	203.8+/-	25.2	4.2+/- 18.1
02	17 19 21	3.65+/-	1.53	201.6+/-	29.4	5.4+/- 21.7
03	38 40 42	2.60+/-	1.18	195.7+/-	29.9	15.9+/- 21.6
04	41 43 45	2.75+/-	1.41	175.1+/-	42.3	4.8+/- 21.2
05	50 52 54	2.94+/-	1.48	209.5+/-	30.6	16.8+/- 24.4
06	56 58 60	1.12+/-	.88	205.6+/-	28.4	19.1+/- 31.6

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8258 vehicles averaging 58.3 mph

Westbound Traffic

Radar 1		Radar 3		Radar 5		Radar 7		Radar 8	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	263 57.4	277 54.2	407 56.5	182 56.2	115 47.1				
Cat2	383 80.3	664 56.8	606 57.7	256 57.5	147 47.1				
Cat3	83 62.2	171 59.6	93 56.2	39 57.1	18 46.3				
Cat4	52 64.2	70 62.3	49 56.6	22 55.5	9 44.4				
Cat5	33 67.8	36 64.6	7 53.2	9 61.1	0 .0				

Eastbound Traffic

Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
Cat	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	No. Spd.	
Cat1	317 61.6	255 58.8	234 59.5	245 58.2	120 45.0				
Cat2	625 83.0	629 80.8	562 80.3	421 59.9	231 45.9				
Cat3	75 63.3	123 61.5	119 61.1	27 58.5	6 44.6				
Cat4	37 64.7	74 62.3	87 60.7	11 56.3	3 48.0				
Cat5	10 65.7	28 63.4	27 64.3	1 59.5	0 .0				

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.7	2415	29.2	58.5	4524	54.8	59.8	754	9.1	60.7	414	5.0	64.3	151	1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.707+/- 1.826	mph	37	N VA 102'	.251+/- .922	mph
12	N Desib1 CD	1.760+/- .381	ppm	38	S BDT PER	2.584+/- 1.509	mph
13	N TDP PAR	1.120+/- 2.035	ppm	39	N VA 74'	.123+/- .884	mph
14	N Desib1 D3	.016+/- .002	ppm	40	S BDT PAR	.393+/- 1.636	mph
15	N TOP VER	.183+/- .931	mph	41	N GND PER	1.870+/- 1.389	mph
16	N ND1/TECD	.200+/- .057	ppm	42	S BDT VER	.375+/- .647	mph
17	N BDT PER	2.991+/- 1.834	ppm	43	N GND PAR	.694+/- 2.128	mph
19	N BDT PAR	.701+/- 1.982	ppm	45	N GND VER	.129+/- .844	ppm
20	N ND2/TECD	.031+/- .007	ppm	48	N Ecolyzer-1	2.728+/- .565	ppm
21	N BDT VER	.217+/- .874	mph	50	S TDP PER	2.933+/- 1.847	mph
22	N ND/TECD	.168+/- .053	ppm	51	N Ecolyzer-2	2.668+/- .390	ppm
23	N HA 102'	5.537+/- 1.630	mph	52	S TOP PAR	1.054+/- 1.783	mph
24	N THC/Byron	*****-/*****	ppm	53	N Ecolyzer-3	2.796+/- .688	ppm
25	N WV 102'	191.862+/- 23.896	DEGR AZ	54	S TOP VER	.348+/- .704	mph
26	N NMHC/Byro	*****-/*****	ppm	55	N Ecolyzer-4	2.795+/- .807	ppm
27	N Gnd Temp	75.551+/- 3.028	DEGR F	56	S GND PER	1.176+/- 1.070	mph
28	N CH4/Byron	*****-/*****	ppm	57	N Ecolyzer-5	2.295+/- .947	ppm
29	N WV 74'	189.245+/- 24.954	DEGR AZ	58	S GND PAR	.271+/- 1.009	mph
30	N CD/Byron	*****-/*****	ppm	59	N Re1 Hum	76.213+/- 4.017	%
31	N 74' Temp	71.584+/- 2.625	DEGR F	60	S GND VER	.211+/- .409	mph
32	N CD2/Byron	*****-/*****	ppm	61	N Solar Rad	320.626+/- 138.592	W/m**2
35	N HA 74'	5.037+/- 1.980	mph	64	S VA 55'	.435+/- .943	mph

UWV Vector Calculations						
UWV	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.51+/-	1.74	197.3+/-	28.2	5.2+/- 18.0
02	17 19 21	3.80+/-	1.77	192.7+/-	33.7	7.4+/- 21.3
03	38 40 42	3.17+/-	1.52	191.8+/-	29.1	11.1+/- 17.9
04	41 43 45	2.85+/-	1.57	166.7+/-	42.3	4.2+/- 21.3
05	50 52 54	3.78+/-	1.69	204.0+/-	31.8	11.0+/- 19.8
06	56 58 60	1.80+/-	1.13	201.6+/-	32.6	14.7+/- 25.4

26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.874+/-	.536	ppm
27	N Gnd Temp	78.800+/- 2.175	DEGR F	58	S GND PER	.799+/-	.880	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.477+/-	.966	ppm
29	N WV 74'	197.997+/- 21.763	DEGR AZ	58	S GND PAR	.188+/-	.619	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	71.324+/-	.914	%
31	N 74' Temp	73.128+/- 2.727	DEGR F	60	S GND VER	.188+/-	.427	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	349.794+/-	190.463	W/m**2
35	N HA 74'	4.621+/- 1.722	mph	64	S VA 55'	.476+/-	.921	mph

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.29+/-	1.41	203.8+/-	25.2	4.2+/-	18.1
02	17 19 21	3.66+/-	1.53	201.6+/-	28.4	5.4+/-	21.7
03	38 40 42	2.60+/-	1.18	195.7+/-	29.9	15.9+/-	21.6
04	41 43 45	2.76+/-	1.41	175.1+/-	42.3	4.6+/-	21.2
05	50 52 54	2.94+/-	1.49	209.5+/-	30.6	16.9+/-	24.4
06	56 58 60	1.12+/-	.89	205.6+/-	28.4	19.1+/-	31.6

Average for hourly period ending at 12:00:00  
 Traffic Data  
 Total Traffic = 8258 vehicles averaging 58.3 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	263	57.4	277	54.2	407	56.5	182	56.2	115	47.1
Cat2	383	60.3	664	56.8	608	57.7	256	57.5	147	47.1
Cat3	83	62.2	171	59.6	93	56.2	39	57.1	18	46.3
Cat4	52	64.2	70	62.3	49	56.6	22	55.5	9	44.4
Cat5	33	67.8	36	64.6	7	53.2	9	61.1	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	317	61.6	255	58.8	234	59.5	285	58.2	120	45.0
Cat2	625	63.0	629	60.8	562	60.3	421	59.9	231	45.8
Cat3	75	63.3	123	61.5	119	61.1	27	59.5	6	44.6
Cat4	37	64.7	74	62.3	87	60.7	11	56.3	3	48.0
Cat5	10	65.7	28	63.4	27	64.3	1	59.5	0	.0

Vehicle Classification Summary

CAT 1		CAT 2		CAT 3		CAT 4		CAT 5	
Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total	Spd.	Total
56.7	2415	58.6	4526	59.8	754	60.7	414	64.3	151
	29.2		54.8		9.1		5.0		1.8

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.707+/- 1.826	mph	37	N VA 102'	.251+/-	.922
12	N Dasibi CO	1.760+/- .381	ppm	38	S BOT PER	2.584+/-	1.509
13	N TOP PAR	1.120+/- 2.035	mph	39	N VA 74'	.123+/-	.886
14	N Dasibi O3	.016+/- .002	ppm	40	S BOT PAR	.393+/-	1.636
15	N TOP VER	.183+/- .931	mph	41	N GND PER	1.870+/-	1.389
16	N NOX/TECO	2.200+/- .057	ppm	42	S BOT VER	.375+/-	.647
17	N BOT PER	2.991+/- 1.834	mph	43	N GND PAR	.684+/-	2.128
18	N BOT PAR	.701+/- 1.982	mph	45	N GND VER	.129+/-	.844
19	N NO2/TECO	.031+/- .007	ppm	48	N Ecolyzer-1	2.728+/-	.585
20	N BOT VER	.217+/- .874	mph	50	S TOP PER	2.933+/-	1.847
21	N NO/TECO	.168+/- .053	ppm	51	N Ecolyzer-2	2.668+/-	.390
22	N HA 102'	5.537+/- 1.630	mph	52	S TOP PAR	1.054+/-	1.793
23	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.796+/-	.688
24	N WV 102'	191.862+/- 23.886	DEGR AZ	54	S TOP VER	.348+/-	.604
25	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.795+/-	.607
26	N Gnd Temp	75.551+/- 3.028	DEGR F	56	S GND PER	1.176+/-	1.070
27	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.295+/-	.947
28	N WV 74'	189.245+/- 24.954	DEGR AZ	58	S GND PAR	.271+/-	1.009
29	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	76.213+/-	4.017
30	N 74' Temp	71.584+/- 2.625	DEGR F	60	S GND VER	.211+/-	.409
31	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	320.526+/-	138.592
32	N HA 74'	5.037+/- 1.980	mph	64	S VA 55'	.435+/-	.943

UVW Vector Calculations							
UVW	Channels	Vector	Sum (mph)	Bearing	Deg AZ	Elevation	Angle (Deg)
01	11 13 15	4.51+/-	1.74	197.3+/-	28.2	5.2+/-	18.0
02	17 19 21	3.80+/-	1.77	192.7+/-	33.7	7.4+/-	21.3
03	38 40 42	3.17+/-	1.52	191.8+/-	29.1	11.1+/-	17.9
04	41 43 45	2.95+/-	1.57	166.7+/-	42.3	4.2+/-	21.3
05	50 52 54	3.78+/-	1.69	204.0+/-	31.8	11.0+/-	19.8
06	56 58 60	1.60+/-	1.13	201.6+/-	32.6	14.7+/-	25.4

12:26:25 -- READ BYRON THC SPAN  
 12:36:28 -- TURNING THC ON BUT W/D RECORDER (NO INK).  
 12:47:16 -- BEGIN RECAL. DF ECDL. GRD  
 12:47:30 -- BEGIN RECAL. NCO-5  
 12:56:36 -- END CAL. NCO-5 GRD

Average for 15 minute period ending at 12:15:00  
 Traffic Data  
 Total Traffic = 2116 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	57.1	69	54.7	136	56.7	68	57.3	24	47.8
Cat2	102	59.3	165	56.6	151	58.2	92	59.5	41	49.0
Cat3	20	61.9	40	58.5	24	58.9	12	56.6	3	42.9
Cat4	18	63.8	26	62.5	3	58.0	7	59.0	0	.0
Cat5	2	66.8	7	64.7	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	94	61.2	53	59.5	57	59.5	55	57.5	28	45.4
Cat2	146	64.0	160	60.8	151	59.9	118	58.5	60	46.1
Cat3	7	66.6	30	61.5	21	59.3	7	56.4	1	37.9
Cat4	8	62.4	16	61.1	19	62.4	5	59.1	0	.0
Cat5	1	60.3	1	65.7	4	63.2	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.0	648	30.6	58.7	1186	56.0	59.3	165	7.8	61.9	102	4.8	64.3	15	.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.942+/-	2.188	37	N VA 102'	.171+/-	.947
12	N Dasibi C0	1.671+/-	.386	38	S BOT PER	3.397+/-	1.433
13	N TOP PAR	.027+/-	1.768	39	N VA 74'	-.085+/-	1.038
14	N Dasibi D3	.019+/-	.003	40	S BOT PAR	-.149+/-	2.116
15	N TOP VER	.077+/-	1.052	41	N GND PER	2.262+/-	1.405
16	N NOX/TECO	.189+/-	.048	42	S BOT VER	.444+/-	.698
17	N BOT PER	4.494+/-	2.466	43	N GND PAR	-1.667+/-	1.885
19	N BOT PAR	-.421+/-	1.664	45	N GND VER	.207+/-	.694
20	N NO2/TECO	.031+/-	.007	49	N Ecolyzer-1	2.769+/-	.605
21	N BOT VER	.223+/-	.872	50	S TOP PER	4.289+/-	1.716
22	N NO/TECO	.157+/-	.043	51	N Ecolyzer-2	2.772+/-	.394
23	N HA 102'	7.008+/-	1.525	52	S TOP PAR	.494+/-	2.160
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	2.789+/-	.738
25	N WV 102'	175.009+/-	16.260	54	S TOP VER	.298+/-	.786
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	2.934+/-	.543
27	N Gnd Temp	77.245+/-	3.693	56	S GND PER	1.558+/-	1.188
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	2.464+/-	1.005
29	N WV 74'	174.056+/-	18.882	58	S GND PAR	.261+/-	1.328
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	70.966+/-	1.724
31	N 74' Temp	73.076+/-	1.930	60	S GND VER	.281+/-	.664
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	406.207+/-	224.591
35	N HA 74'	7.085+/-	2.051	64	S VA 55'	.520+/-	1.009

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.33+/- 2.05	180.8+/- 18.9	2.3+/- 10.9
02	17 19 21	5.01+/- 2.21	176.0+/- 29.1	5.9+/- 15.3
03	38 40 42	4.04+/- 1.55	179.4+/- 27.5	8.4+/- 13.2
04	41 43 45	3.38+/- 1.55	149.1+/- 34.6	4.6+/- 16.7
05	50 52 54	4.85+/- 1.85	185.2+/- 23.8	5.7+/- 12.2
06	56 58 60	2.14+/- 1.27	193.8+/- 34.3	14.5+/- 27.0

Average for 15 minute period ending at 12:30:00  
 Traffic Data  
 Total Traffic = 2028 vehicles averaging 58.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	57.5	74	55.6	104	57.7	65	57.6	29	47.5
Cat2	79	59.1	144	57.0	126	59.1	82	58.7	29	48.8
Cat3	8	61.5	30	62.3	23	56.7	8	58.1	4	49.7
Cat4	6	65.5	23	60.9	12	56.3	7	59.3	1	46.2
Cat5	3	65.4	3	64.7	0	.0	0	.0	0	.0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	97	61.6	60	59.4	59	59.6	58	56.5	29	45.5
Cat2	144	62.6	175	60.2	124	60.3	122	59.0	60	46.6
Cat3	17	63.2	32	62.2	36	59.5	5	62.4	4	46.3
Cat4	8	66.6	21	62.1	24	59.8	1	54.8	0	.0
Cat5	2	62.9	8	62.8	7	63.4	1	61.4	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
57.2	648	32.0	58.6	1085	53.5	60.1	167	8.2	60.7	103	5.1	63.5	24	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.854+/-	2.596	37	N VA 102'	.226+/-	1.082
12	N Dasibi C0	1.476+/-	.330	38	S BOT PER	3.898+/-	1.626
13	N TOP PAR	1.294+/-	1.496	39	N VA 74'	-.149+/-	1.049
14	N Dasibi D3	.020+/-	.003	40	S BOT PAR	.477+/-	1.854
15	N TOP VER	-.054+/-	.967	41	N GND PER	2.546+/-	1.626
16	N NOX/TECO	.159+/-	.055	42	S BOT VER	.258+/-	.727
17	N BOT PER	4.796+/-	2.766	43	N GND PAR	-.695+/-	1.850
19	N BOT PAR	.831+/-	1.469	45	N GND VER	.134+/-	.817
20	N NO2/TECO	.029+/-	.008	49	N Ecolyzer-1	2.342+/-	.400
21	N BOT VER	-.009+/-	.894	50	S TOP PER	5.000+/-	2.259
22	N NO/TECO	.129+/-	.049	51	N Ecolyzer-2	2.339+/-	.334
23	N HA 102'	6.523+/-	1.720	52	S TOP PAR	1.444+/-	1.890
24	N THC/Byron	*****+/-	*****	53	N Ecolyzer-3	2.422+/-	.501
25	N WV 102'	186.046+/-	13.934	54	S TOP VER	.285+/-	.758
26	N NMHC/Byro	*****+/-	*****	55	N Ecolyzer-4	2.498+/-	.402
27	N Gnd Temp	78.521+/-	3.440	56	S GND PER	1.990+/-	1.414
28	N CH4/Byron	*****+/-	*****	57	N Ecolyzer-5	2.141+/-	.810
29	N WV 74'	183.644+/-	15.388	58	S GND PAR	.339+/-	1.355
30	N CO/Byron	*****+/-	*****	59	N Rel Hum	67.921+/-	2.061
31	N 74' Temp	73.884+/-	2.592	60	S GND VER	.261+/-	.520
32	N CO2/Byron	*****+/-	*****	61	N Solar Rad	339.667+/-	207.359
35	N HA 74'	6.917+/-	2.325	64	S VA 55'	.477+/-	.923

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	6.28+/-	2.54	192.9+/-	15.5	2.1+/- 13.1
02	17 19 21	5.24+/-	2.62	189.7+/-	24.6	2.8+/- 14.1
03	38 40 42	4.33+/-	1.83	187.2+/-	20.7	5.1+/- 11.3
04	41 43 45	3.32+/-	1.64	166.1+/-	34.8	4.5+/- 18.5
05	50 52 54	5.54+/-	2.38	194.0+/-	18.8	5.3+/- 11.7
06	56 58 60	2.44+/-	1.51	194.9+/-	28.5	11.7+/- 22.8

Average for 15 minute period ending at 12:45:00  
 Traffic Data  
 Total Traffic = 1996 vehicles averaging 58.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	58	55.9	78	55.6	92	57.2	40	57.3	28	46.1
Cat2	88	59.3	148	57.6	163	58.6	72	59.1	28	47.9
Cat3	19	60.4	42	60.0	16	59.1	12	57.7	2	65.2
Cat4	11	65.2	16	61.4	7	58.2	10	61.8	2	47.1
Cat5	9	70.5	8	70.6	3	75.8	7	72.0	1	82.1

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	62.0	30	58.1	61	59.3	55	57.4	30	44.7
Cat2	145	62.2	150	60.8	125	59.8	108	59.0	59	44.9
Cat3	21	62.5	38	61.4	35	59.9	5	55.9	0	.0
Cat4	4	62.0	20	64.0	27	62.6	5	60.3	0	.0
Cat5	4	84.7	15	80.4	8	64.0	2	****	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	551	27.6	58.7	1095	54.9	60.3	191	9.6	62.2	102	5.1	75.1	57	2.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.323+/- 2.178	mph	37	N VA 102'	.216+/- .957	mph
12	N Desibi CD	1.521+/- .295	ppm	38	S BOT PER	2.880+/- 1.328	mph
13	N TOP PAR	.875+/- 1.327	mph	39	N VA 74'	.121+/- 1.079	mph
14	N Desibi D3	.017+/- .004	ppm	40	S BOT PAR	.177+/- 1.300	mph
15	N TOP VER	.124+/- 1.111	mph	41	N GND PER	2.368+/- 1.457	mph
16	N NOX/TECO	.194+/- .054	ppm	42	S BOT VER	.492+/- .673	mph
17	N BOT PER	3.940+/- 2.378	mph	43	N GND PAR	-1.174+/- 1.836	mph
18	N BOT PAR	.481+/- 1.429	mph	44	N GND VER	.080+/- .777	mph
19	N ND2/TECO	.033+/- .006	ppm	45	N EcoLyzer-1	2.415+/- 1.910	ppm
20	N BOT VER	.288+/- 1.067	mph	50	S TOP PER	2.837+/- 1.448	mph
21	N ND/TECO	.160+/- .051	ppm	51	N EcoLyzer-2	2.347+/- 1.602	ppm
22	N VA 102'	6.079+/- 1.571	mph	52	S TOP PAR	1.096+/- 1.228	ppm
23	N THC/Byron	*****+*****	ppm	53	N EcoLyzer-3	2.578+/- 1.749	ppm
24	N WV 102'	189.125+/- 17.290	DEGR AZ	54	S TOP VER	.590+/- .804	mph
25	N NMHC/Byro	*****+*****	ppm	55	N EcoLyzer-4	2.605+/- .455	ppm
26	N Gnd Temp	78.990+/- 2.418	DEGR F	56	S GND PER	1.815+/- 1.301	mph
27	N CH4/Byron	*****+*****	ppm	57	N EcoLyzer-5	2.453+/- 1.217	ppm
28	N WV 74'	185.815+/- 15.024	DEGR AZ	58	S GND PAR	-.128+/- 1.238	mph
29	N CO/Byron	*****+*****	ppm	59	N Rel Hum	69.207+/- 1.001	%
30	N 74' Temp	73.675+/- 2.621	DEGR F	60	S GND VER	.265+/- .510	mph
31	N CO2/Byron	*****+*****	ppm	61	N Solar Rad	445.759+/- 184.694	W/m**2
32	N VA 74'	6.288+/- 2.390	mph	64	S VA 55'	.618+/- .996	mph

UVW Vector Calculations						
UVW	Channels	Vector	Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)	
01	11 13 15	5.72+/-	2.09	191.0+/-	16.3	4.2+/- 15.3
02	17 19 21	4.48+/-	2.14	190.4+/-	28.5	5.4+/- 21.5
03	38 40 42	3.25+/-	1.37	186.8+/-	23.1	10.0+/- 15.3
04	41 43 45	3.32+/-	1.43	151.7+/-	33.1	8.8+/- 16.4
05	50 52 54	3.44+/-	1.42	200.4+/-	22.5	13.9+/- 19.5
06	56 58 60	2.24+/-	1.35	188.2+/-	31.9	11.4+/- 25.2

Average for 15 minute period ending at 13:00:00  
 Traffic Data  
 Total Traffic = 1983 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	56	56.4	64	54.3	98	55.9	62	54.7	31	45.5
Cat2	74	58.7	161	56.2	145	57.5	78	55.9	37	44.1
Cat3	15	59.5	33	59.7	24	53.5	10	53.2	4	47.0
Cat4	17	62.2	21	60.3	4	51.9	6	54.6	1	41.9
Cat5	2	63.4	4	63.0	1	64.5	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	73	62.3	57	59.5	54	58.5	65	57.6	29	46.0
Cat2	140	62.5	162	61.0	139	60.1	112	59.9	40	46.8
Cat3	17	63.7	23	64.2	28	60.4	14	61.4	1	48.7
Cat4	9	64.0	20	63.5	25	61.7	0	.0	0	.0
Cat5	0	.0	14	68.8	3	57.5	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	599	30.2	58.2	1088	54.9	59.3	169	8.5	61.1	103	5.2	65.8	24	1.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.502+/- 1.719	mph	37	N VA 102'	.323+/- .889	mph
12	N Desibi CO	1.502+/- .388	ppm	38	S BOT PER	2.786+/- 1.475	mph
13	N TOP PAR	1.335+/- 1.578	mph	39	N VA 74'	.110+/- 1.047	mph
14	N Desibi D3	.017+/- .003	ppm	40	S BOT PAR	.128+/- 1.551	mph
15	N TOP VER	.162+/- 1.201	mph	41	N GND PER	2.041+/- 1.314	mph
16	N NOX/TECO	.171+/- .049	ppm	42	S BOT VER	.335+/- .636	mph
17	N BOT PER	3.850+/- 1.871	mph	43	N GND PAR	-.423+/- 1.974	mph
18	N BOT PAR	.872+/- 1.520	mph	44	N GND VER	.185+/- .729	mph
19	N ND2/TECO	.032+/- .008	ppm	49	N EcoLyzer-1	2.339+/- .514	ppm
20	N BOT VER	.170+/- 1.058	mph	50	S TOP PER	3.250+/- 1.896	mph
21	N ND/TECO	.138+/- .043	ppm	51	N EcoLyzer-2	2.466+/- .418	ppm
22	N VA 102'	6.245+/- 1.627	mph	52	S TOP PAR	.946+/- 1.545	ppm
23	N THC/Byron	2.172+/- .159	ppm	53	N EcoLyzer-3	2.526+/- .644	ppm
24	N WV 102'	194.326+/- 19.970	DEGR AZ	54	S TOP VER	.432+/- .814	mph

26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	2.591+/-	.557	ppm
27	N Gnd Temp	78.078+/- 1.684	DEGR F	56	S GND PER	1.323+/-	1.096	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****		ppm
29	N WV 74'	191.532+/- 21.263	DEGR AZ	58	S GND PAR	.081+/-	1.097	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	68.376+/-	1.022	%
31	N 74' Temp	75.708+/- 2.781	DEGR F	60	S GND VER	.278+/-	.490	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	266.456+/-	88.747	W/m**2
35	N HA 74'	5.816+/- 1.771	mph	64	S VA 55'	.559+/-	.887	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.17+/- 1.47	197.5+/- 21.8	3.4+/- 15.7		
02	17 19 21	4.27+/- 1.67	195.8+/- 25.8	4.4+/- 19.2		
03	38 40 42	3.28+/- 1.44	186.6+/- 28.8	10.0+/- 17.6		
04	41 43 45	2.99+/- 1.25	171.3+/- 41.0	4.6+/- 16.9		
05	50 52 54	3.96+/- 1.70	199.6+/- 27.8	10.0+/- 18.1		
06	56 58 60	1.77+/- 1.16	193.5+/- 33.1	14.8+/- 28.7		

Average for hourly period ending at 13:00:00  
Traffic Data  
Total Traffic : 8123 vehicles averaging 58.4 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	251	56.8	285	55.1	430	56.9	235	56.7	112	46.7
Cat2	343	59.1	616	56.8	585	58.3	324	58.4	135	47.4
Cat3	62	60.8	145	60.0	87	56.9	42	56.4	13	49.7
Cat4	52	63.8	86	61.3	26	56.3	30	59.1	4	45.6
Cat5	16	68.2	22	66.5	4	73.0	7	72.0	1	82.1

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	343	61.8	200	59.4	241	59.2	233	57.3	117	45.4
Cat2	575	63.1	657	60.7	540	60.0	450	59.3	219	46.0
Cat3	62	63.5	123	62.2	121	59.8	31	59.5	6	45.3
Cat4	29	64.0	77	62.7	95	61.6	11	59.3	0	0
Cat5	7	75.0	38	72.1	22	62.8	3	91.1	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	2447	30.1	58.5	4454	54.8	59.8	692	8.5	61.5	410	5.0	69.6	120	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.405+/- 2.262	mph	37	N VA 102'	.234+/- .966	mph
12	N Dasibi CD	1.542+/- .362	ppm	38	S BOT PER	3.240+/- 1.533	mph
13	N TDP PAR	.908+/- 1.635	mph	39	N VA 74'	.071+/- 1.056	mph
14	N Dasibi O3	.018+/- .003	ppm	40	S BOT PAR	.158+/- 1.743	mph
15	N TDP VER	.077+/- 1.087	mph	41	N GND PER	2.304+/- 1.463	mph
16	N NOX/TECO	.178+/- .053	ppm	42	S BOT VER	.382+/- .689	mph
17	N BOT PER	4.220+/- 2.429	mph	43	N GND PAR	-.990+/- 1.937	mph
19	N BOT PAR	.441+/- 1.607	ppm	45	N GND VER	.152+/- .755	mph
20	N ND2/TECO	.031+/- .008	ppm	48	N Ecolyzer-1	2.466+/- 1.067	ppm
21	N BOT VER	.167+/- .981	mph	50	S TOP PER	3.844+/- 2.036	mph
22	N ND/TECO	.146+/- .048	ppm	51	N Ecolyzer-2	2.481+/- .884	ppm
23	N HA 102'	6.464+/- 1.672	mph	52	S TOP PAR	.995+/- 1.793	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	2.579+/- .679	ppm
25	N WV 102'	186.085+/- 18.255	DEGR AZ	54	S TOP VER	.401+/- .799	mph
26	N NMHC/Byron	*****+/-*****	ppm	55	N Ecolyzer-4	2.657+/- .520	ppm
27	N Gnd Temp	78.209+/- 2.920	DEGR F	56	S GND PER	1.671+/- 1.278	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.285+/- 1.044	ppm
29	N WV 74'	183.748+/- 18.975	DEGR AZ	58	S GND PAR	.138+/- 1.269	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	69.117+/- 1.890	%
31	N 74' Temp	74.088+/- 2.631	DEGR F	60	S GND VER	.273+/- .549	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	364.521+/- 191.981	W/m**2
35	N HA 74'	6.527+/- 2.203	mph	64	S VA 55'	.564+/- .954	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	5.87+/- 2.12	190.6+/- 19.2	3.0+/- 13.9		
02	17 19 21	4.75+/- 2.22	188.1+/- 27.7	4.6+/- 17.8		
03	38 40 42	3.73+/- 1.62	185.1+/- 25.4	8.4+/- 16.6		
04	41 43 45	3.25+/- 1.48	159.1+/- 36.8	3.6+/- 17.2		
05	50 52 54	4.45+/- 2.04	194.8+/- 24.1	8.7+/- 16.1		
06	56 58 60	2.15+/- 1.38	192.6+/- 32.1	13.1+/- 26.0		

13:07:31 -- BEGIN CAL. NCO-4  
 13:21:36 -- END CAL NCO-3  
 13:21:50 -- BEGIN CAL. NCO-2  
 13:36:16 -- END CAL. RUN OF ECOL. GRD

Average for 15 minute period ending at 13:15:00  
 Traffic Data  
 Total Traffic = 1967 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	56.8	68	54.8	113	57.1	66	57.6	27	47.3
Cat2	88	59.8	133	56.3	127	57.9	74	58.7	36	45.3
Cat3	16	62.7	33	60.9	28	57.5	13	58.6	3	45.1
Cat4	11	65.8	22	59.0	3	54.3	6	59.9	0	.0
Cat5	5	63.6	6	65.5	1	58.8	0	.0	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	61.7	54	59.5	56	59.2	68	57.3	26	45.8
Cat2	143	62.9	153	60.6	146	60.6	103	59.6	38	46.4
Cat3	18	63.4	39	60.5	27	62.3	4	56.3	1	48.4
Cat4	8	66.1	19	62.8	26	63.1	3	58.6	0	.0
Cat5	0	.0	6	61.5	8	62.9	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
56.9	620	31.5	58.7	1041	52.9	60.3	182	9.3	62.1	98	5.0	63.2	26	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	6.200+/-	2.892	37	N VA 102'	.242+/-	1.313
12	N Dasibi CO	1.701+/-	.508	38	S BOT PER	3.968+/-	2.010
13	N TOP PAR	.554+/-	2.551	39	N VA 74'	.154+/-	1.227
14	N Dasibi O3	.020+/-	.004	40	S BOT PAR	-.843+/-	2.201
15	N TOP VER	.283+/-	1.200	41	N GND PER	2.671+/-	1.829
16	N NDX/TECO	.185+/-	.054	42	S BOT VER	-.325+/-	.863
17	N BOT PER	4.938+/-	2.544	43	N GND PAR	-.783+/-	2.703
19	N BOT PAR	.311+/-	2.439	45	N GND VER	.090+/-	.906
20	N ND2/TECO	.032+/-	.006	49	N Ecolyzer-1	2.372+/-	.640
21	N BOT VER	.348+/-	.975	50	S TOP PER	4.199+/-	2.528
22	N ND/TECO	.152+/-	.050	51	N Ecolyzer-2	2.386+/-	.481
23	N HA 102'	7.488+/-	2.276	52	S TOP PAR	-.022+/-	1.865
24	N THC/Byron	2.132+/-	.192	53	N Ecolyzer-3	2.942+/-	.695
25	N WV 102'	185.434+/-	24.094	54	S TOP VER	-.497+/-	1.040
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	*****	*****
27	N Gnd Temp	79.095+/-	3.251	56	S GND PER	2.272+/-	1.458
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	1.852+/-	1.071
29	N WV 74'	181.768+/-	23.861	58	S GND PAR	-.714+/-	1.865
30	N CO/Byron	*****	*****	59	N Rel Hum	64.371+/-	1.203
31	N 74' Temp	75.058+/-	1.407	60	S GND VER	-.293+/-	.638
32	N CO2/Byron	*****	*****	61	N Solar Rad	482.909+/-	201.284
35	N HA 74'	7.573+/-	2.568	64	S VA 55'	.889+/-	1.246

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	6.92+/- 2.68	188.9+/- 25.5	4.1+/- 12.4
02	17 19 21	5.70+/- 2.34	187.8+/- 29.4	5.5+/- 13.1
03	38 40 42	4.62+/- 2.19	175.0+/- 26.5	7.1+/- 14.4
04	41 43 45	3.93+/- 1.93	171.5+/- 40.6	3.1+/- 16.1
05	50 52 54	4.83+/- 2.34	183.9+/- 27.0	13.3+/- 22.4
06	56 58 60	3.02+/- 1.62	174.8+/- 36.2	8.9+/- 24.1

Average for 15 minute period ending at 13:30:00  
 Traffic Data  
 Total Traffic = 2116 vehicles averaging 58.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	63	57.5	80	55.4	103	56.2	65	57.3	21	47.6
Cat2	106	59.5	157	57.0	152	57.0	83	60.2	39	46.4
Cat3	18	61.9	38	61.4	21	56.2	8	58.9	2	56.1
Cat4	15	64.4	24	63.1	7	57.0	4	64.6	0	.0
Cat5	3	71.2	8	63.5	1	60.4	3	60.1	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	84	61.6	52	60.9	75	59.3	66	57.9	29	46.0
Cat2	146	63.1	157	60.5	162	61.0	140	58.5	52	47.2
Cat3	7	62.3	27	60.2	32	60.5	10	53.9	4	43.0
Cat4	10	65.0	13	62.0	13	59.5	3	60.4	0	.0
Cat5	2	63.4	7	63.3	3	61.4	1	47.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1	%	Spd.	CAT 2	%	Spd.	CAT 3	%	Spd.	CAT 4	%	Spd.	CAT 5	%
	Total		Total	Total		Total	Total		Total	Total		Total	Total	
57.2	638	30.2	58.6	1194	56.4	59.4	167	7.9	62.3	89	4.2	63.0	28	1.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.135+/-	2.106	37	N VA 102'	.264+/-	.943
12	N Dasibi CO	1.635+/-	.341	38	S BOT PER	2.929+/-	1.433
13	N TOP PAR	2.380+/-	2.107	39	N VA 74'	.138+/-	1.102
14	N Dasibi O3	.018+/-	.003	40	S BOT PAR	1.134+/-	1.561
15	N TOP VER	.033+/-	.999	41	N GND PER	2.087+/-	1.763
16	N NDX/TECO	.178+/-	.057	42	S BOT VER	-.291+/-	.636
17	N BOT PER	3.459+/-	2.000	43	N GND PAR	-.322+/-	2.123
19	N BOT PAR	1.867+/-	1.983	45	N GND VER	.221+/-	.742
20	N ND2/TECO	.031+/-	.008	49	N Ecolyzer-1	2.323+/-	.550
21	N BOT VER	.166+/-	.899	50	S TOP PER	3.490+/-	1.728
22	N ND/TECO	.148+/-	.051	51	N Ecolyzer-2	*****	*****
23	N HA 102'	6.881+/-	2.271	52	S TOP PAR	1.877+/-	1.902
24	N THC/Byron	2.039+/-	.222	53	N Ecolyzer-3	*****	*****
25	N WV 102'	207.021+/-	25.643	54	S TOP VER	.207+/-	.609
26	N NMHC/Byro	*****	*****	55	N Ecolyzer-4	2.387+/-	.587
27	N Gnd Temp	81.023+/-	1.795	56	S GND PER	1.280+/-	1.133
28	N CH4/Byron	*****	*****	57	N Ecolyzer-5	1.723+/-	.964
29	N WV 74'	204.351+/-	23.842	58	S GND PAR	-.800+/-	1.187
30	N CO/Byron	*****	*****	59	N Rel Hum	61.146+/-	0.814
31	N 74' Temp	78.463+/-	2.667	60	S GND VER	-.318+/-	.493
32	N CO2/Byron	*****	*****	61	N Solar Rad	400.751+/-	192.192
35	N HA 74'	6.018+/-	2.162	64	S VA 55'	.121+/-	.868

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.27+/- 2.20	208.2+/- 23.8	3.2+/- 16.2
02	17	19	21	4.43+/- 2.15	205.6+/- 26.3	6.5+/- 18.4
03	38	40	42	3.57+/- 1.56	198.8+/- 24.2	7.7+/- 15.0
04	41	43	45	3.16+/- 1.62	189.0+/- 43.9	6.2+/- 16.1
05	50	52	54	4.40+/- 1.82	207.5+/- 26.6	5.2+/- 13.4
06	56	58	60	1.94+/- 1.25	213.5+/- 29.5	18.8+/- 26.4

Average for 15 minute period ending at 13:45:00  
 Traffic Data  
 Total Traffic = 2143 vehicles averaging 58.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.0	57	54.8	104	56.1	49	57.0	33	47.7
Cat2	102	60.5	156	56.3	154	57.4	80	58.3	35	47.2
Cat3	29	62.3	42	61.4	17	58.3	16	55.4	5	45.9
Cat4	17	66.1	18	61.9	11	56.7	9	58.7	1	43.8
Cat5	6	70.1	11	67.1	1	60.7	2	61.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	72	62.3	43	58.2	62	59.7	67	56.5	34	47.0
Cat2	165	63.3	169	60.0	178	60.2	121	58.9	57	46.8
Cat3	6	62.5	34	60.1	26	58.6	6	58.6	2	43.6
Cat4	11	64.9	22	60.0	20	62.3	1	65.6	0	0
Cat5	3	61.4	7	64.1	4	56.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.6	599	28.0	58.5	1217	56.8	59.4	183	8.5	61.6	110	5.1	64.7	34	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.239+/- 2.076	mph	37	N VA 102'	.155+/- .957	mph
12	N Dasibi CD	1.613+/- .330	ppm	38	S BOT PER	2.782+/- 2.038	mph
13	N TOP PAR	2.031+/- 2.330	mph	39	N VA 74'	.030+/- 1.047	mph
14	N Dasibi O3	.019+/- .004	ppm	40	S BOT PAR	.089+/- 1.604	mph
15	N TOP VER	.072+/- .955	mph	41	N GND PER	2.274+/- 1.542	mph
16	N NOX/TECO	.175+/- .063	ppm	42	S BOT VER	.219+/- .807	mph
17	N BOT PER	3.617+/- 1.976	mph	43	N GND PAR	.501+/- 2.208	mph
19	N BOT PAR	1.293+/- 2.226	mph	45	N GND VER	.212+/- .795	mph
20	N ND2/TECO	.031+/- .009	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.132+/- .926	mph	50	S TOP PER	2.573+/- 2.167	mph
22	N ND/TECO	.144+/- .057	ppm	51	N EcoLyzer-2	2.595+/- .336	ppm
23	N HA 102'	6.519+/- 1.712	mph	52	S TOP PAR	1.288+/- 1.344	mph
24	N THC/Byron	2.049+/- .150	ppm	53	N EcoLyzer-3	2.725+/- .555	ppm
25	N WV 102'	205.758+/- 24.473	DEGR AZ	54	S TOP VER	.246+/- .824	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.438+/- .501	ppm
27	N Gnd Temp	80.710+/- 2.431	DEGR F	56	S GND PER	1.483+/- 1.526	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	1.977+/- .808	ppm
29	N WV 74'	200.201+/- 24.476	DEGR AZ	58	S GND PAR	.108+/- 1.363	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	61.537+/- .735	%
31	N 74' Temp	76.225+/- 2.879	DEGR F	60	S GND VER	.281+/- .521	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	499.577+/- 120.225	W/m**2
35	N HA 74'	5.936+/- 1.995	mph	64	S VA 55'	.358+/- 1.089	mph

UVW Vector Calculations						
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11	13	15	5.45+/- 1.75	208.8+/- 27.9	2.2+/- 11.8
02	17	19	21	4.64+/- 1.70	202.7+/- 30.8	4.0+/- 14.7
03	38	40	42	3.41+/- 1.87	186.1+/- 34.2	9.3+/- 21.2
04	41	43	45	3.32+/- 1.51	174.9+/- 41.1	4.0+/- 18.9
05	50	52	54	3.40+/- 1.98	212.6+/- 32.2	12.8+/- 22.7
06	56	58	60	2.05+/- 1.59	197.1+/- 38.7	18.1+/- 28.7

Average for 15 minute period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 2259 vehicles averaging 57.3 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	57.3	71	55.3	113	56.9	61	56.3	30	45.9
Cat2	110	58.6	158	56.5	161	58.0	76	56.6	38	45.9
Cat3	21	59.9	39	59.1	26	56.7	12	56.6	8	41.0
Cat4	9	62.0	22	61.4	11	56.6	3	53.5	1	44.8
Cat5	3	64.7	12	64.3	1	58.4	3	57.3	0	0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	60.7	53	57.5	57	58.9	57	56.6	25	45.9
Cat2	198	60.3	195	57.3	162	59.7	150	58.6	52	47.5
Cat3	15	59.5	24	58.4	39	58.1	9	58.2	2	52.4
Cat4	13	60.9	22	57.5	27	58.8	4	56.0	4	41.7
Cat5	1	54.0	5	61.4	7	57.5	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.4	616	27.3	57.5	1300	57.5	57.6	195	8.6	58.4	116	5.1	61.2	32	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.081+/- 1.881	mph	37	N VA 102'	.104+/- .712	mph
12	N Dasibi CD	1.635+/- .532	ppm	38	S BOT PER	2.628+/- 1.436	mph
13	N TOP PAR	2.091+/- 1.574	mph	39	N VA 74'	.034+/- .793	mph
14	N Dasibi O3	.017+/- .003	ppm	40	S BOT PAR	-.131+/- 1.184	mph
15	N TOP VER	.083+/- .815	mph	41	N GND PER	1.971+/- 1.432	mph
16	N NOX/TECO	.195+/- .066	ppm	42	S BOT VER	.313+/- .531	mph
17	N BOT PER	3.354+/- 1.766	mph	43	N GND PAR	.092+/- 1.752	mph
19	N BOT PAR	1.617+/- 1.483	mph	45	N GND VER	.147+/- .871	mph
20	N ND2/TECO	.034+/- .008	ppm	49	N EcoLyzer-1	2.645+/- .581	ppm
21	N BOT VER	.185+/- .732	mph	50	S TOP PER	2.853+/- 2.017	mph
22	N ND/TECO	.160+/- .060	ppm	51	N EcoLyzer-2	2.518+/- .331	ppm
23	N HA 102'	5.849+/- 1.670	mph	52	S TOP PAR	.995+/- 1.152	mph
24	N THC/Byron	2.138+/- .190	ppm	53	N EcoLyzer-3	2.647+/- .645	ppm
25	N WV 102'	200.297+/- 19.351	DEGR AZ	54	S TOP VER	.266+/- .557	mph
28	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	2.447+/- .565	ppm



27	N Gnd Temp	78.157+/-	2.301	DEGR F	56	S GND PER	1.278+/-	1.136	mph
28	N CH4/Byron	*****+/-	*****	ppm	57	N Ecolyzer-5	2.148+/-	.871	ppm
29	N WV 74'	201.270+/-	20.201	DEGR A2	58	S GND PAR	.017+/-	.856	mph
30	N CO/Byron	*****+/-	*****	ppm	59	N Rel Hum	63.508+/-	.831	%
31	N 74' Temp	74.431+/-	2.308	DEGR F	60	S GND VER	.248+/-	.289	mph
32	N CO2/Byron	*****+/-	*****	ppm	61	N Solar Rad	211.593+/-	67.870	W/m**2
35	N HA 74'	5.159+/-	1.944	mph	64	S VA 55'	.410+/-	.797	mph

UVW Vector Calculations									
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	4.96+/- 1.77	209.1+/- 19.7	2.0+/- 10.7			
02	17	19	21	4.11+/- 1.68	206.7+/- 24.1	4.4+/- 13.2			
03	38	40	42	2.99+/- 1.35	182.8+/- 27.1	8.5+/- 13.4			
04	41	43	45	2.85+/- 1.29	180.8+/- 39.8	5.2+/- 22.4			
05	50	52	54	3.39+/- 1.85	204.1+/- 27.5	11.9+/- 19.7			
06	56	53	60	1.63+/- 1.09	193.3+/- 31.8	17.2+/- 26.1			

Average for hourly period ending at 14:00:00  
 Traffic Data  
 Total Traffic = 8485 vehicles averaging 58.1 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	257	57.4	285	55.1	433	56.6	241	57.1	111	67.1
Cat2	406	59.8	604	56.5	594	57.6	313	58.5	148	46.2
Cat3	84	61.7	152	60.7	92	57.1	48	57.1	18	44.5
Cat4	52	64.8	86	61.4	32	56.5	22	59.4	2	44.3
Cat5	17	67.4	37	65.1	4	59.6	8	59.4	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	311	61.6	202	58.1	250	59.3	258	57.1	114	46.2
Cat2	652	62.2	674	59.5	648	60.4	514	58.8	199	47.0
Cat3	46	61.8	124	59.9	124	59.7	29	56.5	9	45.8
Cat4	42	63.9	76	60.3	86	61.0	11	58.8	4	41.7
Cat5	6	60.8	25	62.7	22	59.9	1	47.1	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.8	2473	29.1	58.3	4752	56.0	59.1	727	8.6	61.0	413	4.9	63.1	120	1.4

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.664+/- 2.437	mph	37	N VA 102'	.191+/- 1.006	mph
12	N Dasibi CO	1.896+/- .446	ppm	38	S BOT PER	3.077+/- 1.828	mph
13	N TOP PAR	1.764+/- 2.280	mph	39	N VA 74'	.089+/- 1.054	mph
14	N Dasibi O3	.019+/- .003	ppm	40	S BOT PAR	.062+/- 1.840	mph
15	N TDP VER	.118+/- 1.004	mph	41	N GND PER	2.251+/- 1.667	mph
16	N NOX/TECO	.183+/- .060	ppm	42	S BOT VER	.287+/- .721	mph
17	N BOT PER	3.842+/- 2.183	mph	43	N GND PAR	.218+/- 2.262	mph
18	N BOT PAR	1.272+/- 2.145	mph	45	N GND VER	.168+/- .831	mph
20	N NO2/TECO	.032+/- .008	ppm	48	N Ecolyzer-1	2.448+/- .593	ppm
21	N BOT VER	.208+/- .890	mph	50	S TOP PER	3.279+/- 2.216	ppm
22	N NO/TECO	.151+/- .055	ppm	51	N Ecolyzer-2	2.479+/- .400	ppm
23	N HA 102'	6.684+/- 2.086	mph	52	S TOP PAR	1.035+/- 1.738	mph
24	N THC/Byron	2.089+/- .191	ppm	53	N Ecolyzer-3	2.569+/- .661	ppm
25	N WV 102'	199.630+/- 24.727	DEGR A2	54	S TOP VER	.304+/- .788	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.423+/- .547	ppm
27	N Gnd Temp	79.746+/- 2.708	DEGR F	56	S GND PER	1.579+/- 1.385	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	1.925+/- .946	ppm
29	N WV 74'	196.963+/- 24.475	DEGR A2	58	S GND PAR	.053+/- 1.466	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	62.640+/- 1.619	%
31	N 74' Temp	75.545+/- 2.469	DEGR F	60	S GND VER	.287+/- .517	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	398.708+/- 190.245	W/m**2
35	N HA 74'	6.172+/- 2.346	mph	64	S VA 55'	.439+/- 1.048	mph

UVW Vector Calculations

UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)			
01	11	13	15	5.85+/- 2.26	203.8+/- 25.8	2.9+/- 12.9			
02	17	19	21	4.72+/- 2.07	200.8+/- 28.5	5.1+/- 15.0			
03	38	40	42	3.65+/- 1.87	185.7+/- 29.3	8.2+/- 16.3			
04	41	43	45	3.32+/- 1.65	178.8+/- 41.6	4.6+/- 18.6			
05	50	52	54	4.01+/- 2.10	201.9+/- 29.9	10.8+/- 20.1			
06	56	58	60	2.16+/- 1.50	195.1+/- 36.0	15.7+/- 26.6			

14:46:15 -- JUST DISCOVERED THAT ECOLYZER VACUUM CLEANERS WERE LEFT OFF!!!!  
 Average for 15 minute period ending at 14:15:00  
 Traffic Data  
 Total Traffic = 2273 vehicles averaging 57.5 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	62	57.0	59	55.2	117	56.7	49	57.7	30	45.9
Cat2	90	58.7	166	56.7	148	57.8	85	58.4	64	45.5
Cat3	11	62.7	44	59.5	22	56.9	10	56.4	7	43.6
Cat4	12	64.1	8	60.1	6	58.5	6	62.5	2	40.4
Cat5	6	64.0	12	67.4	1	59.4	0	0	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	88	59.5	80	57.4	57	57.9	70	57.8	44	45.2
Cat2	177	61.3	205	59.8	168	58.8	138	58.5	63	45.3
Cat3	23	62.7	34	59.6	34	59.6	10	58.3	2	41.7
Cat4	12	65.6	18	60.6	24	60.6	1	65.3	2	39.1
Cat5	7	62.3	8	61.3	9	62.4	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	636	28.0	57.6	1306	57.5	58.7	197	8.7	60.8	91	4.0	63.7	43	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.694+/-	1.568	37	N VA 102'	303+/-	.753
12	N Dasibi CO	1.881+/-	.358	38	S BOT PER	3.221+/-	1.367
13	N TOP PAR	.817+/-	1.439	39	N VA 74'	.174+/-	.776
14	N Dasibi O3	.017+/-	.003	40	S BOT PAR	-.463+/-	1.568
15	N TOP VER	.090+/-	.849	41	N GND PER	2.269+/-	1.488
16	N NDX/TECO	.202+/-	.049	42	S BOT VER	2.245+/-	.580
17	N BOT PER	3.884+/-	1.781	43	N GND PAR	-1.524+/-	1.705
18	N BOT PAR	.159+/-	1.465	44	N GND VER	1.108+/-	.850
19	N NO2/TECO	.034+/-	.008	48	N Ecolyzer-1	2.706+/-	.533
20	N BOT VER	.195+/-	.898	49	S TOP PER	3.461+/-	1.543
21	N NO/TECO	.168+/-	.045	50	N Ecolyzer-2	2.703+/-	.287
22	N HA 102'	5.421+/-	1.285	51	S TOP PAR	8.877+/-	1.613
23	N THC/Byron	2.267+/-	.253	52	N Ecolyzer-3	2.803+/-	.595
24	N WV 102'	185.590+/-	18.053	53	S TOP VER	1.183+/-	.627
25	N NMHC/Byro	*****+/-*****		54	N Ecolyzer-4	2.563+/-	.562
26	N Gnd Temp	78.652+/-	1.696	55	S GND PER	1.535+/-	1.109
27	N CH4/Byron	*****+/-*****		56	N Ecolyzer-5	2.122+/-	.992
28	N WV 74'	182.941+/-	17.556	57	S GND PAR	-.009+/-	1.204
29	N CO/Byron	*****+/-*****		58	N Rel Hum	64.843+/-	1.106
30	N 74' Temp	75.838+/-	3.609	59	S GND VER	.228+/-	.465
31	N CO2/Byron	*****+/-*****		60	N Solar Rad	190.875+/-	20.374
32	N HA 74'	5.412+/-	1.669	61	S VA 55'	.427+/-	.735
35				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
01	11 13 15	5.11+/- 1.42	190.6+/- 18.5	2.3+/- 13.0
02	17 19 21	4.36+/- 1.51	180.4+/- 26.3	4.5+/- 16.6
03	36 40 42	3.61+/- 1.51	176.5+/- 22.2	6.2+/- 12.0
04	41 43 45	3.36+/- 1.42	146.3+/- 34.8	2.6+/- 17.5
05	50 52 54	3.98+/- 1.51	192.5+/- 25.3	6.3+/- 13.6
06	56 58 60	1.97+/- 1.19	187.9+/- 32.3	12.6+/- 22.5

Average for 15 minute period ending at 14:30:00  
 Traffic Data  
 Total Traffic = 2227 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	59	58.2	76	54.8	95	56.5	50	56.3	34	47.2
Cat2	104	60.2	151	56.7	143	57.9	77	58.3	41	45.4
Cat3	18	60.7	38	60.3	27	56.9	17	57.6	3	46.4
Cat4	19	64.6	28	61.3	5	53.9	5	55.2	4	42.4
Cat5	8	67.2	11	63.8	3	54.0	2	57.3	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	60.1	45	59.0	55	57.7	59	57.5	32	43.1
Cat2	175	61.7	208	58.8	180	58.7	132	59.1	69	45.3
Cat3	15	65.0	31	59.5	34	58.4	6	58.9	0	0
Cat4	9	63.4	25	61.9	21	59.8	5	57.1	1	44.8
Cat5	2	68.2	13	59.5	13	59.6	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	584	26.2	57.8	1280	57.5	59.3	189	8.5	60.4	122	5.5	61.5	52	2.3

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.585+/-	1.819	37	N VA 102'	325+/-	.671
12	N Dasibi CO	1.932+/-	.423	38	S BOT PER	2.922+/-	1.280
13	N TOP PAR	.783+/-	1.575	39	N VA 74'	1.106+/-	.651
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	-.614+/-	1.542
15	N TOP VER	.008+/-	.722	41	N GND PER	2.158+/-	1.303
16	N NDX/TECO	.210+/-	.055	42	S BOT VER	2.112+/-	.472
17	N BOT PER	3.036+/-	1.677	43	N GND PAR	-1.222+/-	1.623
18	N BOT PAR	.326+/-	1.492	44	N GND VER	1.214+/-	.694
19	N NO2/TECO	.036+/-	.008	48	N Ecolyzer-1	2.904+/-	.643
20	N BOT VER	.143+/-	.663	49	S TOP PER	2.839+/-	1.579
21	N NO/TECO	.173+/-	.050	50	N Ecolyzer-2	2.772+/-	.415
22	N HA 102'	4.861+/-	1.200	51	S TOP PAR	8.636+/-	1.319
23	N THC/Byron	2.233+/-	.200	52	N Ecolyzer-3	2.908+/-	.665
24	N WV 102'	191.063+/-	19.792	53	S TOP VER	1.007+/-	.612
25	N NMHC/Byro	*****+/-*****		54	N Ecolyzer-4	2.691+/-	.604
26	N Gnd Temp	77.141+/-	2.361	55	S GND PER	1.280+/-	1.110
27	N CH4/Byron	*****+/-*****		56	N Ecolyzer-5	2.423+/-	1.043
28	N WV 74'	187.459+/-	23.608	57	S GND PAR	-.154+/-	1.036
29	N CO/Byron	*****+/-*****		58	N Rel Hum	66.129+/-	.508
30	N 74' Temp	74.405+/-	1.687	59	S GND VER	.140+/-	.384
31	N CO2/Byron	*****+/-*****		60	N Solar Rad	192.791+/-	36.208
32	N HA 74'	4.564+/-	1.732	61	S VA 55'	.488+/-	.745
35				64			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg Az	Elevation Angle (Deg)
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01	11	13	15	4.07+/- 1.79	192.6+/- 24.3	2.7+/- 15.6
02	17	19	21	3.53+/- 1.54	185.0+/- 30.8	5.0+/- 14.5
03	38	40	42	3.31+/- 1.58	174.4+/- 23.9	4.5+/- 12.5
04	41	43	45	3.08+/- 1.22	153.3+/- 34.7	4.6+/- 17.1
05	50	52	54	3.31+/- 1.44	193.9+/- 29.1	4.5+/- 17.9
06	56	58	60	1.62+/- 1.23	186.8+/- 34.5	11.2+/- 22.0

Average for 15 minute period ending at 14:45:00  
 Traffic Data  
 Total Traffic = 2205 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.1	92	55.1	107	56.0	60	55.7	37	46.2
Cat2	114	60.7	141	57.0	147	57.4	81	58.0	38	46.4
Cat3	24	62.3	32	61.6	24	56.4	16	56.8	2	41.4
Cat4	11	68.5	28	63.2	14	58.4	2	60.8	0	.0
Cat5	6	67.9	9	64.2	1	65.8	3	56.5	1	44.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	61.5	48	58.4	55	58.8	62	56.8	32	43.1
Cat2	166	62.6	194	59.5	157	58.9	110	57.5	58	45.3
Cat3	16	64.5	26	60.5	43	58.7	14	57.4	1	42.4
Cat4	12	64.0	27	60.8	28	60.6	5	58.4	0	.0
Cat5	1	63.5	5	63.1	6	62.3	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.0	640	29.0	58.0	1206	54.7	59.5	200	9.1	61.9	127	5.8	63.1	32	1.5

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.749+/- 1.831	mph	37	N VA 102'	.263+/- .777	mph
12	N Dasibi CD	1.951+/- .441	ppm	38	S BOT PER	3.382+/- 1.616	mph
13	N TOP PAR	-.959+/- 1.899	ppm	39	N VA 74'	-.050+/- .895	mph
14	N Dasibi D3	-.018+/- -.003	ppm	40	S BOT PAR	-1.444+/- 1.767	mph
15	N TOP VER	-.134+/- 1.010	mph	41	N GND PER	2.146+/- 1.281	mph
16	N NOX/TECO	-.199+/- -.059	ppm	42	S BOT VER	-.219+/- .654	mph
17	N BOT PER	3.729+/- 1.653	mph	43	N GND PAR	-2.550+/- 1.663	mph
18	N BOT PAR	-1.332+/- 1.719	ppm	44	N GND VER	-.245+/- .702	ppm
19	N NO2/TECO	-.033+/- -.008	ppm	45	N Ecolyzer-1	3.043+/- .745	ppm
20	N BOT VER	-.185+/- -.073	ppm	46	S TOP PER	3.320+/- 1.745	ppm
21	N NO/TECO	-.165+/- -.053	ppm	47	N Ecolyzer-2	2.805+/- .409	ppm
22	N HA 102'	5.379+/- 1.328	mph	48	S TOP PAR	-.286+/- 1.520	ppm
23	N THC/Byron	2.252+/- .216	ppm	49	N Ecolyzer-3	2.989+/- .743	ppm
24	N WV 102'	173.322+/- 12.970	DEGR AZ	50	S TOP VER	-.138+/- .737	ppm
25	N MMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	2.647+/- .860	ppm
26	N Gnd Temp	78.860+/- 3.511	DEGR F	52	S GND PER	1.575+/- 1.257	ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	2.681+/- 1.167	ppm
28	N WV 74'	166.577+/- 15.558	DEGR AZ	54	S GND PAR	-.599+/- 1.062	ppm
29	N CO/Byron	*****+/-*****	ppm	55	N Rel Hum	84.892+/- 1.098	%
30	N 74' Temp	74.926+/- 1.824	DEGR F	56	S GND VER	-.186+/- .565	ppm
31	N CO2/Byron	*****+/-*****	ppm	57	N Solar Rad	293.569+/- 154.995	W/m <sup>2</sup> *2
32	N HA 74'	5.835+/- 1.917	mph	58	S VA 55'	.319+/- .861	mph
33				59			
34				60			
35				61			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	5.28+/- 1.90	170.8+/- 20.6	3.4+/- 12.8
02	17 19 21	4.38+/- 1.58	182.0+/- 23.9	3.6+/- 12.0
03	38 40 42	4.00+/- 1.92	183.0+/- 21.4	5.2+/- 11.4
04	41 43 45	3.73+/- 1.46	131.9+/- 24.1	4.0+/- 12.1
05	50 52 54	3.76+/- 1.69	175.2+/- 26.7	8.3+/- 19.6
06	56 58 60	1.99+/- 1.40	174.0+/- 34.0	13.6+/- 23.1

Average for 15 minute period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 2235 vehicles averaging 57.9 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	68	58.9	74	55.0	128	57.5	52	57.2	31	46.2
Cat2	126	60.5	156	57.3	171	58.3	78	60.1	38	46.0
Cat3	14	63.4	43	61.6	17	56.5	15	60.4	5	45.7
Cat4	15	65.4	25	63.1	9	58.6	4	58.3	1	44.4
Cat5	9	70.3	15	64.9	2	65.9	3	79.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	94	59.5	43	57.1	54	58.5	54	56.3	35	43.4
Cat2	146	61.5	179	59.2	154	58.4	117	56.2	63	44.3
Cat3	19	60.8	43	58.2	23	58.2	13	57.9	3	42.5
Cat4	16	62.6	20	60.5	31	60.4	6	55.6	3	40.2
Cat5	1	70.5	13	78.0	6	62.8	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.2	833	28.3	57.8	1228	54.9	59.0	195	8.7	60.7	130	5.8	69.9	49	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.672+/- 1.434	mph	37	N VA 102'	.200+/- .717	mph
12	N Dasibi CD	2.156+/- .485	ppm	38	S BOT PER	3.215+/- 1.794	mph
13	N TOP PAR	-1.847+/- 1.557	ppm	39	N VA 74'	-.239+/- .717	mph
14	N Dasibi D3	-.017+/- -.002	ppm	40	S BOT PAR	-2.147+/- 1.878	mph
15	N TOP VER	-.061+/- -.064	mph	41	N GND PER	2.137+/- 1.388	mph
16	N NOX/TECO	-.239+/- -.057	ppm	42	S BOT VER	-.255+/- .589	mph
17	N BOT PER	3.861+/- 1.508	mph	43	N GND PAR	-3.320+/- 1.717	mph
18	N BOT PAR	-2.070+/- 1.455	ppm	44	N GND VER	-.223+/- .555	ppm
19	N NO2/TECO	-.038+/- -.007	ppm	45	N Ecolyzer-1	.833+/- 1.030	ppm
20	N BOT VER	-.120+/- -.006	ppm	46	S TOP PER	3.134+/- 1.643	ppm
21	N NO/TECO	-.200+/- -.054	ppm	47	N Ecolyzer-2	1.153+/- 5.020	ppm
22	N HA 102'	5.507+/- 1.148	mph	48	S TOP PAR	-1.223+/- 1.498	ppm
23	N THC/Byron	2.320+/- .257	ppm	49	N Ecolyzer-3	1.058+/- 3.370	ppm
24	N WV 102'	159.992+/- 17.684	DEGR AZ	50	S TOP VER	-.013+/- .811	ppm
25	N MMHC/Byro	*****+/-*****	ppm	51	N Ecolyzer-4	1.730+/- .600	ppm
26	N Gnd Temp	77.636+/- 2.891	DEGR F	52	S GND PER	1.632+/- 1.273	ppm
27	N CH4/Byron	*****+/-*****	ppm	53	N Ecolyzer-5	3.021+/- 1.517	ppm
28	N WV 74'	155.989+/- 18.506	DEGR AZ	54	S GND PAR	-.807+/- 1.234	ppm
29				55			
30				56			
31				57			
32				58			
33				59			
34				60			
35				61			

30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	65.559+/-	.388	%
31	N 74' Temp	74.691+/- 2.363	DEGR F	60	S GND VER	.156+/-	.467	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	198.559+/-	39.382	W/m**2
35	N HA 74'	5.683+/- 1.654	mph	64	S VA 55'	.205+/-	.961	mph

UWV Vector Calculations								
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)				
01	11 13 15	5.29+/- 1.47	159.4+/- 17.7	- .3+/- 8.3				
02	17 19 21	4.65+/- 1.53	151.3+/- 19.3	2.6+/- 10.0				
03	38 40 42	4.29+/- 1.92	148.9+/- 27.5	6.0+/- 12.6				
04	41 43 45	4.28+/- 1.59	123.3+/- 25.5	2.7+/- 9.1				
05	50 52 54	3.76+/- 1.67	159.8+/- 24.1	6.4+/- 20.9				
06	56 58 60	2.20+/- 1.36	162.8+/- 35.0	10.0+/- 23.8				

Average for hourly period ending at 15:00:00  
 Traffic Data  
 Total Traffic = 8940 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	257	58.1	301	55.0	447	56.7	211	56.7	132	48.4
Cat2	434	60.1	614	56.9	610	57.9	321	59.0	181	45.8
Cat3	67	62.2	157	60.7	90	56.7	58	57.9	17	44.5
Cat4	57	65.5	89	62.3	34	57.8	17	59.2	7	42.1
Cat5	29	67.6	47	65.1	7	65.6	8	65.4	1	44.3

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	340	60.1	196	58.0	221	58.2	245	57.1	143	43.8
Cat2	664	61.8	786	59.3	659	58.7	498	57.9	253	45.1
Cat3	73	63.1	136	59.3	134	58.7	43	57.5	6	42.2
Cat4	49	63.8	90	61.0	104	60.4	17	57.4	6	40.6
Cat5	11	64.3	39	65.2	34	61.4	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	2493	27.9	57.8	5020	56.2	59.1	781	8.7	61.0	470	5.3	64.7	176	2.0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.425+/- 1.737	mph	37	N VA 102'	.273+/- .731	mph
12	N Dasidi CO	1.980+/- .441	ppm	38	S BOT PER	3.185+/- 1.555	mph
13	N TOP PAR	-.302+/- 1.987	mph	39	N VA 74'	.025+/- .780	mph
14	N Dasidi O3	.017+/- .003	ppm	40	S BOT PAR	-1.167+/- 1.822	mph
15	N TOP VER	.043+/- .850	mph	41	N GND PER	2.177+/- 1.365	mph
16	N NOX/TECO	.212+/- .057	ppm	42	S BOT VER	.208+/- .579	mph
17	N BOT PER	3.627+/- 1.690	mph	43	N GND PAR	-2.154+/- 1.870	mph
19	N BOT PAR	-.729+/- 1.835	mph	45	N GND VER	.197+/- .708	mph
20	N NO2/TECO	.035+/- .008	ppm	49	N Ecolyzer-1	2.372+/- 1.179	ppm
21	N BOT VER	.161+/- .748	mph	50	S TOP PER	3.189+/- 1.642	mph
22	N NO/TECO	.177+/- .052	ppm	51	N Ecolyzer-2	2.358+/- 2.623	ppm
23	N HA 102'	5.292+/- 1.265	mph	52	S TOP PAR	.001+/- 1.704	mph
24	N THC/Byron	2.268+/- .229	ppm	53	N Ecolyzer-3	2.440+/- 1.953	ppm
25	N WV 102'	177.447+/- 20.634	DEGR AZ	54	S TOP VER	.075+/- .705	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	2.458+/- .745	ppm
27	N Gnd Temp	78.072+/- 2.725	DEGR F	56	S GND PER	1.505+/- 1.195	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	2.562+/- 1.241	ppm
29	N WV 74'	173.114+/- 22.385	DEGR AZ	58	S GND PAR	-.392+/- 1.180	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Re1 Hum	65.356+/- .980	%
31	N 74' Temp	74.955+/- 2.484	DEGR F	60	S GND VER	.178+/- .481	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	218.849+/- 91.540	W/m**2
35	N HA 74'	5.373+/- 1.811	mph	64	S VA 55'	.275+/- .836	mph

UWV Vector Calculations								
UWV	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)				
01	11 13 15	4.94+/- 1.73	178.3+/- 24.1	2.0+/- 12.8				
02	17 19 21	4.23+/- 1.62	169.2+/- 28.2	3.9+/- 13.5				
03	38 40 42	3.80+/- 1.78	165.9+/- 25.8	5.5+/- 12.1				
04	41 43 45	3.61+/- 1.49	138.0+/- 31.9	3.4+/- 14.4				
05	50 52 54	3.70+/- 1.60	180.2+/- 29.1	6.3+/- 18.2				
06	56 58 60	1.95+/- 1.31	177.9+/- 34.9	11.8+/- 22.9				

15:23:57 -- BEGIN END CALIBRATION ON ECOL.  
 15:24:16 -- BEGIN END CAL. NCO-5 GRD  
 15:28:53 -- BEGIN END CAL. NCO-4  
 15:38:42 -- PERFORMING END CALIBRATION OF TECO NOX ANALYZER  
 15:42:50 -- END OF ECOLYZER SPAN DRIFTS.  
 15:44:14 -- READ ZEROS ON ECOL. GRD  
 15:46:58 -- END OF CAL. RUN FOR ECOL. GRD  
 15:56:11 -- BEGIN END CAL. OF DASIBI CO  
 15:57:02 -- DISCONNECTING NORTH GROUND STAND.

Average for 15 minute period ending at 15:15:00  
 Traffic Data  
 Total Traffic = 2231 vehicles averaging 57.7 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	87	58.2	81	55.1	117	57.8	47	58.0	30	48.5
Cat2	95	60.4	174	57.3	159	59.1	78	59.5	35	46.7
Cat3	21	62.9	31	60.2	18	56.6	5	59.5	7	47.0
Cat4	15	66.0	16	64.4	9	61.2	8	63.7	2	45.6
Cat5	6	71.4	8	65.9	1	61.9	2	64.5	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	64	59.4	57	56.8	62	57.2	60	55.0	27	45.5
Cat2	182	61.0	193	58.0	180	57.7	141	57.3	56	48.5
Cat3	18	60.9	25	58.0	32	59.4	6	58.6	0	.0
Cat4	10	63.4	13	58.3	21	60.2	5	58.9	1	51.7
Cat5	3	64.9	6	60.5	9	63.0	2	62.2	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
56.3	632	28.3	57.7	1299	58.2	59.1	163	7.3	61.7	100	4.5	64.7	37	1.7

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.283+/-	1.415	37	N VA 102'	.358+/-	1.009
12	N Dasibi CO	2.357+/-	.670	38	S BOT PER	2.058+/-	1.557
13	N TOP PAR	-2.875+/-	1.957	39	N VA 74'	.059+/-	.889
14	N Dasibi O3	.016+/-	.002	40	S BOT PAR	-2.416+/-	2.138
15	N TOP VER	.312+/-	.830	41	N GND PER	1.888+/-	1.271
16	N NDX/TECO	.240+/-	.085	42	S BOT VER	.201+/-	.512
17	N BOT PER	2.570+/-	1.460	43	N GND PAR	-4.248+/-	1.759
18	N BOT PAR	-3.007+/-	1.702	44	N GND VER	.289+/-	.524
19	N ND2/TECO	.036+/-	.008	45	N Ecolyzer-1	.870+/-	.259
20	N BOT VER	.404+/-	.752	46	S TOP PER	2.858+/-	1.817
21	N ND/TECO	.203+/-	.081	47	N Ecolyzer-2	1.448+/-	.310
22	N HA 102'	5.424+/-	1.194	48	S TOP PAR	-2.285+/-	1.878
23	N THC/Byron	2.283+/-	.228	49	N Ecolyzer-3	1.817+/-	.789
24	N WV 102'	139.527+/-	18.086	50	S TOP VER	-.052+/-	.859
25	N NMHC/Byro	*****	*****	51	N Ecolyzer-4	2.373+/-	.847
26	N Gnd Temp	78.052+/-	2.328	52	S GND PER	1.187+/-	1.180
27	N CH4/Byron	*****	*****	53	N Ecolyzer-5	3.486+/-	1.387
28	N WV 74'	135.719+/-	20.898	54	S GND PAR	-.918+/-	1.212
29	N CO/Byron	*****	*****	55	N Rel Hum	65.283+/-	.482
30	N 74' Temp	76.411+/-	2.920	56	S GND VER	-.163+/-	.522
31	N CO2/Byron	*****	*****	57	N Solar Rad	173.898+/-	20.600
32	N HA 74'	5.189+/-	1.715	58	S VA 55'	.323+/-	.762
35				59			

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle [Deg]
01	11 13 15	4.88+/- 1.29	138.3+/- 22.9	4.4+/- 10.7
02	17 19 21	4.48+/- 1.15	130.0+/- 26.2	5.4+/- 10.7
03	38 40 42	3.63+/- 2.07	138.4+/- 33.5	8.5+/- 18.0
04	41 43 45	4.92+/- 1.55	115.2+/- 19.7	3.0+/- 7.4
05	50 52 54	4.14+/- 1.84	135.9+/- 25.7	4.4+/- 13.8
06	56 58 60	1.93+/- 1.30	150.7+/- 40.9	11.6+/- 28.1

Average for 15 minute period ending at 15:30:00  
 Traffic Data  
 Total Traffic = 2257 vehicles averaging 58.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	58.6	68	55.1	95	57.2	50	58.4	34	48.5
Cat2	105	61.0	187	57.1	157	58.3	71	59.6	28	50.1
Cat3	19	61.8	36	62.2	24	55.3	15	61.3	4	48.3
Cat4	17	67.2	23	64.3	8	58.4	5	59.7	4	46.0
Cat5	3	62.2	8	64.7	2	56.5	3	57.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	70	58.6	46	57.6	64	58.0	55	56.3	31	43.0
Cat2	189	62.3	200	59.4	213	58.7	135	58.5	58	46.1
Cat3	12	62.7	35	60.1	38	60.4	12	55.8	3	41.8
Cat4	13	64.6	22	61.1	27	59.7	3	60.7	2	39.9
Cat5	1	57.3	3	62.8	4	62.9	0	.0	0	.0

Vehicle Classification Summary

CAT 1			CAT 2			CAT 3			CAT 4			CAT 5		
Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%	Spd.	Total	%
56.3	588	26.1	58.5	1323	58.6	59.6	198	8.8	61.5	124	5.5	61.9	24	1.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	5.096+/-	1.601	37	N VA 102'	.219+/-	.776
12	N Dasibi CO	1.988+/-	.417	38	S BOT PER	2.944+/-	1.423
13	N TOP PAR	1.622+/-	1.285	39	N VA 74'	.013+/-	.694
14	N Dasibi O3	.017+/-	.002	40	S BOT PAR	-.365+/-	1.680
15	N TOP VER	-.024+/-	.843	41	N GND PER	2.240+/-	1.242
16	N NDX/TECO	.219+/-	.064	42	S BOT VER	.432+/-	.514
17	N BOT PER	4.217+/-	1.581	43	N GND PAR	-.940+/-	1.608
18	N BOT PAR	1.031+/-	1.230	44	N GND VER	.172+/-	.777
19	N ND2/TECO	.035+/-	.008	45	N Ecolyzer-1	.873+/-	.223
20	N BOT VER	.123+/-	.752	46	S TOP PER	2.690+/-	1.600
21	N ND/TECO	.184+/-	.060	47	N Ecolyzer-2	1.314+/-	.209
22	N HA 102'	6.481+/-	1.317	48	S TOP PAR	.812+/-	1.374
23	N THC/Byron	2.337+/-	.170	49	N Ecolyzer-3	1.283+/-	.517
24	N WV 102'	195.586+/-	14.779	50	S TOP VER	.398+/-	.564
25	N NMHC/Byro	*****	*****	51	N Ecolyzer-4	1.906+/-	.810
26	N Gnd Temp	78.026+/-	2.677	52	S GND PER	1.264+/-	1.120
27	N CH4/Byron	*****	*****	53	N Ecolyzer-5	2.671+/-	1.164
28	N WV 74'	192.078+/-	14.218	54	S GND PAR	-.050+/-	1.225
29				55			

30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	84.615+/-	.367	%
31	N 74' Temp	75.265+/- 2.357	DEGR F	60	S GND VER	.248+/-	.441	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	151.235+/-	9.658	W/m**2
35	N HA 74'	6.427+/- 1.827	mph	64	S VA 55'	.596+/-	.601	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	5.59+/- 1.51	198.1+/- 15.4	.5+/- 9.5		
02	17	19	21	4.60+/- 1.50	194.2+/- 16.6	3.8+/- 13.9		
03	38	40	42	3.31+/- 1.77	180.2+/- 20.1	9.3+/- 11.4		
04	41	43	45	3.02+/- 1.23	157.1+/- 32.4	3.6+/- 17.7		
05	50	52	54	3.23+/- 1.54	199.6+/- 27.4	13.1+/- 18.8		
06	56	58	60	1.71+/- 1.30	194.2+/- 32.8	17.0+/- 23.2		

Average for 15 minute period ending at 15:45:00  
 Traffic Data  
 Total Traffic = 2514 vehicles averaging 57.5 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	61	58.5	89	53.3	121	56.1	58	57.2	26	48.1
Cat2	147	60.2	188	55.8	149	57.2	79	59.6	38	46.5
Cat3	23	63.2	44	59.0	27	56.6	15	58.4	2	50.8
Cat4	18	63.5	18	61.9	7	57.3	4	61.2	1	41.5
Cat5	6	64.7	10	65.2	1	62.4	1	63.2	0	.0

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	74	59.7	54	56.8	56	56.7	68	57.0	33	45.7
Cat2	156	61.3	261	58.8	232	57.6	147	58.1	87	46.8
Cat3	21	63.7	44	60.2	40	57.7	17	59.8	1	45.0
Cat4	12	64.8	23	59.7	23	60.6	3	49.3	0	.0
Cat5	6	64.8	13	62.2	10	59.6	0	.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.8	640	25.5	57.4	1484	58.0	59.4	234	9.3	60.9	109	4.3	63.0	47	1.9

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.708+/- 2.012	mph	37	N VA 102'	.328+/- 1.008	mph
12	N Dasibi CD	2.437+/- .559	ppm	38	S BDT PER	2.819+/- 1.333	mph
13	N TDP PAR	1.482+/- 1.546	mph	39	N VA 74'	.308+/- .858	mph
14	N Dasibi D3	.016+/- .002	ppm	40	S BDT PAR	-.827+/- 1.607	mph
15	N TDP VER	.218+/- .851	mph	41	N GND PER	1.949+/- 1.357	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.373+/- .635	mph
17	N BOT PER	2.989+/- 1.831	mph	43	N GND PAR	-.757+/- 1.394	mph
18	N BOT PAR	.965+/- 1.415	mph	45	N GND VER	.103+/- .869	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.145+/- .793	mph	50	S TOP PER	2.395+/- 1.546	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.764+/- 1.266	mph	52	S TOP PAR	.384+/- 1.312	mph
24	N THC/Byron	2.257+/- .211	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	197.696+/- 22.445	DEGR AZ	54	S TDP VER	.371+/- .833	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	80.189+/- 3.133	DEGR F	56	S GND PER	1.413+/- 1.144	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	194.602+/- 22.173	DEGR AZ	58	S GND PAR	-.373+/- 1.242	mph
30	N CD/Byron	*****+/-*****	ppm	59	N Rel Hum	63.361+/- 1.044	%
31	N 74' Temp	75.942+/- 2.901	DEGR F	60	S GND VER	.284+/- .389	mph
32	N CD2/Byron	*****+/-*****	ppm	61	N Solar Rad	220.404+/- 11.737	W/m**2
35	N HA 74'	4.773+/- 1.801	mph	64	S VA 55'	.564+/- .848	mph

UVW Vector Calculations								
UVW	Channels			Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11	13	15	4.46+/- 1.81	201.0+/- 29.3	7.2+/- 19.1		
02	17	19	21	3.62+/- 1.66	196.1+/- 31.4	7.5+/- 19.8		
03	38	40	42	3.36+/- 1.49	172.2+/- 26.2	9.7+/- 17.6		
04	41	43	45	2.68+/- 1.32	161.2+/- 36.2	3.6+/- 22.2		
05	50	52	54	2.99+/- 1.36	190.6+/- 31.7	15.3+/- 26.0		
06	56	58	60	1.92+/- 1.23	184.4+/- 37.7	15.3+/- 22.6		

Average for 15 minute period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 2458 vehicles averaging 57.2 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	79	58.5	80	55.3	120	57.4	46	57.9	30	46.2
Cat2	116	61.5	168	57.3	181	59.0	85	59.7	42	47.5
Cat3	17	62.8	46	63.1	17	57.7	5	58.0	3	50.4
Cat4	14	67.0	16	65.0	3	62.4	7	62.2	1	39.3
Cat5	7	68.7	5	66.1	0	.0	0	.0	1	52.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	75	59.1	41	56.3	48	56.6	61	56.1	38	44.2
Cat2	190	61.5	241	57.0	228	56.3	125	56.8	97	45.0
Cat3	13	62.5	49	58.0	52	57.1	22	58.1	3	44.9
Cat4	10	61.4	34	57.8	32	57.1	4	58.5	0	.0
Cat5	1	57.3	8	59.6	16	57.0	1	55.0	0	.0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.9	618	25.1	57.1	1453	59.1	59.1	227	9.2	60.2	121	4.9	60.6	39	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	3.886+/- 1.755	mph	37	N VA 102'	.335+/- .669	mph
12	N Dasibi CD	2.225+/- .493	ppm	38	S BDT PER	3.285+/- 1.519	mph
13	N TDP PAR	.331+/- 1.425	mph	39	N VA 74'	.098+/- .729	mph
14	N Dasibi D3	.018+/- .002	ppm	40	S BDT PAR	-.720+/- 1.511	mph
15	N TDP VER	.138+/- .804	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.128+/- .465	mph
17	N BOT PER	3.168+/- 1.730	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-.144+/- 1.529	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.228+/- .751	mph	50	S TOP PER	3.330+/- 1.979	mph

22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.986+/- 1.381	mph	52	S TOP PAR	.612+/- 1.687	mph
24	N THC/Byron	2.250+/- .186	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	182.062+/- 19.888	DEGR AZ	54	S TOP VER	.097+/- .647	mph
26	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	80.137+/- 2.301	DEGR F	56	S GND PER	1.649+/- 1.148	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	180.003+/- 19.233	DEGR AZ	58	S GND PAR	-.252+/- 1.171	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	61.912+/- .488	%
31	N 74' Temp	77.479+/- 3.094	DEGR F	60	S GND VER	.140+/- .388	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	143.106+/- 50.844	W/m <sup>2</sup>
35	N HA 74'	4.895+/- 1.934	mph	64	S VA 55'	.351+/- .659	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.27+/- 1.65	185.9+/- 23.9	2.6+/- 14.9		
02	17 19 21	3.62+/- 1.59	175.5+/- 29.0	5.0+/- 18.6		
03	38 40 42	3.67+/- 1.52	169.0+/- 22.2	3.4+/- 9.4		
04	41 43 45	*****+/-*****	46.0+/- 54.3	802.5+/-*****		
05	50 52 54	3.83+/- 1.99	185.8+/- 28.9	5.5+/- 16.1		
06	56 58 60	2.00+/- 1.27	177.2+/- 32.4	7.0+/- 18.6		

Average for hourly period ending at 16:00:00  
 Traffic Data  
 Total Traffic = 9460 vehicles averaging 57.6 mph

Westbound Traffic

	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	302	58.4	318	54.7	453	57.1	201	57.8	120	47.8
Cat2	463	60.8	717	56.9	626	58.4	313	59.6	143	47.5
Cat3	80	62.7	157	61.1	86	56.5	40	59.6	15	48.4
Cat4	64	65.8	73	63.8	27	59.5	24	62.0	8	44.5
Cat5	22	67.4	31	65.4	4	59.3	6	60.8	1	52.6

Eastbound Traffic

	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	283	59.5	198	56.9	230	57.2	244	56.1	129	44.6
Cat2	697	61.5	901	58.3	853	57.5	548	57.7	298	45.6
Cat3	64	62.5	153	59.1	162	58.5	57	58.2	7	43.6
Cat4	45	63.7	92	59.2	103	59.2	15	57.2	3	43.8
Cat5	11	63.5	30	61.2	39	59.7	3	59.8	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.1	2478	26.2	57.7	5559	58.8	59.3	822	8.7	61.1	454	4.8	62.6	187	1.6

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.988+/- 1.836	mph	37	N VA 102'	.310+/- .878	mph
12	N Dasibi CO	2.253+/- .573	ppm	38	S BDT PER	2.778+/- 1.525	mph
13	N TOP PAR	.140+/- 2.398	mph	39	N VA 74'	.120+/- .831	mph
14	N Dasibi O3	.016+/- .002	ppm	40	S BDT PAR	-1.082+/- 1.917	mph
15	N TOP VER	.161+/- .847	mph	41	S GND PER	1.964+/- 1.298	mph
16	N ND/TECD	*****+/-*****	ppm	42	S BDT VER	.284+/- .548	mph
17	N BDT PER	3.236+/- 1.761	mph	43	N GND PAR	-1.803+/- 2.169	mph
19	N BDT PAR	-.289+/- 2.205	mph	45	N GND VER	-1.202+/- .736	mph
20	N ND2/TECD	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	.225+/- .768	mph	50	S TOP PER	2.818+/- 1.773	ppm
22	N ND/TECD	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.414+/- 1.448	ppm	52	S TOP PAR	-.115+/- 2.012	ppm
24	N THC/Byron	2.282+/- .198	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	179.288+/- 28.529	DEGR AZ	54	S TOP VER	.229+/- .699	ppm
25	N MMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	79.101+/- 3.733	DEGR F	56	S GND PER	1.378+/- 1.159	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	176.434+/- 28.817	DEGR AZ	58	S GND PAR	-.398+/- 1.252	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	63.793+/- 1.443	%
31	N 74' Temp	76.274+/- 2.876	DEGR F	60	S GND VER	.209+/- .437	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	172.161+/- 41.078	W/m <sup>2</sup>
35	N HA 74'	5.321+/- 1.932	mph	64	S VA 55'	.458+/- .732	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.80+/- 1.65	181.8+/- 32.2	3.7+/- 14.3		
02	17 19 21	4.08+/- 1.58	174.7+/- 38.5	5.7+/- 18.8		
03	38 40 42	3.49+/- 1.75	166.0+/- 29.4	7.7+/- 14.8		
04	41 43 45	3.38+/- 1.65	144.0+/- 35.0	4.0+/- 17.4		
05	50 52 54	3.55+/- 1.76	178.4+/- 35.3	9.8+/- 19.8		
05	56 58 60	1.89+/- 1.28	177.6+/- 38.1	12.7+/- 23.6		

16:08:28 -- READING SPAN DRIFT ON DAS181 CO  
 16:09:35 -- END CAL. OF DAS181 CO COMPLETE GRD  
 16:32:24 -- CHECK BYRON (THC) SPAN DRIFTS  
 16:39:34 -- TURNING DFF ALL RADARS  
 16:43:11 -- TURNING DFF NDX SPANS  
 16:48:24 -- BEGIN READING NDX ZERO DRIFTS  
 16:51:24 -- END READING TECO ZERO DRIFTS  
 16:51:42 -- END READING BYRON SPAN DRIFTS  
 16:51:57 -- END ALL HOUSTON DATA  
 16:52:14 -- VACUUM CLEANERS FOR ECDLYZERS WERE OFF MDST DF TODAY.  
 Average for 15 minute period ending at 16:15:00  
 Traffic Data  
 Total Traffic = 2434 vehicles averaging 57.7 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	80	59.0	71	55.2	88	57.4	45	56.7	27	48.8
Cat2	127	62.1	196	57.8	147	58.0	83	59.8	26	48.5
Cat3	9	61.5	38	62.6	21	58.4	8	58.2	2	46.2
Cat4	16	65.8	15	63.4	6	55.0	8	59.2	0	0
Cat5	6	67.4	8	64.2	2	55.1	2	66.2	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	59.9	55	57.0	53	56.4	76	56.4	33	44.3
Cat2	161	61.6	253	57.6	216	56.9	150	58.0	81	46.0
Cat3	14	61.9	50	57.9	57	57.1	10	61.7	4	44.9
Cat4	13	62.3	29	59.1	31	59.4	4	57.4	0	0
Cat5	3	62.7	13	59.6	16	59.3	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
56.3	609	25.0	57.7	1440	59.2	58.8	213	8.8	60.7	122	5.0	61.4	50	2.1

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	3.920+/- 1.348	mph	37	N VA 102'	.251+/- .584	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	2.716+/- 1.137	mph
13	N TOP PAR	.049+/- 1.321	mph	39	N VA 74'	.093+/- .563	mph
14	N Dasibi O3	.016+/- .003	ppm	40	S BOT PAR	-.062+/- 1.178	mph
15	N TDP VER	.193+/- .672	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.226+/- .398	mph
17	N BOT PER	3.018+/- 1.339	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-.284+/- 1.158	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.235+/- .658	mph	50	S TOP PER	3.045+/- 1.269	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	4.689+/- .971	mph	52	S TOP PAR	.371+/- 1.473	mph
24	N THC/Byron	2.333+/- .199	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	175.837+/- 12.669	DEGR AZ	54	S TDP VER	.214+/- .494	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	76.932+/- 3.120	DEGR F	56	S GND PER	1.042+/- .875	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	170.815+/- 14.954	DEGR AZ	58	S GND PAR	.040+/- .745	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	65.527+/- 1.173	%
31	N 74' Temp	74.431+/- 2.834	DEGR F	60	S GND VER	.217+/- .329	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	73.665+/- 6.374	W/m**2
35	N HA 74'	5.007+/- 1.557	mph	64	S VA 55'	.434+/- .498	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.20+/- 1.32	179.9+/- 18.5	4.1+/- 12.8
02	17 19 21	3.34+/- 1.29	174.6+/- 24.2	5.5+/- 17.3
03	38 40 42	2.97+/- 1.19	179.7+/- 20.5	5.8+/- 9.6
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0
05	50 52 54	3.42+/- 1.34	185.2+/- 24.5	6.0+/- 12.2
06	56 58 60	1.30+/- .93	194.6+/- 30.6	17.3+/- 23.2

Average for 15 minute period ending at 16:30:00

Traffic Data  
 Total Traffic = 2563 vehicles averaging 57.1 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	83	58.7	65	53.2	105	56.5	63	57.4	43	45.8
Cat2	135	61.2	199	56.4	165	57.7	82	58.8	47	47.7
Cat3	14	62.6	39	61.1	31	56.5	10	61.5	4	44.3
Cat4	17	64.6	22	61.5	6	60.6	2	57.5	2	40.9
Cat5	14	69.2	12	64.4	3	58.2	1	****	0	0

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	81	60.8	56	57.0	49	58.6	69	56.2	47	45.0
Cat2	181	60.6	246	57.5	233	56.7	147	57.2	91	45.2
Cat3	14	64.1	34	59.6	31	55.0	15	55.0	4	41.5
Cat4	6	65.1	31	60.4	36	59.3	1	59.8	1	41.8
Cat5	2	63.2	11	68.9	13	60.7	0	0	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
55.7	661	25.8	56.9	1526	59.5	58.3	196	7.6	60.6	124	4.8	65.9	56	2.2

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.109+/- 1.609	mph	37	N VA 102'	.299+/- .653	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BOT PER	3.021+/- 1.044	mph
13	N TOP PAR	.125+/- 1.089	mph	39	N VA 74'	.181+/- .806	mph
14	N Dasibi O3	.014+/- .002	ppm	40	S BOT PAR	.019+/- .976	mph
15	N TOP VER	.239+/- .816	mph	41	N GND PER	*****+/-*****	mph
16	N NDX/TECO	*****+/-*****	ppm	42	S BOT VER	.073+/- .435	mph
17	N BOT PER	3.239+/- 1.471	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-.137+/- 1.134	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BOT VER	.296+/- .659	mph	50	S TOP PER	3.626+/- 1.362	mph
22	N ND/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.117+/- 1.147	mph	52	S TDP PAR	.089+/- 1.273	mph
24	N THC/Byron	2.522+/- .243	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	175.831+/- 12.168	DEGR AZ	54	S TDP VER	.029+/- .617	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	77.818+/- 1.970	DEGR F	56	S GND PER	1.389+/- 1.087	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm



29	N WV 74'	174.743+/-	14.426	DEGR AZ	58	S GND PAR	- .285+/-	.939	mph
30	N CO/Byron	*****+/-*****		ppm	59	N Rel Hum	66.846+/-	.989	%
31	N 74' Temp	75.239+/-	2.902	DEGR F	60	S GND VER	.230+/-	.327	mph
32	N CO2/Byron	*****+/-*****		ppm	61	N Solar Rad	67.443+/-	3.888	W/m <sup>2</sup>
35	N HA 74'	5.022+/-	1.536	mph	64	S VA 55'	.271+/-	.718	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.37+/- 1.52	182.7+/- 19.7	5.7+/- 14.8		
02	17 19 21	3.54+/- 1.38	176.8+/- 22.8	7.2+/- 15.6		
03	38 40 42	3.18+/- 1.14	181.9+/- 13.9	2.4+/- 8.2		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	3.80+/- 1.35	183.5+/- 19.3	2.5+/- 14.2		
06	56 58 60	1.70+/- 1.16	179.7+/- 30.4	16.7+/- 22.4		

Average for 15 minute period ending at 16:45:00  
 Traffic Data  
 Total Traffic : 100 vehicles averaging 43.9 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	35	45.0
Cat2	****	****	****	****	****	****	****	****	61	43.8
Cat3	****	****	****	****	****	****	****	****	3	38.6
Cat4	****	****	****	****	****	****	****	****	1	30.5
Cat5	****	****	****	****	****	****	****	****	0	0

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
45.0	35	35.0	43.8	61	61.0	38.6	3	3.0	30.5	1	1.0	0	0	0

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TDP PER	4.616+/- 1.610	mph	37	N VA 102'	.232+/- .515	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	3.062+/- 1.109	mph
13	N TOP PAR	-.519+/- 1.455	mph	39	N VA 74'	.035+/- .837	mph
14	N Dasibi O3	.018+/- .012	ppm	40	S BDT PAR	-.303+/- .940	mph
15	N TOP VER	.037+/- 1.016	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	.125+/- .455	mph
17	N BDT PER	3.425+/- 1.602	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	-.837+/- 1.261	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	-.219+/- .848	mph	50	S TDP PER	3.354+/- 1.353	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	5.816+/- 1.232	mph	52	S TDP PAR	-.359+/- 1.028	mph
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	168.691+/- 12.062	DEGR AZ	54	S TDP VER	.079+/- .623	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	77.245+/- 2.073	DEGR F	56	S GND PER	1.554+/- 1.036	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	166.583+/- 13.337	DEGR AZ	58	S GND PAR	-.267+/- .752	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	67.269+/- .442	%
31	N 74' Temp	74.952+/- 2.604	DEGR F	60	S GND VER	.111+/- .441	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	65.672+/- 4.850	W/m <sup>2</sup>
35	N HA 74'	5.684+/- 1.857	mph	64	S VA 55'	.353+/- .666	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	4.99+/- 1.54	174.3+/- 17.9	2.8+/- 14.6		
02	17 19 21	3.91+/- 1.44	185.6+/- 25.8	5.5+/- 16.6		
03	38 40 42	3.24+/- 1.15	176.8+/- 14.6	3.9+/- 10.5		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	3.57+/- 1.38	176.0+/- 17.0	3.5+/- 12.3		
06	56 58 60	1.79+/- 1.08	179.0+/- 25.3	9.9+/- 22.0		

Average for 15 minute period ending at 17:00:00

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	*****+/-*****	mph	37	N VA 102'	*****+/-*****	mph
12	N Dasibi CO	*****+/-*****	ppm	38	S BDT PER	*****+/-*****	mph
13	N TOP PAR	*****+/-*****	mph	39	N VA 74'	*****+/-*****	mph
14	N Dasibi O3	*****+/-*****	ppm	40	S BDT PAR	*****+/-*****	mph
15	N TOP VER	*****+/-*****	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BDT VER	*****+/-*****	mph
17	N BDT PER	*****+/-*****	mph	43	N GND PAR	*****+/-*****	mph
19	N BDT PAR	*****+/-*****	mph	45	N GND VER	*****+/-*****	mph
20	N ND2/TECO	*****+/-*****	ppm	49	N Ecolyzer-1	*****+/-*****	ppm
21	N BDT VER	*****+/-*****	mph	50	S TDP PER	*****+/-*****	mph
22	N NO/TECO	*****+/-*****	ppm	51	N Ecolyzer-2	*****+/-*****	ppm
23	N HA 102'	*****+/-*****	mph	52	S TDP PAR	*****+/-*****	ppm
24	N THC/Byron	*****+/-*****	ppm	53	N Ecolyzer-3	*****+/-*****	ppm
25	N WV 102'	*****+/-*****	DEGR AZ	54	S TDP VER	*****+/-*****	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N Ecolyzer-4	*****+/-*****	ppm
27	N Gnd Temp	*****+/-*****	DEGR F	56	S GND PER	*****+/-*****	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N Ecolyzer-5	*****+/-*****	ppm
29	N WV 74'	*****+/-*****	DEGR AZ	58	S GND PAR	*****+/-*****	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	*****+/-*****	%
31	N 74' Temp	*****+/-*****	DEGR F	60	S GND VER	*****+/-*****	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	*****+/-*****	W/m <sup>2</sup>
35	N HA 74'	*****+/-*****	mph	64	S VA 55'	*****+/-*****	mph

UVW Vector Calculations						
UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)		
01	11 13 15	*****+/-*****	.6+/- 7.1	*****+/-*****		
02	17 19 21	*****+/-*****	15.4+/- 12.8	181.0+/-*****		
03	38 40 42	*****+/-*****	-6.1+/- 5.5	334.9+/-*****		
04	41 43 45	.00+/- .00	.0+/- .0	.0+/- .0		
05	50 52 54	*****+/-*****	-1.1+/- 8.2	248.1+/-*****		
06	56 58 60	*****+/-*****	3.3+/- 22.6	970.4+/-*****		

Average for hourly period ending at 17:00:00

Traffic Data

Total Traffic = 0 vehicles averaging .0 mph

Westbound Traffic

Cat	Radar 1		Radar 3		Radar 5		Radar 7		Radar 9	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Eastbound Traffic

Cat	Radar 2		Radar 4		Radar 6		Radar 8		Radar 10	
	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.	No.	Spd.
Cat1	****	****	****	****	****	****	****	****	****	****
Cat2	****	****	****	****	****	****	****	****	****	****
Cat3	****	****	****	****	****	****	****	****	****	****
Cat4	****	****	****	****	****	****	****	****	****	****
Cat5	****	****	****	****	****	****	****	****	****	****

Vehicle Classification Summary

Spd.	CAT 1 Total	%	Spd.	CAT 2 Total	%	Spd.	CAT 3 Total	%	Spd.	CAT 4 Total	%	Spd.	CAT 5 Total	%
.0	0	****	.0	0	****	.0	0	****	.0	0	****	.0	0	****

Regular Channels

Channel	Instrument	Value	Units	Channel	Instrument	Value	Units
11	N TOP PER	4.402+/- 1.597	mph	37	N VA 102'	.259+/- .609	mph
12	N Desib: CO	*****+/-*****	ppm	38	S BOT PER	2.879+/- 1.097	mph
13	N TOP PAR	-.117+/- 1.352	mph	39	N VA 74'	.064+/- .800	mph
14	N Desib: O3	.016+/- .007	ppm	40	S BOT PAR	-.073+/- 1.034	ppm
15	N TOP VER	.102+/- .877	mph	41	N GND PER	*****+/-*****	mph
16	N NOX/TECO	*****+/-*****	ppm	42	S BOT VER	.138+/- .449	mph
17	N BOT PER	3.355+/- 1.542	mph	43	N GND PAR	*****+/-*****	mph
19	N BOT PAR	-.436+/- 1.233	mph	45	N GND VER	*****+/-*****	mph
20	N NO2/TECO	*****+/-*****	ppm	49	N EcoLyzer-1	*****+/-*****	ppm
21	N BOT VER	.217+/- .738	mph	50	S TOP PER	3.457+/- 1.349	mph
22	N NO/TECO	*****+/-*****	ppm	51	N EcoLyzer-2	*****+/-*****	ppm
23	N HA 102'	5.450+/- 1.312	mph	52	S TDP PAR	.020+/- 1.296	mph
24	N THC/Byron	*****+/-*****	ppm	53	N EcoLyzer-3	*****+/-*****	ppm
25	N WV 102'	173.853+/- 12.316	DEGR AZ	54	S TDP VER	.105+/- .581	mph
26	N NMHC/Byro	*****+/-*****	ppm	55	N EcoLyzer-4	*****+/-*****	ppm
27	N Gnd Temp	77.401+/- 2.432	DEGR F	56	S GND PER	1.358+/- 1.005	mph
28	N CH4/Byron	*****+/-*****	ppm	57	N EcoLyzer-5	*****+/-*****	ppm
29	N WV 74'	171.160+/- 14.189	DEGR AZ	58	S GND PAR	-.185+/- .850	mph
30	N CO/Byron	*****+/-*****	ppm	59	N Rel Hum	66.548+/- 1.112	%
31	N 74' Temp	74.775+/- 2.849	DEGR F	60	S GND VER	.177+/- .433	mph
32	N CO2/Byron	*****+/-*****	ppm	61	N Solar Rad	67.620+/- 7.032	W/m**2
35	N HA 74'	5.477+/- 1.738	mph	64	S VA 55'	.368+/- .659	mph

UVW Vector Calculations

UVW	Channels	Vector Sum (mph)	Bearing Deg AZ	Elevation Angle (Deg)
01	11 13 15	4.70+/- 1.55	179.1+/- 18.4	3.3+/- 13.8
02	17 19 21	3.72+/- 1.46	172.2+/- 24.0	5.4+/- 16.1
03	38 40 42	3.17+/- 1.16	180.1+/- 16.3	3.9+/- 9.5
04	41 43 45	*****+/-*****	*****+/-*****	*****+/-*****
05	50 52 54	3.73+/- 1.37	181.3+/- 20.2	3.7+/- 12.6
06	56 58 60	1.64+/- 1.07	183.3+/- 28.6	13.7+/- 22.2

Daily Hourly Average Maximums for each Active Channel		
Channel	Time	Value
01	16:00:00	931 vehicles
02	15:00:00	1137 vehicles
03	16:00:00	1296 vehicles
04	16:00:00	1374 vehicles
05	16:00:00	1196 vehicles
06	16:00:00	1387 vehicles
07	10:00:00	740 vehicles
08	16:00:00	867 vehicles
08	16:00:00	338 vehicles
10	16:00:00	437 vehicles
11	13:00:00	5.405 mph
12	09:00:00	2.971 ppm
13	14:00:00	1.764 mph
14	14:00:00	.019 ppm
15	09:00:00	.288 mph
16	15:00:00	.212 ppm
17	13:00:00	4.220 mph
19	14:00:00	1.272 mph
20	15:00:00	.035 ppm
21	09:00:00	.358 mph
22	15:00:00	.177 ppm
23	14:00:00	6.684 mph
24	16:00:00	2.282 ppm
25	14:00:00	199.530 DEGR A2
26	00:00:00	.000 ppm
27	14:00:00	79.746 DEGR F
28	00:00:00	.000 ppm
29	14:00:00	196.963 DEGR A2
30	00:00:00	.000 ppm
31	16:00:00	76.274 DEGR F
32	00:00:00	.000 ppm
35	13:00:00	6.527 mph
37	10:00:00	.364 mph
38	10:00:00	3.782 mph
39	11:00:00	.188 mph
40	12:00:00	.393 mph
41	13:00:00	2.304 mph
42	13:00:00	.382 mph
43	00:00:00	.009 ppm
45	16:00:00	.202 mph
48	10:00:00	3.585 ppm
50	10:00:00	4.004 mph
51	10:00:00	3.735 ppm
52	12:00:00	1.054 mph
53	10:00:00	3.468 ppm
54	13:00:00	.401 mph
55	10:00:00	3.528 ppm
56	10:00:00	2.166 mph
57	10:00:00	2.943 ppm
58	12:00:00	.271 mph
59	09:00:00	85.882 %
60	14:00:00	.287 mph
61	14:00:00	398.708 W/m**2
64	11:00:00	.559 mph

NOTE: All times in the maximums are ending times for the interval