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16. Abstract This report documents the methodology used to develop the Nueces County gridded mobile source emissions inventories. Included in the report are an overview of the emission estimation methodology involving a Graphic Information System application; the methods used to estimate the seasonally adjusted vehicle miles of travel and associated operating speeds; the estimation of the emission rates using the EPA's MOBILE5a program; and an outline of the method used to develop the emission estimates using the MOBILE5a emission rates. The appendices present the MOBILE5a set-ups; the emission rates developed for the emissions inventory; and the SUMALL output tables showing VMT, VHT, and average operational speeds cross-classified by vehicle and roadway type, and pounds of VOC, CO, and NOx cross-classified by vehicle and roadway type. These emission inventories were developed in support of the Coastal Oxidant Assessment for Southeast Texas Project (COAST); a large-scale study of ozone formation being conducted by the Texas Natural Resource Conservation Commission (TNRCC).			
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**DEVELOPMENT OF GRIDDED MOBILE SOURCE EMISSION ESTIMATES
FOR NUECES COUNTY
FY93, FY96, FY99, AND FY07
IN SUPPORT OF THE COAST PROJECT**

by

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Research Report 1375-8
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Research Study Title: Develop Air Quality Data for Federal Submission

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TEXAS TRANSPORTATION INSTITUTE
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College Station, Texas 77843-3135

IMPLEMENTATION STATEMENT

This report documents the procedures used by the Texas Transportation Institute in developing Nueces County Mobile Source Emissions Inventories for FY93, FY96, FY99, and FY07. The emissions inventories are submitted in support of the Coastal Oxidant Assessment for Southeast Texas (COAST) Project. COAST is a large-scale study conducted by the Texas Natural Resource Conservation Commission to model the formation of ozone in the Houston-Galveston and Beaumont-Port Arthur air quality nonattainment areas.

The software used for these procedures is described in Research Report 1279-9, "Texas Mobile Source Emissions Software Version 2.0: User's Manual." No further implementation of the materials in this report is needed.

The purpose of this report is primarily to document procedures supporting State Implementation Plan submittals produced for and in cooperation with the Texas Natural Resource Conservation Commission. The State Implementation Plan-related materials being submitted to the Environmental Protection Agency by the Texas Natural Resource Conservation Commission are prepared in English units. Because this report is primarily to document procedures supporting State Implementation Plan submittals, English units have been used to maintain consistency.

DISCLAIMER

The contents of this report reflect the views of the authors who are responsible for the opinions, findings, and conclusions presented herein. The contents do not necessarily reflect the official views or policies of the Texas Department of Transportation. This report does not constitute a standard, specification, or regulation. Additionally, this report is not intended for construction, bidding, or permit purposes. George B. Dresser, Ph.D., is Principal Investigator for this project.

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SUMMARY

EMISSION ESTIMATION METHODOLOGY

For the development of the emissions inventories, a Graphic Information System (GIS) application was utilized in lieu of a transportation network and traffic assignment. The GIS application was performed for the Nueces County region for the 1993 base year and for the years 1996, 1999, and 2007 to develop a gridded mobile source emissions inventory. A network-based traffic assignment procedure was not used because Nueces County does not have a current network or transportation model; thus the GIS application was developed and applied to determine the Nueces County emissions inventory. Summer VMT, speeds, centerline miles by functional classification, and mobile source emissions estimates were developed for each year and used in the GIS methodology. The following briefly describes the methodology used in developing the estimates. The GIS methodology encompassed the entire roadway network of Nueces County; therefore, the emission estimation methodology provides complete coverage for Nueces County.

A series of programs developed by the Texas Transportation Institute to facilitate the estimation of mobile source emissions was used for the emissions inventory analyses. Two programs used in computing the mobile source emissions for the Nueces County analyses are:

POLFAC5B The POLFAC5B program obtains emission rates using MOBILE5a.

IMPSUMA The IMPSUMA program applies the emission rates (obtained from POLFAC5B) and VMT mixes to the time-of-day VMT and speed estimates to estimate the emissions.

It is important to note that the normal sequence of events is to run POLFAC5B to determine the emission rates and then run PREPIN to apply the assignment to a network in order to determine the VMT and speeds on the assigned network links. IMPSUMA is then applied to combine the emissions rates (obtained from POLFAC5B) and the assigned network (from PREPIN) to determine the gridded mobile source emissions. A methodology developed by TTI using a GIS application and FORTRAN programming replicated the general methodology of PREPIN. The FORTRAN programming output was in a format readable by IMPSUMA. Thus, the general sequence of the methodology order is (1) run POLFAC5B, (2) apply the GIS application (accomplishes tasks normally performed of PREPIN program), and (3) run IMPSUMA to develop the gridded mobile source emissions.

The POLFAC5B program was applied to develop the seasonal emission factors for each of the analysis years. The low and the high summer event day temperatures for the subject 24-hour period were estimated and input to the POLFAC5B application of the MOBILE5a model. Since the emission rates are for a 24-hour period and high and low temperatures were input into the MOBILE5a set-ups, a separate 24-hour application of MOBILE5a was not necessary to develop the diurnal emission rates.

A GIS methodology was developed to construct the emissions inventory of Nueces County

because a current Nueces County network and traffic assignment were not available. A GIS application using the TxDOT Nueces County map as the base map was used as a foundation for a network. The GIS map was gridded into 4-kilometer squares, and for each grid squared the centerline miles was estimated for the following four functional classification groupings:

- (1) Urban freeways, expressways, and principal arterials;
- (2) Rural freeways, principal arterials, minor arterials, and major collectors;
- (3) Urban minor arterials, collectors, and locals; and
- (4) Rural minor collectors and locals.

The control total VMT was broken into the same four functional classification groupings. The distribution of VMT control total by functional classification to a grid was based on the ratio of centerline miles by functional classification grouping in a grid to the total centerline miles for that functional classification grouping in the HPMS data. A table of equals was developed to convert the TxDOT county map road names to HPMS functional classifications and then to the four functional classification groupings. A FORTRAN program took the information from the GIS application and converted it into a format usable by IMPSUMA in order to develop the gridded mobile source emissions.

Finally, IMPSUMA was applied to estimate the emissions for each 24-hour time period. The 24-hour diurnal estimates were computed using the 24-hour emission rates. The 24-hour county emission estimates for each subject year are the final emission estimates. The emissions were gridded into 4-kilometer grids by 24-hour time periods for each year.

I. INTRODUCTION

This report documents the mobile source emissions estimation methodology used for the development of the FY93, FY96, FY99, and FY07 emissions inventories for Nueces County. The remainder of this chapter provides an overview of the emission estimation methodology and the GIS assignment application methodology used in the analyses. Chapter II describes the methods used to estimate the seasonally adjusted vehicle miles of travel (VMT) and associated operating speeds. Chapter III discusses the estimation of the emission rates using the EPA's MOBILE5a program. Chapter IV briefly outlines the method used to develop the emission estimates (inventories) using the MOBILE5a emission rates, the GIS methodology, and IMPSUMA.

OVERVIEW OF EMISSION ESTIMATION METHODOLOGY

To develop of the emissions inventories, a method of applying Graphic Information System (GIS), FORTRAN programming, and traditional travel model techniques was applied for the Nueces County region for the 1993 base year and for the years 1996, 1999, and 2007. A network-based traffic assignment procedure was not used, because Nueces County does not have a current network; thus a GIS application was developed and used to determine the Nueces County emissions inventory. The following describes the methodology used in developing the estimates. The GIS methodology encompassed the entire roadway network of Nueces County. Therefore, the emissions estimation methodology provides complete coverage for Nueces County.

A series of programs developed by the Texas Transportation Institute to facilitate the estimation of mobile source emissions was used for the emissions inventory analyses. The programs/methods used for computing the mobile source emissions for the Nueces County analyses are:

POLFAC5B

The POLFAC5B program is used to apply the EPA's MOBILE5a program to obtain the emission FACTORS (rates). The MOBILE5a emission factors are obtained for eight vehicle types and 63 speeds (i.e., 3 mph through 65 mph) for each vehicle type. Hence, there are 504 factors (i.e., $8 \times 63 = 504$) for each pollution type for each county. Three pollution types were computed: VOC, CO and NOx. Hence, for a given county there are 1,512 emission factors. These emission factors are output to an ASCII file for subsequent input to the IMPSUMA program. POLFAC5B is applied for each time-of-day time period being used. These time-of-day emission factors are applied using the IMPSUMA program to time-of-day VMT estimates by link.

GIS METHODOLOGY

The TxDOT Nueces County road map was plotted using GIS. A table of equals was developed to convert TxDOT county map roads to HPMS functional classifications and then finally to one of four roadway groupings (Urban 1, Urban 2, Rural 1, and Rural 2). Using GIS 4-kilometer grids were placed over the roadway network. VMT

was obtained from HPMS. One-day, Monday-Thursday VMT for a 24-hour period and a single speed estimate were developed for the each year's summer (August) season. The proportion of each type (centerline miles) of roadway groupings per grid was determined. VMT was assigned to each grid by a direct proportion of total VMT of that roadway grouping to the proportion of centerline miles of that roadway grouping within each grid. The VMT was determined using HPMS data and was forecasted using a per capita methodology developed growth rate based on population statistics from official State Comptroller estimates. Speeds were developed from HPMS data that were grouped into the four roadway classifications. The weighted average of each HPMS functional classification seasonally adjusted VMT was used to develop the final speed terms for the four roadway groupings. A FORTRAN program synthesized the GIS grid, VMT, and speed estimates and produced output that was acceptable to IMPSUMA as input. The GIS and FORTRAN programming output and the emission rates from POLFAC5B were subsequently input into the IMPSUMA program to develop the gridded mobile source emissions.

IMPSUMA The IMPSUMA program applies the emission rates (obtained from POLFAC5B) and VMT mixes to the 24-hour VMT and speed estimates to estimate the gridded mobile source emissions. The basic inputs to IMPSUMA are:

1. Data specifying the number of counties in the region and their names.
2. Names of the roadway types used in the study. These roadway types are used to summarize the emission results.
3. VMT mix by county and roadway type.
4. MOBILE5a emission factors developed using POLFAC5B by county.
5. Specification of the units for reporting emissions (grams, pounds, or tons).
6. Abbreviated assignment results by link input for the subject time period. PREPIN (which was replaced by the GIS methodology for the development Nueces County gridded mobile source emission inventory) analysis allows the user to estimate the VMT and speed on each link by time period. For each link, the following information is input to IMPSUMA: county number, roadway type number, VMT on link, operational speed estimate, and link distance.

Using these input data, the VMT for each link is stratified by the eight

vehicle types; and the MOBILE5a emission factors are applied to estimate the mobile source emissions for that link. The emissions for Nueces County are reported by both roadway type and vehicle type (i.e., cross-classified by roadway type and vehicle type).

It is important to note that the normal sequence of events is to run POLFAC5B to determine the emission rates and then to run PREPIN to apply the assignment to a network to determine the VMT and speeds on the assigned network. IMPSUMA then applies the emission rates (obtained from POLFAC5B) and VMT mixes to VMT and speed estimates to determine the gridded emissions. A methodology developed by TTI used a GIS application and FORTRAN programming to replicate the general methodology of PREPIN.

The POLFAC5B program was applied to develop the seasonal emission factors for each of the application years. The low and the high summer event day temperatures for the subject 24-hour period were estimated and input to the POLFAC5B application of the MOBILE5a model. Because the emission rates are for a 24-hour period and high and low temperatures were input into the MOBILE5a set-ups, a separate 24-hour application of MOBILE5a was not necessary to develop the diurnal emission rates.

IMPSUMA was applied to estimate the 24-hour emissions. The 24-hour diurnal estimates were computed using the 24-hour emission rates. The county emission estimates for each 24-hour time period are the final emission estimates. The emissions were gridded into 4-kilometer grids.

II. ESTIMATION OF VMT AND SPEEDS

The VMT and speed estimates for Nueces County were developed using methods other than the traditionally used PREPIN program. VMT growth factors were estimated using population projections from the official State Comptroller estimates and VMT per capita calculations. Operating speeds were developed from weighted averages (seasonally adjusted VMT) of HPMS speed data.

DEVELOPMENT OF FUTURE YEARS VMT

Control total VMT was developed and adjusted for each year. Control total VMT was based on 1993 HPMS VMT. Future year VMT was developed based on population projections from the State Comptroller's official estimates. The population projections were transformed to a VMT per capita methodology. The observed year population and VMT for the years 1990, 1991, 1992, and 1993 were used to develop the VMT per capita projections. The calculated VMT per capita from each year was summed and then averaged to get a VMT per capita average for future years. VMT was developed by multiplying population by VMT per capita yielding VMT. These projections were based on non-local VMT only. Growth rates were developed from these projections to encompass total VMT projections. Table 1 below shows the VMT projections for Nueces County (non-local only). In summary, growth rates were developed from VMT per capita projections (non-local only) to estimate control total VMT for each future year.

**Table 1
Population, Non-local VMT, and VMT per Capita Projections by Year**

VMT Source	Year	Population	VMT	VMT/Capita
Observed	1990	291,145	4,502,184	15.46
Observed	1991	296,691	4,528,348	15.26
Observed	1992	301,994	4,754,043	15.74
Observed	1993	306,287	4,618,241	15.08
VMT/Capita	1996	317,559	4,886,192 ¹	15.39 ²
VMT/Capita	1999	328,949	5,061,447 ¹	15.39 ²
VMT/Capita	2007	362,828	5,582,733 ¹	15.39 ²

¹Future year VMT projection

²VMT/Capita based on average VMT/Capita of years 1990, 1991, 1992, and 1993. This value was used to develop a growth rate utilized to predict the control total VMT.

SEASONAL ADJUSTMENT FACTORS

Because travel on the highway system varies somewhat by season, VMT must be adjusted to account for the seasonal variations. The seasonal adjustment factors are applied to the 24-hour VMT estimates. One set of seasonal adjustments was employed in the Nueces County emissions inventory analyses, Summer Seasonal Adjustment Factors. The following is the seasonal adjustment factor used in the Nueces emissions inventory analyses:

<u>Season</u>	<u>Factor</u>
August (Monday-Thursday)	1.058

This factor was estimated using data from *1993 Annual Report Permanent Automatic Traffic Recorders* (published by TxDOT).

HPMS VMT

The 1993 HPMS VMT AADT is 7,300,603. The 1993 HPMS VMT for August (Monday-Thursday (seasonally adjusted)) is 7,724,039. The growth factors were applied to the seasonally adjusted 1993 VMT to develop the future years control total VMT.

CONTROL TOTAL VMT

The future year control total VMT was developed using the growth factors from the VMT per capita projections and the 1993 seasonally adjusted VMT. The growth factors developed from non-local VMT per capita, Table 1, are shown in Table 2. The future years VMT control totals are shown in Table 3.

Table 2
Yearly Growth Factors

Year	Growth Factor
1996	1.058
1999	1.096
2007	1.209

Table 3
VMT Control Totals by Year

Year	VMT
1993	7,724,039
1996	8,172,186
1999	8,465,303
2007	9,337,156

Contact for VMT and speed data is George B. Dresser, Texas Transportation Institute, Texas A&M University system, College Station, Texas 77843-3135, (409) 845-3326. The 1990-1993 HPMS VMT estimates were obtained from TxDOT. Future year VMT control totals were developed in accordance with the methodology described above.

NETWORK GRIDS

A GIS application using the TxDOT Nueces County map as the base map was used as a foundation for a network. The GIS map was gridded into 4-kilometer squares, and for each grid square the centerline miles was estimated for the following four functional classification groupings:

- (1) Urban freeways, expressways, and principal arterials;
- (2) Rural freeways, principal arterials, minor arterials, and major collectors;
- (3) Urban minor arterials, collectors, and locals; and
- (4) Rural minor collectors and locals.

The VMT control total was broken into the same four functional classification groupings. The distribution of the VMT control total by functional classification to a grid was based on the ratio of the centerline miles by functional classification grouping in a grid to the total centerline miles for that functional classification grouping in the HPMS data.

A table of equals was developed to convert TxDOT County Map road names to HPMS functional classifications and then to the four functional classification groupings. Table 4 shows the final table of equals.

**Table 4
Roadway Table of Equals**

TxDOT County Map Name (Level Number, Name)	HPMS Functional Classification (Name, FC)	Functional Classification Grouping
2, Highway Boulevard 3, Frontage Road/Ramp 5, Highway in City 11, Bridge on Hwy in City	Urban Interstate, FC 11 Urban Other Fwy/Expressway, FC 12 Urban Other Principal Arterial, FC 14	Urban 1
8, Highway Rural 9, Bridges on Boulevard Hwys 12, Bridge on Rural Hwys	Rural Interstate, FC 1 Rural Other Principal Arterial, FC 2 Rural Minor Arterial, FC 6 Rural Major Collector, FC 7	Rural 1
15, City Street Boulevard 18, City Streets	Urban Minor Arterials, FC 16 Urban Collectors, FC 17 Urban Locals, FC 19	Urban 2
20, County Road Bridges 21, Rural Subdivision Streets 22, Earth County Roads 23, All Weather County Roads 24, Paved County Roads 26, Rural Subdivision Boulevard	Rural Minor Collectors, FC 8 Rural Locals, FC 9	Rural 2

SPEED METHODOLOGY

Speed data by facility type were obtained from 1993 HPMS. Table 4 shows the HPMS functional classifications of interest. The speed data were broken down into the four functional classification groupings (Urban 1, Rural 1, Urban 2, and Rural 2). The weighted averages (by seasonally adjusted VMT) of each HPMS functional classification was used to develop the final speed for each of the four functional classification groupings. The speeds developed were used for all of the analysis years (e.g. 1993, 1996, 1999, and 2007). The speed data used in the Nueces County emission inventory analysis are shown in Table 5.

Table 5
Nueces County Speeds by Functional Classification Grouping

Functional Classification Grouping	Speed (MPH)
Urban 1	41.33
Rural 1	51.08
Urban 2	24.44
Rural 2	35.13

DATA FORMATTING

A FORTRAN program was used to synthesize the developed VMT and speed data with the GIS gridded map of Nueces County. The program's output converted the synthesized data into a format readable by IMPSUMA.

III. ESTIMATION OF EMISSION RATES USING MOBILE5a

The MOBILE5a program was used to compute the mobile source emission rates (or factors). MOBILE5a was used directly for computing the 24-hour emission rates including diurnals. MOBILE5a was applied using POLFAC5B to estimate the emission factors by speed for a 24-hour time period.

POLFAC5B is one of a series of programs developed by the Texas Transportation Institute to facilitate the computation of mobile source emissions. POLFAC5B was used to apply MOBILE5a to obtain emission factors. The emission factors were obtained for eight vehicle types and 63 speeds (i.e., 3 mph through 65 mph) for each vehicle type. Hence, there are 504 factors (i.e., $8 \times 63 = 504$) for each pollution type for each county. Seven pollution types were computed: total VOC, CO, NOX, exhaust VOC (EXHS), running loss VOC (RNLS), resting loss VOC (RSTL), crankcase VOC (CC), and hot soak VOC (HTSK). These emission factors are output to an ASCII file for subsequent input to IMPSUMA. POLFAC5B was applied for a 24-hour time-period for each analysis year. The emission factors from POLFAC5B were applied using IMPSUMA to estimate emissions.

The MOBILE5a set-up data were input to the POLFAC5B program. TNRCC provided the MOBILE5a set-ups. The 1993, 1996, 1999, and 2007 MOBILE5a set-ups were prepared by changing the subject year.

REID VAPOR PRESSURE

The Reid Vapor Pressure (RVP) for all analyses was 8.1 psi.

VEHICLE REGISTRATION DISTRIBUTIONS

The MOBILE5a set-ups used 1994 local registration data for the vehicle age distributions.

VMT MIX

The estimated distribution of vehicle miles by vehicle type (i.e., the vehicle mix) used the default values in MOBILE5a. The diesel fractions for each analysis year were modified based on the default options internal to MOBILE5a.

ESTIMATION OF DAILY TEMPERATURES

The temperature input to MOBILE5a was provided by TNRCC. The low temperature was 76.0 degrees Fahrenheit, the high temperature for each year was 95.3 degrees Fahrenheit, and the ambient temperature was 88.9 degrees Fahrenheit. Diurnal emission rates were computed for each 24-hour time period based on the low and high temperature.

MOBILE5a SET-UPS

Appendix A shows the MOBILE5a set-ups used to develop the emissions inventories for FY93, FY96, FY99, and FY07. The four MOBILE5a set-ups were prepared for each of the four emission inventory years by changing the target year and the diesel fraction.

EMISSION RATES

The emission rates are presented in Appendix B. The 24-hour resting loss, crank case, hot soak, and diurnal emission rates for a given application (i.e., a given year and season) are stratified by vehicle type. The emission factors used in computing the emissions produced on individual links in the highway network for a given application are by the 24-hour time periods, the eight vehicle types, and 63 speeds (i.e., 3 mph through 65 mph).

IV. EMISSION ESTIMATES

The 24-hour emission estimates are developed using the 24-hour emission rates (discussed in Chapter III) and the seasonally adjusted control total VMT and speed estimates (discussed in Chapter II). The following provides discussion of the method used to develop the 24-hour emission estimates.

ESTIMATION OF 24-HOUR EMISSIONS

For a given analysis year, the mobile source emissions for each 24-hour time-period for each year were computed using IMPSUMA. IMPSUMA uses emission factors obtained from POLFAC5B, the default VMT mixes, and the VMT/speed estimates to compute the emissions by county.

The basic inputs for the applications of IMPSUMA were:

1. Data specifying the number of counties in the region and their names (i.e., one county named Nueces).
2. Names of the road types used in the study. These road types are used to summarize the emission results. The roadway types used in the analyses are the four functional classification groupings previously discussed.
3. VMT mix by county used in the MOBILE5a set-ups.
4. Emission factors from POLFAC5B.
5. Specification of the units for reporting emissions (grams, pounds, or tons).
6. Link records providing the estimated VMT and speeds. For each link record, the following information must be provided: county number, road type number, VMT estimate, operational speed estimate, and center line miles. These data were prepared using the GIS estimation methodology and a FORTRAN program which made the results of the GIS methodology readable by IMPSUMA.

The emission rates produced using MOBILE5a are stratified by eight vehicle types. To apply the emission rates, VMT for a link record is disaggregated by the eight vehicle types applying the user-supplied VMT mixes. The software was designed to allow the user to input the VMT mix data by county and by roadway type within a county. IMPSUMA uses these data to disaggregate the VMT for each link by the eight vehicle types based on the user-supplied estimate of the VMT mix for that link's county and roadway type.

The emission estimates are computed for each link by multiplying the appropriate emission factors corresponding to the link's roadway type and the link's estimated speed. For non-integer speed estimates, the emissions factors are computed by interpolating between the emission factors for the integer speeds on either side of the subject speed. The interpolation is performed using the reciprocals of the corresponding speeds rather than the speeds themselves. The emission results are accumulated for each county by vehicle type and roadway type.

SUMMARY OF 24-HOUR EMISSIONS BY EMISSION TYPE AND YEAR

Table 6 shows 24-hour emission totals by pollutant type for each year.

Table 6
24-Hour Emissions by Pollutant Type and Year

Year	VOC (Pounds)	CO (Pounds)	NOX (Pounds)
1993	43933.1	331187.6	49852.8
1996	39442.6	285960.3	48694.0
1999	36282.5	254556.9	45475.2
2007	32385.6	233569.3	41797.2

APPENDIX A

NUECES COUNTY MOBILE5A SET-UPS FOR FY93, FY96, FY99, AND FY07 COAST PROJECT

Table A-1
Nueces County MOBILE5a Set-Up for 1993

1	PROMPT	
1	CORPUS CHRISTI	- 1993 Emission estimate 24 hr. analysis.
1	TAMFLG	- Default: Tampering Rates
1	SPDFLG	- User input: one speed for all vehicle types
1	VMFLAG	- User input: default Vmt mix for all scenario
3	MYMFRG	- Default: AMAR, User input: Reg. Distributions
1	NEWFLG	- Default Basic exhaust rates,new fmvcp, new evap. tst
1	IMFLAG	- No I/M program
1	ALHFLG	- No additional correction factors
1	ATPFLG	- No ATP, PRESSURE AND PURGE TEST
5	RLFLAG	- Zero-out refueling emissions
2	LOCFLG	- User input: one LAP record for all scenarios
1	TEMFLG	- MOBILE5A calculates exhaust temperatures
4	OUTFMT	- 112-column descriptive format
4	PRTFLG	- Print HC, CO and NOX emission factors
1	IDLFLG	- No idle emissions calculated or printed
3	NMHFLG	- Print HC = Volatile organic compounds (VOC)
1	HCFLAG	- Print Total HC (overridden by prtflg)
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	Feb 16, 94.LDGV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	Vehicle 11-20
	.005 .004 .004 .003 .016	Registrations 21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDGT1.MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.023 .119 .084 .081 .074 .060 .055 .042 .063 .071	.LDGT2.MY AGES 1-10
	.061 .034 .047 .028 .021 .036 .026 .020 .014 .009	11-20
	.007 .006 .004 .003 .011	21-25
	.012 .078 .063 .057 .063 .052 .051 .033 .056 .056	.HDGV..MY AGES 1-10
	.054 .034 .059 .059 .049 .050 .034 .021 .015 .022	11-20
	.017 .015 .008 .010 .034	21-25
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	.LDDV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	11-20
	.005 .004 .004 .003 .016	21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDDT..MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.001 .003 .013 .035 .037 .050 .052 .065 .083 .091	.HDDV..MY AGES 1-10
	.077 .043 .065 .097 .046 .068 .041 .028 .016 .018	11-20
	.024 .019 .007 .008 .013	21-25
	.016 .070 .045 .041 .034 .042 .033 .059 .078 .088	.MC...MY AGES 1-10
	.057 .436 .000 .000 .000 .000 .000 .000 .000 .000	11-20
	.000 .000 .000 .000 .000	21-25
	C.CHRISTI	B 76.0 95.3 08.1 08.1 92
	1 93 xxxx	88.9 20.6 27.3 20.6 7
		LAP rec:SCNME,MNTMP,MXTMP,RVP1,RVP2,RVP2SY
		RGN,CY,SPD,AMBTMP,PCCN,PCHC,PCCC

Table A-2
Nueces County MOBILE5a Set-Up for 1996

1	PROMPT	
1	CORPUS CHRISTI	- 1996 Emission estimate 24 hr. analysis.
1	TAMFLG	- Default: Tampering Rates
1	SPDFLG	- User input: one speed for all vehicle types
1	VMFLAG	- User input: default Vmt mix for all scenario
3	MYMFRG	- Default: AMAR, User input: Reg. Distributions
1	NEWFLG	- Default Basic ehaust rates,new fmvcp, new evap. tst
1	IMFLAG	- No I/M program
1	ALHFLG	- No additional correction factors
1	ATPFLG	- No ATP, PRESSURE AND PURGE TEST
5	RLFLAG	- Zero-out refueling emissions
2	LOCFLG	- User input: one LAP record for all scenarios
1	TEMFLG	- MOBILE5A calculates exhaust temperatures
4	OUTFMT	- 112-column descriptive format
4	PRTFLG	- Print HC, CO and NOX emission factors
1	IDLFLG	- No idle emissions calculated or printed
3	NMHFLG	- Print HC = Volatile organic compounds (VOC)
1	HCFLAG	- Print Total HC (overridden by prtflg)
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	Feb 16, 94.LDGV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	Vehicle 11-20
	.005 .004 .004 .003 .016	Registrations 21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDGT1.MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.023 .119 .084 .081 .074 .060 .055 .042 .063 .071	.LDGT2.MY AGES 1-10
	.061 .034 .047 .028 .021 .036 .026 .020 .014 .009	11-20
	.007 .006 .004 .003 .011	21-25
	.012 .078 .063 .057 .063 .052 .051 .033 .056 .056	.HDGV..MY AGES 1-10
	.054 .034 .059 .059 .049 .050 .034 .021 .015 .022	11-20
	.017 .015 .008 .010 .034	21-25
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	.LDDV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	11-20
	.005 .004 .004 .003 .016	21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDDT..MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.001 .003 .013 .035 .037 .050 .052 .065 .083 .091	.HDDV..MY AGES 1-10
	.077 .043 .065 .097 .046 .068 .041 .028 .016 .018	11-20
	.024 .019 .007 .008 .013	21-25
	.016 .070 .045 .041 .034 .042 .033 .059 .078 .088	.MC....MY AGES 1-10
	.057 .436 .000 .000 .000 .000 .000 .000 .000 .000	11-20
	.000 .000 .000 .000 .000	21-25
	C.CHRISTI	B 76.0 95.3 08.1 08.1 92
	1 96 xxxx	88.9 20.6 27.3 20.6 7
		LAP rec:SCNME,MNTMP,MXTMP,RVP1,RVP2,RVP2SY
		RGN,CY,SPD,AMBTMP,PCCN,PCHC,PCCC

**Table A-3
Nueces County MOBILE5a Set-Up for 1999**

1	PROMPT	
1	CORPUS CHRISTI	- 1999 Emission estimate 24 hr. analysis.
1	TAMFLG	- Default: Tampering Rates
1	SPDFLG	- User input: one speed for all vehicle types
1	VMFLAG	- User input: default Vmt mix for all scenario
3	MYMFRG	- Default: AMAR, User input: Reg. Distributions
1	NEWFLG	- Default Basic exhaust rates,new fmvcp, new evap. tst
1	IMFLAG	- No I/M program
1	ALHFLG	- No additional correction factors
1	ATPFLG	- No ATP, PRESSURE AND PURGE TEST
5	RLFLAG	- Zero-out refueling emissions
2	LOCFLG	- User input: one LAP record for all scenarios
1	TEMFLG	- MOBILE5A calculates exhaust temperatures
4	OUTFMT	- 112-column descriptive format
4	PRTFLG	- Print HC, CO and NOX emission factors
1	IDLFLG	- No idle emissions calculated or printed
3	NMHFLG	- Print HC = Volatile organic compounds (VOC)
1	HCFLAG	- Print Total HC (overridden by prtflg)
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	Feb 16, 94.LDGV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	Vehicle 11-20
	.005 .004 .004 .003 .016	Registrations 21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDGT1.MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.023 .119 .084 .081 .074 .060 .055 .042 .063 .071	.LDGT2.MY AGES 1-10
	.061 .034 .047 .028 .021 .036 .026 .020 .014 .009	11-20
	.007 .006 .004 .003 .011	21-25
	.012 .078 .063 .057 .063 .052 .051 .033 .056 .056	.HDGV..MY AGES 1-10
	.054 .034 .059 .059 .049 .050 .034 .021 .015 .022	11-20
	.017 .015 .008 .010 .034	21-25
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	.LDDV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	11-20
	.005 .004 .004 .003 .016	21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDDT..MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.001 .003 .013 .035 .037 .050 .052 .065 .083 .091	.HDDV..MY AGES 1-10
	.077 .043 .065 .097 .046 .068 .041 .028 .016 .018	11-20
	.024 .019 .007 .008 .013	21-25
	.016 .070 .045 .041 .034 .042 .033 .059 .078 .088	.MC...MY AGES 1-10
	.057 .436 .000 .000 .000 .000 .000 .000 .000 .000	11-20
	.000 .000 .000 .000 .000	21-25
	C.CHRISTI	B 76.0 95.3 08.1 08.1 92
	1 99 xxxx	88.9 20.6 27.3 20.6 7
		LAP rec:SCNME,MNTMP,MXTMP,RVP1,RVP2,RVP2SY
		RGN,CY,SPD,AMBTMP,PCCN,PCHC,PCCC

Table A-4
Nueces County MOBILE5a Set-Up for 2007

1	PROMPT	
1	CORPUS CHRISTI	- 2007 Emission estimate 24 hr. analysis.
1	TAMFLG	- Default: Tampering Rates
1	SPDFLG	- User input: one speed for all vehicle types
1	VMFLAG	- User input: default Vmt mix for all scenario
3	MYMFRG	- Default: AMAR, User input: Reg. Distributions
1	NEWFLG	- Default Basic exhaust rates,new fmvcp, new evap. tst
1	IMFLAG	- No I/M program
1	ALHFLG	- No additional correction factors
1	ATPFLG	- No ATP, PRESSURE AND PURGE TEST
5	RLFLAG	- Zero-out refueling emissions
2	LOCFLG	- User input: one LAP record for all scenarios
1	TEMFLG	- MOBILE5A calculates exhaust temperatures
4	OUTFMT	- 112-column descriptive format
4	PRTFLG	- Print HC, CO and NOX emission factors
1	IDLFLG	- No idle emissions calculated or printed
3	NMHFLG	- Print HC = Volatile organic compounds (VOC)
1	HCFLAG	- Print Total HC (overridden by prtflg)
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	Feb 16, 94.LDGV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	Vehicle 11-20
	.005 .004 .004 .003 .016	Registrations 21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDGT1.MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.023 .119 .084 .081 .074 .060 .055 .042 .063 .071	.LDGT2.MY AGES 1-10
	.061 .034 .047 .028 .021 .036 .026 .020 .014 .009	11-20
	.007 .006 .004 .003 .011	21-25
	.012 .078 .063 .057 .063 .052 .051 .033 .056 .056	.HDGV..MY AGES 1-10
	.054 .034 .059 .059 .049 .050 .034 .021 .015 .022	11-20
	.017 .015 .008 .010 .034	21-25
	.026 .088 .076 .075 .076 .072 .074 .065 .068 .068	.LDDV..MY AGES 1-10
	.062 .042 .039 .035 .025 .028 .022 .015 .009 .005	11-20
	.005 .004 .004 .003 .016	21-25
	.017 .081 .070 .077 .077 .075 .073 .064 .070 .066	.LDDT..MY AGES 1-10
	.054 .037 .043 .039 .023 .028 .025 .018 .013 .007	11-20
	.007 .005 .005 .005 .021	21-25
	.001 .003 .013 .035 .037 .050 .052 .065 .083 .091	.HDDV..MY AGES 1-10
	.077 .043 .065 .097 .046 .068 .041 .028 .016 .018	11-20
	.024 .019 .007 .008 .013	21-25
	.016 .070 .045 .041 .034 .042 .033 .059 .078 .088	.MC...MY AGES 1-10
	.057 .436 .000 .000 .000 .000 .000 .000 .000 .000	11-20
	.000 .000 .000 .000 .000	21-25
	C.CHRISTI	B 76.0 95.3 08.1 08.1 92
	1 07 xxxx 88.9 20.6 27.3 20.6 7	LAP rec:SCNME,MNTMP,MXTMP,RVP1,RVP2,RVP2SY RGN,CY,SPD,AMBTMP,PCCN,PCHC,PCCC

APPENDIX B

NUECES COUNTY EMISSION RATES FOR FY93, FY96, FY99, AND FY07 COAST PROJECT

**Table B-1
Nueces County 1993 VOC Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HGGV	LDDV	LDDT	HDDV	MC
3	18.93358	20.41040	24.84701	35.60510	1.612938	2.336234	6.582037	19.49814
4	13.34242	14.54283	17.54373	26.93176	1.531331	2.218032	6.249018	16.99225
5	10.33185	11.34710	13.57149	22.27159	1.455133	2.107664	5.938070	15.13628
6	8.467907	9.351927	11.09431	19.27668	1.383944	2.004551	5.647564	13.73539
7	7.207535	7.995902	9.413216	17.12746	1.317397	1.908162	5.375998	12.65972
8	6.466520	7.160882	8.381449	15.79170	1.255153	1.818006	5.121996	11.82078
9	5.895654	6.521393	7.593399	14.66957	1.196903	1.733635	4.884291	11.15705
10	5.427837	6.005765	6.960126	13.68143	1.142361	1.654635	4.661719	10.62495
11	5.035186	5.580695	6.440208	12.80364	1.091265	1.580625	4.453206	10.19307
12	4.698960	5.223591	6.005465	12.01862	1.043372	1.511255	4.257765	9.838366
13	4.406109	4.918599	5.636089	11.31280	.9984586	1.446201	4.074485	9.543696
14	4.147264	4.654284	5.317786	10.67534	.9563202	1.385166	3.902527	9.296124
15	3.915534	4.422203	5.039996	10.09740	.9167663	1.327876	3.741117	9.085751
16	3.705738	4.215998	4.794773	9.571651	.8796223	1.274075	3.589540	8.904928
17	3.513914	4.030808	4.576040	9.091927	.8447263	1.223530	3.447138	8.747686
18	3.336981	3.862867	4.379079	8.652973	.8119289	1.176026	3.313298	8.609333
19	3.172516	3.709226	4.200193	8.250280	.7810918	1.131360	3.187459	8.486153
20	3.032759	3.588099	4.058087	7.893490	.7520875	1.089349	3.069100	8.375208
21	2.928003	3.472308	3.922319	7.585971	.7247978	1.049822	2.957736	8.274166
22	2.831843	3.365808	3.798030	7.304456	.6991132	1.012619	2.852923	8.181185
23	2.743136	3.267335	3.683629	7.046336	.6749325	.9775952	2.754248	8.094820
24	2.660940	3.175874	3.577824	6.809313	.6521618	.9446132	2.661326	8.013952
25	2.584471	3.090607	3.479566	6.591359	.6307141	.9135478	2.573802	7.937717
26	2.513079	3.010868	3.387993	6.390671	.6105088	.8842818	2.491349	7.865481
27	2.446216	2.936121	3.302398	6.205649	.5914711	.8567067	2.413660	7.796779
28	2.383420	2.865926	3.222197	6.034869	.5735314	.8307223	2.340452	7.731290
29	2.324300	2.799916	3.146904	5.877057	.5566255	.8062353	2.271463	7.668809
30	2.268517	2.737790	3.076114	5.731072	.5406936	.7831589	2.206449	7.609217
31	2.215783	2.679289	3.009484	5.595899	.5256801	.7614127	2.145182	7.552469
32	2.165847	2.624189	2.946720	5.470622	.5115333	.7409223	2.087452	7.498562
33	2.118486	2.572295	2.887568	5.354418	.4982055	.7216178	2.033064	7.447531
34	2.073508	2.523432	2.831804	5.246550	.4856522	.7034351	1.981837	7.399433
35	2.030738	2.477439	2.779229	5.146353	.4738320	.6863142	1.933601	7.354328
36	1.990022	2.434166	2.729662	5.053226	.4627064	.6701996	1.888201	7.312280
37	1.951219	2.393471	2.682935	4.966632	.4522399	.6550395	1.845489	7.273339
38	1.914201	2.355220	2.638892	4.886080	.4423992	.6407861	1.805332	7.237553
39	1.878849	2.319279	2.597383	4.811131	.4331537	.6273945	1.767603	7.204932
40	1.845055	2.285517	2.558264	4.741387	.4244748	.6148238	1.732186	7.175467
41	1.812716	2.253806	2.521394	4.676489	.4163361	.6030353	1.698974	7.149115
42	1.781734	2.224008	2.486631	4.616113	.4087128	.5919936	1.667865	7.125794
43	1.752016	2.195988	2.453833	4.559965	.4015824	.5816656	1.638767	7.105391
44	1.723472	2.169600	2.422856	4.507781	.3949237	.5720209	1.611595	7.087720
45	1.696010	2.144688	2.393548	4.459323	.3887174	.5630316	1.586268	7.072564
46	1.669541	2.121086	2.365748	4.414376	.3829455	.5546713	1.562714	7.059626
47	1.643973	2.098606	2.339285	4.372747	.3775914	.5469162	1.540866	7.048536
48	1.619577	2.076942	2.313745	4.333874	.3726400	.5397444	1.520660	7.038861
49	1.612666	2.069604	2.304239	4.294863	.3680772	.5331355	1.502040	7.038861
50	1.606158	2.062694	2.295291	4.259377	.3638904	.5270712	1.484955	7.038861
51	1.600024	2.056181	2.286859	4.227234	.3600679	.5215346	1.469356	7.038861
52	1.594234	2.050034	2.278903	4.198277	.3565993	.5165105	1.455201	7.038861
53	1.588763	2.044227	2.271388	4.172368	.3534749	.5119852	1.442452	7.038861
54	1.583588	2.038733	2.264282	4.149383	.3506865	.5079463	1.431073	7.038861
55	1.578688	2.033532	2.257556	4.129218	.3482264	.5043828	1.421033	7.038861
56	1.630696	2.114541	2.349288	4.111786	.3460878	.5012854	1.412307	7.162361
57	1.682942	2.195803	2.441348	4.097010	.3442653	.4986456	1.404869	7.285862
58	1.735410	2.277300	2.533713	4.084831	.3427539	.4964564	1.398701	7.409362
59	1.788085	2.359018	2.626365	4.075202	.3415495	.4947119	1.393787	7.532862
60	1.840953	2.440941	2.719284	4.068090	.3406490	.4934076	1.390112	7.656363
61	1.894003	2.523056	2.812452	4.063476	.3400500	.4925400	1.387668	7.779864
62	1.947221	2.605351	2.905855	4.061350	.3397509	.4921067	1.386447	7.903365
63	2.000599	2.687816	2.999476	4.061717	.3397509	.4921067	1.386447	8.026865
64	2.054126	2.770438	3.093303	4.064597	.3400500	.4925400	1.387668	8.150366
65	2.107793	2.853210	3.187323	4.070019	.3406490	.4934076	1.390112	8.273867

**Table B-2
Nueces County 1993 CO Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HDBGV	LDDV	LDDT	HDDV	MC
3	142.8795	177.9656	218.5561	324.5292	5.311588	6.193985	43.10905	188.3164
4	108.9906	136.1815	167.3006	296.5083	4.895228	5.708457	39.72985	150.1862
5	88.24585	110.1986	134.8431	271.5035	4.519724	5.270571	36.68225	122.6656
6	74.25726	92.55117	112.5469	249.1550	4.180625	4.875139	33.93011	102.3575
7	64.21194	79.85544	96.39746	229.1497	3.874012	4.517590	31.44163	87.06611
8	56.66860	70.33661	84.24319	211.2147	3.596427	4.193890	29.18874	75.33688
9	50.80988	62.96996	74.81983	195.1123	3.344813	3.900476	27.14663	66.18520
10	46.13712	57.12199	67.33540	180.6344	3.116470	3.634199	25.29339	58.93039
11	42.32885	52.38019	61.26936	167.5992	2.909004	3.392268	23.60958	53.09285
12	39.16861	48.46478	56.26648	155.8471	2.720296	3.172211	22.07803	48.32867
13	36.50547	45.17958	52.07685	145.2382	2.548464	2.971833	20.68343	44.38714
14	34.23106	42.38316	48.52008	135.6496	2.391835	2.789183	19.41222	41.08274
15	32.26564	39.97120	45.46317	126.9731	2.248921	2.622528	18.25233	38.27642
16	30.54931	37.86527	42.80623	119.1133	2.118400	2.470322	17.19301	35.86268
17	29.03630	36.00552	40.47305	111.9862	1.999087	2.331190	16.22467	33.76071
18	27.69110	34.34571	38.40472	105.5173	1.889932	2.203900	15.33876	31.90806
19	26.48582	32.84985	36.55523	99.64116	1.789991	2.087357	14.52764	30.25630
20	25.38593	31.76181	35.20123	94.29945	1.698424	1.980578	13.78447	28.76761
21	24.37798	30.65093	33.88443	89.44065	1.614477	1.882684	13.10315	27.41248
22	23.45769	29.62410	32.68048	85.01906	1.537474	1.792890	12.47820	26.16794
23	22.61324	28.66940	31.57327	80.99402	1.466811	1.710488	11.90470	25.01609
24	21.83498	27.77761	30.54988	77.32948	1.401946	1.634846	11.37824	23.94314
25	21.11502	26.94167	29.59996	73.99335	1.342389	1.565396	10.89488	22.93854
26	20.44680	26.15620	28.71519	70.95709	1.287704	1.501626	10.45105	21.99424
27	19.82493	25.41712	27.88886	68.19528	1.237497	1.443079	10.04357	21.10428
28	19.24487	24.72129	27.11555	65.68531	1.191414	1.389340	9.669561	20.26423
29	18.70281	24.06631	26.39083	63.40707	1.149137	1.340039	9.326437	19.47087
30	18.19551	23.45027	25.71109	61.34265	1.110378	1.294842	9.011873	18.72187
31	17.72019	22.87162	25.07330	59.47615	1.074882	1.253449	8.723783	18.01555
32	17.27442	22.32902	24.47492	57.79344	1.042416	1.215589	8.460285	17.35073
33	16.85608	21.82126	23.91376	56.28204	1.012772	1.181020	8.219694	16.72644
34	16.46328	21.34718	23.38787	54.93086	.9857631	1.149525	8.000492	16.14196
35	16.09433	20.90569	22.89552	53.73021	.9612227	1.120908	7.801320	15.59652
36	15.74770	20.49564	22.43511	52.67154	.9390006	1.094994	7.620965	15.08940
37	15.42197	20.11590	22.00512	51.74745	.9189632	1.071628	7.458340	14.61981
38	15.11587	19.76525	21.60410	50.95156	.9009918	1.050671	7.312484	14.18675
39	14.82816	19.44247	21.23061	50.27839	.8849809	1.032000	7.182540	13.78914
40	14.55771	19.14624	20.88322	49.72339	.8708382	1.015508	7.067756	13.42564
41	14.30343	18.87516	20.56052	49.28281	.8584822	1.001099	6.967475	13.09465
42	14.06425	18.62768	20.26097	48.95372	.8478435	.9886931	6.881130	12.79443
43	13.83913	18.40212	19.98305	48.73392	.8388619	.9782194	6.808235	12.52284
44	13.62702	18.19658	19.72505	48.62196	.8314874	.9696198	6.748384	12.27743
45	13.42684	18.00881	19.48523	48.61710	.8256790	.9628465	6.701242	12.05540
46	13.23746	17.83625	19.26155	48.71931	.8214048	.9578623	6.666553	11.85353
47	13.05766	17.67586	19.05191	48.92924	.8186414	.9546397	6.644124	11.66809
48	12.88612	17.52408	18.85384	49.24833	.8173734	.9531611	6.633835	11.49491
49	12.88612	17.52408	18.85384	49.67866	.8175942	.9534186	6.635625	11.49491
50	12.88612	17.52408	18.85384	50.22311	.8193048	.9554133	6.649508	11.49491
51	12.88612	17.52408	18.85384	50.88536	.8225147	.9591563	6.675559	11.49491
52	12.88612	17.52408	18.85384	51.66990	.8272411	.9646679	6.713920	11.49491
53	12.88612	17.52408	18.85384	52.58208	.8335103	.9719787	6.764802	11.49491
54	12.88612	17.52408	18.85384	53.62822	.8413571	.9811290	6.828486	11.49491
55	12.88612	17.52408	18.85384	54.81563	.8508248	.9921696	6.905325	11.49491
56	15.10037	21.01239	22.75749	56.15274	.8619661	1.005162	6.995751	14.26322
57	17.31462	24.50070	26.66115	57.64915	.8748446	1.020180	7.100271	17.03153
58	19.52888	27.98901	30.56480	59.31578	.8895326	1.037308	7.219481	19.79984
59	21.74313	31.47733	34.46846	61.16501	.9061148	1.056645	7.354063	22.56815
60	23.95737	34.96564	38.37212	63.21082	.9246877	1.078303	7.504802	25.33646
61	26.17163	38.45395	42.27578	65.46891	.9453603	1.102410	7.672580	28.10477
62	28.38587	41.94225	46.17944	67.95701	.9682556	1.129109	7.858400	30.87308
63	30.60012	45.43056	50.08310	70.69505	.9935119	1.158561	8.063381	33.64138
64	32.81437	48.91888	53.98675	73.70535	1.021284	1.190947	8.288782	36.40969
65	35.02862	52.40719	57.89040	77.01309	1.051745	1.226468	8.536004	39.17801

**Table B-3
Nueces County 1993 NOX Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC
3	2.332307	2.689774	2.718852	4.436402	2.832760	3.297880	33.62926	.8166953
4	2.149248	2.475484	2.518042	4.482310	2.713451	3.158982	32.21288	.7811566
5	2.037835	2.346066	2.397643	4.528219	2.602862	3.030234	30.90001	.7516654
6	1.962507	2.259563	2.317763	4.574127	2.500326	2.910864	29.68276	.7277576
7	1.908004	2.197944	2.261266	4.620035	2.405244	2.800169	28.55398	.7089862
8	1.866675	2.152150	2.219556	4.665944	2.317065	2.697512	27.50716	.6949201
9	1.834253	2.117114	2.187830	4.711852	2.235291	2.602311	26.53637	.6851445
10	1.808167	2.089765	2.163188	4.757760	2.159467	2.514037	25.63622	.6792612
11	1.786768	2.068123	2.143762	4.803668	2.089180	2.432209	24.80180	.6768876
12	1.768949	2.050845	2.128295	4.849576	2.024052	2.356388	24.02864	.6776581
13	1.753934	2.036984	2.115902	4.895485	1.963741	2.286175	23.31266	.6812230
14	1.741163	2.025846	2.105941	4.941393	1.907935	2.221205	22.65015	.6872487
15	1.730217	2.016909	2.097930	4.987301	1.856349	2.161149	22.03774	.6954183
16	1.720781	2.009768	2.091501	5.033209	1.808724	2.105704	21.47235	.7054309
17	1.712606	2.004104	2.086366	5.079117	1.764825	2.054597	20.95121	.7170019
18	1.705497	1.999659	2.082294	5.125025	1.724439	2.007580	20.47176	.7298630
19	1.699295	1.996225	2.079101	5.170933	1.687370	1.964426	20.03171	.7437624
20	1.699974	1.999448	2.082626	5.216843	1.653446	1.924931	19.62897	.7584643
21	1.709776	2.018483	2.101791	5.262751	1.622505	1.888910	19.26166	.7737489
22	1.718841	2.036180	2.119540	5.308659	1.594406	1.856197	18.92808	.7894133
23	1.727265	2.052683	2.136033	5.354566	1.569020	1.826643	18.62671	.8052707
24	1.735131	2.068108	2.151405	5.400475	1.546233	1.800114	18.35618	.8211501
25	1.742506	2.082552	2.165768	5.446383	1.525941	1.776490	18.11529	.8368976
26	1.749447	2.096099	2.179218	5.492290	1.508056	1.755669	17.90297	.8523743
27	1.756004	2.108817	2.191839	5.538199	1.492498	1.737556	17.71827	.8674592
28	1.762217	2.120767	2.203702	5.584107	1.479200	1.722075	17.56040	.8820463
29	1.768124	2.132003	2.214871	5.630015	1.468103	1.709156	17.42867	.8960466
30	1.773757	2.142572	2.225406	5.675924	1.459161	1.698745	17.32250	.9093869
31	1.779147	2.152519	2.235358	5.721832	1.452333	1.690797	17.24145	.9220102
32	1.784320	2.161885	2.244778	5.767741	1.447592	1.685277	17.18516	.9338767
33	1.789302	2.170712	2.253713	5.813648	1.444916	1.682162	17.15340	.9449615
34	1.794116	2.179036	2.262208	5.859556	1.444295	1.681439	17.14603	.9552574
35	1.798785	2.186897	2.270307	5.905465	1.445726	1.683104	17.16301	.9647723
36	1.803331	2.194335	2.278054	5.951374	1.449214	1.687165	17.20442	.9735308
37	1.807777	2.201387	2.285492	5.997282	1.454775	1.693640	17.27044	.9815737
38	1.812143	2.208095	2.292665	6.043190	1.462433	1.702555	17.36135	.989586
39	1.816452	2.214500	2.299615	6.089098	1.472220	1.713949	17.47754	.9957591
40	1.820727	2.220647	2.306390	6.135006	1.484179	1.727871	17.61950	1.002064
41	1.824988	2.226580	2.313035	6.180915	1.498360	1.744381	17.78786	1.007980
42	1.829261	2.232347	2.319596	6.226822	1.514827	1.763552	17.98335	1.013630
43	1.833569	2.237998	2.326123	6.272731	1.533651	1.785467	18.20682	1.019151
44	1.837936	2.243585	2.332666	6.318639	1.554916	1.810223	18.45926	1.024699
45	1.842389	2.249162	2.339279	6.364548	1.578715	1.837930	18.74180	1.030444
46	1.846953	2.254787	2.346015	6.410456	1.605157	1.868713	19.05570	1.036574
47	1.851658	2.260521	2.352930	6.456363	1.634360	1.902711	19.40239	1.043294
48	1.856531	2.266425	2.360083	6.502272	1.666460	1.940081	19.78346	1.050822
49	1.932083	2.359375	2.460299	6.548180	1.701604	1.980996	20.20068	1.085039
50	2.007634	2.452325	2.560515	6.594088	1.739959	2.025649	20.65601	1.119256
51	2.083185	2.545275	2.660731	6.639996	1.781706	2.074251	21.15162	1.153474
52	2.158737	2.638225	2.760947	6.685905	1.827048	2.127037	21.68989	1.187691
53	2.234288	2.731175	2.861163	6.731812	1.876206	2.184266	22.27347	1.221908
54	2.309840	2.824125	2.961380	6.777721	1.929424	2.246222	22.90525	1.256126
55	2.385391	2.917075	3.061595	6.823629	1.986971	2.313219	23.58843	1.290343
56	2.460942	3.010025	3.161811	6.869538	2.049142	2.385598	24.32650	1.324561
57	2.536494	3.102975	3.262027	6.915446	2.116262	2.463738	25.12331	1.358778
58	2.612045	3.195925	3.362244	6.961354	2.188686	2.548054	25.98310	1.392995
59	2.687596	3.288875	3.462460	7.007262	2.266805	2.638999	26.91049	1.427213
60	2.763148	3.381825	3.562675	7.053170	2.351048	2.737075	27.91059	1.461430
61	2.838699	3.474775	3.662891	7.099079	2.441888	2.842829	28.98900	1.495647
62	2.914250	3.567725	3.763108	7.144986	2.539841	2.956866	30.15185	1.529865
63	2.989802	3.660675	3.863324	7.190895	2.645477	3.079847	31.40592	1.564082
64	3.065353	3.753625	3.963540	7.236803	2.759422	3.212501	32.75863	1.598300
65	3.140904	3.846575	4.063756	7.282711	2.882366	3.355631	34.21816	1.632517

Table B-4
Nueces County 1993 EXHS Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	10.02864	12.26652	14.64594	15.69283	1.612938	2.336234	6.582037	14.19021
4	7.695791	9.527174	11.35369	14.32511	1.531331	2.218032	6.249018	11.68432
5	6.269795	7.813627	9.269868	13.09832	1.455133	2.107664	5.938070	9.828344
6	5.307901	6.642085	7.835719	11.99649	1.383944	2.004551	5.647564	8.427460
7	4.616252	5.793801	6.793880	11.00560	1.317397	1.908162	5.375998	7.351790
8	4.095937	5.153958	6.007157	10.11333	1.255153	1.818006	5.121996	6.512846
9	3.691012	4.656077	5.395151	9.308834	1.196903	1.733635	4.884291	5.849115
10	3.367398	4.258887	4.907509	8.582575	1.142361	1.654635	4.661719	5.317019
11	3.103139	3.935406	4.511106	7.926123	1.091265	1.580625	4.453206	4.885136
12	2.883448	3.667253	4.183286	7.332042	1.043372	1.511255	4.257765	4.530432
13	2.698010	3.441493	3.908076	6.793756	.9984586	1.446201	4.074485	4.235764
14	2.539411	3.248771	3.673911	6.305448	.9563202	1.385166	3.902527	3.988191
15	2.402193	3.082171	3.472238	5.861959	.9167663	1.327876	3.741117	3.777817
16	2.282251	2.936483	3.296615	5.458717	.8796223	1.274075	3.589540	3.596996
17	2.176445	2.807722	3.142114	5.091660	.8447263	1.223530	3.447138	3.439755
18	2.082333	2.692803	3.004914	4.757175	.8119289	1.176026	3.313298	3.301400
19	1.997996	2.589314	2.882023	4.452046	.7810918	1.131360	3.187459	3.178219
20	1.916146	2.506775	2.784215	4.173412	.7520875	1.089349	3.069100	3.067275
21	1.837435	2.413794	2.677262	3.918715	.7247978	1.049822	2.957736	2.966233
22	1.765627	2.328297	2.579416	3.685676	.6991132	1.012619	2.852923	2.873252
23	1.699798	2.249258	2.489398	3.472254	.6749325	.9775952	2.754248	2.888887
24	1.639190	2.175857	2.406175	3.276625	.6521618	.9446132	2.661326	2.706018
25	1.583177	2.107440	2.328910	3.097155	.6307141	.9135478	2.573802	2.629784
26	1.531236	2.043484	2.256927	2.932378	.6105088	.8842818	2.491349	2.557548
27	1.482933	1.983569	2.189673	2.780982	.5914711	.8567067	2.413660	2.488846
28	1.437901	1.927356	2.126700	2.641783	.5735314	.8307223	2.340452	2.423357
29	1.395830	1.874569	2.067637	2.513721	.5566255	.8062353	2.271463	2.360877
30	1.356454	1.824980	2.012178	2.395840	.5406936	.7831589	2.206449	2.301283
31	1.319547	1.778396	1.960066	2.287282	.5256801	.7614127	2.145182	2.244536
32	1.284910	1.734655	1.911085	2.187270	.5115333	.7409223	2.087452	2.190629
33	1.252373	1.693610	1.865047	2.095105	.4982055	.7216178	2.033064	2.139598
34	1.221780	1.655130	1.821787	2.010159	.4856522	.7034351	1.981837	2.091500
35	1.192999	1.619096	1.781158	1.931861	.4738320	.6863142	1.933601	2.046394
36	1.165905	1.585392	1.743026	1.859698	.4627064	.6701996	1.888201	2.004347
37	1.140389	1.553910	1.707265	1.793204	.4522399	.6550395	1.845489	1.965406
38	1.116348	1.524541	1.673754	1.731960	.4423992	.6407861	1.805332	1.929620
39	1.093688	1.497177	1.642379	1.675587	.4331537	.6273945	1.767603	1.896998
40	1.072322	1.471712	1.613024	1.623743	.4244748	.6148238	1.732186	1.867533
41	1.052167	1.448037	1.585575	1.576116	.4163361	.6030353	1.698974	1.841182
42	1.033141	1.426033	1.559916	1.532429	.4087128	.5919936	1.667865	1.817862
43	1.015167	1.405581	1.535927	1.492427	.4015824	.5816656	1.638767	1.797457
44	.9981700	1.386551	1.513482	1.455885	.3949237	.5720209	1.611595	1.779787
45	.9820720	1.368802	1.492449	1.422597	.3887174	.5630316	1.586268	1.764631
46	.9667952	1.352179	1.472684	1.392379	.3829455	.5546713	1.562714	1.751692
47	.9522580	1.336507	1.454031	1.365067	.3775914	.5469162	1.540866	1.740603
48	.9383757	1.321592	1.436322	1.340515	.3726400	.5397444	1.520660	1.730928
49	.9383757	1.321592	1.436322	1.318591	.3680772	.5331355	1.502040	1.730928
50	.9383757	1.321592	1.436322	1.299181	.3638904	.5270712	1.484955	1.730928
51	.9383757	1.321592	1.436322	1.282183	.3600679	.5215346	1.469356	1.730928
52	.9383757	1.321592	1.436322	1.267509	.3565993	.5165105	1.455201	1.730928
53	.9383757	1.321592	1.436322	1.255086	.3534749	.5119852	1.442452	1.730928
54	.9383757	1.321592	1.436322	1.244848	.3506865	.5079463	1.431073	1.730928
55	.9383757	1.321592	1.436322	1.236746	.3482264	.5043828	1.421033	1.730928
56	.9950285	1.407530	1.534428	1.230738	.3460878	.5012854	1.412307	1.854428
57	1.051681	1.493469	1.632532	1.226793	.3442653	.4986456	1.404869	1.977929
58	1.108334	1.579407	1.730638	1.224893	.3427539	.4964564	1.398701	2.101429
59	1.164987	1.665346	1.828743	1.225028	.3415495	.4947119	1.393787	2.224930
60	1.221640	1.751284	1.926848	1.227198	.3406490	.4934076	1.390112	2.348430
61	1.278292	1.837223	2.024953	1.231415	.3400500	.4925400	1.387668	2.471931
62	1.334945	1.923161	2.123057	1.237699	.3397509	.4921067	1.386447	2.595431
63	1.391598	2.009099	2.221163	1.246081	.3397509	.4921067	1.386447	2.718932
64	1.448251	2.095038	2.319267	1.256605	.3400500	.4925400	1.387668	2.842432
65	1.504904	2.180976	2.417372	1.269323	.3406490	.4934076	1.390112	2.965933

**Table B-5
Nueces County 1993 RNLs Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	8.403015	7.578279	9.566471	17.34743	.0000000	.0000000	.0000000	.0000000
4	5.144704	4.450048	5.555444	10.04180	.0000000	.0000000	.0000000	.0000000
5	3.560123	2.967869	3.667027	6.608425	.0000000	.0000000	.0000000	.0000000
6	2.658075	2.144237	2.624004	4.715345	.0000000	.0000000	.0000000	.0000000
7	2.089353	1.636495	1.984745	3.557024	.0000000	.0000000	.0000000	.0000000
8	1.868653	1.441318	1.739699	3.113530	.0000000	.0000000	.0000000	.0000000
9	1.702711	1.299711	1.563655	2.795894	.0000000	.0000000	.0000000	.0000000
10	1.558509	1.181272	1.418024	2.534008	.0000000	.0000000	.0000000	.0000000
11	1.430117	1.079683	1.294511	2.312669	.0000000	.0000000	.0000000	.0000000
12	1.313582	.9907316	1.187586	2.121741	.0000000	.0000000	.0000000	.0000000
13	1.206169	.9115010	1.093422	1.954205	.0000000	.0000000	.0000000	.0000000
14	1.105923	.8399085	1.009284	1.805049	.0000000	.0000000	.0000000	.0000000
15	1.011411	.7744264	.9331669	1.670597	.0000000	.0000000	.0000000	.0000000
16	.9215566	.7139089	.8635668	1.548091	.0000000	.0000000	.0000000	.0000000
17	.8355389	.6574801	.7993336	1.435424	.0000000	.0000000	.0000000	.0000000
18	.7527181	.6044585	.7395728	1.330956	.0000000	.0000000	.0000000	.0000000
19	.6725897	.5543060	.6835785	1.233392	.0000000	.0000000	.0000000	.0000000
20	.6146829	.5157180	.6392794	1.155235	.0000000	.0000000	.0000000	.0000000
21	.5886377	.4929090	.6104654	1.102414	.0000000	.0000000	.0000000	.0000000
22	.5642865	.4719054	.5840213	1.053938	.0000000	.0000000	.0000000	.0000000
23	.5414082	.4524715	.5596379	1.009239	.0000000	.0000000	.0000000	.0000000
24	.5198190	.4344114	.5370576	.9678459	.0000000	.0000000	.0000000	.0000000
25	.4993640	.4175601	.5160640	.9293613	.0000000	.0000000	.0000000	.0000000
26	.4799124	.4017781	.4964742	.8934500	.0000000	.0000000	.0000000	.0000000
27	.4613527	.3869466	.4781321	.8598260	.0000000	.0000000	.0000000	.0000000
28	.4435893	.3729638	.4609040	.8282442	.0000000	.0000000	.0000000	.0000000
29	.4265398	.3597420	.4446747	.7984934	.0000000	.0000000	.0000000	.0000000
30	.4101329	.3472049	.4293443	.7703904	.0000000	.0000000	.0000000	.0000000
31	.3943064	.3352863	.4148258	.7437756	.0000000	.0000000	.0000000	.0000000
32	.3790059	.3239283	.4010431	.7185098	.0000000	.0000000	.0000000	.0000000
33	.3641835	.3130799	.3879293	.6944702	.0000000	.0000000	.0000000	.0000000
34	.3497971	.3026960	.3754254	.6715486	.0000000	.0000000	.0000000	.0000000
35	.3358092	.2927371	.3634791	.6496493	.0000000	.0000000	.0000000	.0000000
36	.3221868	.2831674	.3520440	.6286870	.0000000	.0000000	.0000000	.0000000
37	.3089001	.2739557	.3410785	.6085857	.0000000	.0000000	.0000000	.0000000
38	.2959226	.2650734	.3305457	.5892774	.0000000	.0000000	.0000000	.0000000
39	.2832307	.2564954	.3204122	.5707012	.0000000	.0000000	.0000000	.0000000
40	.2708027	.2481988	.3106481	.5528022	.0000000	.0000000	.0000000	.0000000
41	.2586195	.2401631	.3012263	.5355308	.0000000	.0000000	.0000000	.0000000
42	.2466635	.2323695	.2921225	.5188420	.0000000	.0000000	.0000000	.0000000
43	.2349189	.2248012	.2833144	.5026954	.0000000	.0000000	.0000000	.0000000
44	.2233713	.2174428	.2747819	.4870542	.0000000	.0000000	.0000000	.0000000
45	.2120076	.2102803	.2665065	.4718841	.0000000	.0000000	.0000000	.0000000
46	.2008156	.2033011	.2584716	.4571550	.0000000	.0000000	.0000000	.0000000
47	.1897846	.1964933	.2506618	.4428384	.0000000	.0000000	.0000000	.0000000
48	.1792713	.1897450	.2428305	.4285174	.0000000	.0000000	.0000000	.0000000
49	.1723598	.1824060	.2333242	.4114301	.0000000	.0000000	.0000000	.0000000
50	.1658523	.1754964	.2243766	.3953534	.0000000	.0000000	.0000000	.0000000
51	.1597177	.1689831	.2159444	.3802090	.0000000	.0000000	.0000000	.0000000
52	.1539277	.1628363	.2079886	.3659257	.0000000	.0000000	.0000000	.0000000
53	.1484569	.1570287	.2004739	.3524396	.0000000	.0000000	.0000000	.0000000
54	.1432820	.1515356	.1933680	.3396923	.0000000	.0000000	.0000000	.0000000
55	.1383819	.1463345	.1866417	.3276306	.0000000	.0000000	.0000000	.0000000
56	.1337373	.1414050	.1802681	.3162062	.0000000	.0000000	.0000000	.0000000
57	.1293305	.1367283	.1742231	.3053746	.0000000	.0000000	.0000000	.0000000
58	.1251456	.1322873	.1684842	.2950957	.0000000	.0000000	.0000000	.0000000
59	.1211677	.1280663	.1630309	.2853324	.0000000	.0000000	.0000000	.0000000
60	.1173832	.1240508	.1578446	.2760505	.0000000	.0000000	.0000000	.0000000
61	.1137797	.1202277	.1529080	.2672189	.0000000	.0000000	.0000000	.0000000
62	.1103458	.1165846	.1482051	.2588089	.0000000	.0000000	.0000000	.0000000
63	.1070708	.1131105	.1437214	.2507940	.0000000	.0000000	.0000000	.0000000
64	.1039451	.1097948	.1394434	.2431497	.0000000	.0000000	.0000000	.0000000
65	.1009595	.1066281	.1353586	.2358535	.0000000	.0000000	.0000000	.0000000

**Table B-6
Nueces County 1993 RSTL, CC, HTSK, and Diurnal Emission Rates**

<u>Speed</u>	<u>LDGV</u>	<u>LDGT1</u>	<u>LDGT2</u>	<u>HDGV</u>	<u>LDDV</u>	<u>LDDT</u>	<u>HDDV</u>	<u>MC</u>
--	.0990274	.0925635	.0807628	.1192150	.0000000	.0000000	.0000000	.6726353
--	.0110549	.0192444	.0224063	.0301012	.0000000	.0000000	.0000000	.0000000
--	.2287082	.2342803	.2545255	1.872886	.0000000	.0000000	.0000000	2.851449
--	.1631398	.2195177	.2768974	.5426407	.0000000	.0000000	.0000000	1.783849

**Table B-7
Nueces County 1996 VOC Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	16.36007	17.52625	20.81276	28.30869	1.623058	2.313732	5.520254	17.48476
4	11.40354	12.28801	14.54381	21.30065	1.540939	2.196669	5.240956	15.33421
5	8.779810	9.503513	11.20329	17.54970	1.464263	2.087364	4.980169	13.74141
6	7.176596	7.796667	9.151708	15.15157	1.392627	1.985245	4.736526	12.53918
7	6.103423	6.651851	7.773919	13.43992	1.325662	1.889783	4.508768	11.61604
8	5.499809	5.973303	6.950095	12.39650	1.263028	1.800496	4.295741	10.89606
9	5.035820	5.455432	6.321890	11.52185	1.204412	1.716937	4.096381	10.32644
10	4.653510	5.036506	5.815182	10.75088	1.149529	1.638698	3.909713	9.869796
11	4.330683	4.689707	5.397133	10.06507	1.098112	1.565401	3.734836	9.499155
12	4.052479	4.397007	5.045640	9.450687	1.049918	1.496699	3.570923	9.194749
13	3.808578	4.145857	4.745291	8.897148	1.004723	1.432272	3.417209	8.941866
14	3.591590	3.927248	4.485017	8.396046	.9623201	1.371825	3.272990	8.729399
15	3.396085	3.734552	4.256676	7.940550	.9225182	1.315086	3.137618	8.548856
16	3.217990	3.562797	4.054151	7.524998	.8851411	1.261803	3.010493	8.393675
17	3.054188	3.408175	3.872761	7.144634	.8500261	1.211746	2.891062	8.258731
18	2.902257	3.267734	3.708873	6.795424	.8170229	1.164698	2.778813	8.139996
19	2.760290	3.139151	3.559625	6.473900	.7859925	1.120463	2.673274	8.034282
20	2.636600	3.031917	3.437883	6.192469	.7568063	1.078857	2.574007	7.939070
21	2.543817	2.930673	3.320425	5.956228	.7293452	1.039710	2.480609	7.852355
22	2.458685	2.838021	3.213163	5.739812	.7034996	1.002866	2.392704	7.772560
23	2.380194	2.752820	3.114733	5.541229	.6791670	.9681793	2.309945	7.698441
24	2.307511	2.674134	3.024008	5.358724	.6562535	.9355152	2.232013	7.629040
25	2.239940	2.601189	2.940057	5.190744	.6346713	.9047487	2.158609	7.563616
26	2.176897	2.533343	2.862100	5.035918	.6143391	.8757646	2.089456	7.501623
27	2.117886	2.470055	2.789485	4.893021	.5951819	.8484553	2.024300	7.442663
28	2.062486	2.410871	2.721658	4.760967	.5771297	.8227211	1.962902	7.386461
29	2.010338	2.355405	2.658154	4.638786	.5601178	.7984699	1.905042	7.332840
30	1.961131	2.303327	2.598569	4.525611	.5440859	.7756158	1.850515	7.281697
31	1.914595	2.254351	2.542560	4.420663	.5289782	.7540791	1.799131	7.232997
32	1.870496	2.208229	2.489826	4.323246	.5147426	.7337860	1.750715	7.186734
33	1.828628	2.164741	2.440108	4.232736	.5013313	.7146674	1.705100	7.142939
34	1.788808	2.123695	2.393173	4.148568	.4886991	.6966599	1.662137	7.101661
35	1.750874	2.084916	2.348819	4.070239	.4768048	.6797040	1.621682	7.062952
36	1.714682	2.048247	2.306860	3.997289	.4656094	.6637444	1.583605	7.026867
37	1.680101	2.013546	2.267133	3.929308	.4550773	.6487304	1.547784	6.993447
38	1.647015	1.980681	2.229486	3.865926	.4451748	.6346142	1.514104	6.962736
39	1.615315	1.949531	2.193782	3.806807	.4358714	.6213517	1.482462	6.934741
40	1.584905	1.919982	2.159891	3.751648	.4271380	.6089020	1.452758	6.909452
41	1.555695	1.891927	2.127694	3.700175	.4189481	.5972271	1.424903	6.886838
42	1.527601	1.865264	2.097077	3.652143	.4112771	.5862916	1.398813	6.866825
43	1.500545	1.839893	2.067933	3.607327	.4041019	.5760632	1.374409	6.849315
44	1.474454	1.815717	2.040156	3.565526	.3974015	.5665114	1.351620	6.834150
45	1.449259	1.792641	2.013645	3.526559	.3911563	.5576086	1.330379	6.821142
46	1.424891	1.770567	1.988298	3.490263	.3853481	.5493288	1.310625	6.810039
47	1.401285	1.749395	1.964013	3.456491	.3799604	.5416485	1.292300	6.800522
48	1.378744	1.728926	1.940509	3.424960	.3749779	.5345458	1.275354	6.792218
49	1.371985	1.721769	1.932006	3.394655	.3703865	.5280006	1.259738	6.792218
50	1.365621	1.715031	1.924003	3.367059	.3661734	.5219946	1.245409	6.792218
51	1.359622	1.708679	1.916460	3.342033	.3623270	.5165114	1.232327	6.792218
52	1.353959	1.702685	1.909343	3.319454	.3588365	.5115356	1.220455	6.792218
53	1.348609	1.697021	1.902619	3.299214	.3556927	.5070539	1.209762	6.792218
54	1.343548	1.691664	1.896261	3.281219	.3528867	.5030539	1.200219	6.792218
55	1.338756	1.686592	1.890241	3.265386	.3504111	.4995248	1.191799	6.792218
56	1.373553	1.739027	1.955861	3.251646	.3482593	.4964572	1.184480	6.898207
57	1.408583	1.791708	2.021775	3.239940	.3464253	.4938428	1.178243	7.004195
58	1.443830	1.844620	2.087962	3.230223	.3449044	.4916747	1.173070	7.110182
59	1.479280	1.897745	2.154404	3.222456	.3436925	.4899470	1.168948	7.216170
60	1.514918	1.951072	2.221085	3.216613	.3427863	.4886553	1.165866	7.322159
61	1.550734	2.004585	2.287989	3.212676	.3421835	.4877959	1.163816	7.428146
62	1.586715	2.058275	2.355102	3.210639	.3418825	.4873669	1.162792	7.534134
63	1.622852	2.112129	2.422411	3.210505	.3418825	.4873669	1.162792	7.640122
64	1.659134	2.166137	2.489903	3.212285	.3421835	.4877959	1.163816	7.746110
65	1.695554	2.220291	2.557569	3.216001	.3427863	.4886553	1.165866	7.852098

Table B-8
Nueces County 1996 CO Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDBGV	LDDV	LDDT	HDDV	MC
3	106.4743	133.5892	164.0946	228.9155	5.352359	6.136109	39.95098	188.3164
4	81.91106	102.6872	125.7058	209.1503	4.932803	5.655119	36.81934	150.1862
5	66.97792	83.77985	102.0252	191.5125	4.554416	5.221323	33.99500	122.6656
6	56.94974	71.04495	85.98694	175.7483	4.212715	4.829587	31.44448	102.3575
7	49.76397	61.91283	74.44489	161.6370	3.903749	4.475378	29.13830	87.06611
8	44.37226	55.06524	65.77132	148.9861	3.624032	4.154704	27.05044	75.33688
9	40.18414	49.75423	59.03587	137.6278	3.370487	3.864031	25.15794	66.18520
10	36.84141	45.52357	53.66765	127.4154	3.140391	3.600242	23.44046	58.93039
11	34.11420	42.07925	49.29704	118.2207	2.931333	3.360571	21.88001	53.09285
12	31.84830	39.22339	45.67450	109.9310	2.741177	3.142570	20.46064	48.32867
13	29.93645	36.81807	42.62575	102.4478	2.568026	2.944064	19.16821	44.38714
14	28.30179	34.76425	40.02559	95.68418	2.410194	2.763122	17.99013	41.08274
15	26.88787	32.98914	37.78193	89.56395	2.266184	2.598024	16.91521	38.27642
16	25.65234	31.43805	35.82564	84.01984	2.134660	2.447240	15.93349	35.86268
17	24.56280	30.06923	34.10392	78.99251	2.014432	2.309407	15.03609	33.76071
18	23.59413	28.85035	32.57584	74.42953	1.904439	2.183308	14.21508	31.90806
19	22.72656	27.75605	31.20926	70.28461	1.803731	2.067853	13.46338	30.25630
20	21.82274	26.83230	30.13122	66.51669	1.711461	1.962072	12.77466	28.76761
21	20.87786	25.76144	28.94581	63.08941	1.626869	1.865093	12.14325	27.41248
22	20.01693	24.78183	27.86583	59.97051	1.549275	1.776137	11.56408	26.16794
23	19.22880	23.88118	26.87697	57.13134	1.478070	1.694505	11.03259	25.01609
24	18.50430	23.04955	25.96755	54.54646	1.412706	1.619570	10.54470	23.94314
25	17.83580	22.27880	25.12790	52.19324	1.352693	1.550769	10.09675	22.93854
26	17.21695	21.56229	24.35002	50.05152	1.297588	1.487596	9.685436	21.99424
27	16.64240	20.89453	23.62722	48.10341	1.246996	1.429595	9.307806	21.10428
28	16.10761	20.27095	22.95391	46.33294	1.200559	1.376358	8.961193	20.26423
29	15.60874	19.68776	22.32532	44.72591	1.157957	1.327518	8.643205	19.47087
30	15.14245	19.14170	21.73744	43.26971	1.118901	1.282743	8.351685	18.72187
31	14.70589	18.62999	21.18679	41.95313	1.083133	1.241737	8.084700	18.01555
32	14.29656	18.15022	20.67040	40.76619	1.050417	1.204231	7.840506	17.35073
33	13.91226	17.70024	20.18563	39.70007	1.020545	1.169985	7.617539	16.72644
34	13.55105	17.27815	19.73019	38.74698	.9933296	1.138784	7.414395	16.14196
35	13.21120	16.88221	19.30203	37.90007	.9686008	1.110434	7.229815	15.59652
36	12.89116	16.51085	18.89929	37.15331	.9462081	1.084762	7.062672	15.08940
37	12.58952	16.16259	18.52031	36.50149	.9260169	1.061615	6.911962	14.61981
38	12.30501	15.83607	18.16356	35.94008	.9079075	1.040854	6.776788	14.18675
39	12.03646	15.52998	17.82761	35.46524	.8917738	1.022357	6.656364	13.78914
40	11.78279	15.24310	17.51112	35.07375	.8775225	1.006019	6.549988	13.42564
41	11.54300	14.97423	17.21287	34.76298	.8650718	.9917452	6.457054	13.09465
42	11.31615	14.72217	16.93162	34.53085	.8543514	.9794549	6.377036	12.79443
43	11.10134	14.48576	16.66623	34.37581	.8453009	.9690792	6.309481	12.52284
44	10.89771	14.26377	16.41555	34.29683	.8378696	.9605598	6.254013	12.27743
45	10.70441	14.05494	16.17843	34.29340	.8320167	.9538499	6.210326	12.05540
46	10.52059	13.85788	15.95370	34.36549	.8277098	.9489121	6.178179	11.85353
47	10.34541	13.67112	15.74019	34.51358	.8249252	.9457198	6.157392	11.66809
48	10.17797	13.49298	15.53662	34.73866	.8236474	.9442549	6.147856	11.49491
49	10.17797	13.49298	15.53662	35.04220	.8238698	.9445100	6.149516	11.49491
50	10.17797	13.49298	15.53662	35.42625	.8255936	.9464861	6.162382	11.49491
51	10.17797	13.49298	15.53662	35.89339	.8288280	.9501941	6.186523	11.49491
52	10.17797	13.49298	15.53662	36.44677	.8335907	.9556543	6.222075	11.49491
53	10.17797	13.49298	15.53662	37.09021	.8399081	.9628968	6.269229	11.49491
54	10.17797	13.49298	15.53662	37.82813	.8478152	.9719616	6.328248	11.49491
55	10.17797	13.49298	15.53662	38.66570	.8573555	.9828990	6.399458	11.49491
56	11.64875	15.74174	18.27777	39.60887	.8685824	.9957700	6.483259	14.26322
57	13.11953	17.99051	21.01892	40.66441	.8815596	1.010647	6.580122	17.03153
58	14.59031	20.23927	23.76006	41.84001	.8963604	1.027615	6.690598	19.79984
59	16.06109	22.48803	26.50121	43.14442	.9130700	1.046772	6.815323	22.56815
60	17.53187	24.73679	29.24236	44.58748	.9317856	1.068228	6.955018	25.33646
61	19.00264	26.98556	31.98351	46.18029	.9526167	1.092109	7.110505	28.10477
62	20.47342	29.23432	34.72466	47.93534	.9756879	1.118559	7.282713	30.87308
63	21.94420	31.48309	37.46581	49.86668	1.001138	1.147736	7.472678	33.64138
64	23.41498	33.73185	40.20696	51.99009	1.029123	1.179819	7.681566	36.40969
65	24.88576	35.98061	42.94810	54.32329	1.059818	1.215008	7.910677	39.17801

Table B-9
Nueces County 1996 NOX Emission Rates

Speed	LDGV	LDGT1	LDGT2	HGV	LDDV	LDPT	HDDV	MC
3	2.250761	2.632376	2.830693	4.227231	2.776874	3.147577	27.36611	.8166953
4	2.063347	2.412850	2.600697	4.270975	2.659919	3.015009	26.21352	.7811566
5	1.950371	2.280728	2.462689	4.314718	2.551511	2.892129	25.14516	.7516654
6	1.874732	2.192501	2.370780	4.358462	2.450999	2.778199	24.15461	.7277576
7	1.820518	2.129504	2.305288	4.402205	2.357792	2.672550	23.23606	.7089862
8	1.779764	2.082387	2.256365	4.445950	2.271353	2.574571	22.38420	.6949201
9	1.748036	2.045941	2.218530	4.489693	2.191193	2.483709	21.59421	.6851445
10	1.722671	2.017028	2.188488	4.533436	2.116864	2.399458	20.86171	.6792612
11	1.701966	1.993643	2.164137	4.577180	2.047963	2.321359	20.18269	.6768876
12	1.684780	1.974438	2.144068	4.620924	1.984120	2.248994	19.55352	.6776581
13	1.670323	1.958475	2.127306	4.664668	1.925000	2.181981	18.97088	.6812230
14	1.658023	1.945074	2.113146	4.708412	1.870294	2.119972	18.43176	.6872487
15	1.647461	1.933733	2.101072	4.752155	1.819726	2.062653	17.93341	.6954183
16	1.638319	1.924072	2.090693	4.795899	1.773041	2.009736	17.47332	.7054309
17	1.630351	1.915793	2.081707	4.839643	1.730007	1.960958	17.04924	.7170019
18	1.623364	1.908663	2.073879	4.883387	1.690418	1.916083	16.65908	.7298630
19	1.617206	1.902494	2.067021	4.927130	1.654081	1.874896	16.30098	.7437624
20	1.618823	1.899595	2.064318	4.970874	1.620826	1.837201	15.97325	.7584643
21	1.628890	1.911348	2.077645	5.014617	1.590496	1.802822	15.67435	.7737489
22	1.638119	1.922187	2.089869	5.058362	1.562951	1.771600	15.40289	.7894133
23	1.646618	1.932219	2.101129	5.102104	1.538066	1.743393	15.15765	.8052707
24	1.654475	1.941534	2.111539	5.145848	1.515728	1.718073	14.93751	.8211501
25	1.661764	1.950206	2.121195	5.189591	1.495837	1.695526	14.74148	.8368976
26	1.668549	1.958296	2.130178	5.233335	1.478304	1.675653	14.56870	.8523743
27	1.674882	1.965859	2.138560	5.277080	1.463054	1.658366	14.41840	.8674592
28	1.680810	1.972939	2.146400	5.320823	1.450018	1.643590	14.28993	.8820463
29	1.686373	1.979578	2.153751	5.364567	1.439140	1.631261	14.18273	.8960466
30	1.691605	1.985810	2.160661	5.408311	1.430374	1.621324	14.09634	.9093869
31	1.696538	1.991667	2.167171	5.452054	1.423681	1.613738	14.03039	.9220102
32	1.701198	1.997178	2.173318	5.495797	1.419033	1.608469	13.98458	.9338767
33	1.705612	2.002369	2.179137	5.539542	1.416410	1.605496	13.95873	.9449615
34	1.709801	2.007267	2.184659	5.583285	1.415802	1.604806	13.95273	.9552574
35	1.713787	2.011894	2.189914	5.627029	1.417204	1.606396	13.96655	.9647723
36	1.717589	2.016272	2.194929	5.670773	1.420624	1.610272	14.00025	.9735308
37	1.721226	2.020426	2.199730	5.714517	1.426075	1.616451	14.05398	.9815737
38	1.724714	2.024376	2.204342	5.758260	1.433581	1.624960	14.12795	.9889586
39	1.728072	2.028144	2.208790	5.802003	1.443175	1.635834	14.22250	.9957591
40	1.731316	2.031752	2.213096	5.845747	1.454898	1.649122	14.33803	1.002064
41	1.734462	2.035224	2.217285	5.889491	1.468800	1.664880	14.47503	1.007980
42	1.737524	2.038580	2.221378	5.933235	1.484942	1.683177	14.63411	1.013630
43	1.740520	2.041845	2.225400	5.976978	1.503395	1.704093	14.81597	1.019151
44	1.743466	2.045043	2.229372	6.020722	1.524240	1.727721	15.02139	1.024699
45	1.746376	2.048196	2.233318	6.064466	1.547570	1.754165	15.25131	1.030444
46	1.749267	2.051332	2.237260	6.108210	1.573489	1.783545	15.50675	1.036574
47	1.752155	2.054477	2.241222	6.151953	1.602117	1.815994	15.78887	1.043294
48	1.755057	2.057657	2.245229	6.195697	1.633583	1.851661	16.09897	1.050822
49	1.819979	2.140143	2.337354	6.239441	1.668034	1.890711	16.43849	1.085039
50	1.884901	2.222630	2.429479	6.283184	1.705632	1.933328	16.80901	1.119256
51	1.949822	2.305116	2.521605	6.326927	1.746556	1.979715	17.21232	1.153474
52	2.014744	2.387603	2.613730	6.370671	1.791003	2.030096	17.65034	1.187691
53	2.079666	2.470089	2.705855	6.414415	1.839191	2.084717	18.12524	1.221908
54	2.144588	2.552575	2.797980	6.458159	1.891359	2.143849	18.63936	1.256126
55	2.209509	2.635062	2.890106	6.501903	1.947771	2.207792	19.19530	1.290343
56	2.274431	2.717548	2.982231	6.545646	2.008716	2.276873	19.79591	1.324561
57	2.339353	2.800035	3.074356	6.589390	2.074512	2.351452	20.44432	1.358778
58	2.404274	2.882521	3.166481	6.633133	2.145506	2.431925	21.14398	1.392995
59	2.469196	2.965008	3.258607	6.676877	2.222085	2.518726	21.89865	1.427213
60	2.534117	3.047494	3.350732	6.720621	2.304666	2.612331	22.71249	1.461430
61	2.599039	3.129980	3.442857	6.764365	2.393713	2.713266	23.59006	1.495647
62	2.663961	3.212466	3.534982	6.808108	2.489734	2.822105	24.53634	1.529865
63	2.728883	3.294953	3.627107	6.851852	2.593286	2.939481	25.55685	1.564082
64	2.793804	3.377439	3.719233	6.895596	2.704983	3.066089	26.65763	1.598300
65	2.858726	3.459926	3.811358	6.939339	2.825501	3.202696	27.84533	1.632517

Table B-10
Nueces County 1996 EXHS Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	7.713783	9.672013	11.72474	11.84610	1.623058	2.313732	5.520254	12.17802
4	5.948577	7.486240	9.055943	10.81364	1.540939	2.196669	5.240956	10.02747
5	4.877629	6.148576	7.414178	9.887568	1.464263	2.087364	4.980169	8.434671
6	4.158765	5.246017	6.302878	9.055825	1.392627	1.985245	4.736526	7.232436
7	3.643389	4.597188	5.502563	8.307827	1.325662	1.889783	4.508768	6.309298
8	3.256276	4.109330	4.900319	7.634276	1.263028	1.800496	4.295741	5.589316
9	2.955175	3.729891	4.431860	7.026988	1.204412	1.716937	4.096381	5.019703
10	2.714506	3.426823	4.057824	6.478754	1.149529	1.638698	3.909713	4.563059
11	2.517868	3.179463	3.752754	5.983216	1.098112	1.565401	3.734836	4.192416
12	2.354266	2.973891	3.499474	5.534760	1.049918	1.496699	3.570923	3.888011
13	2.216051	2.800395	3.285975	5.128422	1.004723	1.432272	3.417209	3.635127
14	2.097745	2.651998	3.103625	4.759812	.9623201	1.371825	3.272990	3.422660
15	1.995319	2.523561	2.946069	4.425035	.9225182	1.315086	3.137618	3.242118
16	1.905749	2.411227	2.808526	4.120639	.8851411	1.261803	3.010493	3.086937
17	1.826724	2.312042	2.687341	3.843556	.8500261	1.211746	2.891062	2.951993
18	1.756446	2.223718	2.579675	3.591063	.8170229	1.164698	2.778813	2.833257
19	1.693500	2.144457	2.483297	3.360730	.7859925	1.120463	2.673274	2.727543
20	1.626866	2.075115	2.402942	3.150396	.7568063	1.078857	2.574007	2.632331
21	1.559629	1.996148	2.311483	2.958132	.7293452	1.039710	2.480609	2.545617
22	1.498387	1.924013	2.228109	2.782217	.7034996	1.002866	2.392704	2.465821
23	1.442348	1.857800	2.151732	2.621110	.6791670	.9681793	2.309945	2.391703
24	1.390857	1.796763	2.081456	2.473435	.6562535	.9355152	2.232013	2.322301
25	1.343369	1.740290	2.016540	2.337959	.6346713	.9047487	2.158609	2.256877
26	1.299427	1.687873	1.956369	2.213573	.6143391	.8757646	2.089456	2.194884
27	1.258647	1.639089	1.900429	2.099288	.5951819	.8484553	2.024300	2.135924
28	1.220700	1.593581	1.848287	1.994210	.5771297	.8227211	1.962902	2.079722
29	1.185306	1.551050	1.799576	1.897539	.5601178	.7984699	1.905042	2.026101
30	1.152226	1.511240	1.753985	1.808555	.5440859	.7756158	1.850515	1.974958
31	1.121250	1.473929	1.711247	1.726607	.5289782	.7540791	1.799131	1.926258
32	1.092196	1.438926	1.671130	1.651110	.5147426	.7337860	1.750715	1.879996
33	1.064906	1.406061	1.633432	1.581539	.5013313	.7146674	1.705100	1.836200
34	1.039237	1.375184	1.597975	1.517415	.4886991	.6966599	1.662137	1.794923
35	1.015066	1.346161	1.564602	1.458310	.4768048	.6797040	1.621682	1.756213
36	.9922793	1.318869	1.533170	1.403835	.4656094	.6637444	1.583605	1.720128
37	.9707760	1.293196	1.503551	1.353641	.4550773	.6487304	1.547784	1.686709
38	.9504645	1.269037	1.475627	1.307410	.4451748	.6346142	1.514104	1.655998
39	.9312612	1.246298	1.449289	1.264856	.4358714	.6213517	1.482462	1.628002
40	.9130893	1.224885	1.424437	1.225719	.4271380	.6089020	1.452758	1.602714
41	.8958780	1.204712	1.400973	1.189768	.4189481	.5972271	1.424903	1.580100
42	.8795604	1.185694	1.378807	1.156789	.4112771	.5862916	1.398813	1.560087
43	.8640748	1.167749	1.357850	1.126593	.4041019	.5760632	1.374409	1.542576
44	.8493617	1.150795	1.338015	1.099008	.3974015	.5665114	1.351620	1.527411
45	.8353637	1.134750	1.319217	1.073880	.3911563	.5576086	1.330379	1.514404
46	.8220259	1.119529	1.301369	1.051069	.3853481	.5493288	1.310625	1.503300
47	.8092926	1.105042	1.284382	1.030452	.3799604	.5416485	1.292300	1.493784
48	.7971094	1.091196	1.268166	1.011918	.3749779	.5345458	1.275354	1.485480
49	.7971094	1.091196	1.268166	.9953688	.3703865	.5280006	1.259738	1.485480
50	.7971094	1.091196	1.268166	.9807163	.3661734	.5219946	1.245409	1.485480
51	.7971094	1.091196	1.268166	.9678850	.3623270	.5165114	1.232327	1.485480
52	.7971094	1.091196	1.268166	.9568086	.3588365	.5115356	1.220455	1.485480
53	.7971094	1.091196	1.268166	.9474302	.3556927	.5070539	1.209762	1.485480
54	.7971094	1.091196	1.268166	.9397024	.3528867	.5030539	1.200219	1.485480
55	.7971094	1.091196	1.268166	.9335862	.3504111	.4995248	1.191799	1.485480
56	.8364493	1.148439	1.339490	.9290506	.3482593	.4964572	1.184480	1.591468
57	.8757893	1.205681	1.410814	.9260731	.3464253	.4938428	1.178243	1.697456
58	.9151292	1.262924	1.482138	.9246389	.3449044	.4916747	1.173070	1.803444
59	.9544691	1.320167	1.553462	.9247406	.3436925	.4899470	1.168948	1.909432
60	.9938091	1.377409	1.624786	.9263787	.3427863	.4886553	1.165866	2.015420
61	1.033149	1.434652	1.696110	.9295619	.3421835	.4877959	1.163816	2.121408
62	1.072489	1.491895	1.767434	.9343052	.3418825	.4873669	1.162792	2.227396
63	1.111829	1.549138	1.838758	.9406332	.3418825	.4873669	1.162792	2.333384
64	1.151169	1.606380	1.910082	.9485773	.3421835	.4877959	1.163816	2.439372
65	1.190509	1.663623	1.981406	.9581777	.3427863	.4886553	1.165866	2.545360

**Table B-11
Nueces County 1996 RNLS Emission Rates**

<u>Speed</u>	<u>LDGV</u>	<u>LDGT1</u>	<u>LDGT2</u>	<u>HDGV</u>	<u>LDV</u>	<u>LDDT</u>	<u>HDDV</u>	<u>MC</u>
3	8.240058	7.401670	8.633772	14.39637	.0000000	.0000000	.0000000	.0000000
4	5.048741	4.349210	5.033621	8.420788	.0000000	.0000000	.0000000	.0000000
5	3.495957	2.902375	3.334865	5.595908	.0000000	.0000000	.0000000	.0000000
6	2.611606	2.098090	2.394588	4.029520	.0000000	.0000000	.0000000	.0000000
7	2.053809	1.602103	1.817114	3.065871	.0000000	.0000000	.0000000	.0000000
8	1.837309	1.411413	1.595534	2.695995	.0000000	.0000000	.0000000	.0000000
9	1.674422	1.272981	1.435787	2.428636	.0000000	.0000000	.0000000	.0000000
10	1.532780	1.157123	1.303116	2.205906	.0000000	.0000000	.0000000	.0000000
11	1.406590	1.057683	1.190137	2.015633	.0000000	.0000000	.0000000	.0000000
12	1.291989	.9705566	1.091925	1.849704	.0000000	.0000000	.0000000	.0000000
13	1.186303	.8929021	1.005074	1.702500	.0000000	.0000000	.0000000	.0000000
14	1.087621	.8226899	.9271491	1.570010	.0000000	.0000000	.0000000	.0000000
15	.9945419	.7584314	.8563650	1.449291	.0000000	.0000000	.0000000	.0000000
16	.9060159	.6990104	.7913828	1.338134	.0000000	.0000000	.0000000	.0000000
17	.8212392	.6435732	.7311786	1.234854	.0000000	.0000000	.0000000	.0000000
18	.7395871	.5914557	.6749562	1.138136	.0000000	.0000000	.0000000	.0000000
19	.6605661	.5421340	.6220869	1.046946	.0000000	.0000000	.0000000	.0000000
20	.6035100	.5042415	.5806988	.9758486	.0000000	.0000000	.0000000	.0000000
21	.5779637	.4819650	.5547007	.9318705	.0000000	.0000000	.0000000	.0000000
22	.5540729	.4614476	.5308125	.8913703	.0000000	.0000000	.0000000	.0000000
23	.5316218	.4424598	.5087588	.8538941	.0000000	.0000000	.0000000	.0000000
24	.5104303	.4248105	.4883103	.8190638	.0000000	.0000000	.0000000	.0000000
25	.4903474	.4083390	.4692747	.7865621	.0000000	.0000000	.0000000	.0000000
26	.4712451	.3929095	.4514886	.7561201	.0000000	.0000000	.0000000	.0000000
27	.4530144	.3784060	.4348133	.7275093	.0000000	.0000000	.0000000	.0000000
28	.4355621	.3647296	.4191298	.7005332	.0000000	.0000000	.0000000	.0000000
29	.4188074	.3517946	.4043356	.6750228	.0000000	.0000000	.0000000	.0000000
30	.4026808	.3395268	.3903416	.6508316	.0000000	.0000000	.0000000	.0000000
31	.3871214	.3278616	.3770705	.6278316	.0000000	.0000000	.0000000	.0000000
32	.3720760	.3167427	.3644544	.6059115	.0000000	.0000000	.0000000	.0000000
33	.3574979	.3061202	.3524338	.5849729	.0000000	.0000000	.0000000	.0000000
34	.3433459	.2959505	.3409563	.5649295	.0000000	.0000000	.0000000	.0000000
35	.3295834	.2861947	.3299751	.5457042	.0000000	.0000000	.0000000	.0000000
36	.3161780	.2768182	.3194489	.5272291	.0000000	.0000000	.0000000	.0000000
37	.3031008	.2677905	.3093411	.5094432	.0000000	.0000000	.0000000	.0000000
38	.2903258	.2590839	.2996182	.4922921	.0000000	.0000000	.0000000	.0000000
39	.2778297	.2506737	.2902510	.4757271	.0000000	.0000000	.0000000	.0000000
40	.2655918	.2425377	.2812126	.4597041	.0000000	.0000000	.0000000	.0000000
41	.2535930	.2346558	.2724790	.4441836	.0000000	.0000000	.0000000	.0000000
42	.2418163	.2270099	.2640284	.4291295	.0000000	.0000000	.0000000	.0000000
43	.2302462	.2195835	.2558411	.4145094	.0000000	.0000000	.0000000	.0000000
44	.2188686	.2123617	.2478991	.4002938	.0000000	.0000000	.0000000	.0000000
45	.2076707	.2053308	.2401861	.3864554	.0000000	.0000000	.0000000	.0000000
46	.1966407	.1984783	.2326871	.3729699	.0000000	.0000000	.0000000	.0000000
47	.1857680	.1917929	.2253886	.3598148	.0000000	.0000000	.0000000	.0000000
48	.1754100	.1851702	.2181015	.3468176	.0000000	.0000000	.0000000	.0000000
49	.1686511	.1780134	.2095992	.3330618	.0000000	.0000000	.0000000	.0000000
50	.1622872	.1712752	.2015957	.3201182	.0000000	.0000000	.0000000	.0000000
51	.1562878	.1649235	.1940527	.3079236	.0000000	.0000000	.0000000	.0000000
52	.1506255	.1589290	.1869352	.2964212	.0000000	.0000000	.0000000	.0000000
53	.1452752	.1532652	.1802116	.2855596	.0000000	.0000000	.0000000	.0000000
54	.1402143	.1479080	.1738533	.2752918	.0000000	.0000000	.0000000	.0000000
55	.1354220	.1428356	.1678340	.2655751	.0000000	.0000000	.0000000	.0000000
56	.1308795	.1380279	.1621300	.2563708	.0000000	.0000000	.0000000	.0000000
57	.1265697	.1334668	.1567194	.2476431	.0000000	.0000000	.0000000	.0000000
58	.1224767	.1291354	.1515824	.2393599	.0000000	.0000000	.0000000	.0000000
59	.1185861	.1250185	.1467006	.2314911	.0000000	.0000000	.0000000	.0000000
60	.1148847	.1211020	.1420573	.2240095	.0000000	.0000000	.0000000	.0000000
61	.1113603	.1173731	.1376372	.2168901	.0000000	.0000000	.0000000	.0000000
62	.1080017	.1138198	.1334261	.2101099	.0000000	.0000000	.0000000	.0000000
63	.1047985	.1104311	.1294108	.2036473	.0000000	.0000000	.0000000	.0000000
64	.1017412	.1071970	.1255794	.1974829	.0000000	.0000000	.0000000	.0000000
65	.0988210	.1041082	.1219207	.1915985	.0000000	.0000000	.0000000	.0000000

Table B-12
Nueces County 1996 RSTL, CC, HTSK, and Diurnal Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
--	.0904108	.0862407	.0753717	.1058120	.0000000	.0000000	.0000000	.6726353
--	.0089856	.0132575	.0151290	.0186332	.0000000	.0000000	.0000000	.0000000
--	.1757836	.1812722	.1753270	1.483074	.0000000	.0000000	.0000000	2.845960
--	.1310443	.1717896	.1884141	.4587049	.0000000	.0000000	.0000000	1.788144

**Table B-13
Nueces County 1999 VOC Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC
3	14.69141	15.67126	18.01550	21.94366	1.412059	1.902110	4.924975	16.99823
4	10.16963	10.88674	12.46344	16.41533	1.340616	1.805872	4.675796	14.93359
5	7.804135	8.379221	9.553394	13.46862	1.273908	1.716013	4.443131	13.40443
6	6.372018	6.858997	7.789064	11.59342	1.211585	1.632061	4.225761	12.25023
7	5.420349	5.847949	6.615679	10.26099	1.153325	1.553583	4.022563	11.36397
8	4.894317	5.262682	5.931796	9.459194	1.098833	1.480181	3.832508	10.67275
9	4.491762	4.817728	5.412410	8.788577	1.047838	1.411487	3.654646	10.12589
10	4.160773	4.457922	4.993471	8.197536	1.000089	1.347167	3.488108	9.687493
11	3.881872	4.160120	4.647686	7.671689	.9553562	1.286910	3.332089	9.331660
12	3.642031	3.908814	4.356777	7.200410	.9134278	1.230430	3.185851	9.039416
13	3.432214	3.693224	4.108045	6.775539	.8741083	1.177465	3.048712	8.796636
14	3.245953	3.505629	3.892399	6.390611	.8372179	1.127772	2.920046	8.592658
15	3.078502	3.340355	3.703162	6.040377	.8025903	1.081127	2.799272	8.419328
16	2.926298	3.193143	3.535324	5.720505	.7700723	1.037323	2.685855	8.270347
17	2.786617	3.060735	3.385054	5.427358	.7395223	.9961712	2.579304	8.140794
18	2.657342	2.940605	3.249376	5.157854	.7108095	.9574937	2.479159	8.026802
19	2.536806	2.830763	3.125945	4.909351	.6838129	.9211282	2.385000	7.925312
20	2.425482	2.729208	3.014527	4.692972	.6584209	.8869238	2.296438	7.833903
21	2.336831	2.634776	2.907488	4.513438	.6345298	.8547416	2.213111	7.750654
22	2.255584	2.548464	2.809875	4.348924	.6120440	.8244522	2.134686	7.674046
23	2.180771	2.469204	2.720444	4.197915	.5908749	.7959363	2.060852	7.602889
24	2.111588	2.396115	2.638166	4.059080	.5709401	.7690831	1.991323	7.536260
25	2.047365	2.328466	2.562181	3.931242	.5521636	.7437903	1.925834	7.473449
26	1.987535	2.265645	2.491769	3.813357	.5344746	.7199625	1.864139	7.413933
27	1.931622	2.207135	2.426317	3.704501	.5178080	.6975116	1.806009	7.357329
28	1.879218	2.152501	2.365304	3.603849	.5021025	.6763557	1.751232	7.303373
29	1.829972	2.101368	2.308284	3.510666	.4873021	.6564189	1.699611	7.251893
30	1.783584	2.053416	2.254873	3.424294	.4733544	.6376306	1.650964	7.202794
31	1.739790	2.008366	2.204738	3.344147	.4602107	.6199254	1.605121	7.156040
32	1.698361	1.965974	2.157586	3.269696	.4478259	.6032425	1.561926	7.111625
33	1.659096	1.926026	2.113163	3.200468	.4361579	.5875251	1.521230	7.069579
34	1.621815	1.888333	2.071243	3.136037	.4251679	.5727212	1.482900	7.029951
35	1.586360	1.852723	2.031625	3.076019	.4148199	.5587819	1.446807	6.992788
36	1.552589	1.819045	1.994131	3.020071	.4050799	.5456617	1.412837	6.958145
37	1.520374	1.787159	1.958600	2.967880	.3959169	.5333187	1.380878	6.926061
38	1.489599	1.756939	1.924886	2.919166	.3873018	.5217138	1.350830	6.896576
39	1.460159	1.728268	1.892857	2.873676	.3792078	.5108108	1.322600	6.869699
40	1.431958	1.701040	1.862394	2.831179	.3716098	.5005759	1.296099	6.845422
41	1.404909	1.675155	1.833387	2.791470	.3644846	.4909779	1.271248	6.823711
42	1.378930	1.650518	1.805732	2.754362	.3578108	.4819880	1.247971	6.804496
43	1.353946	1.627040	1.779336	2.719685	.3515685	.4735792	1.226199	6.787685
44	1.329884	1.604635	1.754110	2.687287	.3457391	.4657268	1.205868	6.773128
45	1.306678	1.583219	1.729970	2.657032	.3403057	.4584078	1.186917	6.760639
46	1.284264	1.562710	1.706836	2.628797	.3352526	.4516010	1.169293	6.749979
47	1.262577	1.543025	1.684630	2.602468	.3305653	.4452870	1.152945	6.740843
48	1.241793	1.523940	1.663070	2.577873	.3262306	.4394479	1.137826	6.732871
49	1.235235	1.516975	1.655054	2.554565	.3222361	.4340671	1.123894	6.732871
50	1.229061	1.510419	1.647509	2.533323	.3185707	.4291297	1.111110	6.732871
51	1.223242	1.504240	1.640399	2.514041	.3152242	.4246219	1.099438	6.732871
52	1.217751	1.498410	1.633691	2.496624	.3121876	.4205314	1.088847	6.732871
53	1.212563	1.492902	1.627355	2.480989	.3094524	.4168470	1.079307	6.732871
54	1.207657	1.487693	1.621364	2.467062	.3070112	.4135586	1.070793	6.732871
55	1.203012	1.482762	1.615693	2.454780	.3048575	.4106573	1.063281	6.732871
56	1.229855	1.518917	1.660007	2.444091	.3029853	.4081355	1.056751	6.834624
57	1.256924	1.555313	1.704599	2.434948	.3013898	.4059862	1.051186	6.936379
58	1.284203	1.591933	1.749449	2.427316	.3000666	.4042038	1.046571	7.038131
59	1.311679	1.628762	1.794539	2.421165	.2990122	.4027835	1.042894	7.139885
60	1.339339	1.665786	1.839856	2.416473	.2982239	.4017215	1.040144	7.241639
61	1.367172	1.702993	1.885382	2.413227	.2976994	.4010152	1.038315	7.343391
62	1.395164	1.740371	1.931106	2.411421	.2974375	.4006624	1.037402	7.445146
63	1.423309	1.777910	1.977014	2.411056	.2974375	.4006624	1.037402	7.546899
64	1.451595	1.815599	2.023097	2.412140	.2976994	.4010152	1.038315	7.648653
65	1.480014	1.853430	2.069342	2.414690	.2982239	.4017215	1.040144	7.750406

**Table B-14
Nueces County 1999 CO Emission Rates**

Speed	LDGV	LDGT1	LDGT2	HdGV	LDDV	LDDT	HDDV	MC
3	89.47386	105.4242	127.0767	149.7118	4.964985	5.480273	37.89394	188.3164
4	69.37212	81.86250	98.19478	136.7853	4.575794	5.050690	34.92355	150.1862
5	57.23891	67.56937	80.58768	125.2501	4.224792	4.663260	32.24463	122.6656
6	49.12702	57.99069	68.74606	114.9402	3.907822	4.313393	29.82543	102.3575
7	43.32848	51.13942	60.25520	105.7114	3.621217	3.997043	27.63799	87.06611
8	38.98221	46.00665	53.88327	97.43760	3.361745	3.710642	25.65764	75.33688
9	35.60656	42.02484	48.93446	90.00922	3.126550	3.451037	23.86258	66.18520
10	32.91102	38.85016	44.98583	83.33030	2.913107	3.215442	22.23353	58.93039
11	30.70997	36.26220	41.76556	77.31688	2.719179	3.001388	20.75343	53.09285
12	28.87927	34.11317	39.09115	71.89539	2.542786	2.806687	19.40715	48.32867
13	27.33280	32.30034	36.83564	67.00130	2.382166	2.629398	18.18126	44.38714
14	26.00890	30.75005	34.90808	62.57790	2.235758	2.467794	17.06384	41.08274
15	24.86234	29.40821	33.24167	58.57524	2.102170	2.320343	16.04426	38.27642
16	23.85914	28.23421	31.78633	54.94937	1.980165	2.185675	15.11309	35.86268
17	22.97336	27.19704	30.50380	51.66148	1.868639	2.062574	14.26190	33.76071
18	22.18487	26.27263	29.36439	48.67727	1.766606	1.949952	13.48316	31.90806
19	21.47780	25.44214	28.34476	45.96647	1.673187	1.846838	12.77016	30.25630
20	20.62226	24.56027	27.35598	43.50223	1.587595	1.752362	12.11690	28.76761
21	19.63047	23.46090	26.15671	41.26077	1.509125	1.665749	11.51800	27.41248
22	18.72667	22.45679	25.06501	39.22099	1.437147	1.586301	10.96865	26.16794
23	17.89929	21.53532	24.06660	37.36417	1.371096	1.513394	10.46453	25.01609
24	17.13880	20.68616	23.14974	35.67365	1.310462	1.446468	10.00176	23.94314
25	16.43724	19.90081	22.30459	34.13462	1.254792	1.385020	9.576876	22.93854
26	15.78796	19.17223	21.52295	32.73393	1.203676	1.328599	9.186741	21.99424
27	15.18536	18.49455	20.79789	31.45985	1.156745	1.276797	8.828556	21.10428
28	14.62466	17.86281	20.12352	30.30196	1.113669	1.229251	8.499789	20.26423
29	14.10178	17.27282	19.49481	29.25096	1.074151	1.185631	8.198174	19.47087
30	13.61323	16.72098	18.90745	28.29860	1.037922	1.145642	7.921665	18.72187
31	13.15594	16.20420	18.35769	27.43754	1.004741	1.109018	7.668427	18.01555
32	12.72723	15.71974	17.84227	26.66128	.9743937	1.075521	7.436806	17.35073
33	12.32478	15.26520	17.35833	25.96404	.9466842	1.044935	7.225318	16.72644
34	11.94647	14.83844	16.90334	25.34071	.9214380	1.017069	7.032635	16.14196
35	11.59046	14.43752	16.47506	24.78683	.8984988	.9917490	6.857558	15.59652
36	11.25507	14.06070	16.07148	24.29844	.8777269	.9688212	6.699020	15.08940
37	10.93879	13.70636	15.69078	23.87214	.8589970	.9481474	6.556071	14.61981
38	10.64024	13.37304	15.33134	23.50498	.8421983	.9296053	6.427858	14.18675
39	10.35818	13.05936	14.99165	23.19443	.8272322	.9130859	6.313634	13.78914
40	10.09146	12.76403	14.67035	22.93840	.8140123	.8984941	6.212736	13.42564
41	9.839016	12.48584	14.36615	22.73515	.8024627	.8857458	6.124587	13.09465
42	9.599852	12.22362	14.07788	22.58334	.7925183	.8747691	6.048688	12.79443
43	9.373032	11.97624	13.80444	22.48194	.7841227	.8655022	5.984612	12.52284
44	9.157660	11.74257	13.54474	22.43029	.7772294	.8578936	5.932000	12.27743
45	8.952861	11.52145	13.29780	22.42805	.7718000	.8519008	5.890562	12.05540
46	8.757769	11.31168	13.06260	22.47519	.7678047	.8474908	5.860069	11.85353
47	8.571508	11.11198	12.83820	22.57204	.7652216	.8446397	5.840354	11.66809
48	8.393183	10.92098	12.62359	22.71925	.7640364	.8433315	5.831308	11.49491
49	8.393183	10.92098	12.62359	22.91776	.7642428	.8435591	5.832883	11.49491
50	8.393183	10.92098	12.62359	23.16894	.7658417	.8453240	5.845087	11.49491
51	8.393183	10.92098	12.62359	23.47444	.7688420	.8486358	5.867985	11.49491
52	8.393183	10.92098	12.62359	23.83636	.7732601	.8535124	5.901706	11.49491
53	8.393183	10.92098	12.62359	24.25717	.7791204	.8599808	5.946432	11.49491
54	8.393183	10.92098	12.62359	24.73978	.7864550	.8680768	6.002411	11.49491
55	8.393183	10.92098	12.62359	25.28755	.7953049	.8778450	6.069956	11.49491
56	9.432146	12.41127	14.46095	25.90438	.8057194	.8893404	6.149443	14.26322
57	10.47111	13.90155	16.29830	26.59471	.8177572	.9026276	6.241318	17.03153
58	11.51007	15.39184	18.13567	27.36356	.8314869	.9177822	6.346107	19.79984
59	12.54904	16.88213	19.97302	28.21665	.8469871	.9348912	6.464408	22.56815
60	13.58800	18.37241	21.81038	29.16042	.8643481	.9540538	6.596910	25.33646
61	14.62696	19.86270	23.64774	30.20212	.8836716	.9753829	6.744392	28.10477
62	15.66593	21.35299	25.48510	31.34994	.9050730	.9990054	6.907732	30.87308
63	16.70489	22.84328	27.32245	32.61304	.9286812	1.025064	7.087916	33.64138
64	17.74386	24.33356	29.15981	34.00176	.9546411	1.053718	7.286050	36.40969
65	18.78282	25.82385	30.99717	35.52769	.9831144	1.085146	7.503364	39.17801

Table B-15
Nueces County 1999 NOX Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	2.097776	2.487517	2.779780	3.998857	2.383752	2.623762	21.62554	.8166953
4	1.920050	2.276505	2.545794	4.040237	2.283354	2.513256	20.71473	.7811566
5	1.813189	2.149746	2.405491	4.081618	2.190294	2.410825	19.87047	.7516654
6	1.741821	2.065213	2.312068	4.122998	2.104011	2.315855	19.08772	.7277576
7	1.690783	2.004884	2.245461	4.164379	2.024000	2.227788	18.36185	.7089862
8	1.652486	1.959741	2.195636	4.205759	1.949798	2.146114	17.68868	.6949201
9	1.622712	1.924764	2.157012	4.247140	1.880985	2.070374	17.06441	.6851445
10	1.598924	1.896937	2.126242	4.288520	1.817179	2.000144	16.48556	.6792612
11	1.579507	1.874333	2.101188	4.329900	1.758033	1.935042	15.94898	.6768876
12	1.563381	1.855664	2.080427	4.371281	1.703229	1.874719	15.45179	.6776581
13	1.549796	1.840034	2.062971	4.412662	1.652478	1.818858	14.99137	.6812230
14	1.538213	1.826799	2.048112	4.454042	1.605517	1.767169	14.56534	.6872487
15	1.528238	1.815485	2.035330	4.495422	1.562107	1.719389	14.17153	.6954183
16	1.519573	1.805732	2.024234	4.536803	1.522031	1.675278	13.80796	.7054309
17	1.511987	1.797264	2.014525	4.578184	1.485090	1.634618	13.47283	.7170017
18	1.505302	1.789863	2.005968	4.619563	1.451106	1.597211	13.16452	.7298630
19	1.499374	1.783359	1.998379	4.660944	1.419913	1.562878	12.88153	.7437624
20	1.501936	1.777112	1.991866	4.702325	1.391366	1.531456	12.62255	.7584643
21	1.511644	1.784508	2.000769	4.743706	1.365329	1.502798	12.38635	.7737489
22	1.520513	1.791315	2.008910	4.785086	1.341684	1.476773	12.17184	.7894133
23	1.528650	1.797603	2.016386	4.826467	1.320322	1.453259	11.97804	.8052707
24	1.536144	1.803428	2.023275	4.867846	1.301146	1.432153	11.80408	.8211501
25	1.543071	1.808840	2.029645	4.909227	1.284071	1.413359	11.64917	.8368976
26	1.549492	1.813879	2.035554	4.950607	1.269021	1.396793	11.51263	.8523743
27	1.555464	1.818580	2.041049	4.991988	1.255929	1.382383	11.39386	.8674592
28	1.561031	1.822973	2.046174	5.033368	1.244739	1.370066	11.29234	.8820463
29	1.566234	1.827083	2.050963	5.074749	1.235401	1.359788	11.20763	.8960466
30	1.571108	1.830933	2.055450	5.116130	1.227876	1.351505	11.13936	.9093869
31	1.575683	1.834545	2.059664	5.157509	1.222131	1.345181	11.08724	.9220102
32	1.579987	1.837936	2.063628	5.198890	1.218141	1.340790	11.05105	.9338767
33	1.584043	1.841124	2.067366	5.240271	1.215889	1.338312	11.03062	.9449615
34	1.587875	1.844123	2.070899	5.281651	1.215366	1.337737	11.02588	.9552574
35	1.591501	1.846950	2.074245	5.323031	1.216570	1.339062	11.03680	.9647723
36	1.594939	1.849618	2.077423	5.364412	1.219506	1.342293	11.06343	.9735308
37	1.598207	1.852140	2.080448	5.405792	1.224185	1.347443	11.10588	.9815737
38	1.601319	1.854531	2.083335	5.447173	1.230629	1.354536	11.16434	.9889586
39	1.604291	1.856802	2.086099	5.488553	1.238865	1.363601	11.23906	.9957591
40	1.607136	1.858968	2.088755	5.529933	1.248928	1.374677	11.33035	1.002064
41	1.609868	1.861040	2.091314	5.571315	1.260862	1.387813	11.43862	1.007980
42	1.612499	1.863033	2.093791	5.612695	1.274719	1.403065	11.56433	1.013630
43	1.615040	1.864960	2.096197	5.654075	1.290559	1.420500	11.70803	1.019151
44	1.617505	1.866833	2.098544	5.695456	1.308453	1.440196	11.87037	1.024699
45	1.619905	1.868668	2.100847	5.736836	1.328480	1.462239	12.05205	1.030444
46	1.622251	1.870479	2.103115	5.778217	1.350731	1.486730	12.25391	1.036574
47	1.624554	1.872278	2.105360	5.819596	1.375305	1.513779	12.47685	1.043294
48	1.626827	1.874084	2.107596	5.860978	1.402317	1.543510	12.72190	1.050822
49	1.681239	1.946949	2.190879	5.902358	1.431890	1.576061	12.99020	1.085039
50	1.735650	2.019813	2.274163	5.943738	1.464166	1.611587	13.28300	1.119256
51	1.790061	2.092678	2.357446	5.985118	1.499296	1.650254	13.60170	1.153474
52	1.844472	2.165543	2.440729	6.026499	1.537451	1.692250	13.94784	1.187691
53	1.898884	2.238407	2.524012	6.067881	1.578817	1.737781	14.32312	1.221908
54	1.953295	2.311272	2.607296	6.109261	1.623600	1.787073	14.72939	1.256126
55	2.007706	2.384137	2.690579	6.150640	1.672025	1.840374	15.16871	1.290343
56	2.062118	2.457002	2.773862	6.192021	1.724342	1.897959	15.64334	1.324561
57	2.116529	2.529866	2.857145	6.233401	1.780823	1.960126	16.15573	1.358778
58	2.170940	2.602731	2.940428	6.274782	1.841767	2.027207	16.70862	1.392995
59	2.225351	2.675596	3.023712	6.316163	1.907504	2.099562	17.30499	1.427213
60	2.279763	2.748461	3.106995	6.357543	1.978394	2.177590	17.94811	1.461430
61	2.334174	2.821325	3.190278	6.398924	2.054835	2.261728	18.64159	1.495647
62	2.388586	2.894190	3.273561	6.440305	2.137262	2.352454	19.38937	1.529865
63	2.442997	2.967055	3.356844	6.481684	2.226155	2.450296	20.19581	1.564082
64	2.497408	3.039919	3.440127	6.523065	2.322039	2.555835	21.06567	1.598300
65	2.551819	3.112784	3.523411	6.564445	2.425495	2.669708	22.00424	1.632517

Table B-16
Nueces County 1999 EXHS Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	6.669227	8.195422	9.623386	8.893687	1.412059	1.902110	4.924975	11.69149
4	5.173773	6.362523	7.448183	8.118550	1.340616	1.805872	4.675796	9.626853
5	4.269629	5.248542	6.126357	7.423285	1.273908	1.716013	4.443131	8.097691
6	3.664061	4.500072	5.238381	6.798839	1.211585	1.632061	4.225761	6.943487
7	3.230447	3.963242	4.601593	6.237265	1.153325	1.553583	4.022563	6.057229
8	2.904928	3.559983	4.123309	5.731582	1.098833	1.480181	3.832508	5.366013
9	2.651760	3.246361	3.751386	5.275649	1.047838	1.411487	3.654646	4.819156
10	2.449355	2.995735	3.454211	4.864052	1.000089	1.347167	3.488108	4.380756
11	2.283908	2.791003	3.211499	4.492016	.9553562	1.286910	3.332089	4.024922
12	2.146177	2.620683	3.009645	4.155329	.9134278	1.230430	3.185851	3.732677
13	2.029740	2.476785	2.839185	3.850264	.8741083	1.177465	3.048712	3.489897
14	1.930003	2.353580	2.693338	3.573522	.8372179	1.127772	2.920046	3.285919
15	1.843588	2.246853	2.567122	3.322181	.8025903	1.081127	2.799272	3.112590
16	1.767963	2.153440	2.456799	3.093650	.7700723	1.037323	2.685855	2.963608
17	1.701189	2.070924	2.359508	2.885625	.7395223	.9961712	2.579304	2.834055
18	1.641763	1.997427	2.273029	2.696060	.7108095	.9574937	2.479159	2.720063
19	1.588499	1.931474	2.195615	2.523133	.6838129	.9211282	2.385000	2.618573
20	1.526458	1.864191	2.120791	2.365221	.6584209	.8869238	2.296438	2.527165
21	1.461512	1.791102	2.037954	2.220876	.6345298	.8547416	2.213111	2.443915
22	1.402349	1.724407	1.962537	2.088804	.6120440	.8244522	2.134686	2.367307
23	1.348211	1.663263	1.893562	1.967850	.5908749	.7959363	2.060852	2.296150
24	1.298470	1.606977	1.830217	1.856980	.5709401	.7690831	1.991323	2.229521
25	1.252602	1.554976	1.771824	1.755268	.5521636	.7437903	1.925834	2.166711
26	1.210169	1.506778	1.717817	1.661883	.5344746	.7199625	1.864139	2.107194
27	1.170798	1.461985	1.667716	1.576081	.5178080	.6975116	1.806009	2.050591
28	1.134174	1.420254	1.621112	1.497192	.5021025	.6763557	1.751232	1.996634
29	1.100026	1.381298	1.577658	1.424615	.4873021	.6564189	1.699611	1.945155
30	1.068120	1.344868	1.537053	1.357808	.4733544	.6376306	1.650964	1.896055
31	1.038252	1.310748	1.499038	1.296284	.4602107	.6199254	1.605121	1.849300
32	1.010247	1.278751	1.463384	1.239604	.4478259	.6032425	1.561926	1.804886
33	.9839482	1.248711	1.429894	1.187371	.4361579	.5875251	1.521230	1.762841
34	.9592165	1.220481	1.398391	1.139229	.4251679	.5727212	1.482900	1.723212
35	.9359295	1.193928	1.368719	1.094855	.4148199	.5587819	1.446807	1.686049
36	.9139763	1.168934	1.340739	1.053957	.4050799	.5456617	1.412837	1.651406
37	.8932579	1.145391	1.314325	1.016273	.3959169	.5333187	1.380878	1.619322
38	.8736835	1.123198	1.289363	.9815634	.3873018	.5217138	1.350830	1.589837
39	.8551714	1.102264	1.265749	.9496150	.3792078	.5108108	1.322600	1.562960
40	.8376458	1.082503	1.243389	.9202329	.3716098	.5005759	1.296099	1.538683
41	.8210379	1.063836	1.222194	.8932412	.3644846	.4909779	1.271248	1.516972
42	.8052822	1.046186	1.202084	.8684819	.3578108	.4819880	1.247971	1.497758
43	.7903187	1.029479	1.182982	.8458117	.3515685	.4735792	1.226199	1.480947
44	.7760898	1.013644	1.164817	.8251017	.3457391	.4657268	1.205868	1.466389
45	.7625407	.9986117	1.147520	.8062362	.3403057	.4584078	1.186917	1.453901
46	.7496182	.9843109	1.131027	.7891108	.3352526	.4516010	1.169293	1.443241
47	.7372701	.9706690	1.115273	.7736324	.3305653	.4452870	1.152945	1.434104
48	.7254445	.9576122	1.100195	.7597175	.3262306	.4394479	1.137826	1.426132
49	.7254445	.9576122	1.100195	.7472924	.3222361	.4340671	1.123894	1.426132
50	.7254445	.9576122	1.100195	.7362919	.3185707	.4291297	1.111110	1.426132
51	.7254445	.9576122	1.100195	.7266585	.3152242	.4246219	1.099438	1.426132
52	.7254445	.9576122	1.100195	.7183425	.3121876	.4205314	1.088847	1.426132
53	.7254445	.9576122	1.100195	.7113017	.3094524	.4168470	1.079307	1.426132
54	.7254445	.9576122	1.100195	.7055000	.3070112	.4135586	1.070793	1.426132
55	.7254445	.9576122	1.100195	.7009081	.3048575	.4106573	1.063281	1.426132
56	.7566891	.9984410	1.149882	.6975029	.3029853	.4081355	1.056751	1.527886
57	.7879336	1.039269	1.199570	.6952676	.3013898	.4059862	1.051186	1.629639
58	.8191780	1.080098	1.249257	.6941907	.3000666	.4042038	1.046571	1.731393
59	.8504225	1.120927	1.298944	.6942671	.2990122	.4027835	1.042894	1.833147
60	.8816670	1.161755	1.348632	.6954969	.2982239	.4017215	1.040144	1.934901
61	.9129114	1.202584	1.398319	.6978867	.2976994	.4010152	1.038315	2.036654
62	.9441560	1.243413	1.448007	.7014479	.2974375	.4006624	1.037402	2.138408
63	.9754004	1.284241	1.497694	.7061987	.2974375	.4006624	1.037402	2.240161
64	1.006645	1.325070	1.547381	.7121629	.2976994	.4010152	1.038315	2.341915
65	1.037889	1.365899	1.597069	.7193706	.2982239	.4017215	1.040144	2.443668

Table B-17
Nueces County 1999 RNLs Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	7.674661	7.088359	8.033612	11.50670	.0000000	.0000000	.0000000	.0000000
4	4.648335	4.136731	4.656760	6.753510	.0000000	.0000000	.0000000	.0000000
5	3.186980	2.743196	3.068540	4.502070	.0000000	.0000000	.0000000	.0000000
6	2.360431	1.971443	2.192186	3.251312	.0000000	.0000000	.0000000	.0000000
7	1.842377	1.497223	1.655588	2.480462	.0000000	.0000000	.0000000	.0000000
8	1.641863	1.315215	1.449990	2.184348	.0000000	.0000000	.0000000	.0000000
9	1.492476	1.183884	1.302526	1.969664	.0000000	.0000000	.0000000	.0000000
10	1.363893	1.074704	1.180763	1.790221	.0000000	.0000000	.0000000	.0000000
11	1.250437	.9816340	1.077690	1.636408	.0000000	.0000000	.0000000	.0000000
12	1.148328	.9006472	.9886347	1.501817	.0000000	.0000000	.0000000	.0000000
13	1.054947	.8289551	.9103628	1.382012	.0000000	.0000000	.0000000	.0000000
14	.9684248	.7645658	.8405633	1.273824	.0000000	.0000000	.0000000	.0000000
15	.8873883	.7060188	.7775419	1.174932	.0000000	.0000000	.0000000	.0000000
16	.8108095	.6522187	.7200276	1.083590	.0000000	.0000000	.0000000	.0000000
17	.7379017	.6023277	.6670486	.9984682	.0000000	.0000000	.0000000	.0000000
18	.6680531	.5556946	.6178490	.9185284	.0000000	.0000000	.0000000	.0000000
19	.6007806	.5118047	.5718321	.8429527	.0000000	.0000000	.0000000	.0000000
20	.5514982	.4775332	.5352376	.7844859	.0000000	.0000000	.0000000	.0000000
21	.5277929	.4561899	.5110374	.7492976	.0000000	.0000000	.0000000	.0000000
22	.5057088	.4365729	.4888399	.7168553	.0000000	.0000000	.0000000	.0000000
23	.4850340	.4184569	.4683838	.6868010	.0000000	.0000000	.0000000	.0000000
24	.4655927	.4016542	.4494514	.6588359	.0000000	.0000000	.0000000	.0000000
25	.4472368	.3860074	.4318599	.6327094	.0000000	.0000000	.0000000	.0000000
26	.4298409	.3713830	.4154546	.6082095	.0000000	.0000000	.0000000	.0000000
27	.4132985	.3576673	.4001036	.5851555	.0000000	.0000000	.0000000	.0000000
28	.3975180	.3447632	.3856940	.5633922	.0000000	.0000000	.0000000	.0000000
29	.3824208	.3325864	.3721285	.5427865	.0000000	.0000000	.0000000	.0000000
30	.3679385	.3210646	.3593225	.5232222	.0000000	.0000000	.0000000	.0000000
31	.3540114	.3101340	.3472027	.5045987	.0000000	.0000000	.0000000	.0000000
32	.3405877	.2997394	.3357047	.4868279	.0000000	.0000000	.0000000	.0000000
33	.3276215	.2898321	.3247719	.4698322	.0000000	.0000000	.0000000	.0000000
34	.3150724	.2803690	.3143544	.4535432	.0000000	.0000000	.0000000	.0000000
35	.3029048	.2713120	.3044083	.4379002	.0000000	.0000000	.0000000	.0000000
36	.2910868	.2626273	.2948940	.4228497	.0000000	.0000000	.0000000	.0000000
37	.2795900	.2542848	.2857766	.4083433	.0000000	.0000000	.0000000	.0000000
38	.2683892	.2462574	.2770249	.3943383	.0000000	.0000000	.0000000	.0000000
39	.2574615	.2385208	.2686106	.3807960	.0000000	.0000000	.0000000	.0000000
40	.2467865	.2310534	.2605084	.3676817	.0000000	.0000000	.0000000	.0000000
41	.2363457	.2238352	.2526955	.3549642	.0000000	.0000000	.0000000	.0000000
42	.2261223	.2168487	.2451513	.3426149	.0000000	.0000000	.0000000	.0000000
43	.2161012	.2100776	.2378570	.3306084	.0000000	.0000000	.0000000	.0000000
44	.2062686	.2035071	.2307956	.3189212	.0000000	.0000000	.0000000	.0000000
45	.1966119	.1971240	.2239515	.3075320	.0000000	.0000000	.0000000	.0000000
46	.1871197	.1909161	.2173105	.2964215	.0000000	.0000000	.0000000	.0000000
47	.1777814	.1848721	.2108598	.2855716	.0000000	.0000000	.0000000	.0000000
48	.1688224	.1788439	.2043779	.2748907	.0000000	.0000000	.0000000	.0000000
49	.1622644	.1718794	.1963614	.2640076	.0000000	.0000000	.0000000	.0000000
50	.1560908	.1653234	.1888164	.2537667	.0000000	.0000000	.0000000	.0000000
51	.1502718	.1591445	.1817064	.2441180	.0000000	.0000000	.0000000	.0000000
52	.1447807	.1533139	.1749983	.2350167	.0000000	.0000000	.0000000	.0000000
53	.1395932	.1478060	.1686624	.2264221	.0000000	.0000000	.0000000	.0000000
54	.1346870	.1425971	.1626714	.2182969	.0000000	.0000000	.0000000	.0000000
55	.1300421	.1376659	.1570007	.2106077	.0000000	.0000000	.0000000	.0000000
56	.1256401	.1329928	.1516277	.2033235	.0000000	.0000000	.0000000	.0000000
57	.1214643	.1285601	.1465317	.1964164	.0000000	.0000000	.0000000	.0000000
58	.1174992	.1243513	.1416941	.1898606	.0000000	.0000000	.0000000	.0000000
59	.1137310	.1203516	.1370974	.1836327	.0000000	.0000000	.0000000	.0000000
60	.1101466	.1165473	.1327259	.1777110	.0000000	.0000000	.0000000	.0000000
61	.1067341	.1129256	.1285650	.1720758	.0000000	.0000000	.0000000	.0000000
62	.1034828	.1094751	.1246014	.1667088	.0000000	.0000000	.0000000	.0000000
63	.1003824	.1061851	.1208226	.1615930	.0000000	.0000000	.0000000	.0000000
64	.0974238	.1030456	.1172173	.1567132	.0000000	.0000000	.0000000	.0000000
65	.0945983	.1000475	.1137750	.1520548	.0000000	.0000000	.0000000	.0000000

Table B-18
Nueces County 1999 RSTL, CC, HTSK, and Diurnal Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
--	.0751492	.0734477	.0620159	.0840205	.0000000	.0000000	.0000000	.6726353
--	.0081512	.0104295	.0111500	.0139706	.0000000	.0000000	.0000000	.0000000
--	.1483240	.1552588	.1404482	1.081609	.0000000	.0000000	.0000000	2.845960
--	.1159014	.1483475	.1448836	.3636646	.0000000	.0000000	.0000000	1.788144

Table B-19
Nueces County 2007 VOC Emission Rates

Speed	LDGV	LDGT1	LDGT2	HGCV	LDDV	LDDT	HDDV	MC
3	11.46380	12.77858	14.87629	15.94848	1.079680	1.518280	4.457347	16.99823
4	7.880737	8.824918	10.25001	11.87932	1.025054	1.441463	4.231826	14.93359
5	6.034343	6.776700	7.854026	9.718434	.9740476	1.369736	4.021254	13.40443
6	4.929849	5.546216	6.414948	8.346043	.9263945	1.302725	3.824523	12.25023
7	4.202854	4.733420	5.464545	7.371660	.8818485	1.240083	3.640619	11.36397
8	3.798442	4.263741	4.914516	6.780776	.8401835	1.181492	3.468609	10.67275
9	3.492004	3.908361	4.498507	6.287248	.8011917	1.126661	3.307636	10.12589
10	3.243319	3.622465	4.164100	5.853530	.7646821	1.075320	3.156910	9.687493
11	3.036636	3.387104	3.889037	5.468794	.7304788	1.027222	3.015705	9.331660
12	2.861455	3.189643	3.658484	5.125046	.6984197	.9821397	2.883353	9.039416
13	2.710505	3.021337	3.462168	4.816148	.6683555	.9398625	2.759236	8.796636
14	2.578595	2.875938	3.292753	4.537238	.6401485	.9001970	2.642787	8.592658
15	2.461917	2.748864	3.144859	4.284373	.6136717	.8629645	2.533480	8.419328
16	2.357614	2.636681	3.014452	4.054296	.5888081	.8280003	2.430832	8.270347
17	2.263503	2.536759	2.898444	3.844276	.5654491	.7951522	2.334397	8.140794
18	2.177885	2.447055	2.794436	3.651999	.5434948	.7642795	2.243761	8.026802
19	2.099419	2.365957	2.700533	3.475480	.5228530	.7352523	2.158544	7.925312
20	2.013167	2.277457	2.597940	3.319613	.5034379	.7079501	2.078390	7.833903
21	1.932957	2.193035	2.499082	3.186213	.4851705	.6822619	2.002975	7.750654
22	1.859830	2.116204	2.409128	3.064081	.4679775	.6580847	1.931996	7.674046
23	1.792864	2.045975	2.326916	2.952081	.4517912	.6353230	1.865173	7.602889
24	1.731287	1.981523	2.251480	2.849214	.4365488	.6138886	1.802246	7.536260
25	1.674453	1.922154	2.182004	2.754596	.4221920	.5936997	1.742975	7.473449
26	1.621815	1.867281	2.117802	2.667444	.4086668	.5746801	1.687138	7.413933
27	1.572906	1.816406	2.058288	2.587065	.3959232	.5567597	1.634528	7.357329
28	1.527328	1.769099	2.002960	2.512839	.3839146	.5398728	1.584951	7.303373
29	1.484735	1.724993	1.951384	2.444216	.3725981	.5239590	1.538232	7.251893
30	1.444829	1.683766	1.903185	2.380702	.3619334	.5089621	1.494204	7.202794
31	1.407351	1.645140	1.858036	2.321856	.3518835	.4948297	1.452714	7.156040
32	1.372071	1.608871	1.815653	2.267283	.3424139	.4815132	1.413620	7.111625
33	1.338791	1.574745	1.775782	2.216628	.3334925	.4689676	1.376789	7.069579
34	1.307334	1.542573	1.738203	2.169570	.3250894	.4571509	1.342098	7.029951
35	1.277544	1.512187	1.702719	2.125823	.3171771	.4460244	1.309432	6.992788
36	1.249282	1.483439	1.669155	2.085127	.3097298	.4355518	1.278687	6.958145
37	1.222424	1.456196	1.637356	2.047250	.3027236	.4256995	1.249763	6.926061
38	1.196859	1.430338	1.607182	2.011981	.2961364	.4164363	1.222568	6.896576
39	1.172487	1.405760	1.578509	1.979129	.2899476	.4077334	1.197018	6.869699
40	1.149220	1.382365	1.551223	1.948523	.2841381	.3995639	1.173034	6.845422
41	1.126976	1.360067	1.525224	1.920008	.2786900	.3919027	1.150543	6.823711
42	1.105683	1.338787	1.500419	1.893443	.2735872	.3847269	1.129476	6.804496
43	1.085273	1.318455	1.476725	1.868701	.2688141	.3780149	1.109771	6.787685
44	1.065687	1.299005	1.454067	1.845670	.2643569	.3717470	1.091370	6.773128
45	1.046870	1.280380	1.432375	1.824245	.2602025	.3659050	1.074219	6.760639
46	1.028772	1.262524	1.411586	1.804335	.2563388	.3604717	1.058268	6.749979
47	1.011346	1.245390	1.391643	1.785855	.2527549	.3554319	1.043472	6.740843
48	.9944915	1.228715	1.372225	1.768549	.2494404	.3507710	1.029789	6.732871
49	.9890021	1.222862	1.365381	1.751088	.2463862	.3464760	1.017180	6.732871
50	.9838368	1.217356	1.358943	1.735175	.2435836	.3425349	1.005609	6.732871
51	.9789705	1.212168	1.352877	1.720731	.2410249	.3389368	.9950460	6.732871
52	.9743804	1.207275	1.347156	1.707686	.2387030	.3356717	.9854605	6.732871
53	.9700460	1.202654	1.341754	1.695976	.2366116	.3327308	.9768264	6.732871
54	.9659486	1.198286	1.336648	1.685547	.2347451	.3301060	.9691204	6.732871
55	.9620709	1.194153	1.331816	1.676352	.2330983	.3277901	.9623219	6.732871
56	.95811619	1.214403	1.355710	1.668350	.2316668	.3257771	.9564122	6.834624
57	1.000443	1.234856	1.379841	1.661507	.2304468	.3240616	.9513756	6.936379
58	1.019901	1.255498	1.404193	1.655796	.2294351	.3226389	.9471988	7.038131
59	1.039525	1.276316	1.428751	1.651195	.2286289	.3215052	.9438705	7.139885
60	1.059304	1.297300	1.453503	1.647688	.2280261	.3206575	.9413821	7.241639
61	1.079226	1.318437	1.478435	1.645265	.2276251	.3200936	.9397267	7.343391
62	1.099285	1.339719	1.503535	1.643920	.2274249	.3198121	.9389001	7.445146
63	1.119470	1.361135	1.528794	1.643656	.2274249	.3198121	.9389001	7.546899
64	1.139774	1.382679	1.554201	1.644477	.2276251	.3200936	.9397267	7.648653
65	1.160190	1.404342	1.579747	1.646396	.2280261	.3206575	.9413821	7.750406

Table B-20
Nueces County 2007 CO Emission Rates

Speed	LDGV	LDGT1	LDGT2	HGCV	LDDV	LDDT	HDDV	MC
3	75.70757	81.74086	93.71152	79.27650	4.370994	4.905837	35.90159	188.3164
4	59.31858	64.41297	73.82709	72.43152	4.028364	4.521282	33.08736	150.1862
5	49.48518	54.01624	61.89642	66.32333	3.719355	4.174462	30.54929	122.6656
6	42.92959	47.08508	53.94265	60.86399	3.440306	3.861268	28.25730	102.3575
7	38.24701	42.13426	48.26138	55.97705	3.187989	3.578077	26.18486	87.06611
8	34.73509	38.42114	44.00043	51.59587	2.959559	3.321696	24.30864	75.33688
9	32.00359	35.53316	40.68635	47.66235	2.752502	3.089303	22.60795	66.18520
10	29.81839	33.22278	38.03510	44.12567	2.564595	2.878403	21.06455	58.93039
11	28.03050	31.33246	35.86588	40.94140	2.393868	2.686786	19.66227	53.09285
12	26.54059	29.75720	34.05821	38.07058	2.238577	2.512493	18.38677	48.32867
13	25.27990	28.42429	32.52864	35.47903	2.097173	2.353787	17.22534	44.38714
14	24.19931	27.28179	31.21758	33.13671	1.968281	2.209123	16.16667	41.08274
15	23.26279	26.29163	30.08132	31.01720	1.850675	2.077127	15.20070	38.27642
16	22.44334	25.42523	29.08710	29.09719	1.743266	1.956575	14.31849	35.86268
17	21.72030	24.66077	28.20984	27.35616	1.645082	1.846377	13.51205	33.76071
18	21.07759	23.98124	27.43006	25.77595	1.555256	1.745560	12.77425	31.90806
19	20.50254	23.37325	26.73236	24.34051	1.473014	1.653254	12.09874	30.25630
20	19.64668	22.50032	25.73919	23.03562	1.397661	1.568682	11.47983	28.76761
21	18.55474	21.33330	24.40886	21.84871	1.328579	1.491147	10.91242	27.41248
22	17.56207	20.27238	23.19946	20.76859	1.265213	1.420027	10.39195	26.16794
23	16.65573	19.30371	22.09523	19.78535	1.207063	1.354762	9.914333	25.01609
24	15.82491	18.41576	21.08302	18.89017	1.153684	1.294851	9.475901	23.94314
25	15.06055	17.59885	20.15179	18.07522	1.104674	1.239844	9.073349	22.93854
26	14.35500	16.84478	19.29219	17.33351	1.059673	1.189337	8.703731	21.99424
27	13.70171	16.14656	18.49627	16.65885	1.018357	1.142965	8.364376	21.10428
28	13.09508	15.49822	17.75719	16.04571	.9804343	1.100402	8.052895	20.26423
29	12.53028	14.89459	17.06909	15.48918	.9456434	1.061354	7.767138	19.47087
30	12.00314	14.33121	16.42686	14.98488	.9137487	1.025557	7.505166	18.72187
31	11.51001	13.80416	15.82607	14.52893	.8845382	.9927718	7.265243	18.01555
32	11.04770	13.31007	15.26282	14.11788	.8578212	.9627856	7.045800	17.35073
33	10.61341	12.84591	14.73371	13.74867	.8334267	.9354063	6.845432	16.72644
34	10.20467	12.40906	14.23573	13.41860	.8112009	.9104608	6.662879	16.14196
35	9.819279	11.99717	13.76620	13.12530	.7910061	.8877950	6.497007	15.59652
36	9.455301	11.60817	13.32275	12.86669	.7727192	.8672705	6.346807	15.08940
37	9.110998	11.24019	12.90328	12.64095	.7562300	.8487637	6.211371	14.61981
38	8.784817	10.89158	12.50588	12.44653	.7414411	.8321651	6.089901	14.18675
39	8.475361	10.56084	12.12886	12.28209	.7282655	.8173773	5.981681	13.78914
40	8.181379	10.24665	11.77070	12.14651	.7166271	.8043150	5.886088	13.42564
41	7.901738	9.947778	11.43000	12.03889	.7064593	.7929029	5.802574	13.09465
42	7.635413	9.663139	11.10553	11.95849	.6977045	.7830769	5.730666	12.79443
43	7.381475	9.391740	10.79615	11.90480	.6903135	.7747814	5.669957	12.52284
44	7.139080	9.132677	10.50083	11.87745	.6842448	.7679701	5.620112	12.27743
45	6.907458	8.885128	10.21864	11.87626	.6794651	.7626055	5.580853	12.05540
46	6.685905	8.648342	9.948721	11.90123	.6759477	.7586578	5.551964	11.85353
47	6.473783	8.421633	9.690285	11.95252	.6736736	.7561054	5.533285	11.66809
48	6.270497	8.204369	9.442616	12.03046	.6726302	.7549344	5.524715	11.49491
49	6.270497	8.204369	9.442616	12.13558	.6728119	.7551382	5.526206	11.49491
50	6.270497	8.204369	9.442616	12.26858	.6742195	.7567182	5.537769	11.49491
51	6.270497	8.204369	9.442616	12.43036	.6768608	.7596828	5.559464	11.49491
52	6.270497	8.204369	9.442616	12.62201	.6807504	.7640482	5.591412	11.49491
53	6.270497	8.204369	9.442616	12.84483	.6859095	.7698386	5.633786	11.49491
54	6.270497	8.204369	9.442616	13.10039	.6923667	.7770860	5.686822	11.49491
55	6.270497	8.204369	9.442616	13.39045	.7001578	.7858304	5.750815	11.49491
56	6.871910	8.931949	10.28397	13.71708	.7093263	.7961208	5.826122	14.26322
57	7.473323	9.659529	11.12533	14.08263	.7199241	.8080153	5.913167	17.03153
58	8.074736	10.38711	11.96669	14.48976	.7320111	.8215814	6.012446	19.79984
59	8.676148	11.11469	12.80804	14.94149	.7456570	.8368969	6.124528	22.56815
60	9.277561	11.84227	13.64940	15.44124	.7609409	.8540511	6.250064	25.33646
61	9.878975	12.56985	14.49076	15.99285	.7779527	.8731444	6.389791	28.10477
62	10.48039	13.29743	15.33211	16.60065	.7967936	.8942907	6.544544	30.87308
63	11.08180	14.02501	16.17347	17.26950	.8175775	.9176176	6.715253	33.64138
64	11.68321	14.75259	17.01482	18.00486	.8404317	.9432684	6.902970	36.40969
65	12.28463	15.48017	17.85618	18.81288	.8654985	.9714025	7.108858	39.17801

Table B-21
Nueces County 2007 NOX Emission Rates

Speed	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC
3	1.899958	2.245385	2.661549	3.426237	1.857388	2.111453	13.17095	.8166953
4	1.736617	2.052348	2.432734	3.461692	1.779160	2.022524	12.61623	.7811566
5	1.638613	1.936526	2.295444	3.497147	1.706648	1.940094	12.10204	.7516654
6	1.573277	1.859311	2.203918	3.532602	1.639418	1.863667	11.62530	.7277576
7	1.526608	1.804157	2.138543	3.568057	1.577074	1.792796	11.18321	.7089862
8	1.491606	1.762792	2.089511	3.603512	1.519257	1.727070	10.77323	.6949201
9	1.464383	1.730619	2.051375	3.638967	1.465639	1.666118	10.39301	.6851445
10	1.442604	1.704880	2.020866	3.674421	1.415923	1.609601	10.04047	.6792612
11	1.424785	1.683822	1.995905	3.709876	1.369836	1.557211	9.713666	.6768876
12	1.409936	1.666273	1.975103	3.745332	1.327133	1.508667	9.410856	.6776581
13	1.397371	1.651424	1.957502	3.780787	1.287589	1.463713	9.130440	.6812230
14	1.386601	1.638697	1.942415	3.816241	1.250998	1.422116	8.870968	.6872487
15	1.377268	1.627666	1.929340	3.851696	1.217173	1.383665	8.631117	.6954183
16	1.369101	1.618014	1.917899	3.887151	1.185947	1.348167	8.409684	.7054309
17	1.361895	1.609498	1.907805	3.922606	1.157163	1.315447	8.205576	.7170019
18	1.355489	1.601927	1.898831	3.958061	1.130682	1.285344	8.017799	.7298630
19	1.349758	1.595154	1.890803	3.993516	1.106378	1.257715	7.845451	.7437624
20	1.352872	1.585235	1.879191	4.028971	1.084134	1.232428	7.687717	.7584643
21	1.361620	1.587704	1.882124	4.064426	1.063847	1.209366	7.543860	.7737489
22	1.369573	1.589948	1.884790	4.099881	1.045423	1.188422	7.413213	.7894133
23	1.376835	1.591998	1.887225	4.135335	1.028778	1.169500	7.295180	.8052707
24	1.383492	1.593876	1.889456	4.170791	1.013836	1.152515	7.189229	.8211501
25	1.389615	1.595604	1.891509	4.206245	1.000531	1.137390	7.094884	.8368976
26	1.395268	1.597199	1.893404	4.241700	.9888045	1.124059	7.011726	.8523743
27	1.400502	1.598676	1.895159	4.277155	.9786035	1.112463	6.939390	.8674592
28	1.405363	1.600048	1.896788	4.312611	.9698840	1.102551	6.877560	.8820463
29	1.409888	1.601325	1.898305	4.348065	.9626083	1.094280	6.825966	.8960466
30	1.414111	1.602517	1.899721	4.383521	.9567447	1.087614	6.784387	.9093869
31	1.418062	1.603631	1.901045	4.418975	.9522681	1.082525	6.752643	.9220102
32	1.421766	1.604677	1.902287	4.454431	.9491593	1.078991	6.730597	.9338767
33	1.425245	1.605659	1.903453	4.489885	.9474049	1.076997	6.718158	.9449615
34	1.428520	1.606583	1.904551	4.525340	.9469976	1.076534	6.715270	.9552574
35	1.431608	1.607454	1.905586	4.560795	.9479356	1.077600	6.721920	.9647723
36	1.434524	1.608277	1.906564	4.596250	.9502230	1.080200	6.738140	.9735308
37	1.437283	1.609055	1.907488	4.631705	.9538692	1.084345	6.763997	.9815737
38	1.439896	1.609793	1.908364	4.667160	.9588902	1.090053	6.799601	.9889586
39	1.442376	1.610492	1.909195	4.702615	.9653074	1.097348	6.845106	.9957591
40	1.444731	1.611157	1.909985	4.738070	.9731483	1.106261	6.900708	1.002064
41	1.446971	1.611789	1.910736	4.773525	.9824473	1.116832	6.966646	1.007980
42	1.449105	1.612391	1.911451	4.808980	.9932442	1.129106	7.043208	1.013630
43	1.451140	1.612966	1.912134	4.844434	1.005587	1.143137	7.130732	1.019151
44	1.453082	1.613514	1.912785	4.879889	1.019530	1.158987	7.229601	1.024699
45	1.454938	1.614038	1.913407	4.915345	1.035135	1.176726	7.340258	1.030444
46	1.456713	1.614538	1.914002	4.950800	1.052472	1.196435	7.463197	1.036574
47	1.458412	1.615018	1.914572	4.986255	1.071620	1.218202	7.598979	1.043294
48	1.460041	1.615478	1.915118	5.021709	1.092667	1.242128	7.748226	1.050822
49	1.502900	1.675884	1.986808	5.057165	1.115710	1.268324	7.911631	1.085039
50	1.545760	1.736290	2.058498	5.092619	1.140859	1.296912	8.089960	1.119256
51	1.588619	1.796696	2.130188	5.128074	1.168232	1.328030	8.284065	1.153474
52	1.631478	1.857102	2.201879	5.163529	1.197962	1.361826	8.494883	1.187691
53	1.674337	1.917507	2.273569	5.198984	1.230193	1.398466	8.723441	1.221908
54	1.717197	1.977914	2.345259	5.234439	1.265088	1.438134	8.970882	1.256126
55	1.760056	2.038320	2.416950	5.269894	1.302820	1.481028	9.238447	1.290343
56	1.802915	2.098726	2.488640	5.305349	1.343585	1.527368	9.527514	1.324561
57	1.845775	2.159132	2.560330	5.340804	1.387594	1.577397	9.839588	1.358778
58	1.888634	2.219538	2.632021	5.376259	1.435081	1.631380	10.17632	1.392995
59	1.931493	2.279944	2.703711	5.411714	1.486302	1.689607	10.53954	1.427213
60	1.974352	2.340350	2.775401	5.447168	1.541539	1.752400	10.93123	1.461430
61	2.017212	2.400756	2.847091	5.482624	1.601101	1.820109	11.35359	1.495647
62	2.060071	2.461162	2.918782	5.518080	1.665327	1.893120	11.80902	1.529865
63	2.102931	2.521568	2.990472	5.553534	1.734590	1.971858	12.30018	1.564082
64	2.145790	2.581974	3.062162	5.588988	1.809302	2.056789	12.82997	1.598300
65	2.188649	2.642380	3.133852	5.624443	1.889914	2.148427	13.40160	1.632517

Table B-22
Nueces County 2007 EXHS Emission Rates

Speed	LDGV	LDGT1	LDGT2	HGGV	LDDV	LDDT	HDDV	MC
3	5.482354	6.807612	7.997781	6.663711	1.079680	1.518280	4.457347	11.69149
4	4.284031	5.293497	6.218452	6.082929	1.025054	1.441463	4.231826	9.626853
5	3.565037	4.385029	5.150855	5.561992	.9740476	1.369736	4.021254	8.097691
6	3.085708	3.779383	4.439124	5.094117	.9263945	1.302725	3.824523	6.943487
7	2.743330	3.346780	3.930745	4.673351	.8818485	1.240083	3.640619	6.057229
8	2.486546	3.022326	3.549460	4.294462	.8401835	1.181492	3.468609	5.366013
9	2.286826	2.769974	3.252906	3.952848	.8011917	1.126661	3.307636	4.819156
10	2.127049	2.568092	3.015662	3.644453	.7646821	1.075320	3.156910	4.380756
11	1.996323	2.402916	2.821554	3.365701	.7304788	1.027222	3.015705	4.024922
12	1.887384	2.265269	2.659797	3.113434	.6984197	.9821397	2.883353	3.732677
13	1.795206	2.148799	2.522925	2.884860	.6683555	.9398625	2.759236	3.489897
14	1.716196	2.048967	2.405607	2.677507	.6401485	.9001970	2.642787	3.285919
15	1.647720	1.962447	2.303931	2.489187	.6136717	.8629645	2.533480	3.112590
16	1.587804	1.886741	2.214965	2.317957	.5888081	.8280003	2.430832	2.963608
17	1.534936	1.819942	2.136465	2.162092	.5654491	.7951522	2.334397	2.834055
18	1.487943	1.760565	2.066687	2.020058	.5434948	.7642795	2.243761	2.720063
19	1.445897	1.707438	2.004255	1.890491	.5228530	.7352523	2.158544	2.618573
20	1.388037	1.642090	1.927949	1.772172	.5034379	.7079501	2.078390	2.527165
21	1.325379	1.574877	1.849114	1.664020	.4851705	.6822619	2.002975	2.443915
22	1.268417	1.513774	1.777445	1.565063	.4679775	.6580847	1.931996	2.367307
23	1.216409	1.457984	1.712008	1.474437	.4517912	.6353230	1.865173	2.296150
24	1.168735	1.406843	1.652025	1.391366	.4365488	.6138886	1.802246	2.229521
25	1.124875	1.359794	1.596840	1.315157	.4221920	.5936997	1.742975	2.166711
26	1.084388	1.316364	1.545900	1.245188	.4086668	.5746801	1.687138	2.107194
27	1.046901	1.276150	1.498734	1.180899	.3959232	.5567597	1.634528	2.050591
28	1.012091	1.238810	1.454936	1.121791	.3839146	.5398728	1.584951	1.996634
29	.9796820	1.204044	1.414159	1.067411	.3725981	.5239590	1.538232	1.945155
30	.9494334	1.171596	1.376100	1.017355	.3619334	.5089621	1.494204	1.896055
31	.9211364	1.141242	1.340497	.9712573	.3518835	.4948297	1.452714	1.849300
32	.8946080	1.112784	1.307119	.9287889	.3424139	.4815132	1.413620	1.804886
33	.8696873	1.086052	1.275764	.8896530	.3334925	.4689676	1.376789	1.762841
34	.8462327	1.060892	1.246254	.8535819	.3250894	.4571509	1.342098	1.723212
35	.8241182	1.037169	1.218429	.8203339	.3171771	.4460244	1.309432	1.686049
36	.8032324	1.014765	1.192151	.7896909	.3097298	.4355518	1.278687	1.651406
37	.7834754	.9935714	1.167293	.7614553	.3027236	.4256995	1.249763	1.619322
38	.7647584	.9734933	1.143743	.7354491	.2961364	.4164363	1.222568	1.589837
39	.7470012	.9544450	1.121401	.7115114	.2899476	.4077334	1.197018	1.562960
40	.7301317	.9363492	1.100176	.6894964	.2841381	.3995639	1.173034	1.538683
41	.7140854	.9191357	1.079986	.6692725	.2786900	.3919027	1.150543	1.516972
42	.6988031	.9027423	1.060758	.6507213	.2735872	.3847269	1.129476	1.497758
43	.6842314	.8871113	1.042424	.6337354	.2688141	.3780149	1.109771	1.480947
44	.6703222	.8721907	1.024924	.6182182	.2643569	.3717470	1.091370	1.466389
45	.6570312	.8579333	1.008201	.6040828	.2602025	.3659050	1.074219	1.453901
46	.6443181	.8442959	.9922055	.5912515	.2563388	.3604717	1.058268	1.443241
47	.6321460	.8312387	.9768904	.5796541	.2527549	.3554319	1.043472	1.434104
48	.6204810	.8187255	.9622136	.5692282	.2494404	.3507710	1.029789	1.426132
49	.6204810	.8187255	.9622136	.5599185	.2463862	.3464760	1.017180	1.426132
50	.6204810	.8187255	.9622136	.5516763	.2435836	.3425349	1.005609	1.426132
51	.6204810	.8187255	.9622136	.5444582	.2410249	.3389368	.9950460	1.426132
52	.6204810	.8187255	.9622136	.5382274	.2387030	.3356717	.9854605	1.426132
53	.6204810	.8187255	.9622136	.5329521	.2366116	.3327308	.9768264	1.426132
54	.6204810	.8187255	.9622136	.5286050	.2347451	.3301060	.9691204	1.426132
55	.6204810	.8187255	.9622136	.5251644	.2330983	.3277901	.9623219	1.426132
56	.6432450	.8428907	.9906838	.5226130	.2316668	.3257771	.9564122	1.527886
57	.6660089	.8670561	1.019154	.5209382	.2304468	.3240616	.9513756	1.629639
58	.6887729	.8912214	1.047624	.5201312	.2294351	.3226389	.9471988	1.731393
59	.7115368	.9153867	1.076094	.5201886	.2286289	.3215052	.9438705	1.833147
60	.7343009	.9395521	1.104565	.5211101	.2280261	.3206575	.9413821	1.934901
61	.7570648	.9637175	1.133035	.5229006	.2276251	.3200936	.9397267	2.036654
62	.7798288	.9878827	1.161505	.5255688	.2274249	.3198121	.9389001	2.138408
63	.8025927	1.012048	1.189975	.5291285	.2274249	.3198121	.9389001	2.240161
64	.8253566	1.036214	1.218446	.5335972	.2276251	.3200936	.9397267	2.341915
65	.8481206	1.060379	1.246916	.5389977	.2280261	.3206575	.9413821	2.443668

Table B-23
Nueces County 2007 RNLS Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
3	5.745836	5.708338	6.640404	8.289948	.0000000	.0000000	.0000000	.0000000
4	3.361100	3.268789	3.793451	4.801576	.0000000	.0000000	.0000000	.0000000
5	2.233700	2.129040	2.465062	3.161624	.0000000	.0000000	.0000000	.0000000
6	1.608535	1.504202	1.737716	2.257107	.0000000	.0000000	.0000000	.0000000
7	1.223918	1.124010	1.295692	1.703491	.0000000	.0000000	.0000000	.0000000
8	1.076290	.9787840	1.126949	1.491496	.0000000	.0000000	.0000000	.0000000
9	.9695723	.8757562	1.007495	1.339582	.0000000	.0000000	.0000000	.0000000
10	.8806638	.7917426	.9103303	1.214260	.0000000	.0000000	.0000000	.0000000
11	.8047071	.7215573	.8293760	1.108275	.0000000	.0000000	.0000000	.0000000
12	.7384639	.6617434	.7605792	1.016794	.0000000	.0000000	.0000000	.0000000
13	.6796932	.6099076	.7011349	.9364704	.0000000	.0000000	.0000000	.0000000
14	.6267935	.5643402	.6490384	.8649126	.0000000	.0000000	.0000000	.0000000
15	.5785906	.5237875	.6028206	.8003678	.0000000	.0000000	.0000000	.0000000
16	.5342041	.4873095	.5613791	.7415210	.0000000	.0000000	.0000000	.0000000
17	.4929601	.4541867	.5238709	.6873665	.0000000	.0000000	.0000000	.0000000
18	.4543352	.4238604	.4896407	.6371223	.0000000	.0000000	.0000000	.0000000
19	.4179158	.3958887	.4581708	.5901715	.0000000	.0000000	.0000000	.0000000
20	.3895249	.3727367	.4318833	.5526218	.0000000	.0000000	.0000000	.0000000
21	.3719719	.3555274	.4118610	.5273748	.0000000	.0000000	.0000000	.0000000
22	.3558067	.3397999	.3935757	.5042000	.0000000	.0000000	.0000000	.0000000
23	.3408481	.3253608	.3768006	.4828268	.0000000	.0000000	.0000000	.0000000
24	.3269454	.3120489	.3613470	.4630302	.0000000	.0000000	.0000000	.0000000
25	.3139719	.2997292	.3470563	.4446209	.0000000	.0000000	.0000000	.0000000
26	.3018204	.2882870	.3337945	.4274388	.0000000	.0000000	.0000000	.0000000
27	.2903994	.2776249	.3214470	.4113477	.0000000	.0000000	.0000000	.0000000
28	.2796309	.2676594	.3099161	.3962307	.0000000	.0000000	.0000000	.0000000
29	.2694471	.2583182	.2991171	.3819868	.0000000	.0000000	.0000000	.0000000
30	.2597898	.2495391	.2889770	.3685290	.0000000	.0000000	.0000000	.0000000
31	.2506079	.2412677	.2794319	.3557810	.0000000	.0000000	.0000000	.0000000
32	.2418569	.2334562	.2704261	.3436763	.0000000	.0000000	.0000000	.0000000
33	.2334976	.2260630	.2619105	.3321564	.0000000	.0000000	.0000000	.0000000
34	.2254954	.2190510	.2538420	.3211700	.0000000	.0000000	.0000000	.0000000
35	.2178197	.2123877	.2461820	.3106709	.0000000	.0000000	.0000000	.0000000
36	.2104433	.2060440	.2388967	.3006187	.0000000	.0000000	.0000000	.0000000
37	.2033420	.1999939	.2319557	.2909773	.0000000	.0000000	.0000000	.0000000
38	.1964941	.1942143	.2253317	.2817141	.0000000	.0000000	.0000000	.0000000
39	.1898799	.1886844	.2190004	.2728000	.0000000	.0000000	.0000000	.0000000
40	.1834821	.1833854	.2129398	.2642089	.0000000	.0000000	.0000000	.0000000
41	.1772848	.1783005	.2071301	.2559171	.0000000	.0000000	.0000000	.0000000
42	.1712736	.1734143	.2015534	.2479033	.0000000	.0000000	.0000000	.0000000
43	.1654356	.1687131	.1961935	.2401481	.0000000	.0000000	.0000000	.0000000
44	.1597589	.1641841	.1910355	.2326338	.0000000	.0000000	.0000000	.0000000
45	.1542329	.1598159	.1860660	.2253443	.0000000	.0000000	.0000000	.0000000
46	.1488476	.1555980	.1812728	.2182651	.0000000	.0000000	.0000000	.0000000
47	.1435941	.1515208	.1766445	.2113827	.0000000	.0000000	.0000000	.0000000
48	.1384041	.1473591	.1719036	.2045032	.0000000	.0000000	.0000000	.0000000
49	.1329148	.1415067	.1650603	.1963510	.0000000	.0000000	.0000000	.0000000
50	.1277495	.1359999	.1586214	.1886808	.0000000	.0000000	.0000000	.0000000
51	.1228832	.1308119	.1525556	.1814553	.0000000	.0000000	.0000000	.0000000
52	.1182931	.1259187	.1468346	.1746408	.0000000	.0000000	.0000000	.0000000
53	.1139587	.1212981	.1414327	.1682065	.0000000	.0000000	.0000000	.0000000
54	.1098613	.1169302	.1363266	.1621246	.0000000	.0000000	.0000000	.0000000
55	.1059838	.1127969	.1314949	.1563697	.0000000	.0000000	.0000000	.0000000
56	.1023107	.1088816	.1269183	.1509189	.0000000	.0000000	.0000000	.0000000
57	.0988279	.1051693	.1225791	.1457510	.0000000	.0000000	.0000000	.0000000
58	.0955223	.1016460	.1184611	.1408467	.0000000	.0000000	.0000000	.0000000
59	.0923822	.0982992	.1145495	.1361884	.0000000	.0000000	.0000000	.0000000
60	.0893967	.0951171	.1108307	.1317597	.0000000	.0000000	.0000000	.0000000
61	.0865556	.0920891	.1072922	.1275459	.0000000	.0000000	.0000000	.0000000
62	.0838498	.0892055	.1039225	.1235332	.0000000	.0000000	.0000000	.0000000
63	.0812709	.0864571	.1007110	.1197090	.0000000	.0000000	.0000000	.0000000
64	.0788109	.0838355	.0976478	.1160616	.0000000	.0000000	.0000000	.0000000
65	.0764627	.0813331	.0947241	.1125802	.0000000	.0000000	.0000000	.0000000

Table B-24
Nueces County 2007 RSTL, CC, HTSK, and Diurnal Emission Rates

Speed	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
--	.0359082	.0366620	.0317119	.0461432	.0000000	.0000000	.0000000	.6726353
--	.0078025	.0091393	.0093331	.0105171	.0000000	.0000000	.0000000	.0000000
--	.1048892	.1104434	.1019978	.6794949	.0000000	.0000000	.0000000	2.845960
--	.0870063	.1063857	.0950648	.2586627	.0000000	.0000000	.0000000	1.788144

APPENDIX C

NUECES COUNTY SUMALL OUTPUT TABLES FOR FY93, FY96, FY99, AND FY07 COAST PROJECT

Provided in this appendix are SUMALL program output tables showing the following for each assignment:

- Vehicle miles of travel cross-classified by vehicle type and roadway type
- Vehicle hours of travel cross-classified by vehicle type and roadway type
- Average operational speeds weighted by VMT cross-classified by vehicle type and roadway type
- Pounds of VOC pollution cross-classified by vehicle type and roadway type
- Pounds of CO pollution cross-classified by vehicle type and roadway type
- Pounds of NOx pollution cross-classified by vehicle type and roadway type

Corpus Christi August 1993 VMT
24 Hours

VEHICLE MILES OF TRAVEL

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	2309000.88	640348.42	318116.16	131226.14	17936.10	7343.24	185719.85	18749.23	3628440.01
Rural 1	628368.58	174263.61	86571.73	35711.71	4881.11	1998.38	50541.56	5102.39	987439.07
Urban 2	1910622.43	529867.29	263230.68	108585.32	14841.53	6076.29	153677.08	15514.38	3002415.00
Rural 2	67292.08	18661.91	9270.98	3824.37	522.72	214.01	5412.50	546.42	105744.99
TOTALS	4915283.97	1363141.23	677189.54	279347.54	38181.46	15631.91	395351.00	39912.42	7724039.07

VEHICLE HOURS

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	55867.430	15493.550	7696.979	3175.082	433.973	177.673	4493.585	453.647	87791.919
Rural 1	12301.656	3411.582	1694.826	699.133	95.558	39.123	989.459	99.890	19331.227
Urban 2	78176.041	21680.331	10770.486	4442.934	607.264	248.621	6287.933	634.794	122848.404
Rural 2	1915.516	531.224	263.905	108.863	14.880	6.092	154.071	15.554	3010.105
TOTALS	148260.642	41116.687	20426.197	8426.013	1151.675	471.508	11925.047	1203.886	232981.655

AVERAGE OPERATIONAL SPEED WEIGHTED BY VMT

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE							
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
Urban 1	41.33	41.33	41.33	41.33	41.33	41.33	41.33	41.33
Rural 1	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08
Urban 2	24.44	24.44	24.44	24.44	24.44	24.44	24.44	24.44
Rural 2	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13

C-5

Corpus Christi August 1993 VMT
24 Hours

POUNDS OF VOC POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	10005.2	3477.6	1954.3	1504.1	16.4	9.7	691.4	368.9	18027.5
Rural 1	2441.9	874.1	489.2	375.4	3.9	2.3	163.6	99.2	4449.5
Urban 2	11750.6	3921.5	2211.3	1736.5	21.0	12.5	888.3	333.9	20875.7
Rural 2	324.7	110.7	62.3	47.9	0.5	0.3	23.0	11.0	580.4
TOTALS	24522.3	8383.9	4717.2	3663.8	41.8	24.8	1766.3	813.1	43933.1

POUNDS OF CO POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	72403.0	26529.4	14349.2	14225.8	33.8	16.1	2840.9	537.1	130935.3
Rural 1	17851.3	6732.5	3598.4	4011.3	8.9	4.2	744.2	129.3	33080.1
Urban 2	90608.4	32009.1	17480.7	18152.4	45.0	21.5	3781.2	803.5	162901.9
Rural 2	2380.8	857.9	466.7	451.8	1.1	0.5	92.8	18.7	4270.3
TOTALS	183243.5	66128.9	35895.0	36841.3	88.8	42.4	7459.1	1488.6	331187.6

POUNDS OF NOX POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	9297.4	3146.1	1623.7	1792.6	59.5	28.3	7309.9	41.7	23299.3
Rural 1	2894.4	980.8	509.4	523.1	19.2	9.2	2361.7	13.0	7310.7
Urban 2	7322.7	2423.5	1252.3	1297.8	50.3	24.0	6182.3	28.3	18581.1
Rural 2	266.9	90.0	46.4	49.8	1.7	0.8	204.9	1.2	661.7
TOTALS	19781.4	6640.3	3431.8	3663.3	130.6	62.3	16058.9	84.2	49852.8

C-6

Corpus Christi August 1996 VMT
24 Hours

VEHICLE MILES OF TRAVEL

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC	
Urban 1	2400852.97	710724.83	342247.95	139459.46	10317.97	4985.27	211851.89	18520.68	3838961.03
Rural 1	653365.68	193415.93	93139.01	37952.35	2807.92	1356.69	57653.16	5040.20	1044730.94
Urban 2	1986627.47	588101.60	283199.01	115398.15	8537.79	4125.15	175300.53	15325.26	3176614.95
Rural 2	69968.76	20712.86	9974.23	4064.31	300.70	145.29	6174.06	539.75	111879.97
TOTALS	5110814.89	1512955.22	728560.20	296874.27	21964.38	10612.40	450979.64	39425.89	8172186.89

VEHICLE HOURS

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC	
Urban 1	58089.837	17196.342	8280.860	3374.291	249.649	120.621	5125.862	448.117	92885.580
Rural 1	12791.027	3786.530	1823.395	742.998	54.971	26.560	1128.684	98.673	20452.838
Urban 2	81285.903	24063.077	11587.521	4721.692	349.337	168.787	7172.689	627.056	129976.062
Rural 2	1991.710	589.606	283.924	115.693	8.560	4.136	175.749	15.364	3184.742
TOTALS	154158.478	45635.555	21975.699	8954.675	662.516	320.104	13602.984	1189.211	246499.221

AVERAGE OPERATIONAL SPEED WEIGHTED BY VMT

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE							
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC
Urban 1	41.33	41.33	41.33	41.33	41.33	41.33	41.33	41.33
Rural 1	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08
Urban 2	24.44	24.44	24.44	24.44	24.44	24.44	24.44	24.44
Rural 2	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13

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Corpus Christi August 1996 VMT
24 Hours

POUNDS OF VOC POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	8878.0	3219.6	1739.8	1273.7	9.5	6.5	661.4	353.9	16142.5
Rural 1	2146.5	801.6	432.1	317.9	2.2	1.5	156.5	95.3	3953.8
Urban 2	10547.1	3647.3	1982.1	1460.8	12.2	8.4	849.8	317.2	18824.8
Rural 2	289.6	102.8	55.7	40.5	0.3	0.2	22.0	10.5	521.6
TOTALS	21861.2	7771.3	4209.7	3092.8	24.2	16.7	1689.8	777.0	39442.6

POUNDS OF CO POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	60694.2	23330.4	12916.4	10664.1	19.6	10.9	3003.3	530.6	111169.4
Rural 1	14660.6	5753.5	3190.2	3007.0	5.1	2.8	786.7	127.7	27533.8
Urban 2	79726.7	29434.9	15976.8	13607.7	26.1	14.4	3997.3	793.7	143577.6
Rural 2	2031.3	768.7	423.3	338.7	0.6	0.4	98.1	18.5	3679.5
TOTALS	157112.8	59287.5	32506.7	27617.5	51.5	28.5	7885.4	1470.4	285960.3

POUNDS OF NOX POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	9185.9	3190.7	1674.0	1815.3	33.5	18.4	6785.5	41.2	22744.6
Rural 1	2816.2	985.8	519.3	529.7	10.8	5.9	2192.3	12.8	7072.9
Urban 2	7260.6	2522.3	1321.0	1314.2	28.4	15.5	5738.8	28.0	18228.8
Rural 2	264.4	91.9	48.2	50.5	0.9	0.5	190.2	1.1	647.7
TOTALS	19527.1	6790.7	3562.6	3709.6	73.7	40.3	14906.8	83.2	48694.0

Corpus Christi August 1999 VMT
24 Hours

VEHICLE MILES OF TRAVEL

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	2449277.47	760898.45	359101.55	145118.10	6235.79	4366.37	233681.01	17977.27	3976656.01
Rural 1	666543.21	207069.92	97725.43	39492.25	1697.00	1188.26	63593.65	4892.31	1082202.03
Urban 2	2026696.53	629618.44	297144.72	120080.46	5159.91	3613.03	193363.35	14875.60	3290552.02
Rural 2	71380.09	22175.11	10465.41	4229.22	181.73	127.25	6810.24	523.92	115892.98
TOTALS	5213897.29	1619761.93	764437.10	308920.04	13274.44	9294.90	497448.25	38269.09	8465303.04

VEHICLE HOURS

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	59261.492	18410.318	8688.641	3511.205	150.878	105.646	5654.029	434.969	96217.179
Rural 1	13049.006	4053.836	1913.184	773.145	33.222	23.263	1244.981	95.777	21186.414
Urban 2	82925.390	25761.802	12158.131	4913.276	211.126	147.832	7911.757	608.658	134637.971
Rural 2	2031.884	631.230	297.905	120.388	5.173	3.622	193.858	14.914	3298.975
TOTALS	157267.772	48857.186	23057.861	9318.014	400.399	280.364	15004.626	1154.318	255340.539

AVERAGE OPERATIONAL SPEED WEIGHTED BY VMT

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE							
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC
Urban 1	41.33	41.33	41.33	41.33	41.33	41.33	41.33	41.33
Rural 1	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08
Urban 2	24.44	24.44	24.44	24.44	24.44	24.44	24.44	24.44
Rural 2	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13

Corpus Christi August 1999 VMT
24 Hours

POUNDS OF VOC POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	8164.9	3045.1	1558.8	1005.4	5.0	4.7	650.9	341.1	14775.9
Rural 1	1967.2	754.2	384.5	250.4	1.2	1.1	154.0	91.9	3604.5
Urban 2	9823.5	3489.6	1800.7	1155.6	6.4	6.0	836.3	304.9	17423.1
Rural 2	267.2	97.6	50.1	32.0	0.2	0.2	21.7	10.1	479.0
TOTALS	20222.8	7386.5	3794.2	2443.5	12.7	12.0	1662.9	748.0	36282.5

POUNDS OF CO POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	52695.0	20797.4	11296.9	7257.4	11.0	8.5	3142.1	515.0	95723.3
Rural 1	12333.6	4985.5	2719.7	2046.4	2.9	2.2	823.1	124.0	23037.4
Urban 2	75167.1	28223.2	14916.0	9260.6	14.6	11.3	4182.2	770.4	132545.4
Rural 2	1816.9	703.4	378.9	230.5	0.4	0.3	102.6	17.9	3250.9
TOTALS	142012.5	54709.5	29311.5	18794.9	28.8	22.3	8250.0	1427.3	254556.9

POUNDS OF NOX POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	8697.6	3123.0	1656.3	1786.9	17.4	13.4	5914.6	40.0	21249.3
Rural 1	2637.0	958.0	509.4	521.4	5.6	4.3	1910.9	12.5	6559.1
Urban 2	6877.6	2506.7	1327.3	1293.6	14.7	11.3	5002.3	27.2	17060.7
Rural 2	250.5	90.3	47.9	49.7	0.5	0.4	165.8	1.1	606.1
TOTALS	18462.7	6678.0	3540.9	3651.6	38.2	29.5	12993.6	80.8	45475.2

Corpus Christi August 2007 VMT
24 Hours

VEHICLE MILES OF TRAVEL

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC	
Urban 1	2606743.92	879382.20	404700.93	162926.05	7502.19	10397.97	297690.38	16873.34	4386216.97
Rural 1	709396.23	239314.04	110134.84	44338.50	2041.64	2829.69	81013.11	4591.89	1193659.94
Urban 2	2156995.26	727659.99	334876.77	134815.97	6207.81	8603.98	246329.05	13962.14	3629450.96
Rural 2	75969.22	25628.13	11794.34	4748.21	218.64	303.03	8675.69	491.75	127829.01
TOTALS	5549104.64	1871984.36	861506.87	346828.73	15970.27	22134.67	633708.23	35919.11	9337156.88

VEHICLE HOURS

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC	
Urban 1	63071.472	21277.092	9791.941	3942.077	181.519	251.584	7202.768	408.259	106126.711
Rural 1	13887.945	4685.083	2156.124	868.021	39.969	55.397	1586.005	89.896	23368.440
Urban 2	88256.762	29773.322	13701.996	5516.202	254.002	352.045	10078.930	571.282	148504.540
Rural 2	2162.517	729.523	335.734	135.161	6.224	8.626	246.960	13.998	3638.742
TOTALS	167378.696	56465.019	25985.795	10461.461	481.714	667.652	19114.662	1083.435	281638.434

AVERAGE OPERATIONAL SPEED WEIGHTED BY VMT

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE							
	LDGV	LDGT1	LDGT2	HGV	LDDV	LDDT	HDDV	MC
Urban 1	41.33	41.33	41.33	41.33	41.33	41.33	41.33	41.33
Rural 1	51.08	51.08	51.08	51.08	51.08	51.08	51.08	51.08
Urban 2	24.44	24.44	24.44	24.44	24.44	24.44	24.44	24.44
Rural 2	35.13	35.13	35.13	35.13	35.13	35.13	35.13	35.13

Corpus Christi August 2007 VMT
24 Hours

POUNDS OF VOC POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	6935.6	2829.2	1438.2	779.4	4.6	8.9	750.5	320.1	13066.4
Rural 1	1666.6	695.5	351.5	193.4	1.1	2.1	177.6	86.3	3173.9
Urban 2	8525.0	3306.6	1709.3	911.1	5.9	11.5	964.2	286.1	15719.7
Rural 2	227.9	91.2	46.6	24.9	0.2	0.3	25.0	9.5	425.6
TOTALS	17355.0	6922.5	3545.6	1908.7	11.7	22.8	1917.3	702.0	32385.6

POUNDS OF CO POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	44897.1	19100.8	10100.9	4314.6	11.6	18.1	3792.4	483.4	82718.9
Rural 1	9806.8	4328.6	2292.7	1216.6	3.0	4.7	993.4	116.4	18762.2
Urban 2	73617.2	28953.0	15255.7	5505.5	15.5	24.1	5047.6	723.1	129141.7
Rural 2	1636.4	674.9	356.4	137.0	0.4	0.6	123.9	16.8	2946.5
TOTALS	129957.5	53057.3	28005.7	11173.7	30.6	47.5	9957.3	1339.7	233569.3

POUNDS OF NOX POLLUTION

COUNTY: Nueces

ROADWAY TYPE	VEHICLE TYPE								TOTALS
	LDGV	LDGT1	LDGT2	HDGV	LDDV	LDDT	HDDV	MC	
Urban 1	8319.7	3125.2	1705.0	1718.9	16.3	25.7	4589.0	37.6	19537.3
Rural 1	2490.0	950.5	518.6	501.5	5.3	8.3	1482.6	11.7	5968.6
Urban 2	6592.1	2558.2	1395.6	1244.4	13.8	21.7	3881.1	25.5	15732.4
Rural 2	239.8	90.8	49.6	47.8	0.5	0.7	128.6	1.0	558.8
TOTALS	17641.6	6724.7	3668.8	3512.6	35.8	56.5	10081.4	75.8	41797.2