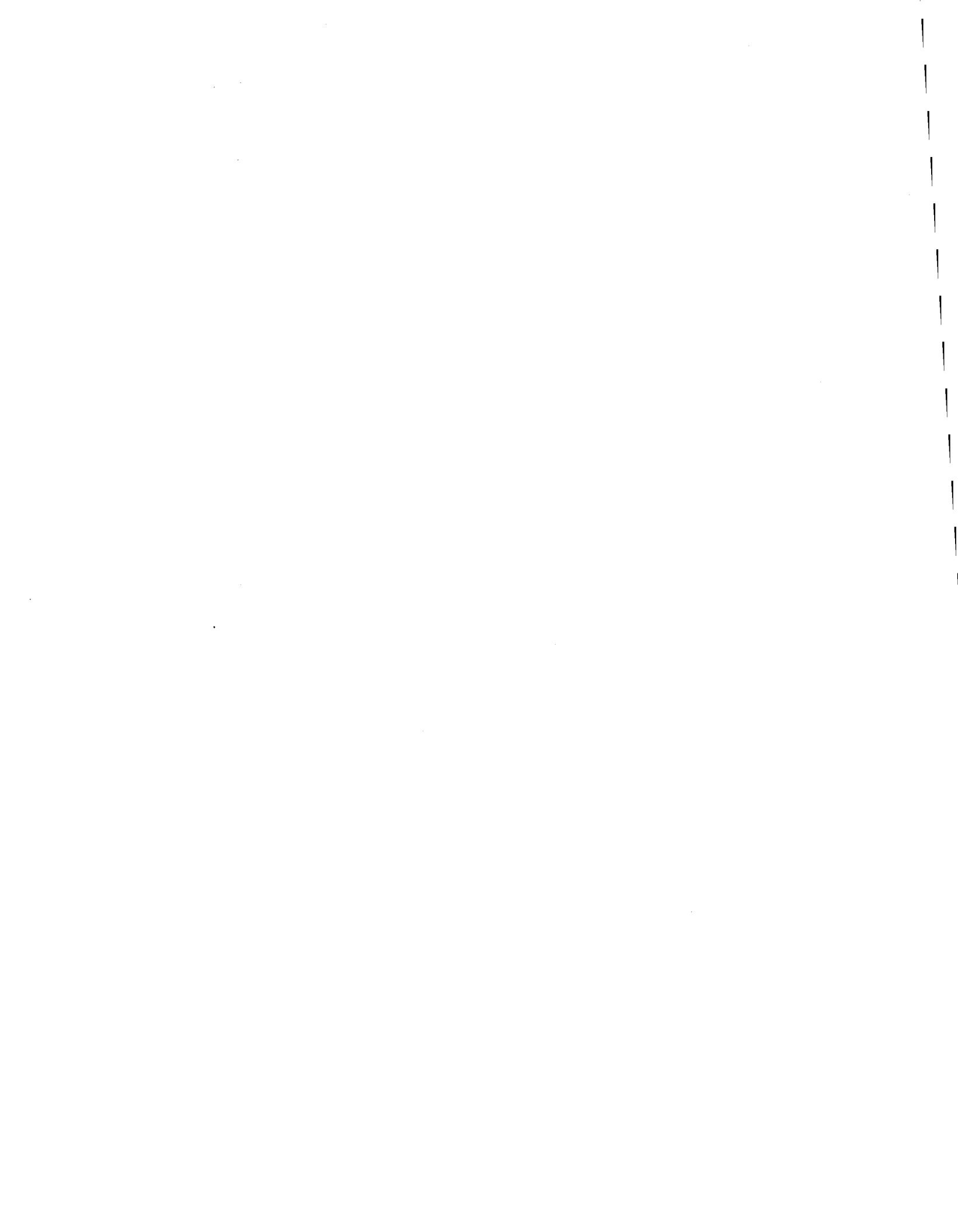


1. Recipient's Catalog No.	
4. Title and Subtitle 1997 Final Status Report of Project 187.9 Continued Monitoring of Pavement Test Sections	5. Report Date November 1997
7. Author(s) David W. Fowler and David Whitney	6. Performing Organization Code
9. Performing Organization Name and Address Center for Transportation Research The University of Texas at Austin 3208 Red River, Suite 200 Austin, Texas 78705-2650	8. Performing Organization Report No. Final Status Report
12. Sponsoring Agency Name and Address Texas Department of Transportation Research and Technology Transfer Office P. O. Box 5080 Austin, Texas 78763-5080	10. Work Unit No. (TRIS)
15. Supplementary Notes Study conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration. Research study title: "Continued Monitoring of Pavement Test Sections"	11. Contract or Grant No. Research Study 0-187.9
16. Abstract Project 187.9 involved the continued monitoring of pavement test sections. The objective of this project has been to monitor seal coat test sections which were set up in Project 1222. Monitoring of each site included a visual survey, photographic records, texture readings, frictional, readings, and maintenance of the data base. The texture values and frictional values are included in this report. The visual survey and photographic records of each site are in a separate report. This data update is the last deliverable for this project. Any sections which are still open will continue to be monitored as a part of TxDOT's in-house project 7-3994.	13. Type of Report and Period Covered Final Status Report
17. Key Words Seal coats, texture values, frictional values	14. Sponsoring Agency Code
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21. No. of Pages 54	22. Price



1997 Final Status Report of Project 187.9

Continued Monitoring of Pavement Test Sections

Introduction

Project 187.9 is the Continued Monitoring of Pavement Test Sections. The objective of this project has been to monitor seal coat test sections which were set-up in Project 1222. Monitoring of each site included a visual survey, photographic records, texture readings, frictional readings and maintenance of the data base. The texture values and frictional values are included in this report and the data base is on the attached disk . The visual survey and photographic records of each site are in a separate binder. This data update is the last deliverable for this expiring project. Any sections which are still open will continue to be monitored as a part of Texas Department of Transportation Materials and Tests Division's in-house research, Project 7-3994.

Status Report of Project 187.9 as of October 1997

Test Sections

Total number of test sections = 39

Number of remaining test sections = 13

Number of closed test sections = 26

Table 2: Status of Test Sections (187.9): HMAC, Seal Coat, and Micro Surfaces

Surface	HMAC	Seal Coat	Micro	Total
Number of Open Sections	9	4	0	13
Number of Closed Sections	12	9	5	26

All test sections are closed in Abilene

Table 3: Remaining Test Sections (187.9)

District	Test Section	Last Skid Number Testing	Last Visual Condition Survey
Austin (14)	AUS-2	June 12, 1997	July 17, 1997
Corpus Christi (16)	C-3	October 1, 1997	July 15, 1997
Lubbock (5)	L-5	October 17, 1996	October 17, 1996
	L-6	October 16, 1996	October 16, 1996
Odessa (6)	OD-1	September 9, 1997	May 21, 1997
San Angelo (7)	SA-1	September 9, 1997	May 19, 1997
	SA-16	September 9, 1997	May 19, 1997
	SA-30	January 29, 1997	May 19, 1997
Waco (9)	W-1	October 4, 1997	June 24, 1997
	W-2	October 4, 1997	June 24, 1997
	W-3	October 4, 1997	June 24, 1997
	W-4	October 4, 1997	June 24, 1997
	W-6	October 4, 1997	June 24, 1997

Key to Test Abbreviations

AGTY.....	Aggregate Type
SPGR.....	Specific Gravity
ABSP.....	Absorption
DCL.....	Decantation Test Loss
PV.....	Accelerated Polish Value Test
INRD.....	Insoluble Residue Test (Carbonate Aggregates)
MSS.....	Magnesium Sulfate Soundness Test
FRTH.....	Coarse Aggregate Freeze-Thaw Test
LA.....	Los Angeles Abrasion Test Loss
ADI.....	Aggregate Durability Test Index
TDT.....	Texas Degradation Test



187.9
(old 1222)

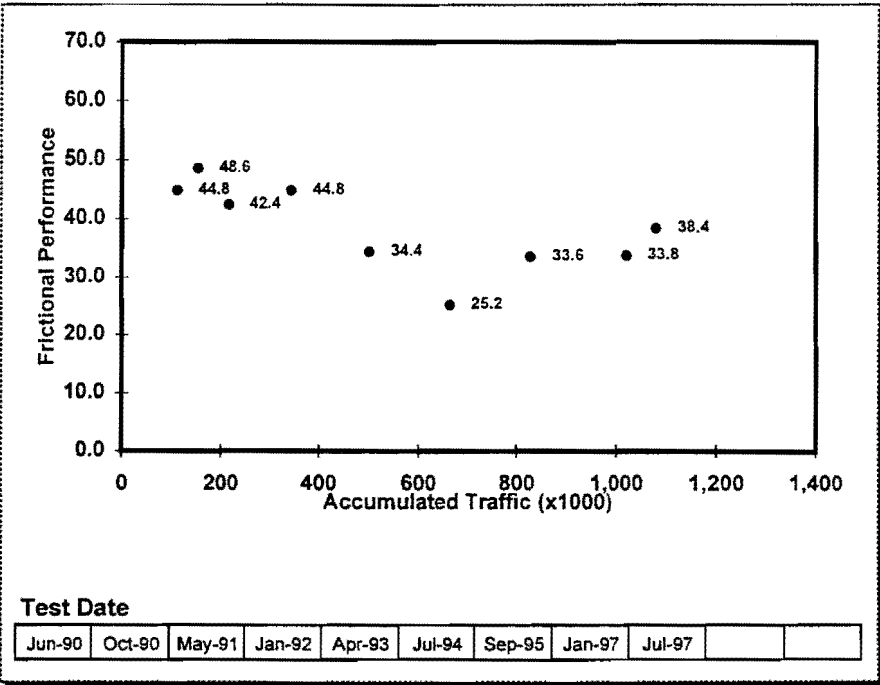
Producer: Prace Construction
 Pit: Clements

SECTION STATUS: CLOSED

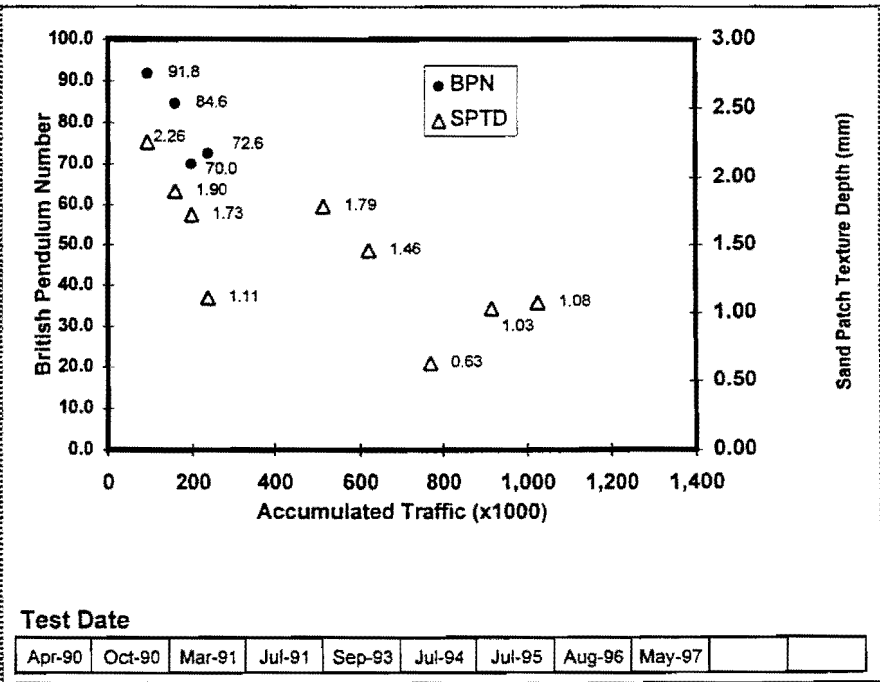
SECTION: A1
 DISTRICT: Abilene
 AGTY: LS

FN:

SPGR:
 ABSP:
 DCL:
 PV: 39.0
 INRD:
 MSS: 16.3
 FRTH:
 LA: 27.0
 ADI:
 TDT: 7.6



BP and SPTD:



Date of Const: 6/14/89
 Date Covered:

Reason Covered: District has not yet returned survey.

Producer: **Prace Construction**

SECTION STATUS: **CLOSED**

Pit: **Tubb**

SECTION: **A2**

FN:

DISTRICT: **Abilene**

AGTY: **LS**

SPGR: **2.5**

ABSP: **5.5**

DCL:

PV: **42.0**

INRD:

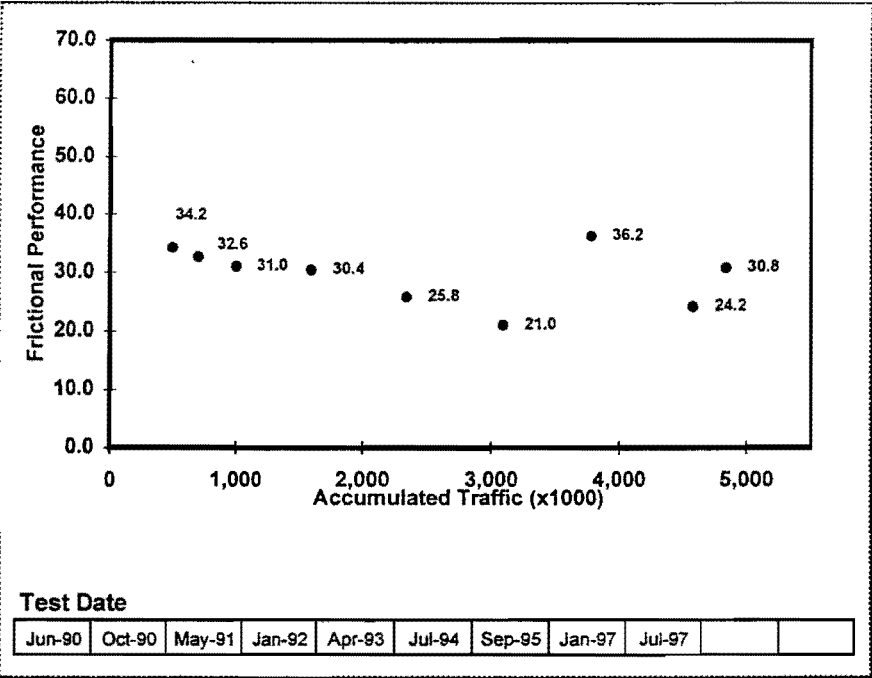
MSS: **30.8**

FRTH:

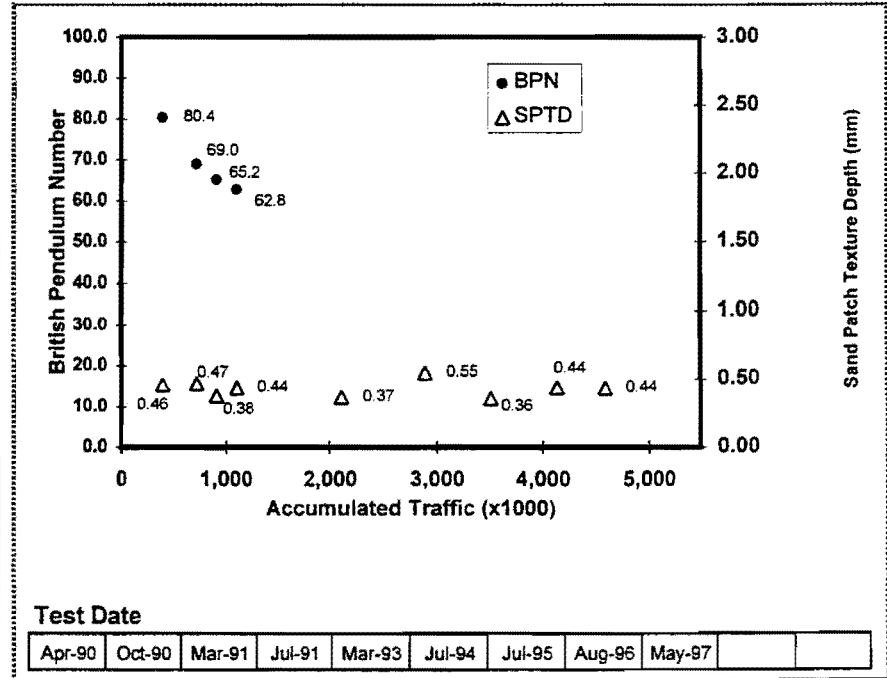
LA: **39.0**

ADI:

TDT: **11.9**



BP and SPTD:



Date of

Const: **7/5/89**

Date

Covered:

Reason Covered: **District has not yet returned survey.**

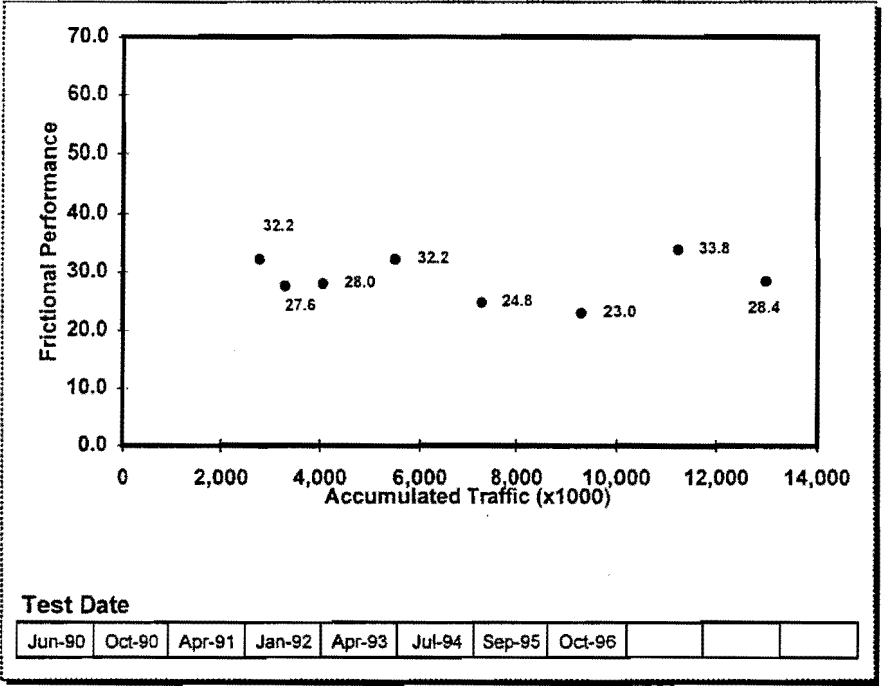
Producer: **Strain & Sons**
 Pit: **Hutcheson**

SECTION STATUS: **CLOSED**

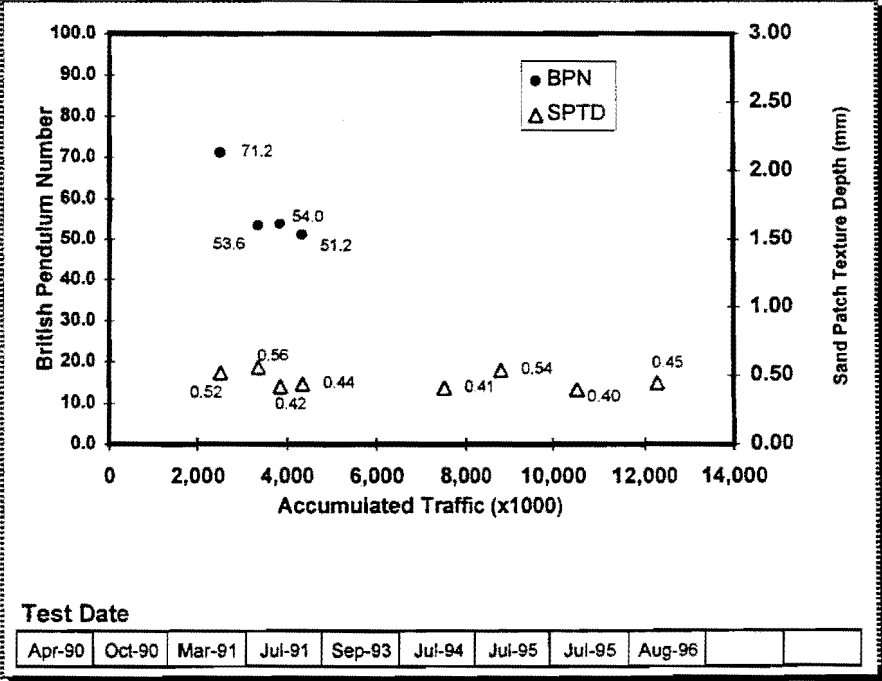
SECTION: **A4**
 DISTRICT: **Abilene**
 AGTY: **LS**

FN:

SPGR: **2.4**
 ABSP: **1.8**
 DCL:
 PV: **33.0**
 INRD:
 MSS: **18.1**
 FRTH:
 LA: **29.0**
 ADI:
 TDT: **8.1**



BP and SPTD:



Date of Const: **6/10/88**
 Date Covered:

Reason Covered: **District has not yet returned survey.**

Producer: **Strain & Sons**

SECTION STATUS: **CLOSED**

Pit: **Hutcheson**

SECTION: **A5**

FN:

DISTRICT: **Abilene**

AGTY: **LS**

SPGR: **2.4**

ABSP: **1.8**

DCL:

PV: **33.0**

INRD:

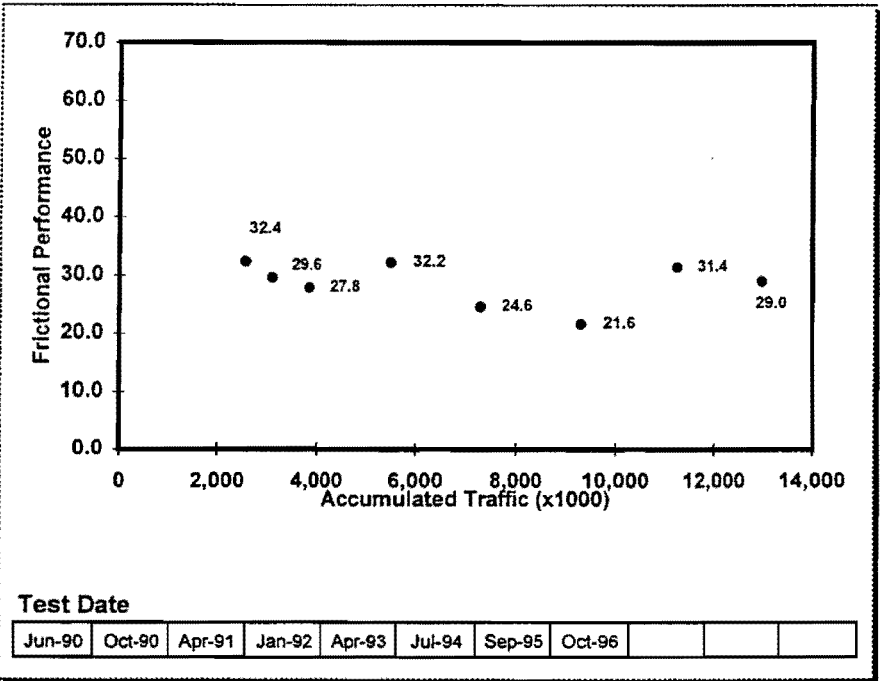
MSS: **18.1**

FRTH:

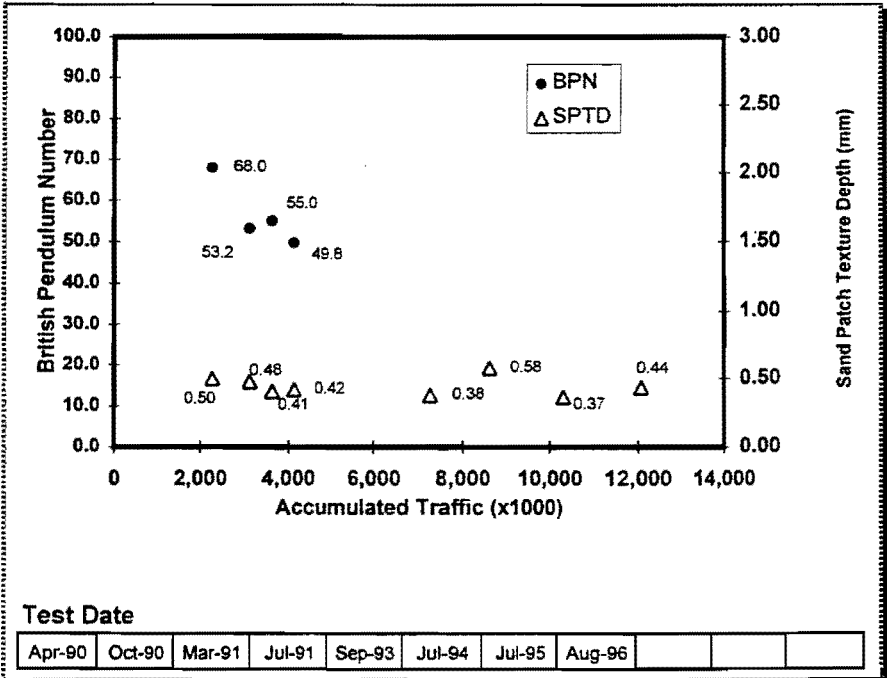
LA: **29.0**

ADI:

TDT: **8.1**



BP and SPTD:



Date of

Const: **8/9/88**

Date

Covered:

Reason

Covered: District has not yet returned survey.

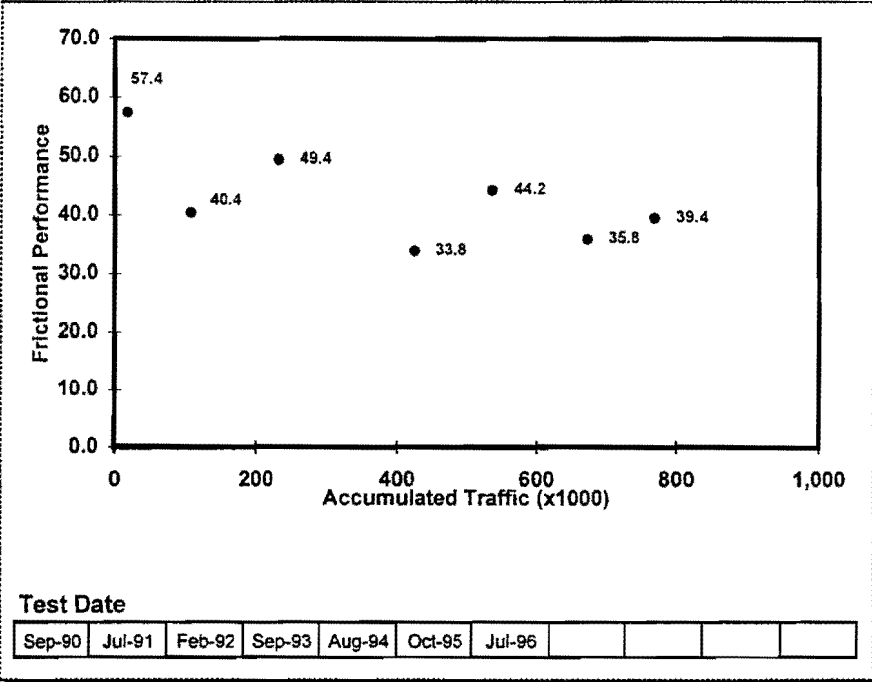
Producer: Delta Capital Aggregate
 Pit: Wood

SECTION STATUS: CLOSED

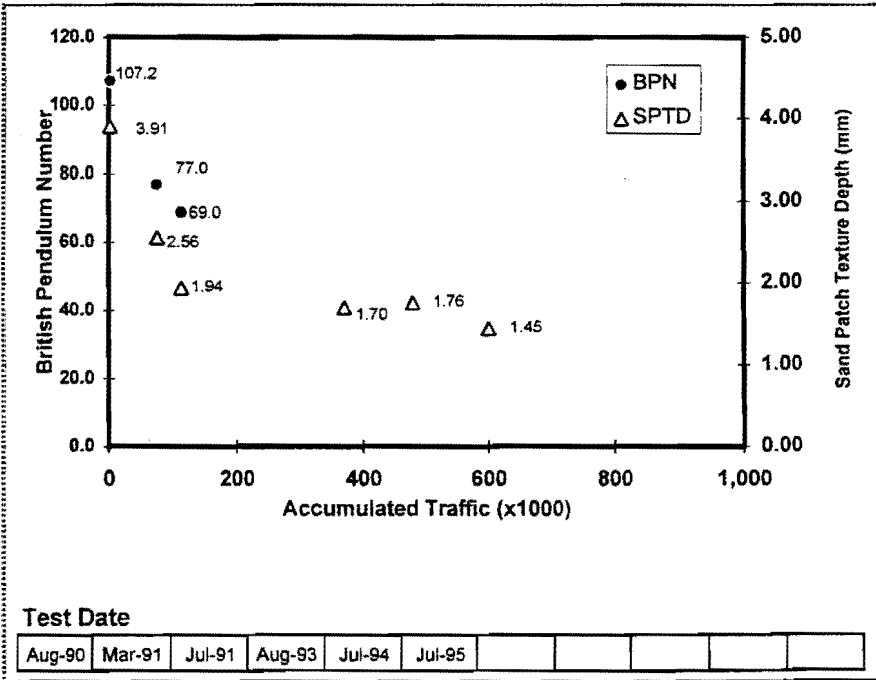
SECTION: AUS1
 DISTRICT: Austin
 AGTY: LS

FN:

SPGR:
 ABSP:
 DCL:
 PV: 29.0
 INRD:
 MSS: 2.9
 FRTH:
 LA: 25.0
 ADI:
 TDT: 4.7



BP and SPTD:



Date of Const: 8/1/90
 Date Covered: Sep-96

Reason Covered: Maintenance Contract

Producer: **Texas Crushed Stone**

SECTION STATUS: **OPEN**

Pit: **Georgetown**

SECTION: **AUS2**

FN:

DISTRICT: **Austin**

AGTY: **LS**

SPGR: **2.4**

ABSP: **4.3**

DCL:

PV: **34.0**

INRD:

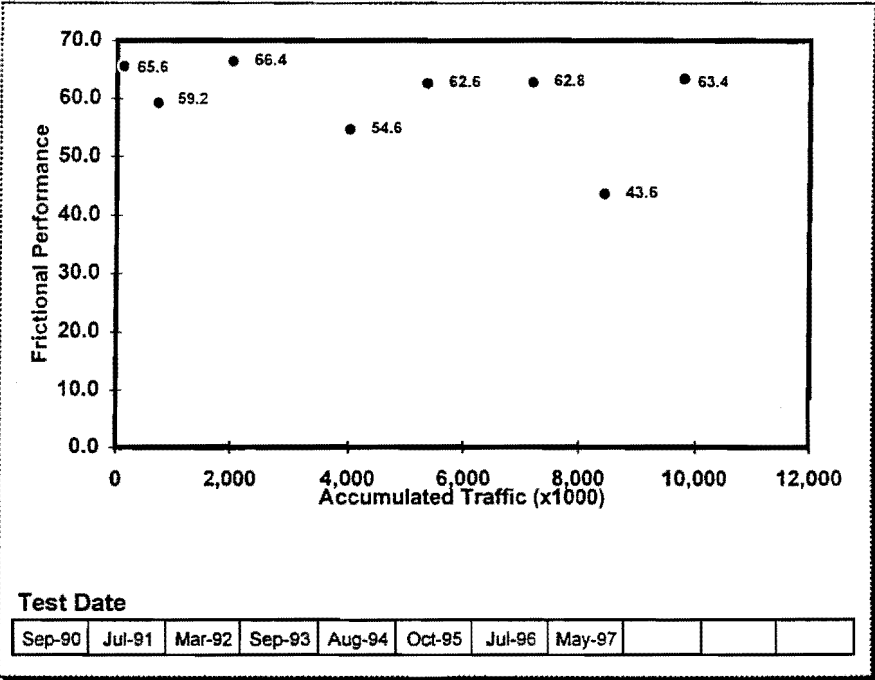
MSS: **2.3**

FRTH:

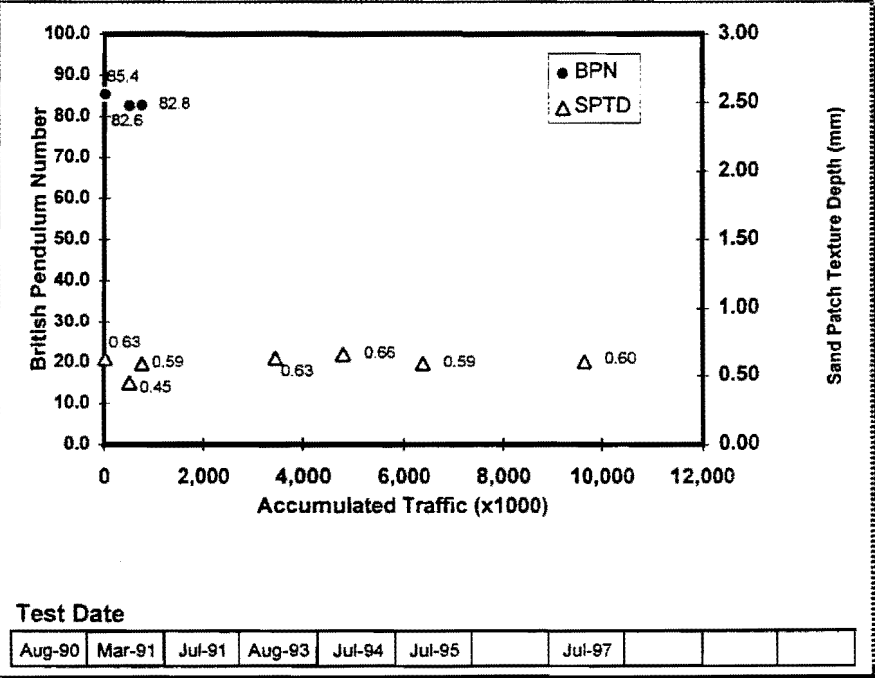
LA: **31.0**

ADI:

TDT: **5.7**



BP and SPTD:



Date of

Const: **7/30/90**

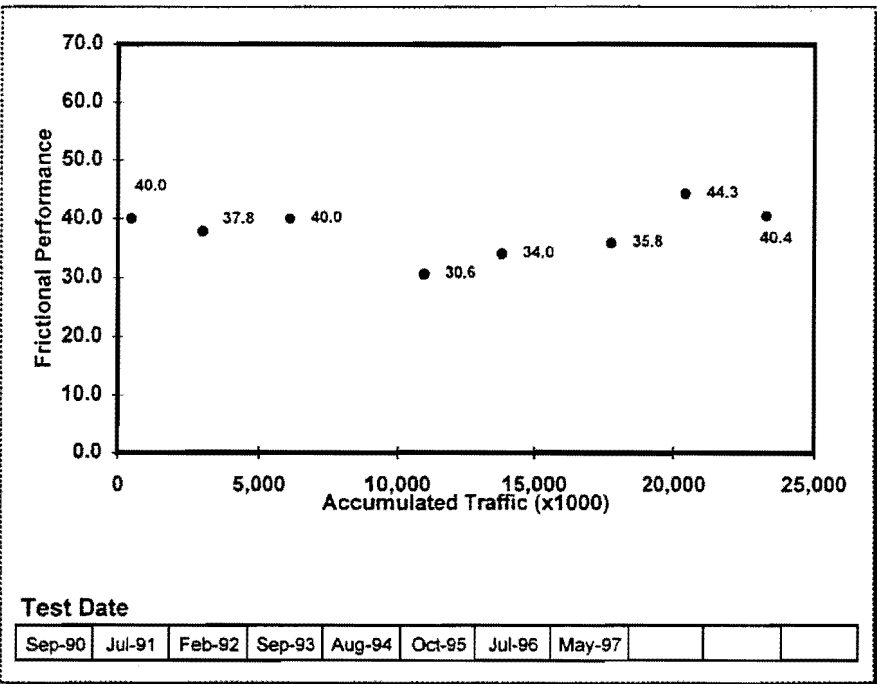
Producer: Colorado Materials
 Pit: Hunter

SECTION STATUS: CLOSED

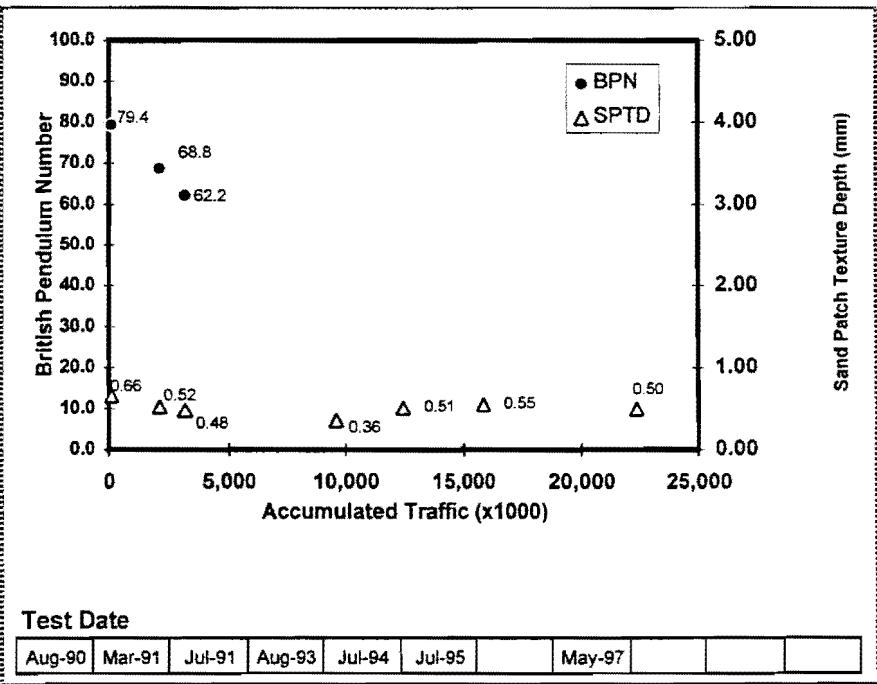
SECTION: AUS3
 DISTRICT: Austin
 AGTY: LS

FN:

SPGR: 2.6
 ABSP: 1.2
 DCL:
 PV: 30.0
 INRD:
 MSS: 5.4
 FRTH:
 LA: 27.0
 ADI:
 TDT: 6.0



BP and SPTD:



Date of Const: 7/26/90
 Date Covered: Jul/Aug 97

Reason Covered: Test section and surrounding areas cracked.

Producer: **Delta Capitol Aggregate**

SECTION STATUS: **CLOSED**

Pit: **Brownlee**

SECTION: **AUS4**

FN:

DISTRICT: **Austin**

AGTY: **SS**

SPGR: **2.6**

ABSP: **2.7**

DCL:

PV: **43.0**

INRD:

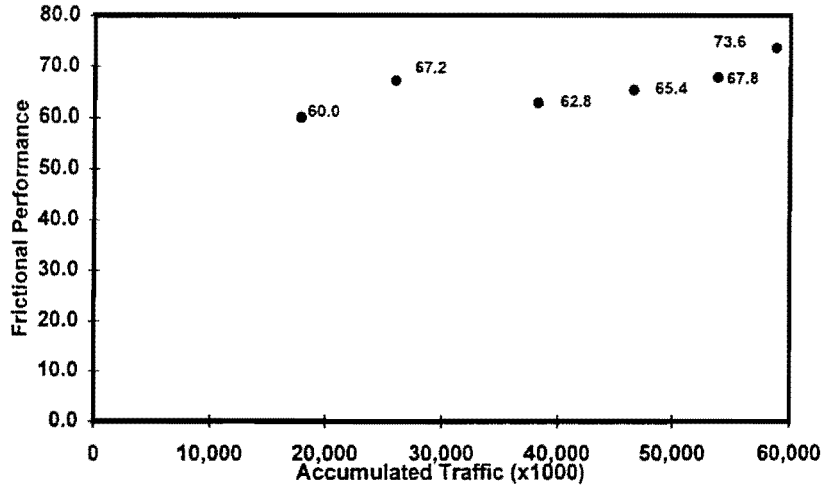
MSS: **18.7**

FRTH:

LA: **21.0**

ADI:

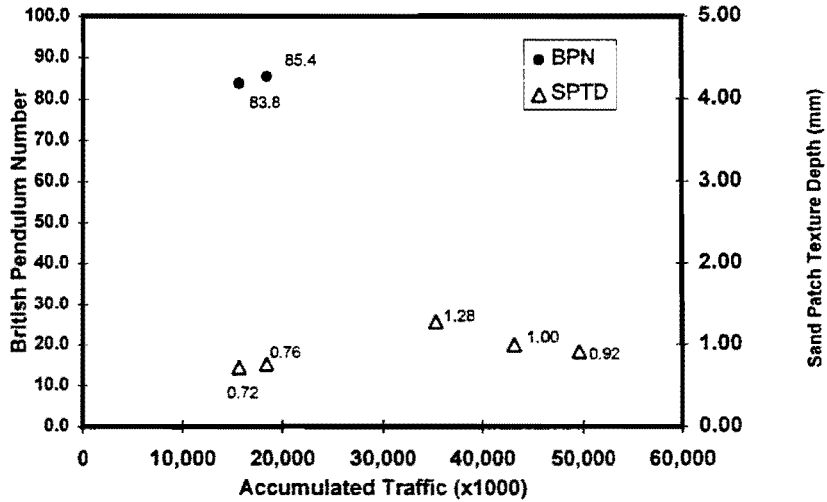
TDT: **22.6**



Test Date

Jul-91	Mar-92	Sep-93	Aug-94	Oct-95	Jul-96					
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BP and SPTD:



Test Date

Mar-91	Jul-91	Aug-93	Jul-94	Jul-95						
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Date of

Const: **6/1/89**

Date

Covered: **Aug/Sep 96**

Reason

Covered: **Test section and surrounding areas cracked.**

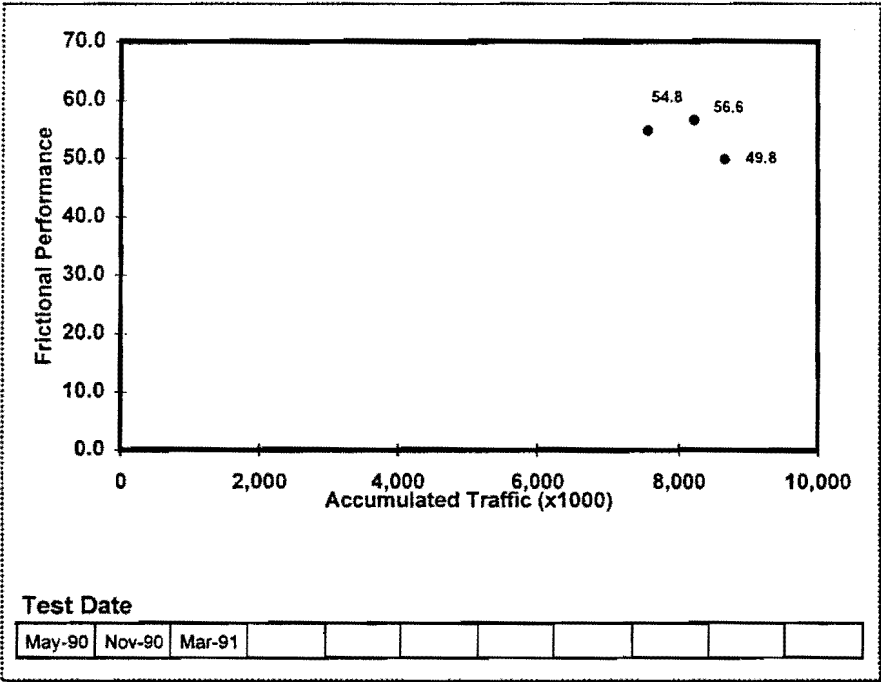
Producer: **South Texas Construction**
 Pit: **Rabe**

SECTION STATUS: **CLOSED**

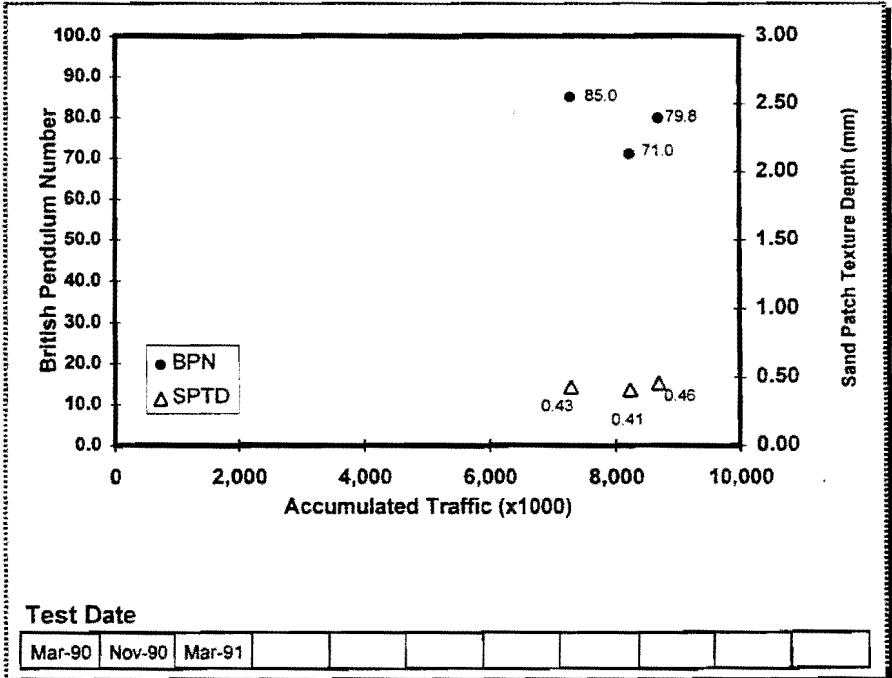
SECTION: **C1**
 DISTRICT: **Corpus Christi**
 AGTY: **SS**

FN:

SPGR: **2.4**
 ABSP: **4.0**
 DCL:
 PV: **32.0**
 INRD:
 MSS: **22.7**
 FRTH:
 LA: **29.0**
 ADI:
 TDT:



BP and SPTD:



Date of Const: **3/1/84**
 Date Covered: **7/7/91**

Reason Covered: District seal coat program. Need to bring skid numbers up to acceptable levels.

Producer: **Bay Incorporated**

SECTION STATUS: **CLOSED**

Pit: **Lindholm**

SECTION: **C2**

FN:

DISTRICT: **Corpus Christi**

AGTY: **SS**

SPGR:

ABSP:

DCL:

PV: **42.0**

INRD:

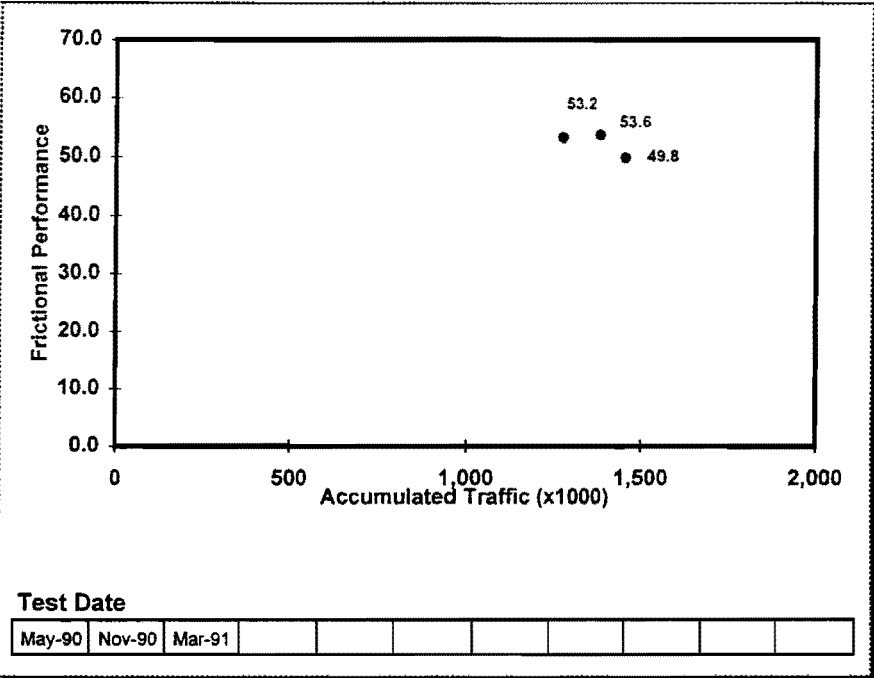
MSS: **27.0**

FRTH:

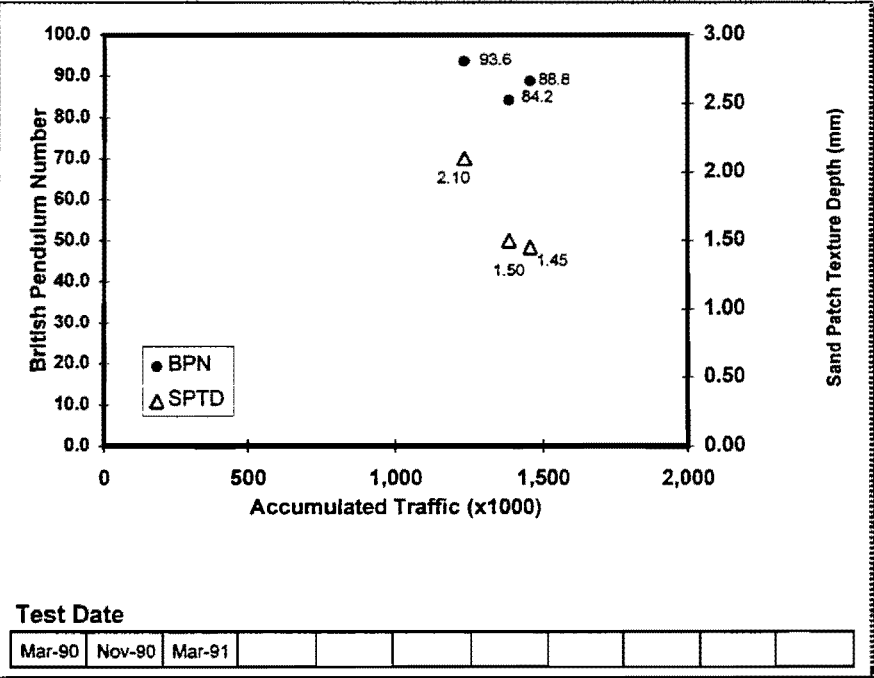
LA: **25.0**

ADI:

TDT: **9.2**



BP and SPTD:



Date of

Const: **5/1/84**

Date

Covered: **8/31/97**

Reason

Covered: District seal coat program. Need to bring skid numbers up to acceptable levels.

Producer: **Redland Worth Materials**

SECTION STATUS: **OPEN**

Pit: **Beckman**

SECTION: **C3**

FN:

DISTRICT: **Corpus Christi**

AGTY: **LS**

SPGR: **2.5**

ABSP: **3.0**

DCL:

PV: **32.0**

INRD:

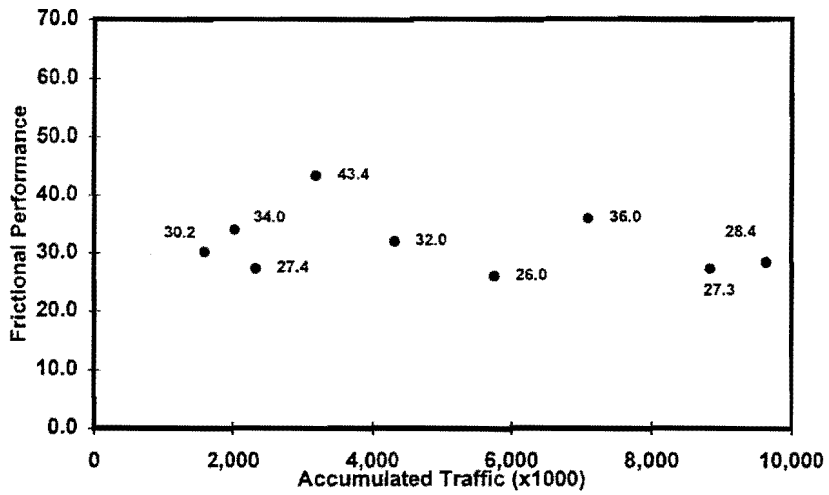
MSS: **5.5**

FRTH:

LA: **30.0**

ADI:

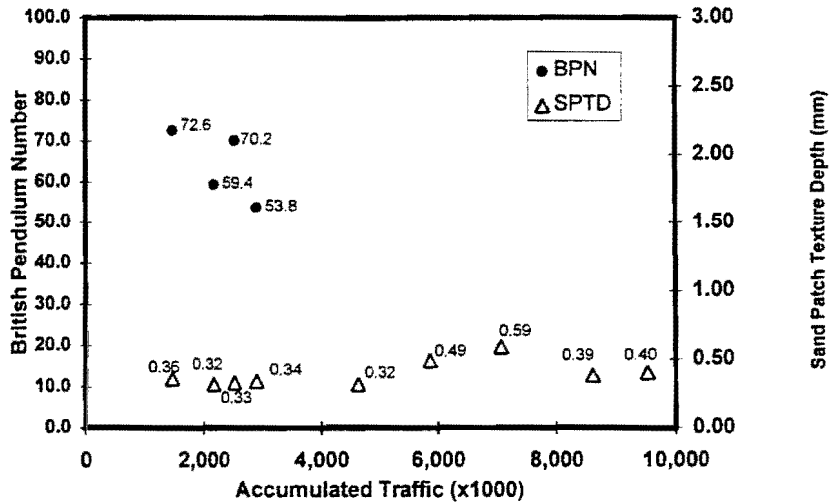
TDT: **6.4**



Test Date

May-90	Nov-90	Mar-91	Feb-92	Jun-93	Aug-94	Sep-95	Feb-97	Oct-97		
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BP and SPTD:



Test Date

Mar-90	Nov-90	Mar-91	Jul-91	Jul-93	Jul-94	Jul-95	Oct-96	Jul-97		
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Date of Const: **11/1/88**

Producer: **Vulcan Materials**

SECTION STATUS: **CLOSED**

Pit: **Uvalde**

SECTION: **C4**

FN:

DISTRICT: **Corpus Christi**

AGTY: **RY**

SPGR:

ABSP:

DCL:

PV: **37.0**

INRD:

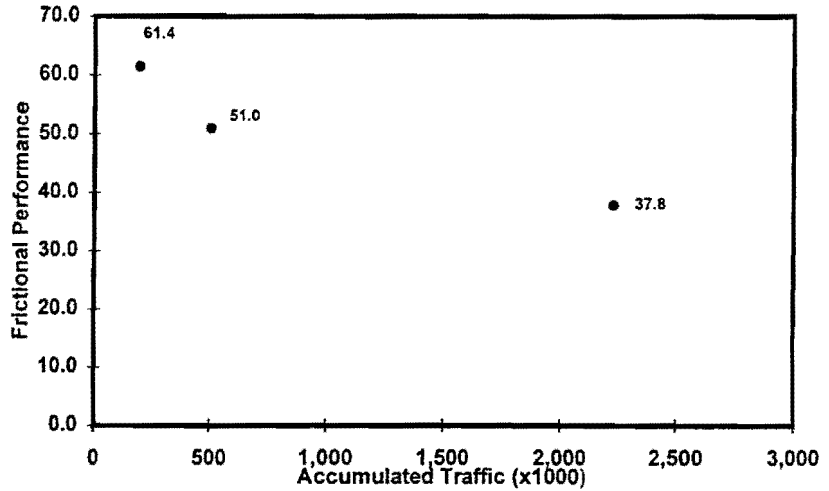
MSS: **16.8**

FRTH:

LA: **31.0**

ADI:

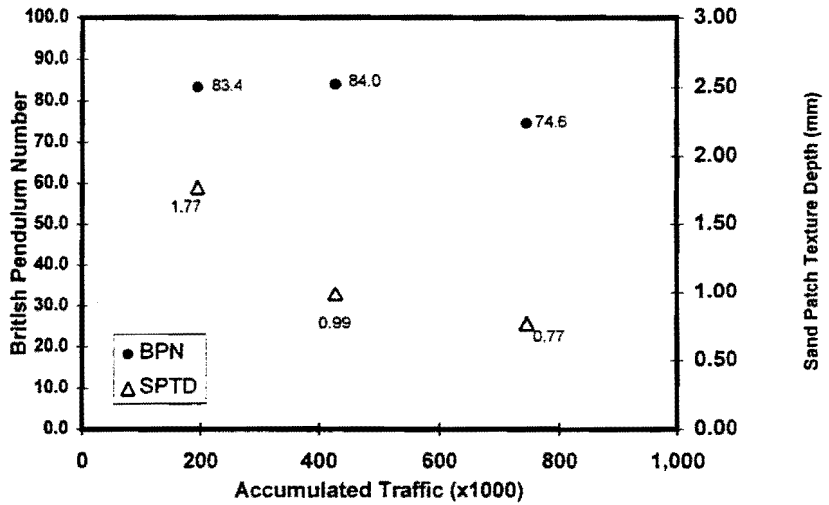
TDT:



Test Date

Nov-90	Mar-91	Feb-92							
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BP and SPTD:



Test Date

Nov-90	Mar-91	Jul-91							
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Date of

Const: **9/1/90**

Date

Covered: **11/19/92**

Reason

Covered: Needed to bring skid numbers up to acceptable levels. Done with micro-surfacing project.

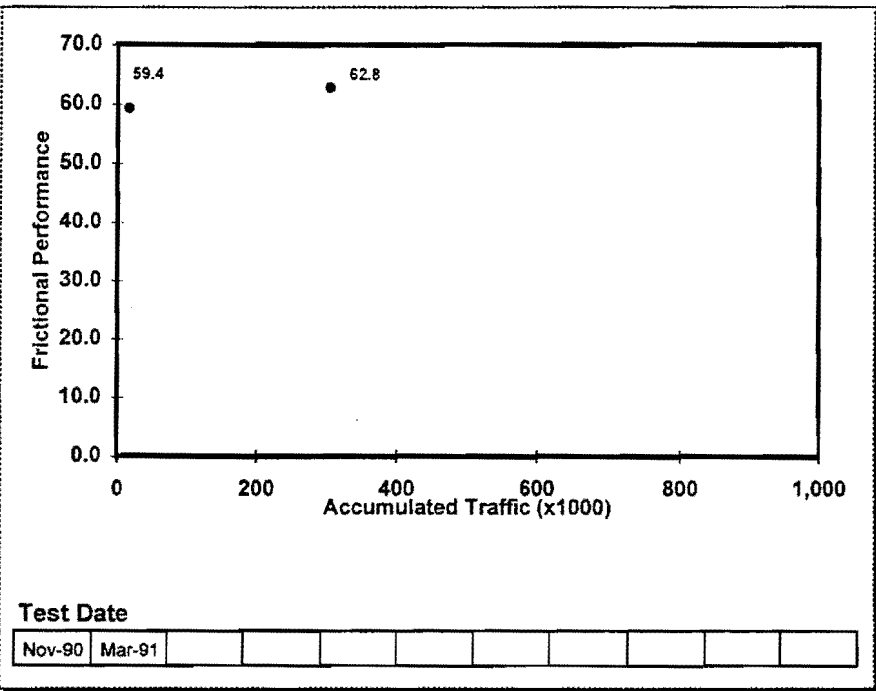
Producer: **Delta Capitol Aggregate**
 Pit: **Brownlee**

SECTION STATUS: **CLOSED**

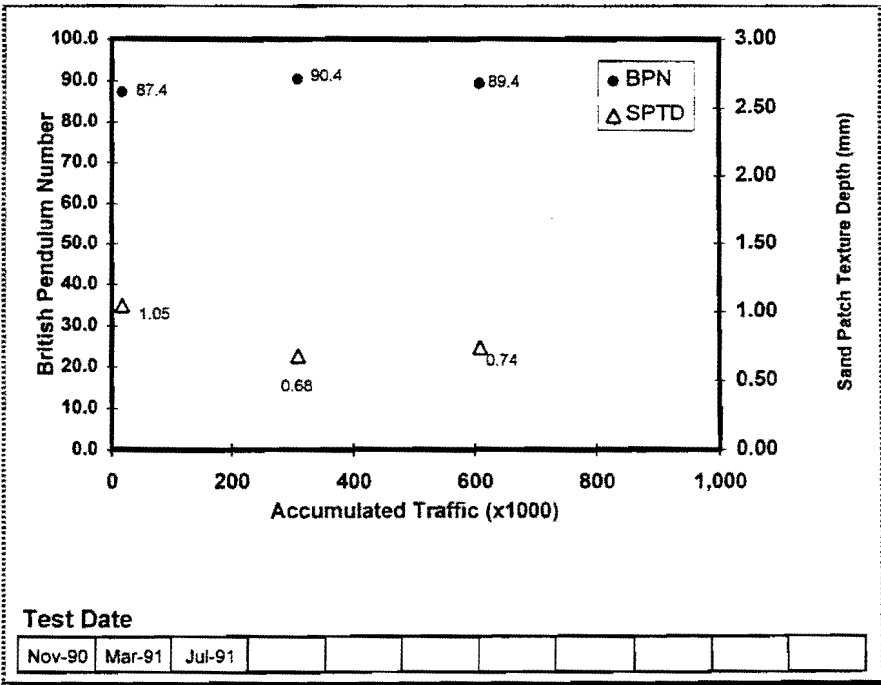
SECTION: **C5**
 DISTRICT: **Corpus Christi**
 AGTY: **SS**

FN:

SPGR: **2.5**
 ABSP: **4.9**
 DCL:
 PV: **41.0**
 INRD:
 MSS: **24.0**
 FRTH:
 LA: **21.0**
 ADI:
 TDT: **23.7**



BP and SPTD:



Date of Const: **11/8/90**
 Date Covered: **3/8/94**

Reason Covered: **Scheduled major construction project to add capacity and improve safety.**

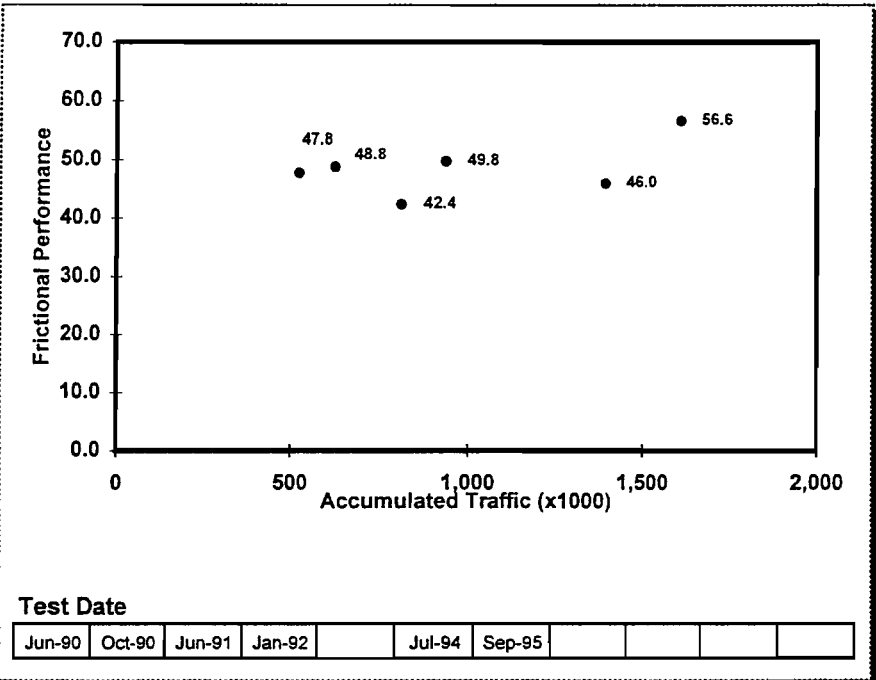
Producer: **Janes Gravel**
 Pit: **Wood**

SECTION STATUS: **CLOSED**

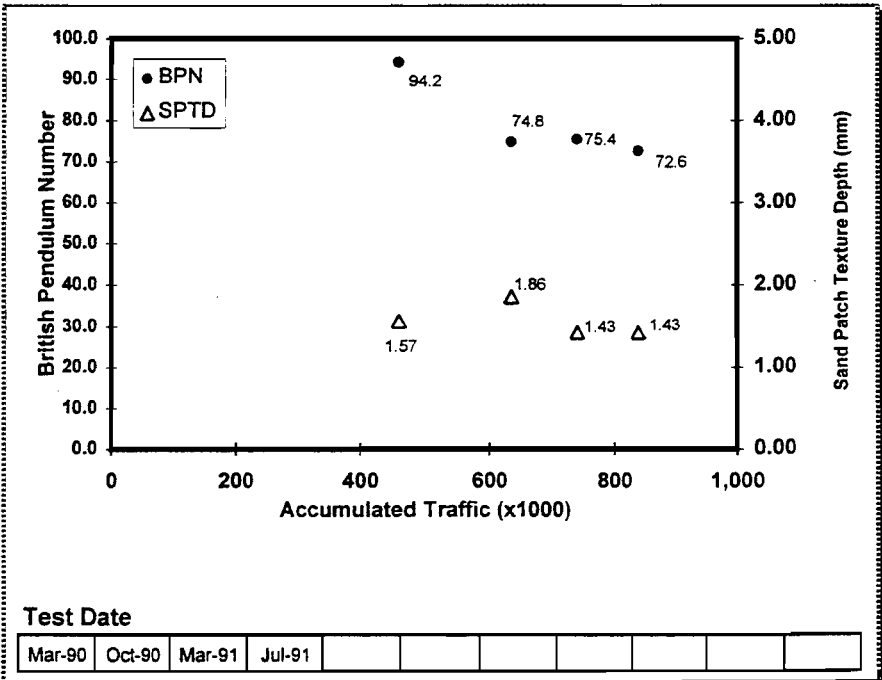
SECTION: **L1**
 DISTRICT: **Lubbock**
 AGTY: **SG**

FN:

SPGR:
 ABSP:
 DCL:
 PV: **30.0**
 INRD:
 MSS: **19.0**
 FRTH:
 LA: **22.0**
 ADI:
 TDT: **7.6**



BP and SPTD:



Date of Const: **7/1/88**
 Date Covered: **Aug-93**

Reason Covered: Routine maintenance for purpose of sealing pavement surface.

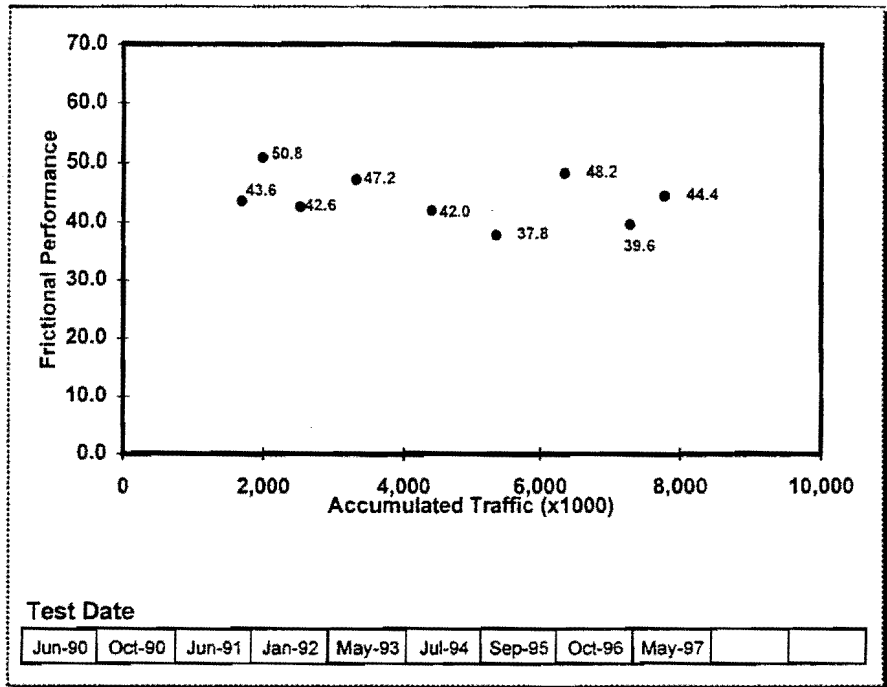
Producer: **El Paso Sand Product**
 Pit: **Turner**

SECTION STATUS: **CLOSED**

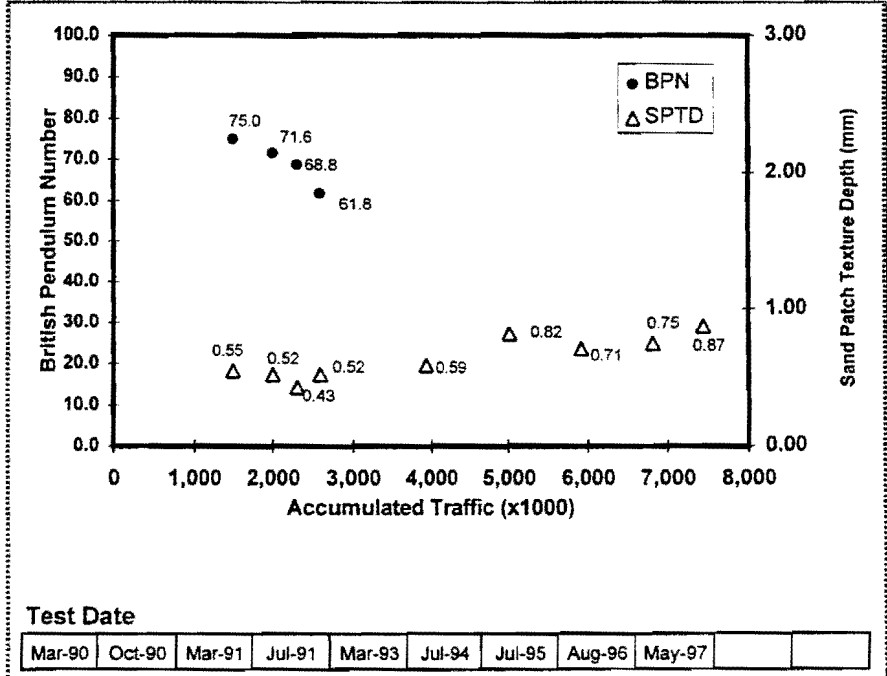
SECTION: **L2**
 DISTRICT: **Lubbock**
 AGTY: **SG**

SPGR: **2.4**
 ABSP: **2.5**
 DCL:
 PV: **42.0**
 INRD:
 MSS: **28.6**
 FRTH:
 LA: **23.0**
 ADI:
 TDT: **9.5**

FN:



BP and SPTD:



Date of Const: **4/1/88**
 Date Covered: **Aug-97**

Reason Covered: **Routine maintenance/ seal coat.**

Producer: **Appian Corp.**

SECTION STATUS: **CLOSED**

Pit: **Thrasher**

SECTION: **L3**

FN:

DISTRICT: **Lubbock**

AGTY: **SG**

SPGR: **2.6**

ABSP: **1.3**

DCL:

PV: **22.0**

INRD:

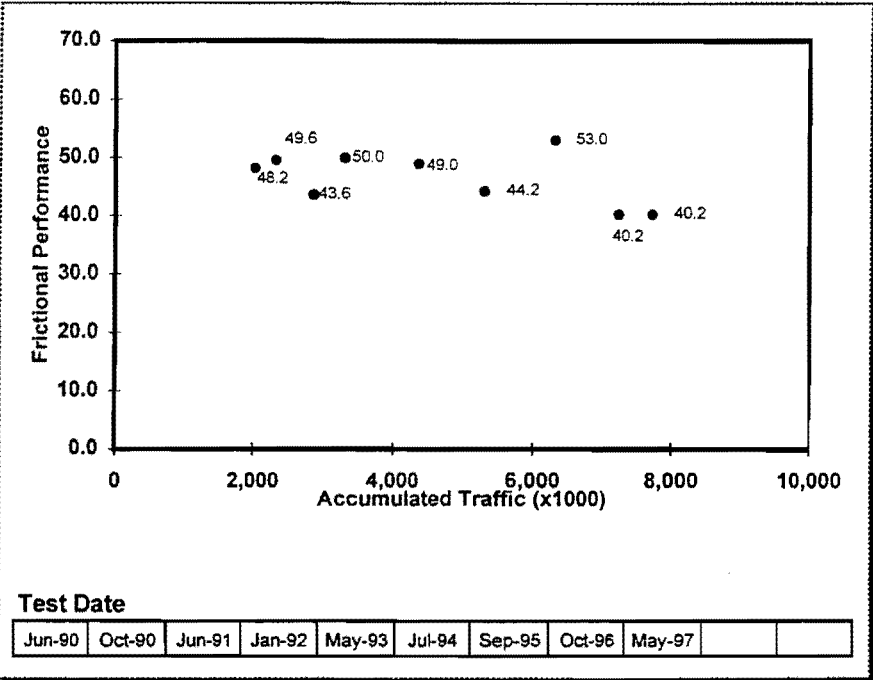
MSS: **5.4**

FRTH:

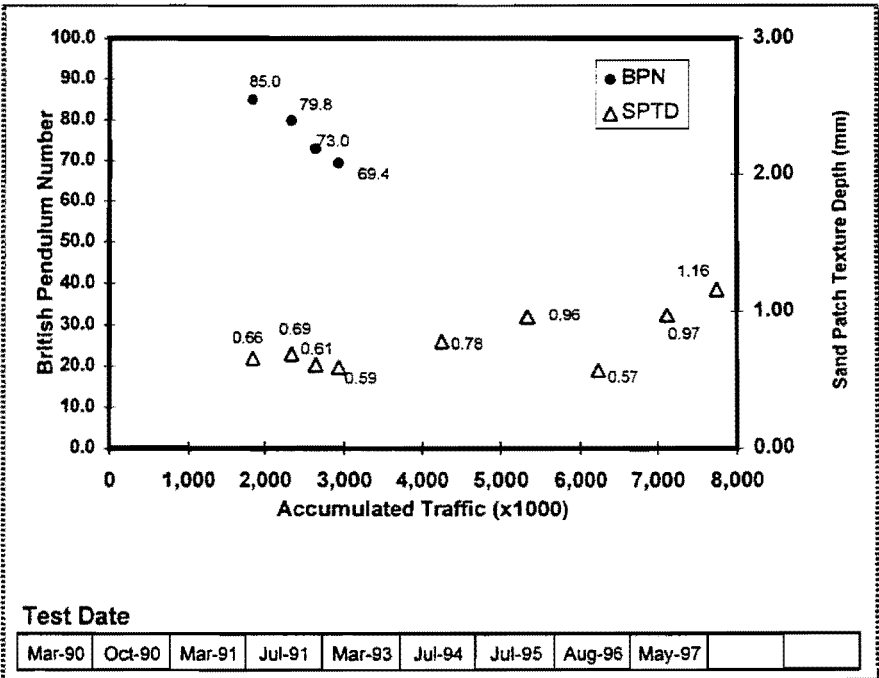
LA: **20.0**

ADI:

TDT: **1.6**



BP and SPTD:



Date of

Const: **10/1/87**

Date

Covered: **Aug-97**

Reason

Covered: **Routine maintenance/ seal coat.**

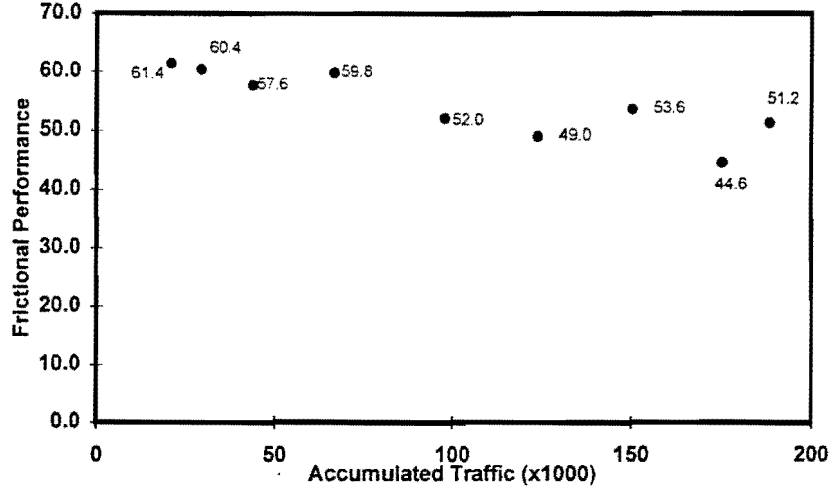
Producer: **Janes Gravel**
 Pit: **Wood**

SECTION STATUS: **CLOSED**

SECTION: **L4**
 DISTRICT: **Lubbock**
 AGTY: **SG**

FN:

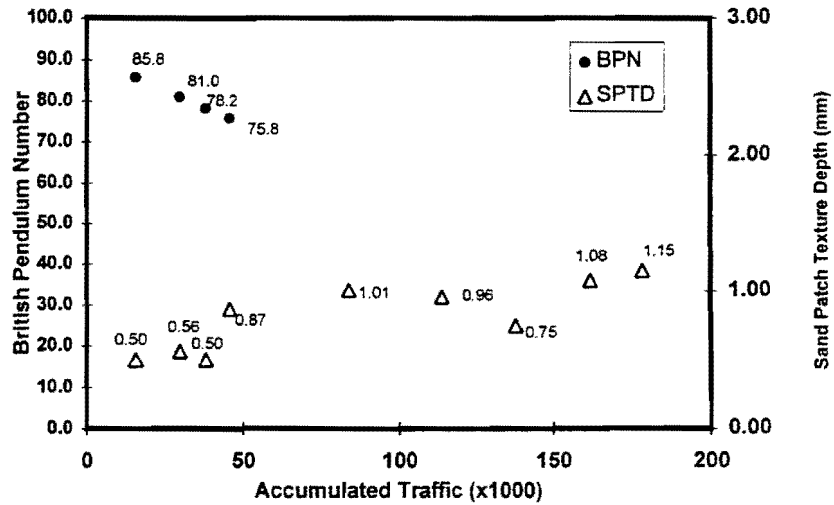
SPGR: **2.5**
 ABSP: **2.9**
 DCL:
 PV: **25.0**
 INRD:
 MSS: **10.5**
 FRTH:
 LA: **20.0**
 ADI:
 TDT: **5.9**



Test Date

Jun-90	Oct-90	Jun-91	Jan-92	May-93	Jul-94	Sep-95	Oct-96	May-97		
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BP and SPTD:



Test Date

Mar-90	Oct-90	Mar-91	Jul-91	Mar-93	Jul-94	Jul-95	Aug-96	May-97		
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Date of

Const: **7/1/89**

Date

Covered: **Aug-97**

Reason

Covered: **Routine maintenance/ seal coat.**

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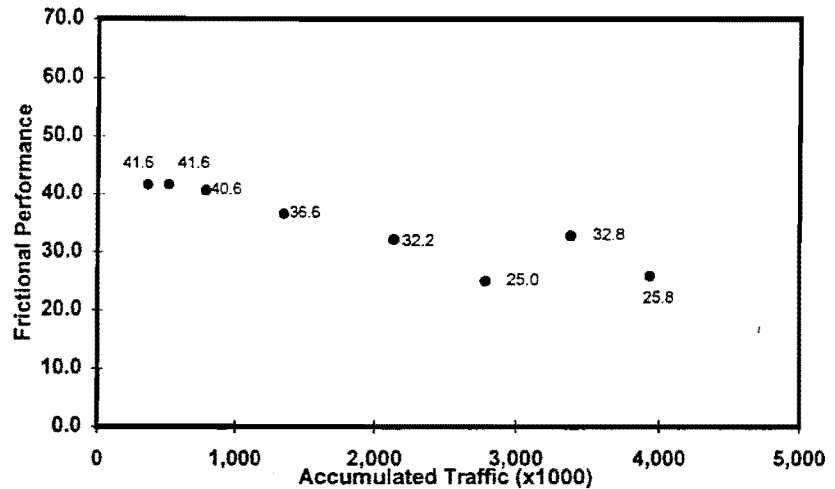
Producer: CSA Materials
 Pit: Gordon-Cox

SECTION STATUS: OPEN

SECTION: L5
 DISTRICT: Lubbock
 AGTY: LS

SPGR:
 ABSP:
 DCL:
 PV: 41.0
 INRD:
 MSS: 22.1
 FRTH:
 LA: 26.0
 ADI:
 TDT: 9.5

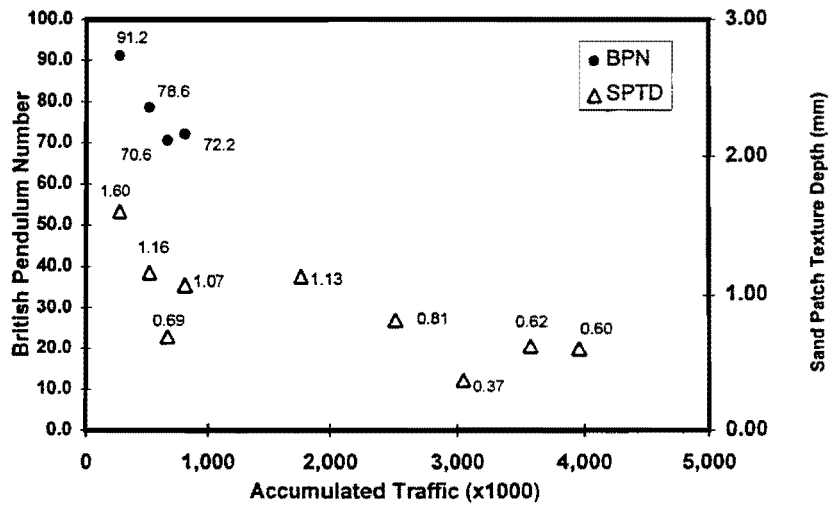
FN:



Test Date

Jun-90	Oct-90	Jun-91	Jan-92	May-93	Jul-94	Sep-95	Oct-96			
--------	--------	--------	--------	--------	--------	--------	--------	--	--	--

BP and SPTD:



Test Date

Mar-90	Oct-90	Mar-91	Jul-91	Mar-93	Jul-94	Jul-95	Aug-96	May-97		
--------	--------	--------	--------	--------	--------	--------	--------	--------	--	--

Date of Const: 6/1/89

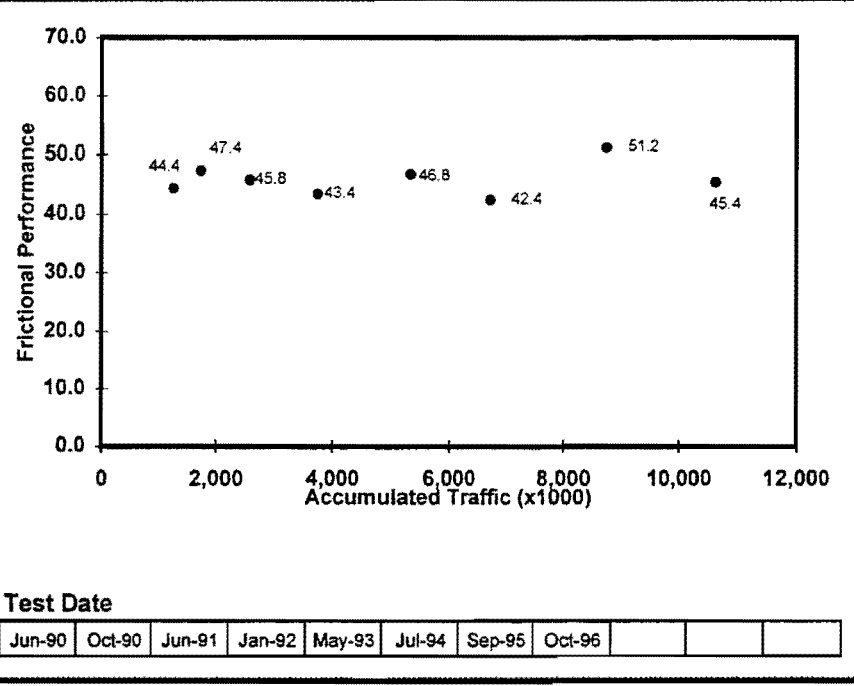
Producer: Appian Corp.
 Pit: Campbell

SECTION STATUS: OPEN

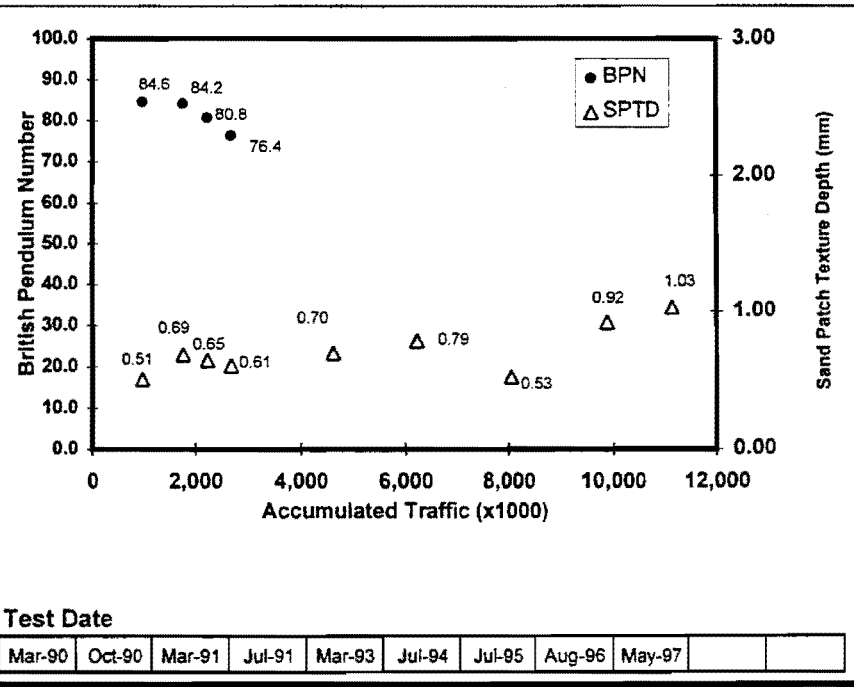
SECTION: L6
 DISTRICT: Lubbock
 AGTY: SG

FN:

SPGR: 2.6
 ABSP: 1.5
 DCL:
 PV: 36.0
 INRD:
 MSS: 5.5
 FRTH:
 LA: 19.0
 ADI:
 TDT: 6.7



BP and SPTD:



Date of Const: 6/1/89

Producer: **Trans Pecos Materials**

SECTION STATUS: CLOSED

Pit: **Hoban**

SECTION: **L7**

FN:

DISTRICT: **Lubbock**

AGTY: **RY**

SPGR: **2.5**

ABSP: **4.4**

DCL:

PV: **37.0**

INRD:

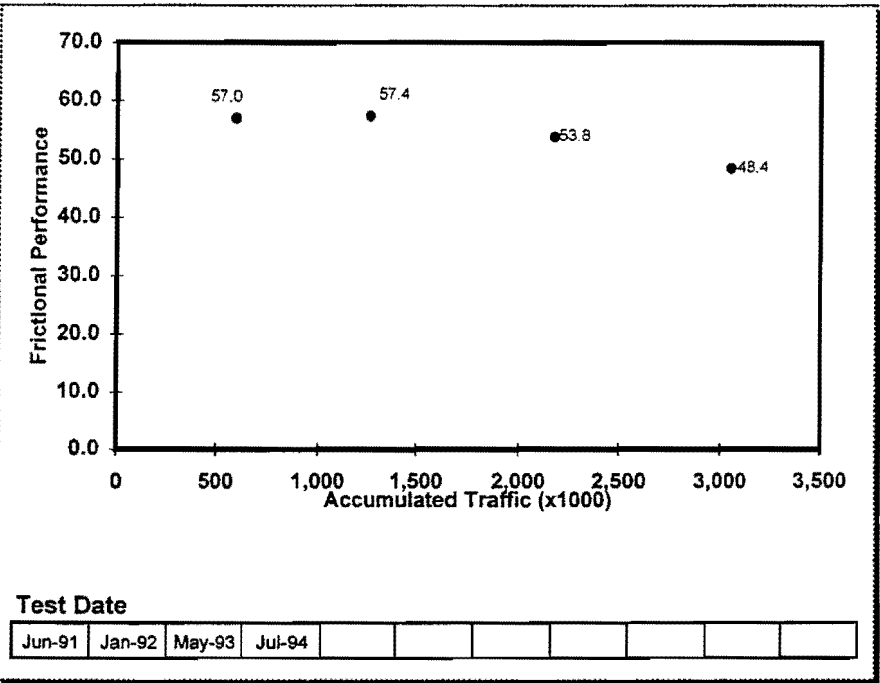
MSS: **6.9**

FRTH:

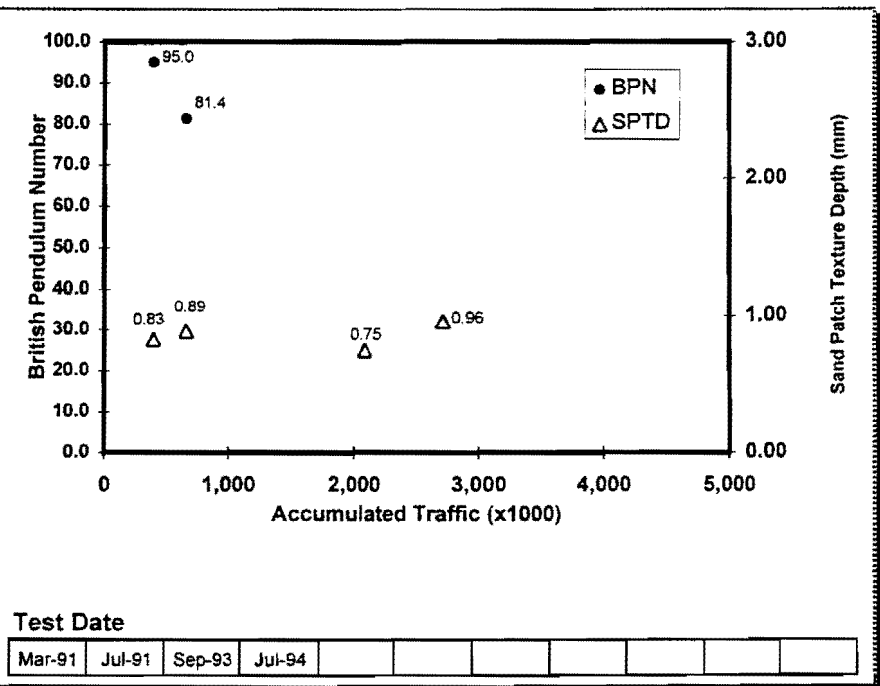
LA: **17.0**

ADI:

TDT: **4.8**



BP and SPTD:



Date of

Const: **9/1/90**

Date

Covered:

Reason

Covered:

1997 Status Report of Project 187.9

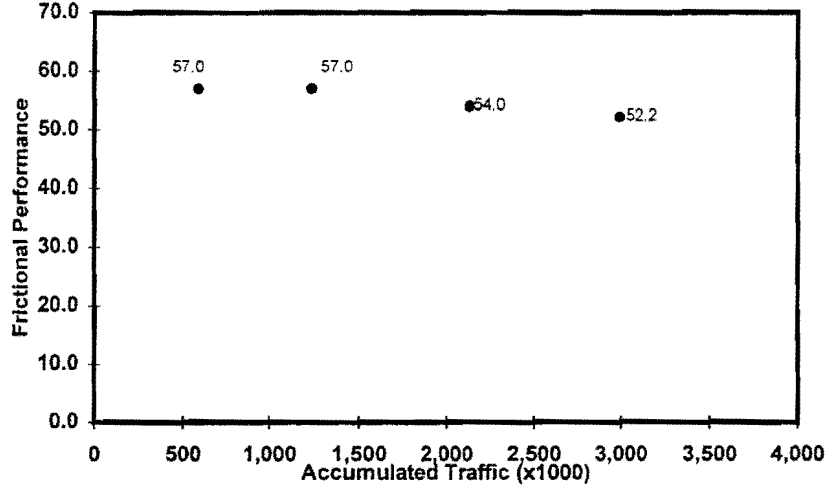
Producer: **Trans Pecos Materials**
 Pit: **Hoban**

SECTION STATUS: CLOSED

SECTION: **L8**
 DISTRICT: **Lubbock**
 AGTY: **RY**

SPGR: **2.5**
 ABSP: **4.4**
 DCL:
 PV: **37.0**
 INRD:
 MSS: **6.9**
 FRTH:
 LA: **17.0**
 ADI:
 TDT: **4.8**

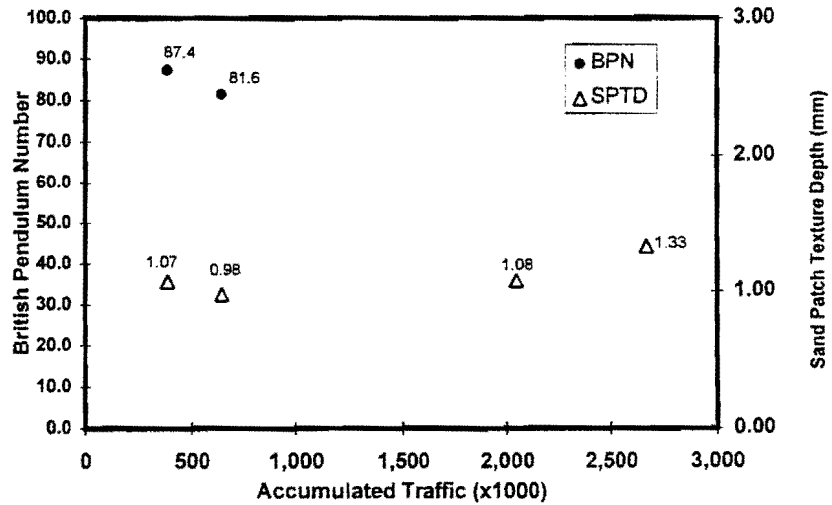
FN:



Test Date

Jun-91	Jan-92	May-93	Jul-94						
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BP and SPTD:



Test Date

Mar-91	Jul-91	Sep-93	Jul-94						
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Date of Const: **9/1/90**
 Date Covered:
 Reason Covered:

Producer: **South Texas Lime Stone**

SECTION STATUS: **OPEN**

Pit: **Counts**

SECTION: **OD1**

FN:

DISTRICT: **Odessa**

AGTY: **LS**

SPGR:

ABSP:

DCL:

PV: **43.0**

INRD:

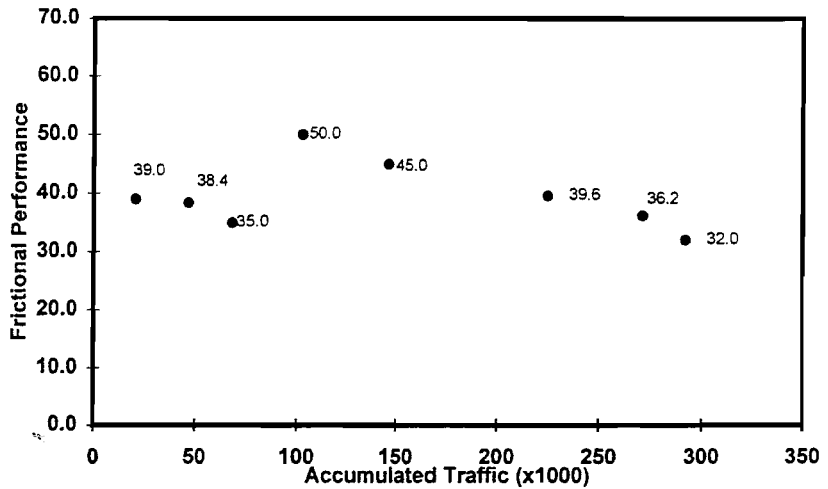
MSS: **28.8**

FRTH:

LA: **30.0**

ADI:

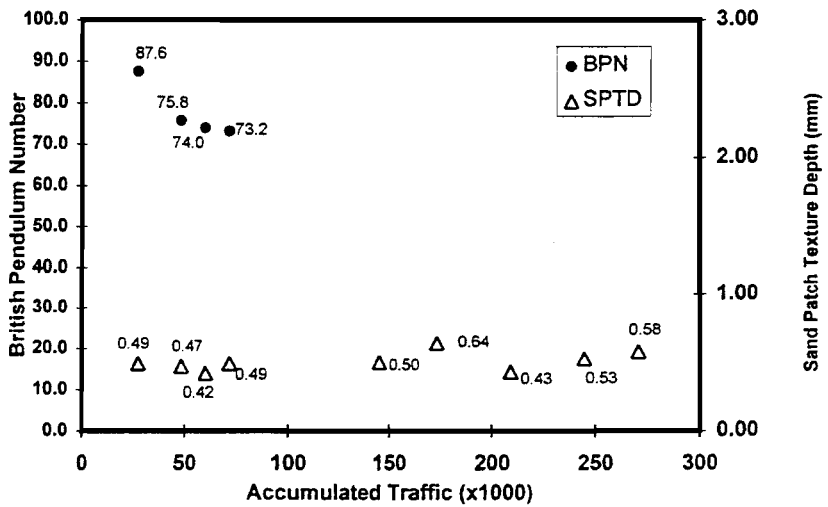
TDT: **10.0**



Test Date

Jun-90	Oct-90	Jun-91	Feb-92	May-93	Jul-94	Sep-95	Jan-97	Sep-97		
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BP and SPTD:



Test Date

Mar-90	Oct-90	Mar-91	Jul-91	Sep-93	Jul-94	Jul-95	Aug-96	May-97		
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Date of

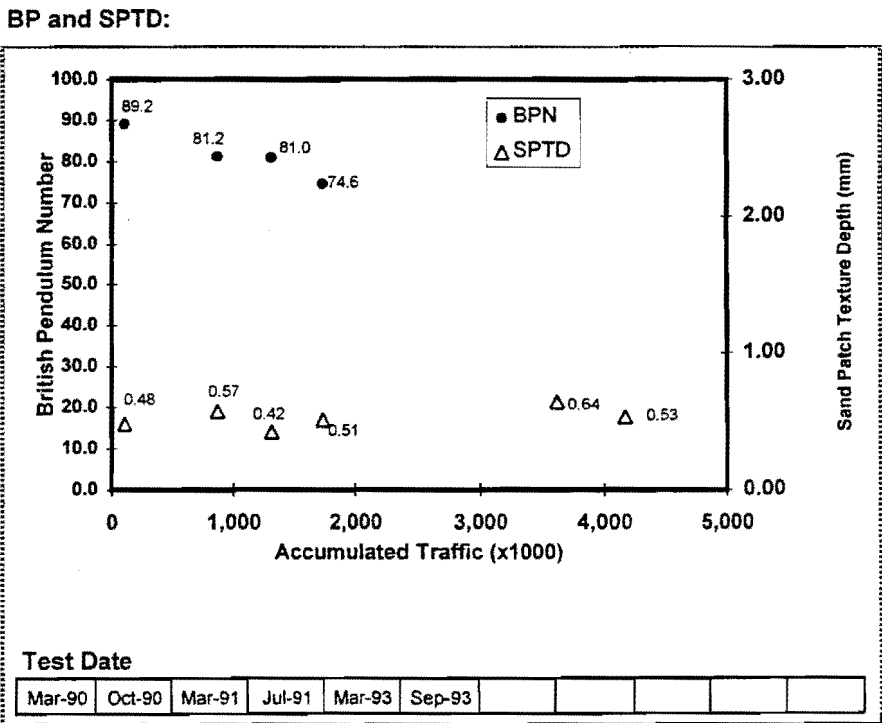
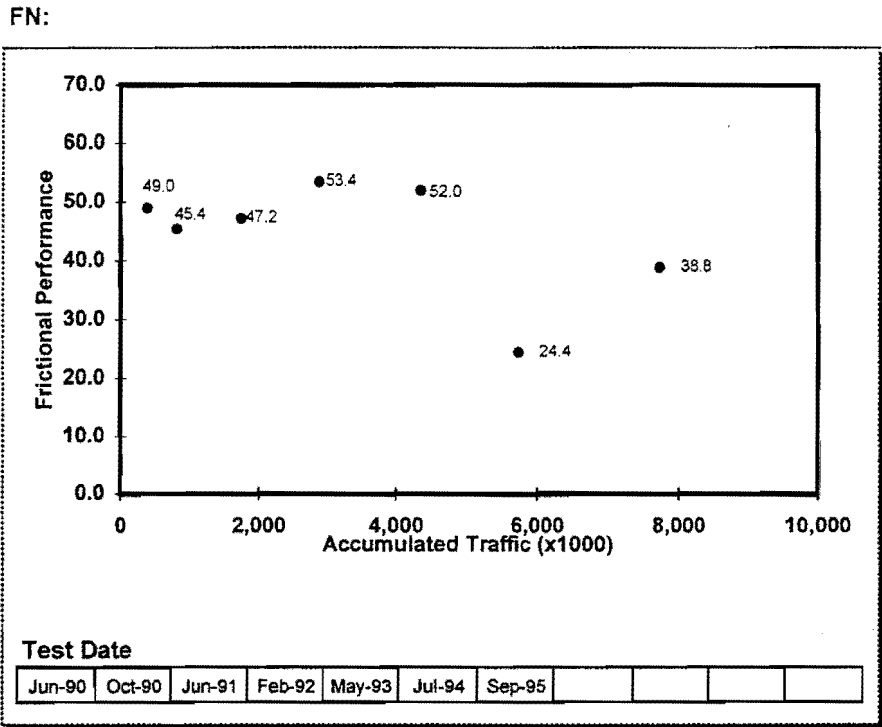
Const: **5/22/89**

Producer: **Trans Pecos Materials**
 Pit: **Hoban**

SECTION STATUS: **CLOSED**

SECTION: **OD2**
 DISTRICT: **Odessa**
 AGTY: **RY**

SPGR: **2.5**
 ABSP: **2.3**
 DCL:
 PV: **38.0**
 INRD:
 MSS: **4.1**
 FRTH:
 LA: **13.0**
 ADI:
 TDT: **3.5**



Date of Const: **2/9/90**
 Date Covered:
 Reason Covered: **District has not yet returned survey.**

1997 Status Report of Project 187.9

Producer: **Grimmett Brothers**

SECTION STATUS: **CLOSED**

Pit: **Gordon-Cox**

SECTION: **OD3**

FN:

DISTRICT: **Odessa**

AGTY: **LS**

SPGR: **2.6**

ABSP: **2.8**

DCL:

PV: **36.0**

INRD:

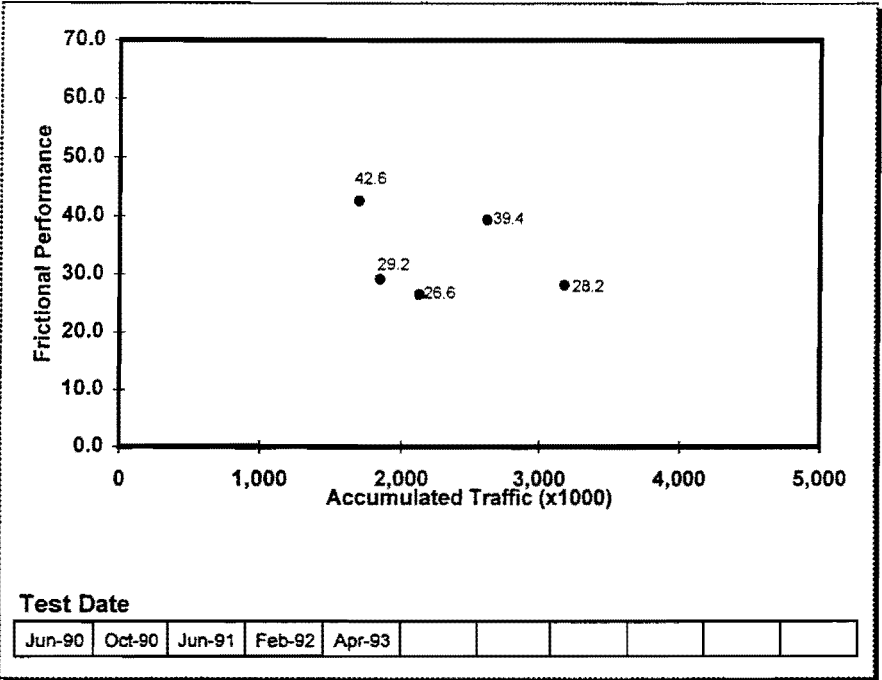
MSS: **28.3**

FRTH:

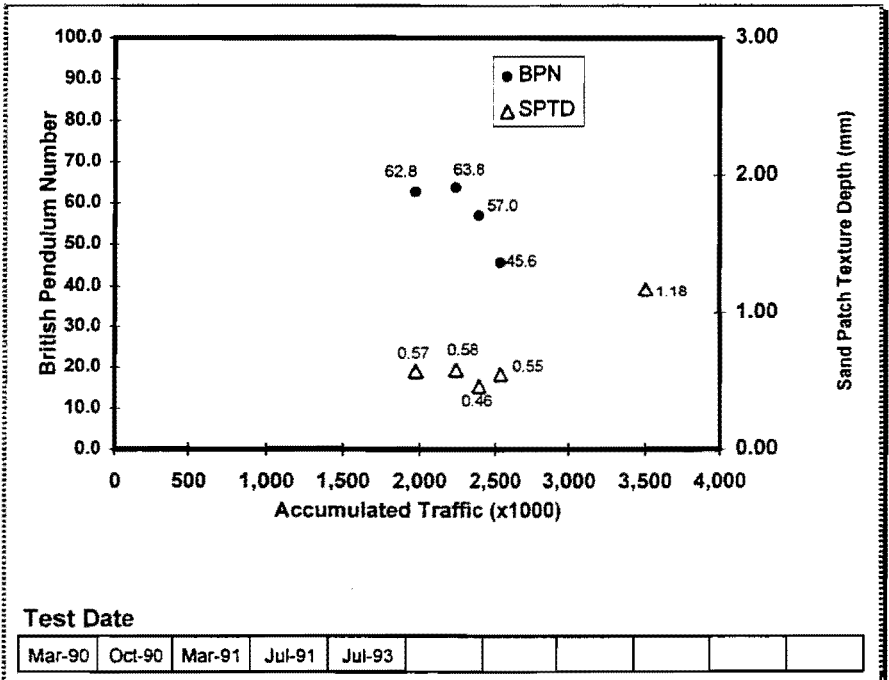
LA: **28.0**

ADI:

TDT: **10.6**



BP and SPTD:



Date of Const: **1/10/86**

Date Covered:

Reason Covered: **District has not yet returned survey.**

1997 Status Report of Project 187.9

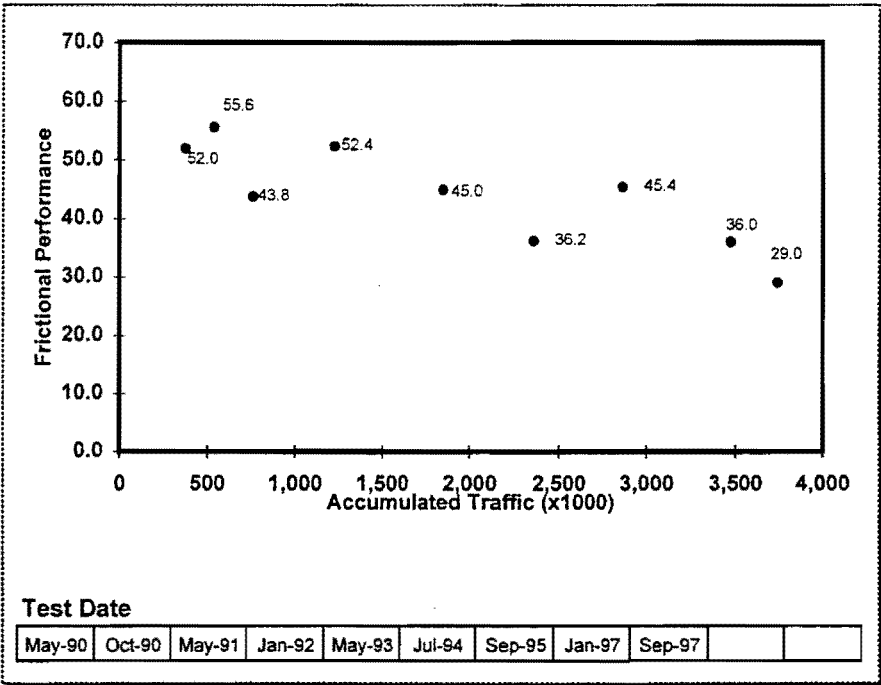
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: **OPEN**

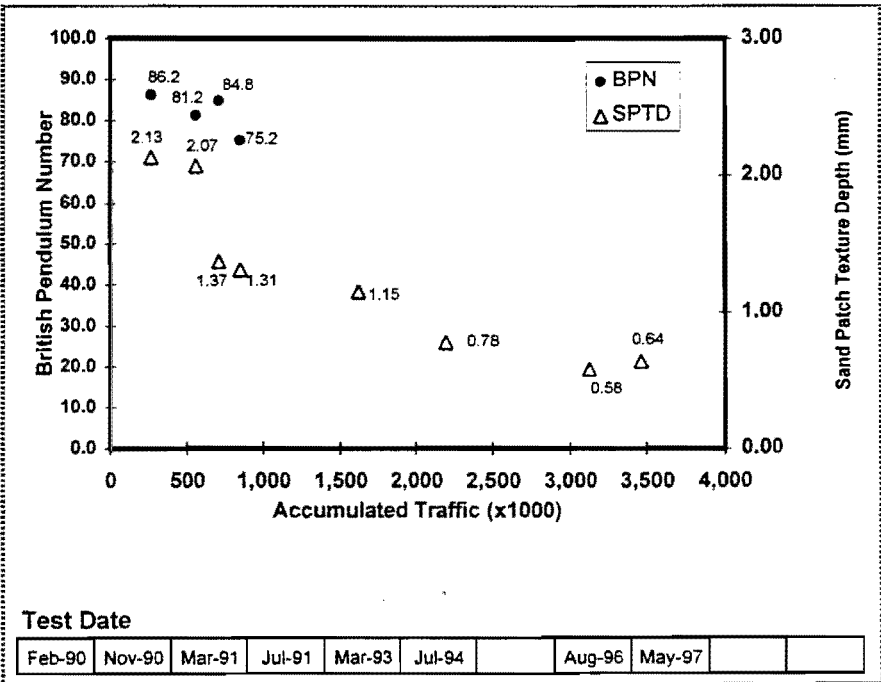
SECTION: **SA1**
 DISTRICT: **San Angelo**
 AGTY: **LS**

SPGR:
 ABSP:
 DCL:
 PV: **37.0**
 INRD:
 MSS: **16.9**
 FRTH:
 LA: **27.0**
 ADI:
 TDT: **10.2**

FN:



BP and SPTD:



Date of Const: **6/29/89**

1997 Status Report of Project 187.9

Producer: **CSA Materials**

SECTION STATUS: **CLOSED**

Pit: **Willeke**

SECTION: **SA4**

FN:

DISTRICT: **San Angelo**

AGTY: **LS**

SPGR:

ABSP:

DCL:

PV: **37.0**

INRD:

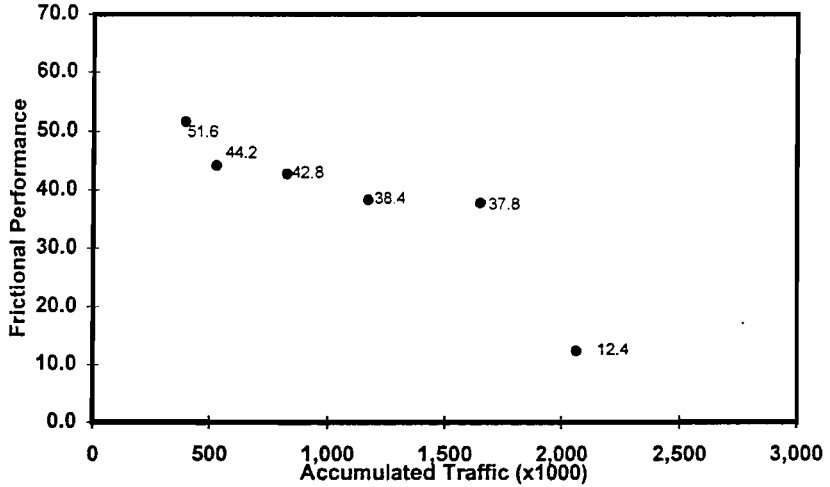
MSS: **20.6**

FRTH:

LA: **27.0**

ADI:

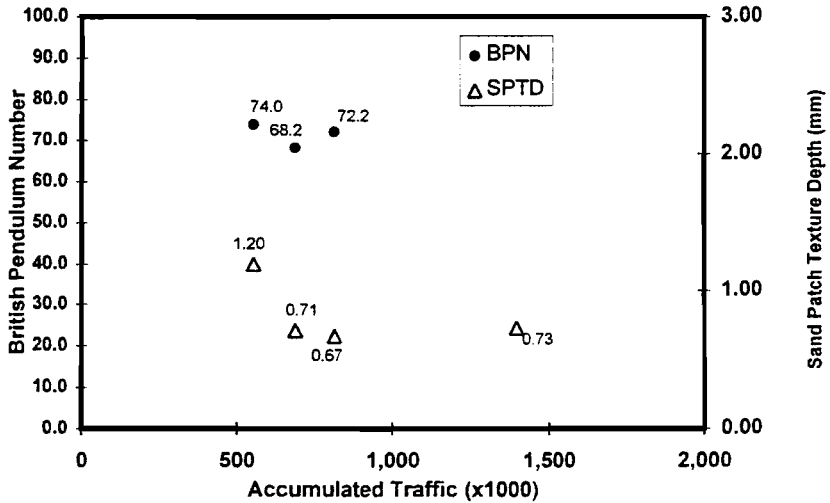
TDT: **10.6**



Test Date

May-90	Oct-90	Jun-91	Jan-92	May-93	Jul-94					
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BP and SPTD:



Test Date

Nov-90	Mar-91	Jul-91	Mar-93						
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Date of

Const: **5/4/89**

Date

Covered: **Jun-97**

Reason

Covered: Test section bad, surfaces around test section bad.

1997 Status Report of Project 187.9

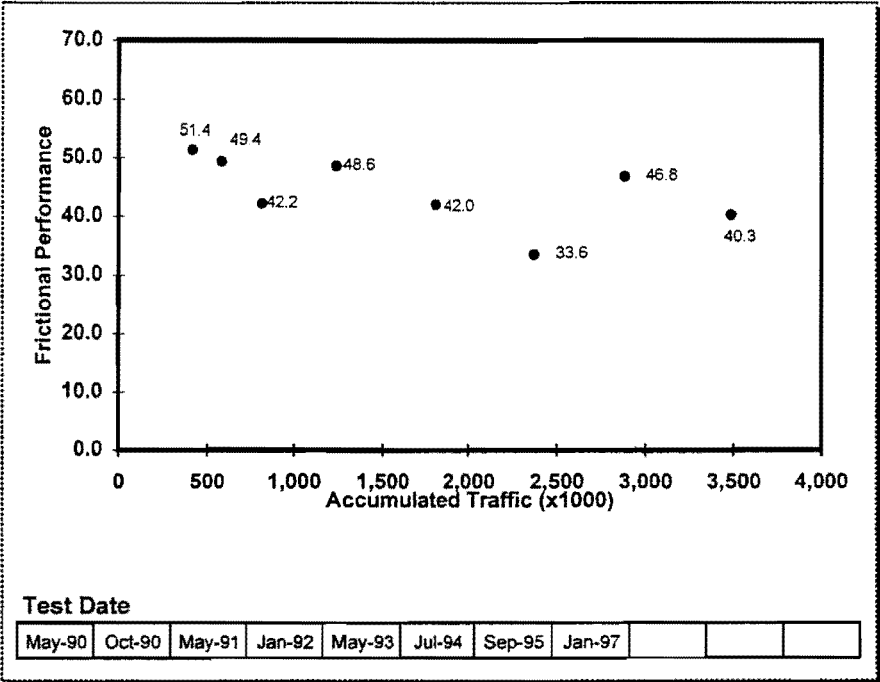
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: **CLOSED**

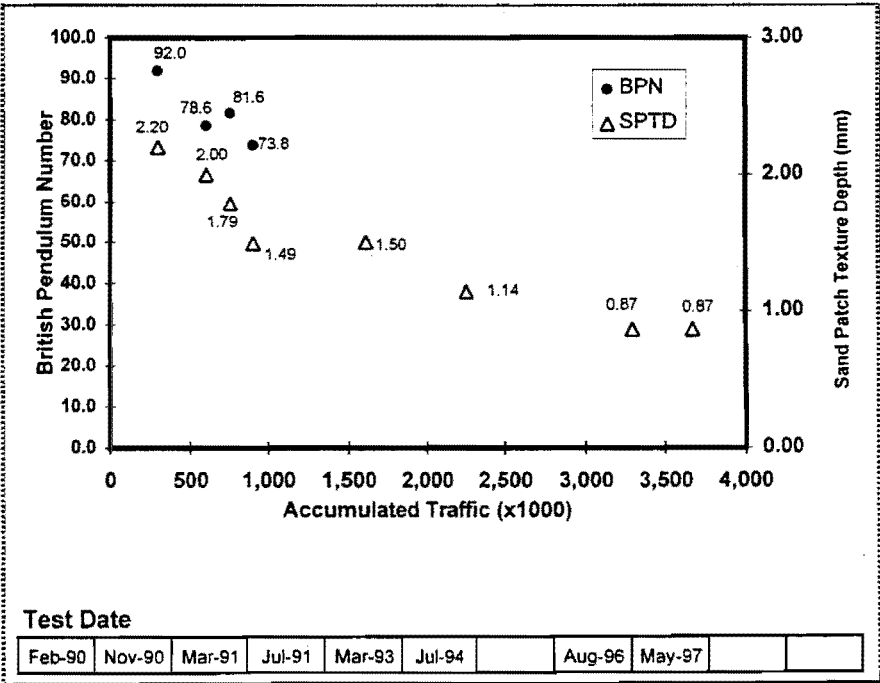
SECTION: **SA6**
 DISTRICT: **San Angelo**
 AGTY: **LS**

FN:

SPGR:
 ABSP:
 DCL:
 PV: **35.0**
 INRD:
 MSS: **18.4**
 FRTH:
 LA: **21.0**
 ADI:
 TDT: **7.9**



BP and SPTD:



Date of Const: **6/19/89**
 Date Covered: **Sep-97**

Reason Covered: **Test section bad, surfaces around test section bad.**

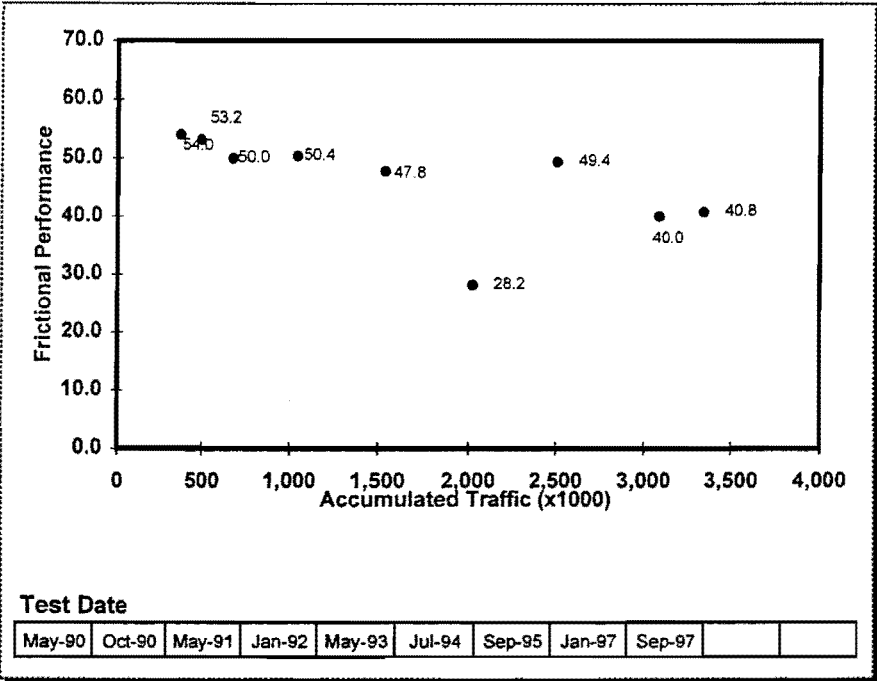
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: OPEN

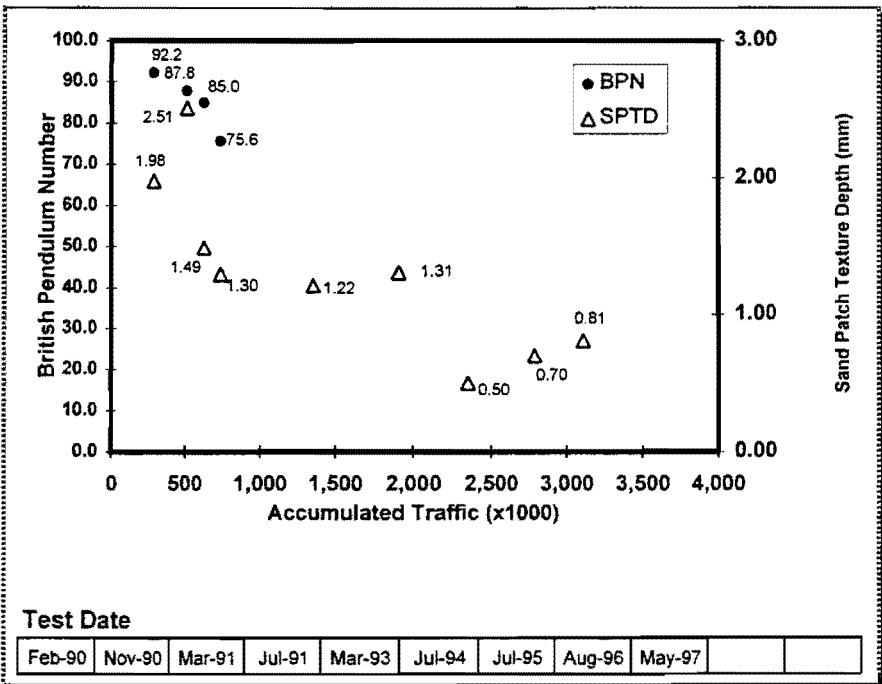
SECTION: **SA16**
 DISTRICT: **San Angelo**
 AGTY: **LS**

FN:

SPGR:
 ABSP:
 DCL:
 PV: **35.0**
 INRD:
 MSS: **23.6**
 FRTH:
 LA: **29.0**
 ADI:
 TDT: **8.5**



BP and SPTD:



Date of Const: **4/7/89**

1997 Status Report of Project 187.9

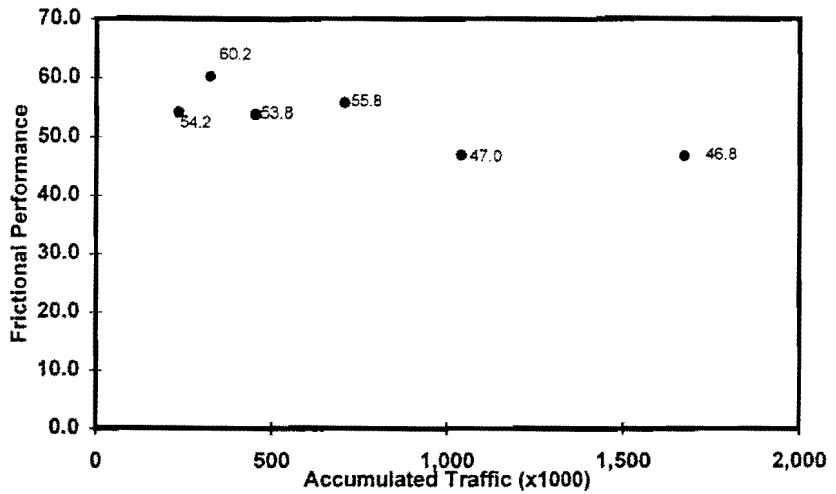
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: **CLOSED**

SECTION: **SA17**
 DISTRICT: **San Angelo**
 AGTY: **LS**

FN:

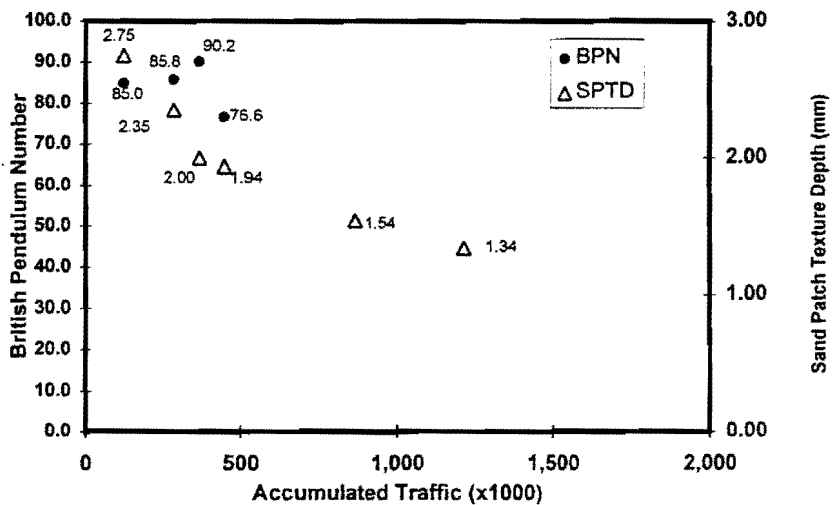
SPGR:
 ABSP:
 DCL:
 PV: **37.0**
 INRD:
 MSS: **18.4**
 FRTH:
 LA: **21.0**
 ADI:
 TDT: **7.9**



Test Date

May-90	Oct-90	May-91	Jan-92	May-93		Sep-95			
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BP and SPTD:



Test Date

Feb-90	Nov-90	Mar-91	Jul-91	Mar-93	Jul-94				
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Date of

Const: **8/18/89**

Date

Covered: **Sep-94**

Reason

Covered: **Test section bad, surfaces around test section bad.**

1997 Status Report of Project 187.9

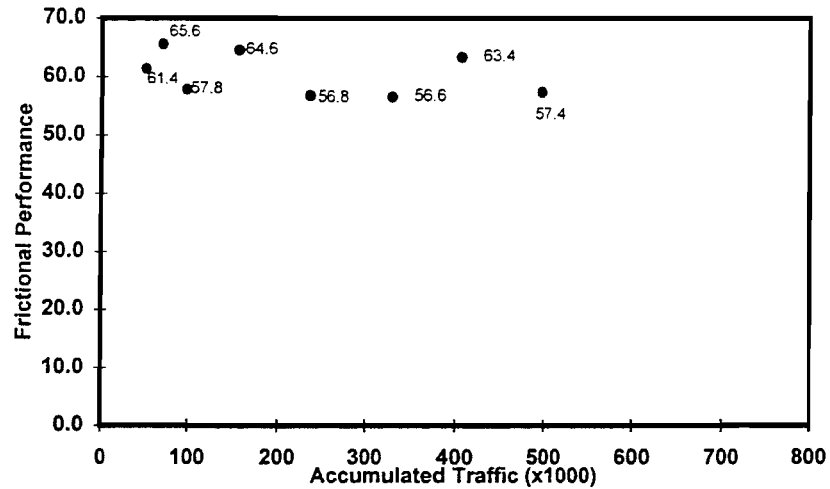
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: **CLOSED**

SECTION: **SA19**
 DISTRICT: **San Angelo**
 AGTY: **LS**

FN:

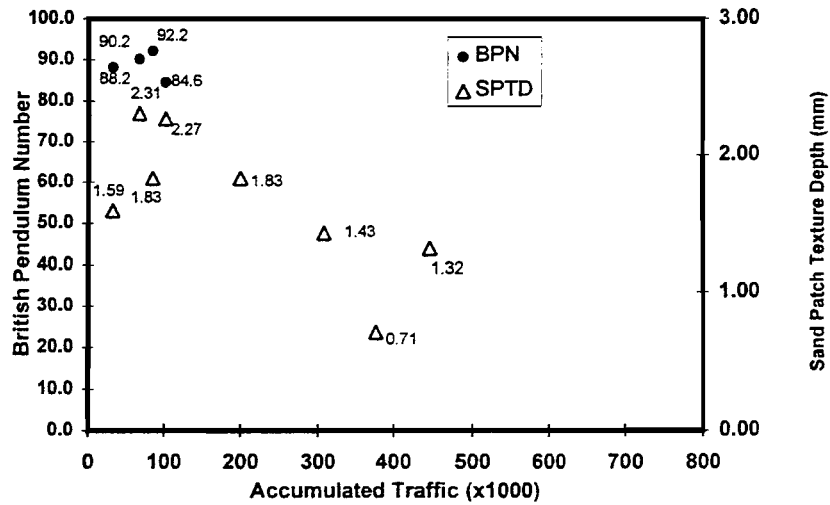
SPGR:
 ABSP:
 DCL:
 PV: **37.0**
 INRD:
 MSS: **18.9**
 FRTH:
 LA: **38.0**
 ADI:
 TDT: **9.3**



Test Date

May-90	Oct-90	May-91	Jan-92	May-93	Jul-94	Sep-95	Jan-97			
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BP and SPTD:



Test Date

Feb-90	Nov-90	Mar-91	Jul-91	Mar-93	Jul-94	Jul-95	Aug-96			
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Date of Const: **7/12/89**
 Date Covered:

Reason Covered: Since a coating was applied to this surface, it was deemed by the researchers to no

1997 Status Report of Project 187.9

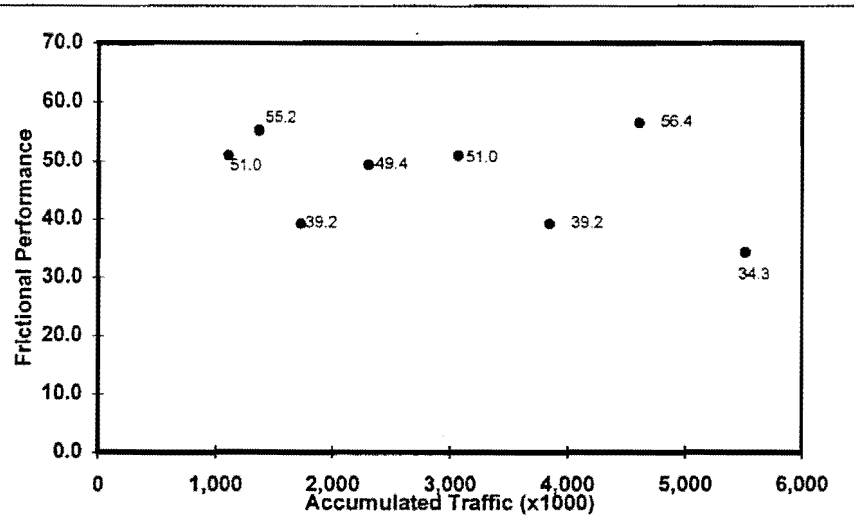
Producer: **CSA Materials**
 Pit: **Willeke**

SECTION STATUS: **CLOSED**

SECTION: **SA27**
 DISTRICT: **San Angelo**
 AGTY: **LS**

SPGR: **2.6**
 ABSP: **1.7**
 DCL:
 PV: **37.0**
 INRD:
 MSS: **21.2**
 FRTH:
 LA: **31.0**
 ADI:
 TDT: **8.0**

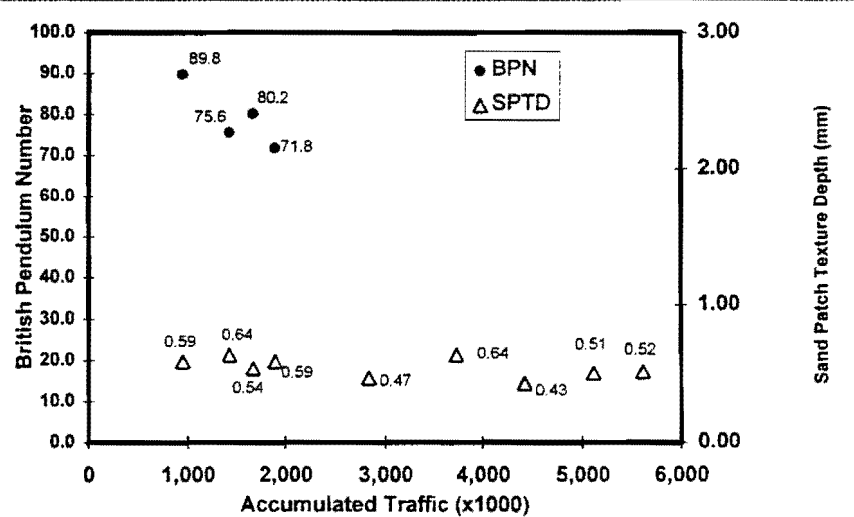
FN:



Test Date

May-90	Oct-90	May-91	Jan-92	May-93	Jul-94	Sep-95	Jan-97			
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BP and SPTD:



Test Date

Feb-90	Nov-90	Mar-91	Jul-91	Mar-93	Jul-94	Jul-95	Aug-96	May-97		
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Date of Const: **9/16/88**
 Date Covered: **Sep-97**

Reason Covered: **Test section bad, surfaces around test section bad.**

1997 Status Report of Project 187.9

Producer: **CSA Materials**

SECTION STATUS: **OPEN**

Pit: **Willeke**

SECTION: **SA30**

FN:

DISTRICT: **San Angelo**

AGTY: **LS**

SPGR:

ABSP:

DCL:

PV: **37.0**

INRD:

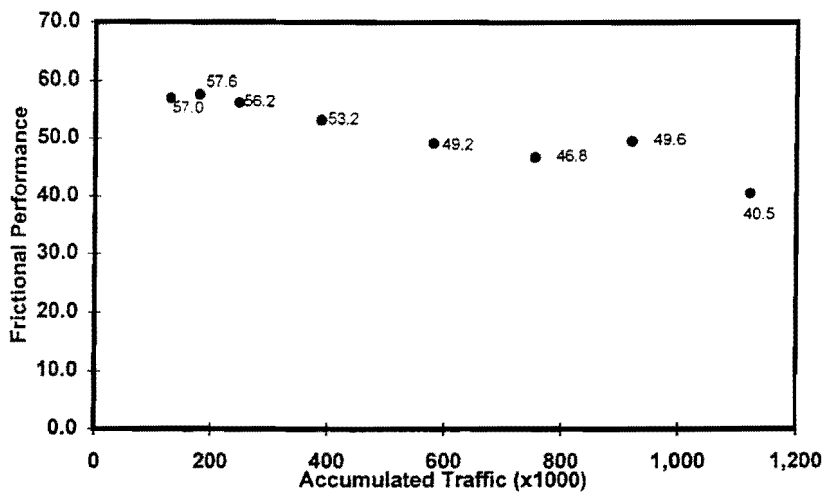
MSS: **20.6**

FRTH:

LA: **27.0**

ADI:

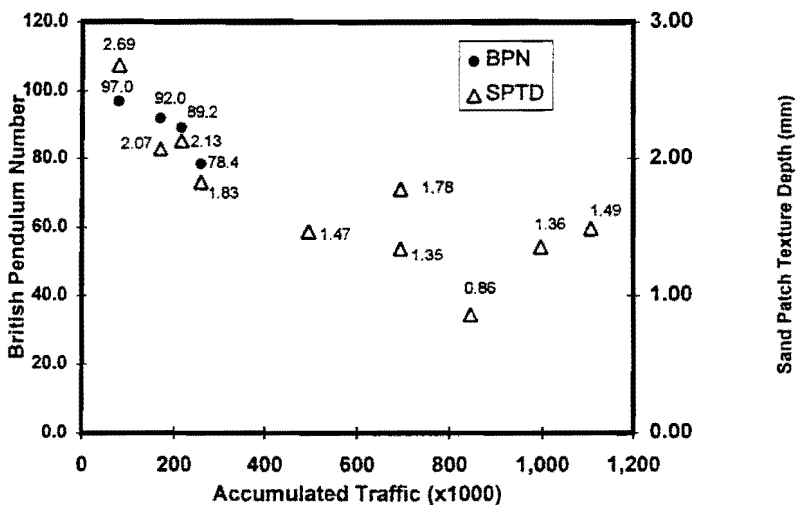
TDT: **8.9**



Test Date

May-90	Oct-90	May-91	Jan-92	May-93	Jul-94	Sep-95	Jan-97			
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BP and SPTD:



Test Date

Feb-90	Nov-90	Mar-91	Jul-91	Mar-93	Jul-94	Jul-95	Aug-96	May-97		
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Date of

Const: **7/13/89**

Producer: **Bandas Industries**

SECTION STATUS: **OPEN**

Pit: **Nolanville**

SECTION: **W1**

FN:

DISTRICT: **Waco**

AGTY: **LS**

SPGR: **2.4**

ABSP: **4.1**

DCL:

PV: **34.0**

INRD:

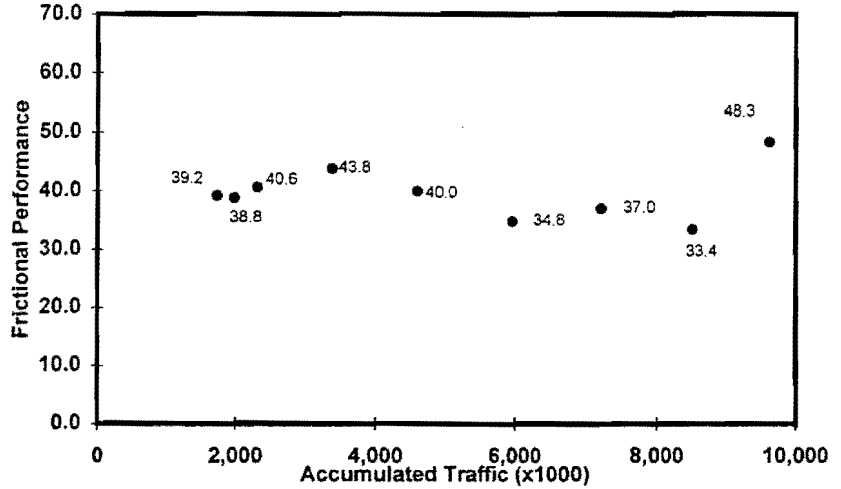
MSS: **26.0**

FRTH:

LA: **39.0**

ADI:

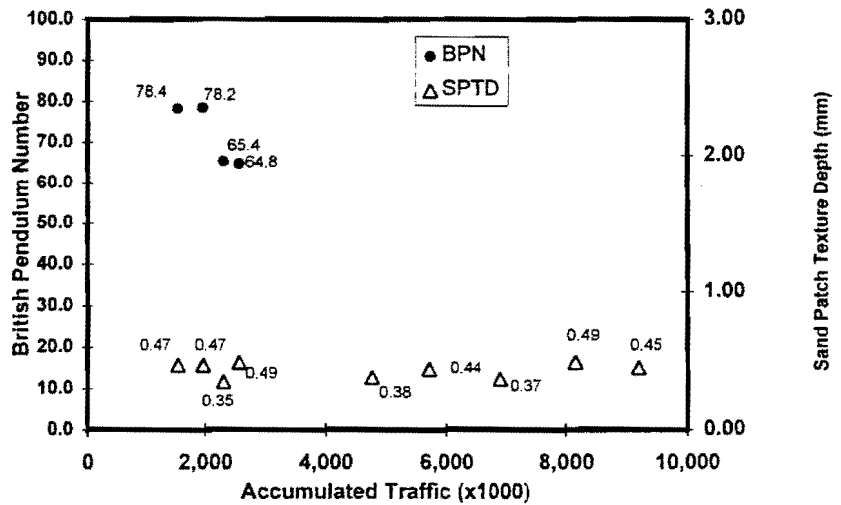
TDT: **10.1**



Test Date

Jun-90	Sep-90	Mar-91	Mar-92	Apr-93	Aug-94	Sep-95	Oct-96	Oct-97		
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BP and SPTD:



Test Date

Mar-90	Oct-90	Mar-91	Jul-91	Aug-93	Jul-94	Jul-95	Aug-96	Jun-97		
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Date of Const: **5/13/88**

Producer: **Redland Worth Materials**

SECTION STATUS: **OPEN**

Pit: **Ainsworth**

SECTION: **W2**

FN:

DISTRICT: **Waco**

AGTY: **LS**

SPGR: **2.4**

ABSP: **3.6**

DCL:

PV: **40.0**

INRD:

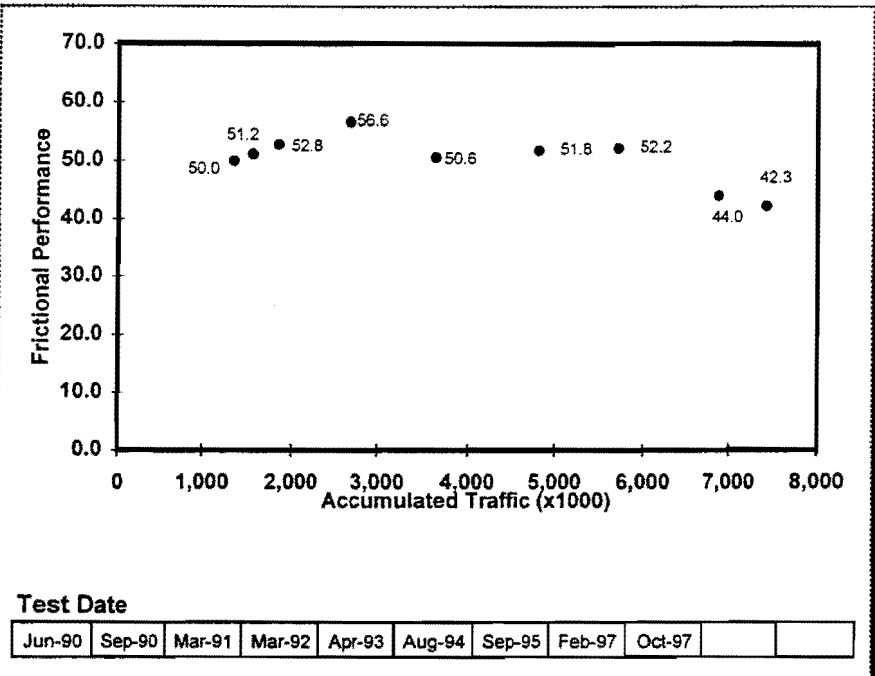
MSS: **11.2**

FRTH:

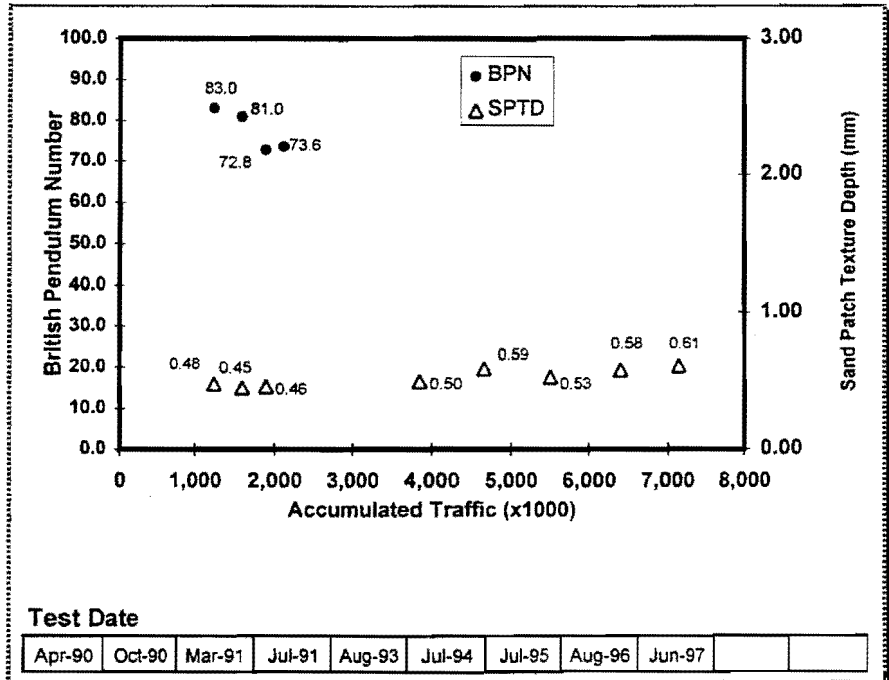
LA: **30.0**

ADI:

TDT: **6.1**



BP and SPTD:



Date of Const: **6/20/88**

1997 Status Report of Project 187.9

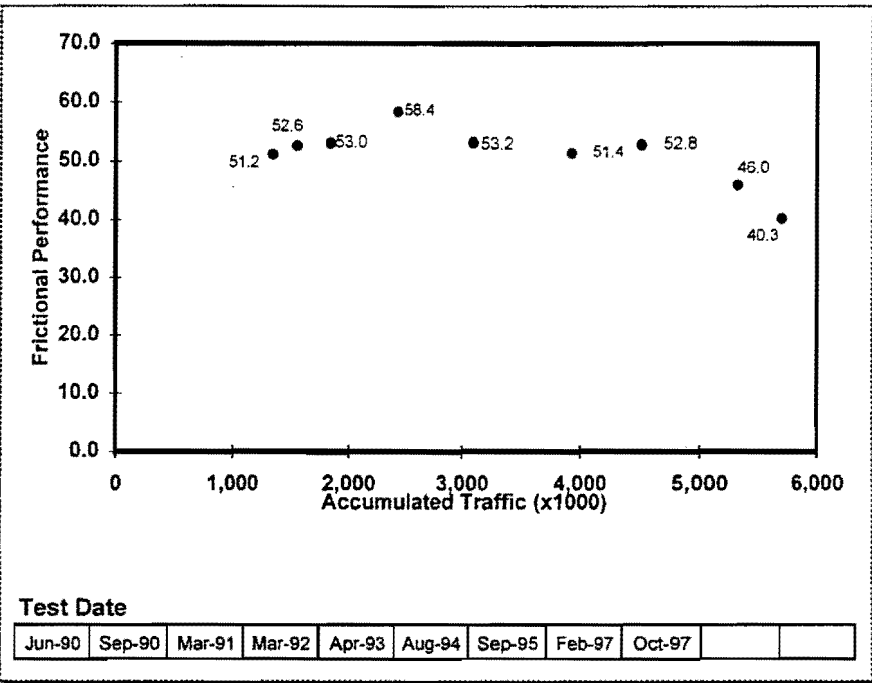
Producer: **Redland Worth Materials**
 Pit: **Ainsworth**

SECTION STATUS: **OPEN**

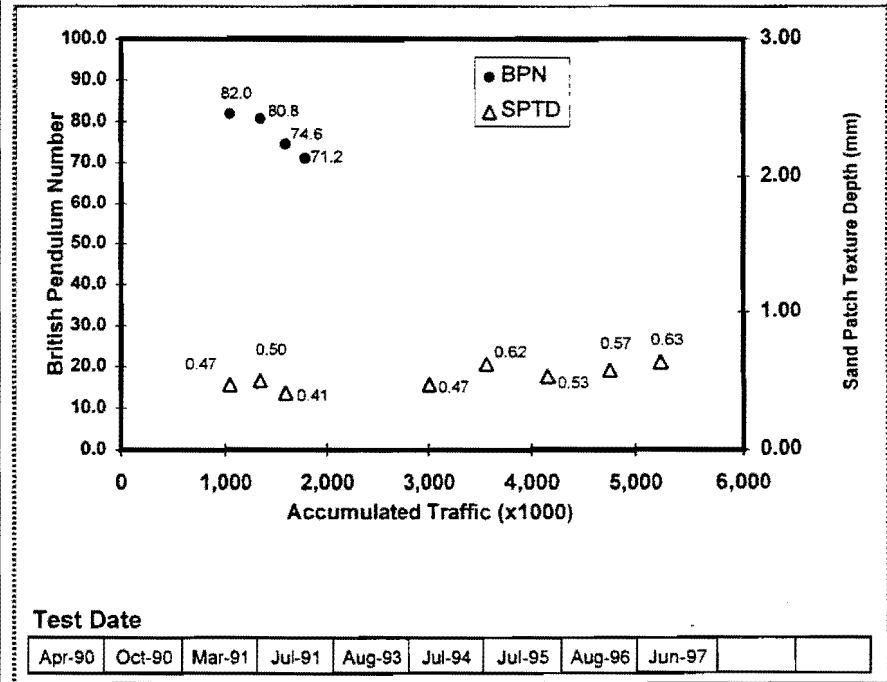
SECTION: **W3**
 DISTRICT: **Waco**
 AGTY: **LS**

FN:

SPGR: **2.4**
 ABSP: **3.6**
 DCL:
 PV: **40.0**
 INRD:
 MSS: **11.2**
 FRTH:
 LA: **30.0**
 ADI:
 TDT: **6.1**



BP and SPTD:



Date of Const: **6/20/88**

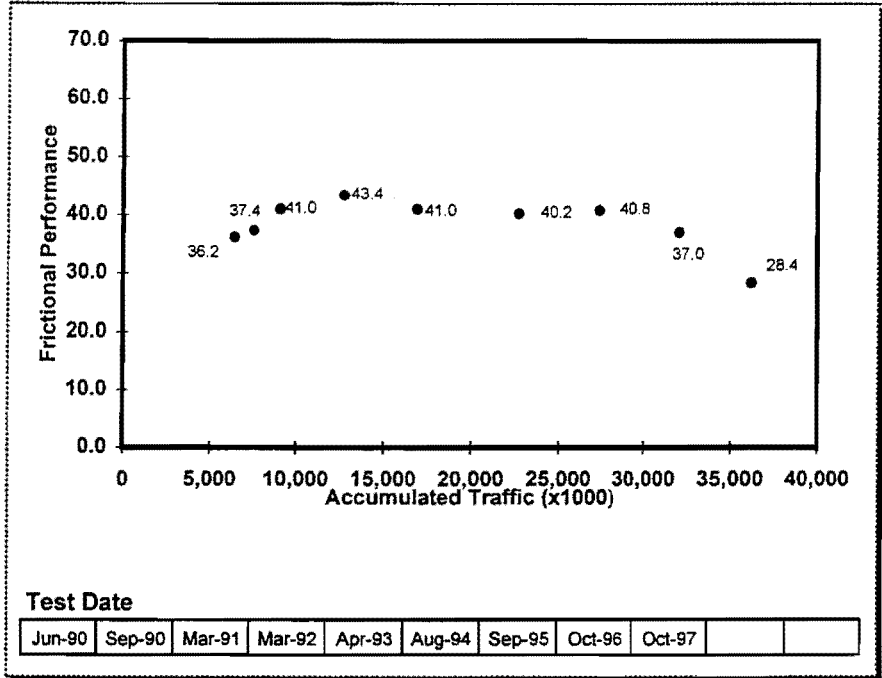
Producer: **Young Brothers**
 Pit: **Atkins**

SECTION STATUS: **OPEN**

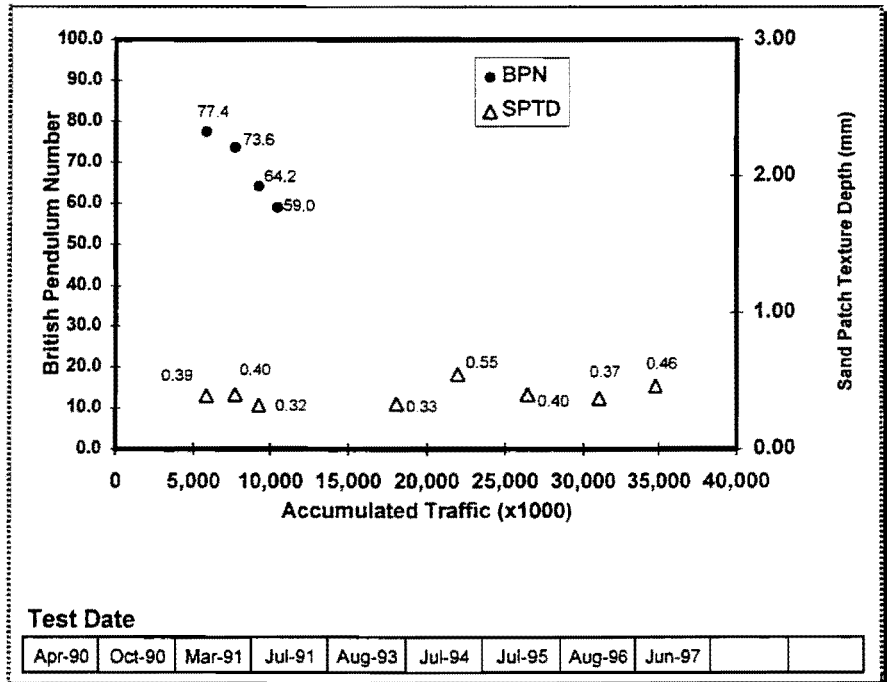
SECTION: **W4**
 DISTRICT: **Waco**
 AGTY: **LS**

SPGR: **2.5**
 ABSP: **3.3**
 DCL:
 PV: **46.0**
 INRD:
 MSS: **23.6**
 FRTH:
 LA: **34.0**
 ADI:
 TDT: **6.0**

FN:



BP and SPTD:



Date of Const: **7/26/88**

Producer: **Odell Geer**

SECTION STATUS: **CLOSED**

Pit: **Prairie Dell**

SECTION: **W5**

FN:

DISTRICT: **Waco**

AGTY: **LS**

SPGR: **2.5**

ABSP: **2.9**

DCL:

PV: **30.0**

INRD:

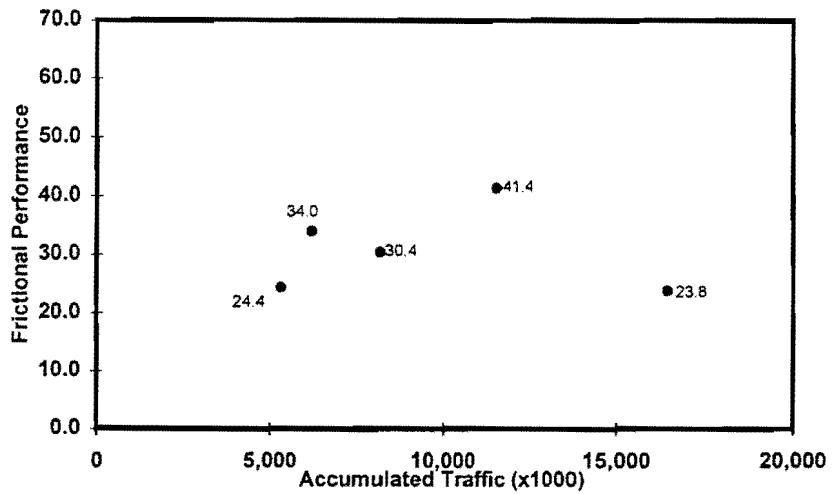
MSS: **11.0**

FRTH:

LA: **27.0**

ADI:

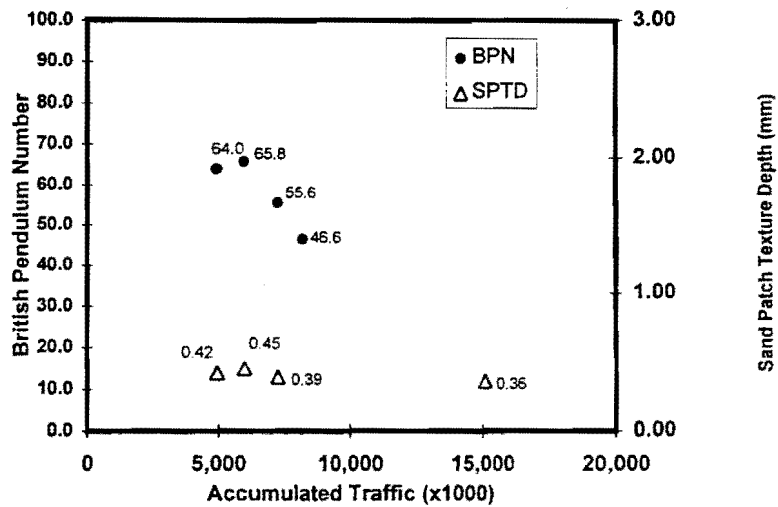
TDT: **6.4**



Test Date

Jun-90	Sep-90	Jul-91	Mar-92	Aug-93					
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BP and SPTD:



Date of

Const: **8/9/88**

Date

Covered: **95-Slurry Seal**

Test Date

Apr-90	Oct-90	Mar-91	Jul-91	Aug-93					
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Reason

Covered: Upheaval of roadway or bulging section due to small fault line in area. Surface cracks

Producer: **Bandas Industries**

SECTION STATUS: **OPEN**

Pit: **Nolanville**

SECTION: **W6**

FN:

DISTRICT: **Waco**

AGTY: **LS**

SPGR: **2.4**

ABSP: **4.1**

DCL:

PV: **34.0**

INRD:

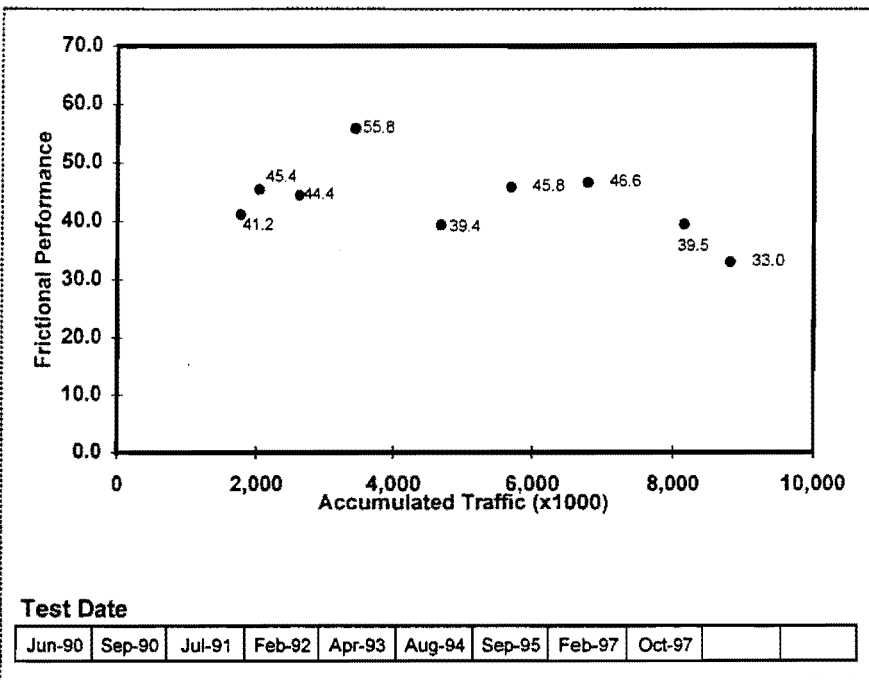
MSS: **26.0**

FRTH:

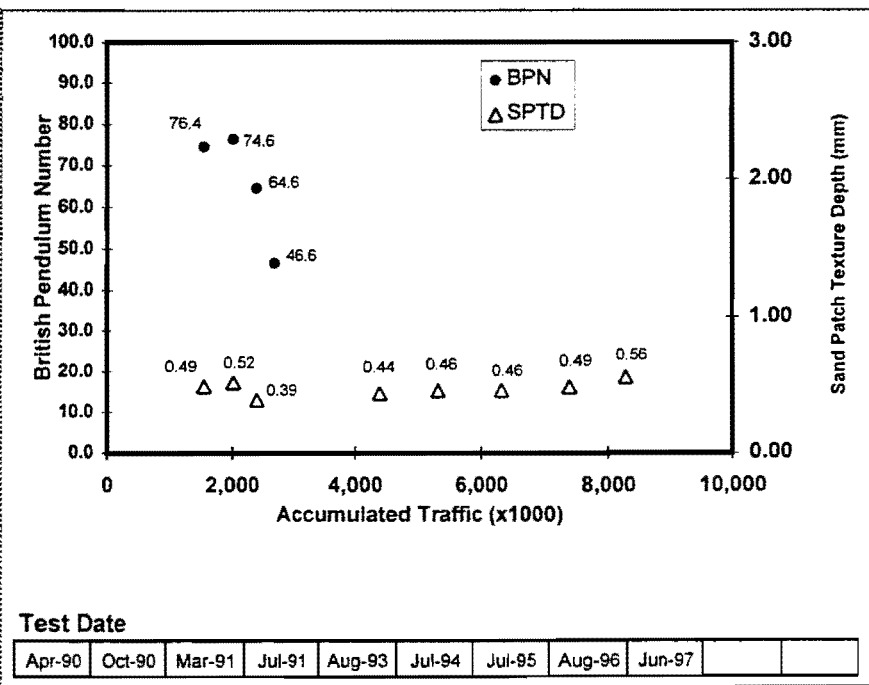
LA: **39.0**

ADI:

TD: **10.1**



BP and SPTD:



Date of Const: **5/13/88**

Producer: **Delta Capitol Aggregate**

SECTION STATUS: **CLOSED**

Pit: **Brownlee**

SECTION: **W7**

FN:

DISTRICT: **Waco**

AGTY: **SS**

SPGR: **2.6**

ABSP: **2.7**

DCL:

PV: **43.0**

INRD:

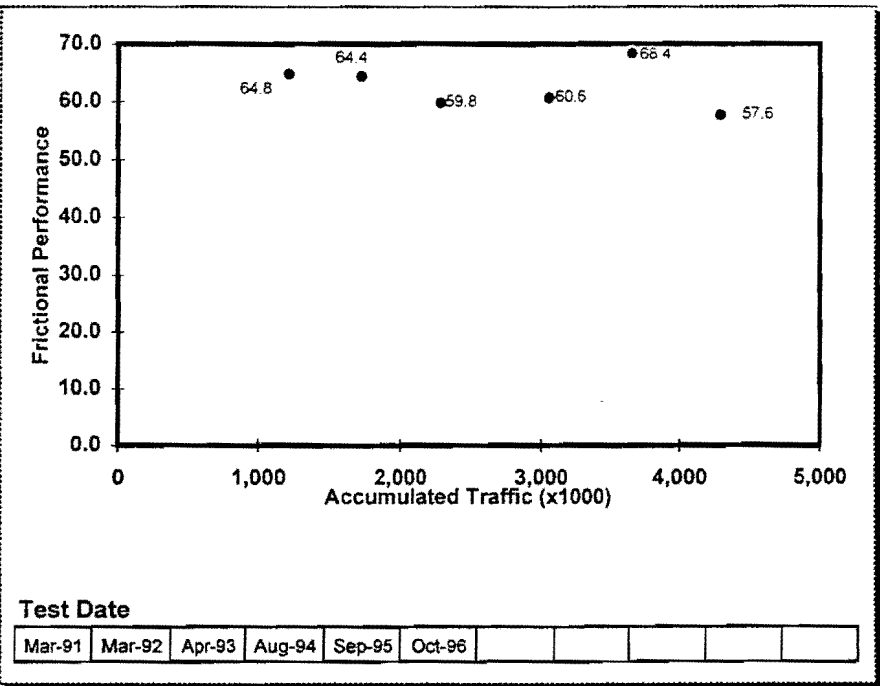
MSS: **18.7**

FRTH:

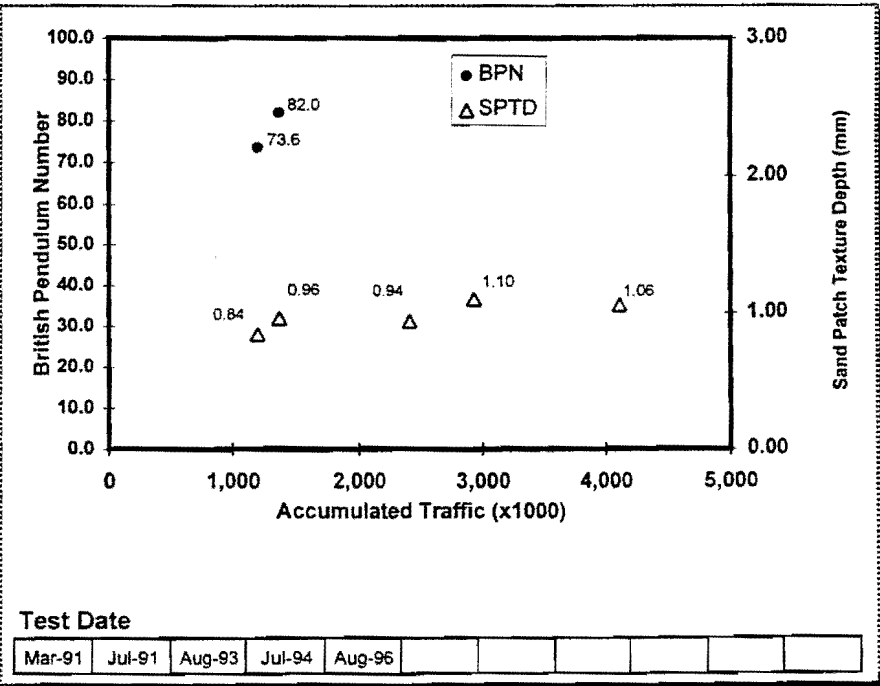
LA: **21.0**

ADI:

TDT: **22.9**



BP and SPTD:



Date of Const: **11/3/88**

Date Covered: **5/11/97**

Reason Covered: Surface had excessive cracking w/some stripping noticed between base and surface

APPENDIX

Sec	Set #	D-M-Y	Friction Value					Cum Day	Traffic /day	Cumulative Traffic	FT	CUFT	PP	CUPP	Distribution Factor	CUFR*DF /1,000
			1	2	3	4	5									
A1	1	6/4/90	46	44	46	44	44	44.8		319,500	54		16.71	0.35	112	
A1	2	10/17/90	48	50	50	47	48	48.6	135	441,000	54		29.81	0.35	154	
A1	3	5/3/91	43	39	40	45	45	42.4	198	619,200	96		34.66	0.35	217	
A1	4	1/15/92	45	44	45	46	44	44.8	257	985,200	133		69.50	0.35	345	
A1	5	4/6/93	34	35	34	35	34	34.4	447	1,432,200	188		97.53	0.35	501	
A1	6	7/18/94	25	24	27	26	24	25.2	468	1,900,200	66	254	31.9	129.43	0.35	665
A1	7	9/13/95	38	32	34	34	30	33.6	422	2,364,400	42	296	18.6	148.03	0.35	828
A1	8	1/28/97	34	35	33	33		33.8	503	2,917,700	47	343	22.6	170.63	0.35	1,021
A1	9	7/3/97	40	38	37	38	39	38.4	156	3,089,300				0.35	1,081	
A2	1	6/4/90	36	37	35	31	32	34.2		1,649,700	54		12.70	0.299	493	
A2	2	10/17/90	33	31	31	36	32	32.6	135	2,338,200	54		25.80	0.299	699	
A2	3	5/3/91	32	28	30	34	31	31.0	198	3,348,000	96		30.65	0.299	1,001	
A2	4	1/15/92	31	29	28	33	31	30.4	257	5,361,000	133		65.99	0.299	1,603	
A2	5	4/6/93	24	27	26	26	26	25.8	447	7,819,500	188		94.02	0.299	2,338	
A2	6	7/18/94	20	20	20	23	22	21.0	468	10,346,700	66	254	31.9	125.92	0.299	3,094
A2	7	9/13/95	33	35	38	33	42	36.2	422	12,625,500	42	296	18.6	144.52	0.299	3,775
A2	8	1/28/97	28	24	23	23	23	24.2	503	15,341,700	47	343	22.6	167.12	0.299	4,587
A2	9	7/3/97	28	31	32	33	30	30.8	156	16,184,100				0.299	4,839	
A3	6	7/18/94	23	24	27	23	26	24.6						0.299	0	
A3	7	9/13/95	33	28	30	32	33	31.2	422		73	73		0.299	0	
A4	1	6/8/90	33	34	33	31	30	32.2		9,267,350	43		28.84	0.299	2,771	
A4	2	10/18/90	28	32	25	22	31	27.6	132	11,029,550	43		44.32	0.299	3,298	
A4	3	4/29/91	30	28	26	28	28	28.0	193	13,606,100	75		54.28	0.299	4,068	
A4	4	1/20/92	33	32	31	34	31	32.2	266	18,473,900	101		89.80	0.299	5,524	
A4	5	4/5/93	24	25	25	25	25	24.8	441	24,339,200	139		122.71	0.299	7,277	
A4	6	7/18/94	24	22	23	23	23	23.0	469	31,186,600	48	187	33.8	156.48	0.299	9,325
A4	7	9/13/95	34	32	34	37	32	33.8	422	37,516,600	37	224	34.1	190.58	0.299	11,217
A4	8	10/14/96	29	28	27	29	29	28.4	397	43,471,600	34	258	28.0	218.58	0.299	12,998
A5	1	6/8/90	31	33	34	33	31	32.4		8,529,350	43		20.09	0.299	2,550	
A5	2	10/18/90	30	30	29	30	29	29.6	132	10,291,550	43		35.57	0.299	3,077	
A5	3	4/29/91	27	27	28	28	29	27.8	193	12,868,100	75		45.53	0.299	3,848	
A5	4	1/20/92	32	33	32	32	32	32.2	266	18,473,900	101		81.05	0.299	5,524	
A5	5	4/5/93	24	25	25	25	24	24.6	441	24,339,200	139		113.96	0.299	7,277	
A5	6	7/18/94	23	22	20	22	21	21.6	469	31,186,600	48	187	33.8	147.73	0.299	9,325
A5	7	9/13/95	32	28	30	34	33	31.4	422	37,516,600	37	224	34.1	181.83	0.299	11,217
A5	8	10/14/96	28	27	29	31	30	29.0	397	43,471,600	34	258	28.0	209.83	0.299	12,998
AUS1	2	9/25/90	55	58	58	56	60	57.4		34,650			4.11	0.5	17	
AUS1	3	7/3/91	39	43	42	38	40	40.4	281	212,310	25		36.22	0.5	106	
AUS1	4	2/19/92	48	50	49	50	50	49.4	231	464,850	38		68.18	0.5	232	
AUS1	5	9/1/93	34	34	35	33	33	33.8	560	851,250	58		110.43	0.5	426	
AUS1	6	8/23/94	42	45	47	44	43	44.2	356	1,075,530	38	96	26.3	136.73	0.5	538
AUS1	7	10/2/95	37	33	36	34	39	35.8	405	1,346,880	21	117	54.5	191.23	0.5	673
AUS1	8	7/15/96	36	39	42	40	40	39.4	287	1,539,170	8	125	14.3	205.53	0.5	770
AUS2	2	9/25/90	67	64	66	67	64	65.6		723,900			2.09	0.165	119	
AUS2	3	7/3/91	58	60	59	60	59	59.2	281	4,305,300	11		31.14	0.165	710	
AUS2	4	3/5/92	65	67	65	66	69	66.4	246	12,357,300	15		62.51	0.165	2,039	
AUS2	5	9/1/93	54	56	52	56	55	54.6	545	22,000	21		106.62	0.165	4,017	
AUS2	6	8/23/94	61	62	63	63	64	62.6	356	32,535,300	14	35	24.5	131.16	0.165	5,368
AUS2	7	10/5/95	60	62	63	64	65	62.8	408	27,000	4	39	54.5	185.66	0.165	7,186
AUS2	8	7/15/96	44	41	49	41	43	43.6	284	27,000	8	47	14.3	199.96	0.165	8,451
AUS2	9	5/12/97	62	63	64	64	64	63.4	301	27,000				0.165	9,792	
AUS3	2	9/25/90	43	39	37	39	42	40.0		3,103,000			2.09	0.165	512	
AUS3	3	7/3/91	37	38	38	37	39	37.8	281	18,190,000	11		31.14	0.165	3,001	
AUS3	4	2/19/92	39	38	42	41	40	40.0	231	37,222,000	15		62.51	0.165	6,142	
AUS3	5	9/1/93	30	28	31	30	34	30.6	560	52,000	27		109.08	0.165	10,946	
AUS3	6	8/23/94	34	31	35	35	35	34.0	356	49,000	24	51	28.6	137.64	0.165	13,825
AUS3	7	10/5/95	35	34	35	40	35	35.8	408	58,000	6	57	54.5	192.14	0.165	17,729
AUS3	8	7/15/96	44	45	45	43		44.3	284	58,000	8	65	14.3	206.44	0.165	20,447
AUS3	9	5/12/97	38	41	39	41	43	40.4	301	58,000				0.165	23,328	
AUS4	3	7/3/91	60	60	61	59	60	60.0		35,861,000	11		49.51	0.5	17,931	
AUS4	4	3/5/92	66	66	69	67	68	67.2	246	51,965,000	15		80.88	0.5	25,983	
AUS4	5	9/16/93	63	63	60	64	64	62.8	560	44,000	21		126.93	0.5	38,303	
AUS4	6	8/23/94	67	65	64	67	64	65.4	341	49,000	14	35	24.3	151.20	0.5	46,657
AUS4	7	10/5/95	68	66	72	66	67	67.8	408	35,000	4	39	54.5	205.70	0.5	53,797
AUS4	8	7/15/96	76	78	75	70	69	73.6	284	35,000	8	47	14.3	220.00	0.5	58,767
C1	1	5/24/90	53	53	53	56	59	54.8		25,355,800	32		179.46	0.298	7,556	
C1	2	11/15/90	57	59	59	53	55	56.6	175	27,595,800	32		192.44	0.298	8,224	

Sec	Set #	D-M-Yr	Friction Value					Avg	Cum Traffic Day	Traffic /day	Cumulative Traffic	FT	CUFT	PP	CUPP	Distribution Factor	GUTR*DF /1,000
			1	2	3	4	5										
C1	3	3/13/91	49	47	53	51	49	49.8	118		29,106,200		37	198.86	0.298	8,674	
C2	1	5/24/90	50	54	51	52	59	53.2			2,548,010		32	173.96	0.5	1,274	
C2	2	11/15/90	45	56	62	58	47	53.6	175		2,765,010		32	186.94	0.5	1,383	
C2	3	3/13/91	48	50	48	54	49	49.8	118		2,911,330		37	193.36	0.5	1,456	
C3	1	5/24/90	29	27	32	31	32	30.2			5,264,640		15	42.85	0.3	1,579	
C3	2	11/15/90	34	30	33	32	41	34.0	175		6,762,640		15	50.18	0.3	2,029	
C3	3	3/13/91	28	26	29	26	28	27.4	118		7,772,720		20	56.13	0.3	2,332	
C3	4	2/4/92	42	43	44	46	42	43.4	328		10,627,520		21	105.75	0.3	3,188	
C3	5	6/1/93	30	32	33	33	32	32.0	483	7,800	14,394,920		21	147.17	0.3	4,318	
C3	6	8/15/94	24	26	28	25	27	26.0	440	10,900	19,190,920	6	27	37.3	184.43	0.3	5,757
C3	7	9/17/95	37	36	37	36	34	36.0	398	11,300	23,688,320	0	27	44.6	229.03	0.3	7,106
C3	8	2/5/97	28	26	27	28		27.3	507	11,300	29,417,420	3	30	35.2	264.23	0.3	8,825
C3	9	10/1/97	26	27	29	30	30	28.4	238	11,300	32,106,820					0.3	9,632
C4	2	11/15/90	62	60	60	63	62	61.4			650,560			4.15	0.304	198	
C4	3	3/13/91	52	50	48	53	52	51.0	118		1,660,640		9	14.58	0.304	505	
C4	4	2/3/92	35	36	40	32	46	37.8	327		7,350,400		12	54.62	0.304	2,235	
C4	5	6/1/93							484						0.304	0	
C4	6	8/15/94	60	60	60	63	62	61.0	440						0.304	0	
C5	2	11/15/90	59	58	59	61	60	59.4			34,020				0.503	17	
C5	3	3/13/91	65	62	62	62	63	62.8	118		604,500		5	6.42	0.503	304	
L1	1	6/5/90	48	48	48	47	48	47.8			1,050,170		146	27.89	0.5	525	
L1	2	10/17/90	48	48	48	50	50	48.8	134		1,260,550		146	36.04	0.5	630	
L1	3	6/11/91	43	43	44	39	43	42.4	237		1,632,640		217	42.18	0.5	816	
L1	4	1/8/92	48	50	50	50	51	49.8	211		1,875,350		251	63.49	0.5	938	
L1	5	5/20/93							498	930	2,338,490		327	85.88	0.5	1,169	
L1	6	7/18/94	46	48	47	43	46	46.0	424	1,050	2,783,690	95	422	14.9	100.77	0.5	1,392
L1	7	9/12/95	55	57	54	58	59	56.6	421	1,050	3,225,740	67	489			0.5	1,613
L2	1	6/5/90	44	42	45	43	44	43.6			5,599,540		147	32.64	0.301	1,685	
L2	2	10/17/90	51	49	50	49	55	50.8	134		6,616,600		147	40.79	0.301	1,992	
L2	3	6/11/91	41	40	42	46	44	42.6	237		8,415,430		218	46.93	0.301	2,533	
L2	4	1/8/92	43	49	50	47	47	47.2	211		11,050,630		252	68.24	0.301	3,326	
L2	5	5/20/93	42	42	40	45	41	42.0	498	7,200	14,636,230		327	90.63	0.301	4,406	
L2	6	7/18/94	37	38	39	37	38	37.8	424	7,500	17,816,230	95	422	14.9	105.52	0.301	5,363
L2	7	9/12/95	46	48	49	49	49	48.2	421	7,800	21,100,030	67	489	17.5	123.02	0.301	6,351
L2	8	10/17/96	39	43	36	40	40	39.6	401	7,800	24,227,830	55	544	18.6	141.62	0.301	7,293
L2	9	5/13/97	45	46	43	46	42	44.4	208	7,800	25,850,230					0.301	7,781
L3	1	6/5/90	47	49	49	48	48	48.2			6,782,540		228	35.30	0.299	2,028	
L3	2	10/17/90	49	50	51	48	50	49.6	134		7,799,600		228	43.45	0.299	2,332	
L3	3	6/11/91	39	45	45	45	44	43.6	237		9,598,430		299	50.36	0.299	2,870	
L3	4	1/8/92	51	47	49	52	51	50.0	211		11,050,630		333	70.90	0.299	3,304	
L3	5	5/20/93	48	49	50	48	50	49.0	498	7,200	14,636,230		408	93.29	0.299	4,376	
L3	6	7/18/94	45	46	42	44	44	44.2	424	7,500	17,816,230	95	503	14.9	108.18	0.299	5,327
L3	7	9/12/95	53	56	47	54	55	53.0	421	7,800	21,100,030	67	570	17.5	125.68	0.299	6,309
L3	8	10/17/96	37	42	41	37	44	40.2	401	7,800	24,227,830	55	625	18.6	144.28	0.299	7,244
L3	9	5/13/97	40	40	41	39	41	40.2	208	7,800	25,850,230					0.299	7,729
L4	1	6/5/90	61	59	61	64	62	61.4			41,580		89	13.33	0.499	21	
L4	2	10/17/90	61	64	56	61	60	60.4	134		58,330		89	21.48	0.499	29	
L4	3	6/11/91	58	57	57	59	57	57.6	237		87,955		160	27.62	0.499	44	
L4	4	1/8/92	60	60	60	59	60	59.8	211		133,705		194	49.93	0.499	67	
L4	5	5/20/93	51	50	54	53	52	52.0	498	125	195,955		269	72.32	0.499	98	
L4	6	7/18/94	49	48	50	49	49	49.0	424	125	248,955	95	364	14.9	87.21	0.499	124
L4	7	9/12/95	53	57	51	52	55	53.6	421	125	301,580	67	431	17.5	104.71	0.499	150
L4	8	10/17/96	41	42	48	48	44	44.6	401	125	351,705	55	486	18.6	123.31	0.499	176
L4	9	5/13/97	50	51	51	53	51	51.2	208	125	377,705					0.499	188
L5	1	6/5/90	41	41	42	42	42	41.6			751,360		82	18.66	0.5	376	
L5	2	10/17/90	43	40	40	43	42	41.6	134		1,047,500		84	25.76	0.5	524	
L5	3	6/12/91	42	37	42	38	44	40.6	238		1,573,480		167	31.59	0.5	787	
L5	4	1/8/92	43	33	37	38	32	36.6	210		2,708,080		200	56.30	0.5	1,354	
L5	5	5/24/93	32	30	33	32	34	32.2	502	3,100	4,264,280		277	77.03	0.5	2,132	
L5	6	7/18/94	25	24	26	25	25	25.0	420	3,100	5,566,280	108	385	18.8	95.84	0.5	2,783
L5	7	9/12/95	35	29	35	34	31	32.8	421	2,800	6,745,080	73	458	23.3	119.14	0.5	3,373
L5	8	10/17/96	22	24	25	31	27	25.8	401	2,800	7,867,880	57	515	26.8	145.94	0.5	3,934
L6	1	6/5/90	45	48	47	43	39	44.4			4,201,720		89	18.31	0.303	1,273	
L6	2	10/17/90	48	48	46	47	48	47.4	134		5,752,100		89	26.46	0.303	1,743	
L6	3	6/12/91	47	45	44	47	46	45.8	238		8,505,760		160	32.60	0.303	2,577	
L6	4	1/8/92	44	43	43	43	44	43.4	210		12,348,760		194	53.91	0.303	3,742	

Sec	Set #	D-M-Yr	Friction Value					Avg	Cum Day	Traffic Day	Cumulative Traffic	FT	CUFT	PP	CUPP	Distribution Factor	CUTR*DF (1,000)
			1	2	3	4	5										
L6	5	5/24/93	48	46	45	47	48	46.8	502	10,500	17,619,760	269		76.30	0.303	5,339	
L6	6	7/18/94	42	43	42	43	42	42.4	420	11,000	22,239,760	95	364	14.9	91.17	0.303	6,739
L6	7	9/12/95	50	49	52	55	50	51.2	421	15,700	28,849,460	67	431	17.5	108.67	0.303	8,741
L6	8	10/16/96	44	48	44	47	44	45.4	400	15,700	35,129,460	55	486	18.6	127.27	0.303	10,644
L7	3	6/12/91	58	60	56	57	54	57.0			1,975,050	71		9.29	0.303	598	
L7	4	1/8/92	60	53	56	58	60	57.4	210		4,171,050	96		27.14	0.303	1,264	
L7	5	5/25/93	55	57	53	54	50	53.8	503	6,000	7,189,050	171		53.52	0.303	2,178	
L7	6	7/18/94	50	40	50	51	51	48.4	419	6,900	10,080,150	95	266	14.9	68.39	0.303	3,054
L8	3	6/12/91	58	55	56	57	59	57.0			1,975,050	71		9.29	0.297	587	
L8	4	1/8/92	57	59	56	56	57	57.0	210		4,171,050	96		27.14	0.297	1,239	
L8	5	5/25/93	56	52	56	52	54	54.0	503	6,000	7,189,050	171		53.52	0.297	2,135	
L8	6	7/18/94	54	49	53	51	54	52.2	419	6,900	10,080,150	95	266	14.9	68.39	0.297	2,994
OD1	1	6/7/90	35	35	37	45	43	39.0			69,130	66		10.81	0.299	21	
OD1	2	10/12/90	37	38	36	41	40	38.4	127		157,480	66		20.04	0.299	47	
OD1	3	6/4/91	36	31	35	35	38	35.0	235		230,330	112		27.29	0.299	69	
OD1	4	2/5/92	53	46	49	51	51	50.0	246		343,790	166		59.49	0.299	103	
OD1	5	5/20/93	38	48	47	39	53	45.0	470	310	489,490	224		80.87	0.299	146	
OD1	6	7/18/94							424	310	620,930	75	299	19.0	99.88	0.299	186
OD1	7	9/14/95	33	41	38	40	46	39.6	423	310	752,060	45	344	18.6	118.48	0.299	225
OD1	8	1/28/97	44	35	35	33	34	36.2	502	310	907,680	47	67	22.6	26.95	0.299	271
OD1	9	9/9/97	27	28	29	43	33	32.0	224	310	977,120				0.299	292	
OD2	1	6/7/90	47	49	51	53	45	49.0			1,321,600	20		4.35	0.3	396	
OD2	2	10/12/90	44	46	42	45	50	45.4	127		2,744,000	20		11.05	0.3	823	
OD2	3	6/4/91	45	46	48	50	47	47.2	235		5,824,000	75		18.06	0.3	1,747	
OD2	4	2/5/92	52	51	54	57	53	53.4	246		9,593,800	129		50.26	0.3	2,878	
OD2	5	5/25/93	47	54	50	56	53	52.0	475	10,300	14,486,300	187		68.61	0.3	4,346	
OD2	6	7/18/94	22	25	26	25	24	24.4	419	11,000	19,095,300	75	262	17.9	86.48	0.3	5,729
OD2	7	9/14/95	38	37	41	41	37	38.8	423	15,700	25,736,400	45	307		0.3	7,721	
OD3	1	6/7/90	44	44	44	40	41	42.6			11,507,300	258		69.99	0.148	1,703	
OD3	2	10/12/90	24	28	34	26	34	29.2	127		12,510,600	258		76.15	0.148	1,852	
OD3	3	6/4/91	20	26	26	33	28	26.6	235		14,367,100	309		82.88	0.148	2,126	
OD3	4	2/5/92	39	39	40	39	40	39.4	246		17,661,100	343		106.59	0.148	2,614	
OD3	5	4/6/93	30	27	22	31	31	28.2	426	9,000	21,495,100	392		124.46	0.148	3,181	
SA1	1	5/29/90	50	50	52	53	55	52.0			749,700	57		20.16	0.503	377	
SA1	2	10/18/90	56	56	56	54	56	55.6	142		1,076,300	57		33.69	0.503	541	
SA1	3	5/1/91	42	43	45	43	46	43.8	195		1,524,800	91		38.04	0.503	767	
SA1	4	1/14/92	53	55	45	55	54	52.4	258		2,439,800	114		78.40	0.503	1,227	
SA1	5	5/26/93	46	44	45	48	42	45.0	498	2,500	3,684,800	153		111.24	0.503	1,853	
SA1	6	7/18/94	39	32	38	35	39	36.2	418	2,400	4,688,000	68	221	22.6	133.82	0.503	2,358
SA1	7	9/14/95	45	46	47	42	47	45.4	423	2,400	5,703,200	35	256	29.5	163.32	0.503	2,869
SA1	8	1/29/97	37	31	41	35		36.0	503	2,400	6,910,400	47	303	25.7	189.02	0.503	3,476
SA1	9	9/9/97	27	28	33	28		29.0	223	2,400	7,445,600				0.503	3,745	
SA4	1	5/30/90	53	53	51	52	49	51.6			789,500	52		26.66	0.5	395	
SA4	2	10/8/90	48	42	40	49	42	44.2	131		1,058,050	52		43.26	0.5	529	
SA4	3	6/6/91	45	40	48	49	32	42.8	241		1,656,650	107		56.61	0.5	828	
SA4	4	1/16/92	50	45	25	44	28	38.4	596		2,352,050	143		84.62	0.5	1,176	
SA4	5	5/26/93	40	27	40	42	40	37.8	496	1,900	3,294,450	197		110.27	0.5	1,647	
SA4	6	7/18/94	14	11	14	12	11	12.4	418	2,000	4,130,450	68	265	22.7	132.99	0.5	2,065
SA6	1	5/31/90	52	51	51	52	51	51.4			830,400	49		19.33	0.5	415	
SA6	2	10/18/90	47	51	50	47	52	49.4	140		1,166,400	49		33.15	0.5	583	
SA6	3	5/2/91	39	44	42	43	43	42.2	196		1,636,800	92		39.30	0.5	818	
SA6	4	1/15/92	47	49	47	52	48	48.6	258		2,478,600	111		68.99	0.5	1,239	
SA6	5	5/26/93	43	41	42	45	39	42.0	497	2,300	3,621,700	151		90.02	0.5	1,811	
SA6	6	7/18/94	34	33	32	36	33	33.6	418	2,700	4,750,300	43	194	17.9	107.88	0.5	2,375
SA6	7	9/16/95	50	46	41	46	51	46.8	425	2,400	5,770,300	37	231	20.6	128.48	0.5	2,885
SA6	8	1/29/97	41	40	41	39		40.3	501	2,400	6,972,700	47	278	23.0	151.48	0.5	3,486
SA16	1	5/29/90	54	57	54	52	53	54.0			750,600	74		16.60	0.5	375	
SA16	2	10/12/90	54	51	54	55	52	53.2	136		995,400	74		30.87	0.5	498	
SA16	3	5/2/91	51	44	54	51	50	50.0	202		1,359,000	127		37.22	0.5	680	
SA16	4	1/15/92	52	47	52	51	50	50.4	258		2,091,000	158		51.65	0.5	1,046	
SA16	5	5/25/93	50	47	48	50	44	47.8	496	2,000	3,083,000	232		74.46	0.5	1,542	
SA16	6	7/18/94	29	24	32	28	28	28.2	419	2,300	4,046,700	85	317	17.1	91.53	0.5	2,023
SA16	7	9/14/95	52	53	47	47	48	49.4	423	2,300	5,019,600	64	381	16.9	108.43	0.5	2,510
SA16	8	1/28/97	41	37	40	42		40.0	502	2,300	6,174,200	56	437	16.6	125.03	0.5	3,087
SA16	9	9/9/97	47	42	40	36	39	40.8	224	2,300	6,689,400				0.5	3,345	

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Sec	Set #	D-M-Yr	Friction Value					Cum Traffic Day	T/day	Cumulative Traffic	FT	CUFT	PP	CUPP	Distribution Factor	CUTR DF /1,000	
			1	2	3	4	5										Avg
SA17	1	5/29/90	54	50	55	57	55	54.2		474,500		62	16.10	0.5	237		
SA17	2	10/18/90	60	61	61	59	60	60.2	142	659,100	64	31.65	0.5	330			
SA17	3	5/1/91	51	57	53	52	56	53.8	195	912,600	118	37.42	0.5	456			
SA17	4	1/14/92	55	56	56	55	57	55.8	258	1,406,700	143	71.32	0.5	703			
SA17	5	5/26/93	48	47	46	46	48	47.0	498	2,079,000	182	99.40	0.5	1,040			
SA17	6	7/18/94							418	1,450	2,685,100	70	252	21.4	120.79	0.5	1,343
SA17	7	9/14/95	46	49	45	43	51	46.8	423	1,550	3,340,750	53	305	28.4	149.19	0.5	1,670
SA19	1	5/30/90	62	59	59	64	63	61.4		102,200	43	20.30	0.5	51			
SA19	2	10/19/90	64	64	67	65	68	65.6	142	141,960	44	16.10	0.5	71			
SA19	3	5/2/91	55	56	59	62	57	57.8	195	196,560	86	46.56	0.5	98			
SA19	4	1/14/92	61	69	66	63	64	64.6	257	313,680	89	79.94	0.5	157			
SA19	5	5/26/93	56	56	56	57	59	56.8	498	320	473,040	129	100.97	0.5	237		
SA19	6	7/18/94	56	56	55	57	59	56.6	418	450	661,140	61	190	28.5	129.51	0.5	331
SA19	7	9/14/95	64	63	64	65	61	63.4	423	360	813,420	37	227	33.9	163.41	0.5	407
SA19	8	1/29/97	56	58	59	56	58	57.4	503	360	994,500	53	280	29.2	192.61	0.5	497
SA27	1	5/31/90	50	50	48	50	57	51.0		2,217,050	98	33.89	0.5	1,109			
SA27	2	10/19/90	57	56	52	51	60	55.2	141	2,745,800	98	47.71	0.5	1,373			
SA27	3	5/1/91	36	41	38	44	37	39.2	194	3,473,300	141	53.86	0.5	1,737			
SA27	4	1/16/92	47	48	50	50	52	49.4	260	4,607,900	123	64.94	0.5	2,304			
SA27	5	5/26/93	53	53	50	49	50	51.0	496	3,100	6,145,500	163	85.97	0.5	3,073		
SA27	6	7/18/94	36	43	37	40	40	39.2	418	3,700	7,692,100	43	206	17.9	103.83	0.5	3,846
SA27	7	9/16/95	54	57	58	56	57	56.4	425	3,600	9,222,100	37	243	28.3	132.13	0.5	4,611
SA27	8	1/29/97	36	38	30	33		34.3	501	3,600	11,025,700	48	291	27.8	159.93	0.5	5,513
SA30	1	5/30/90	58	53	58	59	57	57.0		258,440	49	19.33	0.5	129			
SA30	2	10/19/90	59	55	59	58	57	57.6	142	359,260	49	33.15	0.5	180			
SA30	3	5/1/91	56	55	58	56	56	56.2	194	497,000	92	39.30	0.5	249			
SA30	4	1/14/92	54	53	52	54	53	53.2	258	778,820	111	68.99	0.5	389			
SA30	5	5/27/93	50	52	46	50	48	49.2	499	770	1,163,050	151	90.02	0.5	582		
SA30	6	7/18/94	44	42	46	49	53	46.8	417	830	1,509,160	43	194	17.9	107.88	0.5	755
SA30	7	9/16/95	52	51	51	43	51	49.6	425	790	1,844,910	37	231	20.6	128.48	0.5	922
SA30	8	1/29/97	40	38	43	41		40.5	501	790	2,240,700	48	279	23.0	151.48	0.5	1,120
W1	1	6/5/90	38	38	42	39	39	39.2		3,527,000	57	76.37	0.495	1,746			
W1	2	9/27/90	34	40	37	35	48	38.8	114	4,017,200	57	86.31	0.495	1,989			
W1	3	3/29/91	41	39	39	42	42	40.6	183	4,675,100	79	105.99	0.495	2,314			
W1	4	3/4/92	44	43	45	43	44	43.8	341	6,834,500	99	161.56	0.495	3,383			
W1	5	4/22/93	37	41	43	40	39	40.0	414	5,900	9,277,100	116	200.17	0.495	4,592		
W1	6	8/23/94	33	36	35	35	35	34.8	488	5,700	12,058,700	41	157	39.2	239.39	0.495	5,969
W1	7	9/18/95	35	37	40	38	35	37.0	391	6,500	14,600,200	24	181	51.7	291.09	0.495	7,227
W1	8	10/24/96	35	34	26	37	35	33.4	402	6,500	17,213,200	18	199	18.4	309.49	0.495	8,521
W1	9	10/4/97	51	50	45	47		48.3	345	6,500	19,455,700			0.495	9,631		
W2	1	6/5/90	50	49	52	50	49	50.0		2,711,100	56	71.70	0.5	1,356			
W2	2	9/26/90	52	49	48	55	52	51.2	113	3,129,200	56	81.82	0.5	1,565			
W2	3	3/29/91	54	54	52	50	54	52.8	184	3,699,000	79	102.51	0.5	1,850			
W2	4	3/4/92	58	59	56	55	55	56.6	341	4,870,200	96	161.56	0.5	2,691			
W2	5	4/22/93	52	51	49	51	50	50.6	414	4,600	7,287,000	120	201.71	0.5	3,644		
W2	6	8/23/94	52	52	51	52	52	51.8	488	4,800	9,629,400	42	162	39.1	240.84	0.5	4,815
W2	7	9/18/95	53	51	51	54	52	52.2	391	4,600	11,428,000	24	186	51.7	292.54	0.5	5,714
W2	8	2/3/97	45	43	43	45		44.0	504	4,600	13,746,400	18	204	18.4	310.94	0.5	6,873
W2	9	10/4/97	43	41	42	43		42.3	243	4,600	14,864,200			0.5	7,432		
W3	1	6/5/90	51	53	49	51	52	51.2		2,711,100	56	71.70	0.5	1,356			
W3	2	9/26/90	53	53	52	54	51	52.6	113	3,129,200	56	81.82	0.5	1,565			
W3	3	3/29/91	54	54	53	51	53	53.0	184	3,699,000	79	102.51	0.5	1,850			
W3	4	3/4/92	60	58	58	58	58	58.4	341	4,870,200	96	154.65	0.5	2,435			
W3	5	4/22/93	54	54	52	54	52	53.2	414	3,200	6,195,000	113	194.40	0.5	3,098		
W3	6	8/23/94	52	51	52	51	51	51.4	488	3,400	7,854,200	39	152	44.8	239.15	0.5	3,927
W3	7	9/18/95	54	55	54	51	50	52.8	391	3,100	9,066,300	20	172	48.9	288.05	0.5	4,533
W3	8	2/3/97	46	47	46	45		46.0	504	3,100	10,628,700	18	190	41.9	329.95	0.5	5,314
W3	9	10/4/97	41	40	41	39		40.3	243	3,100	11,382,000			0.5	5,691		
W4	1	6/5/90	36	36	36	37	36	36.2		21,188,600	47	55.08	0.304	6,441			
W4	2	9/27/90	35	37	42	40	33	37.4	114	24,905,000	47	64.36	0.304	7,571			
W4	3	3/29/91	41	40	39	41	44	41.0	183	29,892,800	69	78.43	0.304	9,087			
W4	4	3/4/92	43	43	43	44	44	43.4	341	41,970,800	100	132.03	0.304	12,759			
W4	5	4/22/93	39	42	42	41	41	41.0	414	33,000	55,632,800	124	172.18	0.304	16,912		
W4	6	8/23/94	39	41	41	41	39	40.2	488	39,000	74,664,800	42	166	39.1	211.31	0.304	22,698
W4	7	9/18/95	42	45	38	40	39	40.8	391	39,000	89,913,800	24	190	51.7	263.01	0.304	27,334

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Sec.	Set #	D-M-Yr	Friction Value					Avg.	Cum Traffic Day	Traffic /day	Cumulative Traffic	FT CUFT	PP	CUPP	Distribution Factor	CUTR*DF (1,000)	
			1	2	3	4	5										
W4	8	10/24/96	38	39	39	34	35	37.0	402	39,000	105,591,800		18.4	281.41	0.304	32,100	
W4	9	10/4/97	27	30	30	27	28	28.4	345	39,000	119,046,800				0.304	36,190	
W5	1	6/5/90	24	22	23	26	27	24.4			32,098,000	47	55.08	0.166	5,328		
W5	2	9/25/90	34	36	34	33	33	34.0	112		37,474,000	47	64.36	0.166	6,221		
W5	3	7/3/91	29	31	30	32	30	30.4	281		49,522,000	69	87.99	0.166	8,221		
W5	4	3/4/92	42	40	41	41	43	41.4	245		69,652,000	100	126.70	0.166	11,562		
W5	5	8/19/93	24	18	25	26	26	23.8	533	55,000	98,967,000	128	174.04	0.166	16,429		
W6	1	6/5/90	42	43	42	39	40	41.2			5,889,640	47	44.00	0.3	1,767		
W6	2	9/25/90	41	46	44	45	51	45.4	112		6,784,520	47	53.28	0.3	2,035		
W6	3	7/3/91	46	46	44	43	43	44.4	281		8,790,010	75	99.07	0.3	2,637		
W6	4	2/27/92	60	56	52	57	54	55.8	239		11,535,010	100	115.62	0.3	3,461		
W6	5	8/19/93	41	36	39	41	40	39.4	539	7,500	15,577,510	128	162.96	0.3	4,673		
W6	6	8/23/94	51	44	45	46	43	45.8	369	9,200	18,972,310	33	161	27.8	190.72	0.3	5,692
W6	7	9/18/95	47	54	40	46	46	46.6	391	9,200	22,569,510	18	179	35.1	225.82	0.3	6,771
W6	8	2/3/97	41	37	41	39	40	39.5	504	9,200	27,206,310	18	197	47.4	273.22	0.3	8,162
W6	9	10/4/97	34	36	33	36	26	33.0	243	9,200	29,441,910				0.3	8,833	
W7	3	3/29/91	63	63	65	66	67	64.8			3,509,800	79	91.03	0.346	1,214		
W7	4	3/4/92	65	65	65	64	63	64.4	341		4,973,800	99	146.60	0.346	1,721		
W7	5	4/22/93	60	62	60	57	60	59.8	414	4,000	6,629,800	116	185.21	0.346	2,294		
W7	6	8/23/94	61	61	60	62	59	60.6	488	4,500	8,825,800	41	157	39.2	224.43	0.346	3,054
W7	7	9/18/95	70	69	68	68	67	68.4	391	4,500	10,585,300	24	181	51.7	276.13	0.346	3,663
W7	8	10/24/96	57	60	58	53	60	57.6	402	4,500	12,394,300		18.4	294.53	0.346	4,288	

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Sec.	Set #	D-M-Yr	BP					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
A1	1	4/3/90	88	94	91	89	97	91.8	2.26		263,700	0.35	92
A1	2	10/30/90	84	84	80	85	90	84.6	1.90		452,700	0.35	158
A1	3	3/4/91	68	70	69	71	72	70.0	1.73		565,200	0.35	198
A1	4	7/8/91	70	74	74	73	72	72.6	1.11		678,600	0.35	238
A1	5	9/7/93							1.79	1,000	1,470,600	0.35	515
A1	6	7/7/94							1.46	1,000	1,773,600	0.35	621
A1	7	7/26/95							0.63	1,100	2,196,000	0.35	769
A1	8	8/14/96							1.03	1,100	2,619,500	0.35	917
A1	9	5/20/97							1.08	1,100	2,926,400	0.35	1,024
A2	1	4/3/90	78	80	79	84	81	80.4	0.46		1,333,500	0.299	399
A2	2	10/30/90	69	69	70	66	71	69.0	0.47		2,404,500	0.299	719
A2	3	3/4/91	61	69	68	68	60	65.2	0.38		3,042,000	0.299	910
A2	4	7/8/91	60	60	65	66	63	62.8	0.44		3,684,600	0.299	1,102
A2	5	3/14/93							0.37	5,500	7,067,100	0.299	2,113
A2	6	7/7/94							0.55	5,400	9,659,100	0.299	2,888
A2	7	7/26/95							0.36	5,400	11,732,700	0.299	3,508
A2	8	8/14/96							0.44	5,400	13,811,700	0.299	4,130
A2	9	5/20/97							0.44	5,400	15,318,300	0.299	4,580
A4	1	4/3/90	74	71	72	69	70	71.2	0.52		8,386,250	0.299	2,507
A4	2	10/30/90	49	52	57	54	56	53.6	0.56		11,189,750	0.299	3,346
A4	3	3/4/91	55	54	55	52	54	54.0	0.42		12,858,500	0.299	3,845
A4	4	7/8/91	54	51	51	50	50	51.2	0.44		14,540,600	0.299	4,348
A4	5	9/7/93							0.41	13,300	25,074,200	0.299	7,497
A4	6	7/7/94							0.54	14,600	29,498,000	0.299	8,820
A4	7	7/26/95							0.40	15,000	35,258,000	0.299	10,542
A4	8	8/15/96							0.45	15,000	41,048,000	0.299	12,273
A5	1	4/3/90	66	69	68	68	69	68.0	0.50		7,648,250	0.299	2,287
A5	2	10/30/90	55	53	50	53	55	53.2	0.48		10,451,750	0.299	3,125
A5	3	3/4/91	55	57	54	55	54	55.0	0.41		12,120,500	0.299	3,624
A5	4	7/8/91	50	50	50	50	49	49.8	0.42		13,802,600	0.299	4,127
A5	5	9/7/93							0.38	13,300	24,336,200	0.299	7,277
A5	6	7/7/94							0.58	14,600	28,760,000	0.299	8,599
A5	7	7/26/95							0.37	15,000	34,520,000	0.299	10,321
A5	8	8/15/96							0.44	15,000	40,310,000	0.299	12,053
AUS1	2	8/7/90	110	108	101	110	107	107.2	3.91		3,780	0.5	2
AUS1	3	3/26/91	81	75	76	74	79	77.0	2.56		149,310	0.5	75
AUS1	4	7/24/91	70	69	69	68	69	69.0	1.94		224,280	0.5	112
AUS1	5	8/9/93							1.70	690	739,710	0.5	370
AUS1	6	7/19/94							1.76	630	956,430	0.5	478
AUS1	7	7/17/95							1.45	670	1,199,640	0.5	600
AUS2	2	8/7/90	80	87	86	88	86	85.4	0.63		101,600	0.165	17
AUS2	3	3/26/91	82	83	84	82	82	82.6	0.45		3,035,300	0.165	501
AUS2	4	7/24/91	80	84	83	86	81	82.8	0.59		4,546,600	0.165	750
AUS2	5	8/9/93							0.63	22,000	20,980,600	0.165	3,462
AUS2	6	7/19/94							0.66	23,000	28,892,600	0.165	4,767
AUS2	7	7/17/95							0.59	27,000	38,693,600	0.165	6,384
AUS2	9	7/17/97							0.60	27,000	58,430,600	0.165	9,641
AUS3	2	8/8/90	77	84	79	84	73	79.4	0.66		642,000	0.165	106
AUS3	3	3/26/91	68	72	70	65	69	68.8	0.52		13,000,500	0.165	2,145
AUS3	4	7/24/91	62	65	60	64	60	62.2	0.48		19,367,000	0.165	3,196
AUS3	5	8/9/93							0.36	52,000	58,211,000	0.165	9,605
AUS3	6	7/19/94							0.51	49,000	75,067,000	0.165	12,386

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Sec.	Set#	D-M-Yr	BP1 BP2 BP3 BP4 BP5					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
AUS3	7	7/17/95							0.55	58,000	96,121,000	0.165	15,860
AUS3	9	5/23/97							0.50	58,000	135,329,000	0.165	22,329
AUS4	3	3/26/91	83	81	85	85	85	83.8	0.72		31,208,000	0.5	15,604
AUS4	4	7/24/91	80	84	87	85	91	85.4	0.76		36,801,000	0.5	18,401
AUS4	5	8/30/93							1.28	44,000	70,593,000	0.5	35,297
AUS4	6	7/19/94							1.00	49,000	86,420,000	0.5	43,210
AUS4	7	7/17/95							0.92	35,000	99,125,000	0.5	49,563
C1	1	3/20/90	90	85	83	82	85	85.0	0.43		24,513,200	0.298	7,305
C1	2	11/15/90	76	68	71	70	70	71.0	0.41		27,585,200	0.298	8,220
C1	3	3/14/91	84	82	82	74	77	79.8	0.46		29,108,400	0.298	8,674
C2	1	3/20/90	95	97	94	91	91	93.6	2.10		2,466,310	0.5	1,233
C2	2	11/15/90	82	90	81	83	85	84.2	1.50		2,763,910	0.5	1,382
C2	3	3/14/91	90	87	89	85	93	88.8	1.45		2,911,470	0.5	1,456
C3	1	3/20/90	71	72	73	75	72	72.6	0.36		4,833,850	0.3	1,450
C3	2	11/16/90	60	59	59	59	60	59.4	0.32		7,280,000	0.3	2,184
C3	3	3/14/91	71	75	69	70	66	70.2	0.33		8,477,700	0.3	2,543
C3	4	7/15/91	52	55	55	53	54	53.8	0.34		9,726,150	0.3	2,918
C3	5	7/12/93							0.32	7,800	15,404,550	0.3	4,621
C3	6	7/28/94							0.49	10,900	19,557,450	0.3	5,867
C3	7	7/17/95							0.59	11,300	23,557,650	0.3	7,067
C3	8	10/19/96							0.39	11,300	28,755,650	0.3	8,627
C3	9	7/15/97							0.40	11,300	31,795,350	0.3	9,539
C4	2	11/15/90	93	80	81	80	83	83.4	1.77		642,000	0.304	195
C4	3	3/14/91	85	86	90	75	84	84.0	0.99		1,403,840	0.304	427
C4	4	7/15/91	73	78	75	73	74	74.6	0.77		2,456,720	0.304	747
C4	5							0.0				0.304	0
C5	2	11/15/90	90	87	85	90	85	87.4	1.05		34,020	0.503	17
C5	3	3/14/91	87	86	93	93	93	90.4	0.68		612,360	0.503	308
C5	4	7/15/91	91	91	88	87	90	89.4	0.74		1,210,140	0.503	609
C5	5											0.503	0
L1	1	3/14/90	93	96	95	94	93	94.2	1.57		919,860	0.5	460
L1	2	10/24/90	75	72	80	75	72	74.8	1.86		1,271,540	0.5	636
L1	3	3/6/91	74	78	75	73	77	75.4	1.43		1,480,350	0.5	740
L1	4	7/10/91	74	73	77	70	69	72.6	1.43		1,678,170	0.5	839
L1	5											0.5	0
L2	1	3/14/90	75	75	76	76	73	75.0	0.55		4,969,570	0.301	1,496
L2	2	10/24/90	75	71	67	76	69	71.6	0.52		6,669,730	0.301	2,008
L2	3	3/6/91	68	70	70	67	69	68.8	0.43		7,679,200	0.301	2,311
L2	4	7/9/91	65	60	65	60	59	61.8	0.52		8,635,540	0.301	2,599
L2	5	3/14/93							0.59	7,200	13,056,340	0.301	3,930
L2	6	7/6/94							0.82	7,500	16,648,840	0.301	5,011
L2	7	7/26/95							0.71	7,800	19,651,840	0.301	5,915
L2	8	8/13/96							0.75	7,800	22,647,040	0.301	6,817
L2	9	5/5/97							0.87	7,800	24,714,040	0.301	7,439
L3	1	3/15/90	87	85	85	86	82	85.0	0.66		6,160,160	0.299	1,842
L3	2	10/24/90	80	78	78	80	83	79.8	0.69		7,852,730	0.299	2,348
L3	3	3/6/91	70	71	72	79	73	73.0	0.61		8,862,200	0.299	2,650
L3	4	7/9/91	66	69	70	70	72	69.4	0.59		9,818,540	0.299	2,936
L3	5	3/14/93							0.78	7,200	14,239,340	0.299	4,258
L3	6	7/6/94							0.96	7,500	17,831,840	0.299	5,332
L3	7	7/26/95							0.57	7,800	20,834,840	0.299	6,230
L3	8	8/13/96							0.97	7,800	23,830,040	0.299	7,125

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Sec.	Set #	D-M-Yr	BP1 BP2 BP3 BP4 BP5					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
L3	9	5/5/97							1.16	7,800	25,897,040	0.299	7,743
L4	1	3/15/90	83	87	88	85	86	85.8	0.50		31,330	0.499	16
L4	2	10/24/90	81	81	81	85	77	81.0	0.56		59,210	0.499	30
L4	3	3/6/91	75	81	80	76	79	78.2	0.50		75,830	0.499	38
L4	4	7/9/91	72	75	76	80	76	75.8	0.87		91,580	0.499	46
L4	5	3/13/93							1.01	125	168,205	0.499	84
L4	6	7/6/94							0.96	125	228,205	0.499	114
L4	7	7/28/95							0.75	125	276,330	0.499	138
L4	8	8/13/96							1.08	125	324,080	0.499	162
L4	9	5/5/97							1.15	125	357,205	0.499	178
L5	1	3/15/90	90	89	93	94	90	91.2	1.60		570,140	0.5	285
L5	2	10/25/90	80	80	75	78	80	78.6	1.16		1,065,180	0.5	533
L5	3	3/6/91	71	71	73	65	73	70.6	0.69		1,356,900	0.5	678
L5	4	7/10/91	70	71	75	71	74	72.2	1.07		1,635,360	0.5	818
L5	5	3/14/93							1.13	3,100	3,535,660	0.5	1,768
L5	6	7/5/94							0.81	3,100	5,017,460	0.5	2,509
L5	7	7/26/95							0.37	2,800	6,098,260	0.5	3,049
L5	8	8/13/96							0.62	2,800	7,173,460	0.5	3,587
L5	9	5/5/97							0.60	2,800	7,915,460	0.5	3,958
L6	1	3/15/90	86	85	83	85	84	84.6	0.51		3,252,980	0.303	986
L6	2	10/25/90	84	86	85	80	86	84.2	0.69		5,844,660	0.303	1,771
L6	3	3/6/91	81	80	80	82	81	80.8	0.65		7,371,900	0.303	2,234
L6	4	7/10/91	75	78	75	79	75	76.4	0.61		8,829,720	0.303	2,675
L6	5	3/14/93							0.70	10,500	15,266,220	0.303	4,626
L6	6	7/5/94							0.79	11,000	20,524,220	0.303	6,219
L6	7	7/26/95							0.53	15,700	26,584,420	0.303	8,055
L6	8	8/13/96							0.92	15,700	32,613,220	0.303	9,882
L6	9	5/5/97							1.03	15,700	36,773,720	0.303	11,142
L7	3	3/7/91	97	95	95	94	94	95.0	0.83		1,302,840	0.303	395
L7	4	7/10/91	81	80	80	81	85	81.4	0.89		2,176,020	0.303	659
L7	5	9/3/93							0.75	6,000	6,892,020	0.303	2,088
L7	6	7/5/94							0.96	6,900	8,996,520	0.303	2,726
L7	7											0.303	0
L8	3	3/7/91	87	92	82	89	87	87.4	1.07		1,302,840	0.297	387
L8	4	7/10/91	82	79	80	85	82	81.6	0.98		2,176,020	0.297	646
L8	5	9/3/93							1.08	6,000	6,892,020	0.297	2,047
L8	6	7/5/94							1.33	6,900	8,996,520	0.297	2,672
L8	7											0.297	0
OD1	1	3/13/90	85	88	87	89	89	87.6	0.49		91,450	0.299	27
OD1	2	10/26/90	75	75	76	77	76	75.8	0.47		161,820	0.299	48
OD1	3	3/5/91	75	75	75	75	70	74.0	0.42		202,120	0.299	60
OD1	4	7/9/91	74	73	75	70	74	73.2	0.49		241,180	0.299	72
OD1	5	9/3/93							0.50	310	485,150	0.299	145
OD1	6	7/6/94							0.64	310	580,010	0.299	173
OD1	7	7/26/95							0.43	310	699,360	0.299	209
OD1	8	8/14/96							0.53	310	818,710	0.299	245
OD1	9	5/21/97							0.58	310	905,510	0.299	271
OD2	1	3/13/90	86	90	91	89	90	89.2	0.48		358,400	0.3	108
OD2	2	10/26/90	80	84	83	82	77	81.2	0.57		2,900,800	0.3	870
OD2	3	3/5/91	80	79	83	83	80	81.0	0.42		4,356,800	0.3	1,307
OD2	4	7/9/91	72	77	77	75	72	74.6	0.51		5,768,000	0.3	1,730
OD2	5	3/14/93							0.64	10,300	12,092,200	0.3	3,628
OD2	5	9/3/93							0.53	10,300	13,874,100	0.3	4,162
OD2	6											0.3	0

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Sec	Set #	D-M-Yr	BP1 BP2 BP3 BP4 BP5					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
OD2	7										0.3	0	
OD3	1	3/13/90	63	63	62	64	62	62.8	0.57		13,339,550	0.148	1,974
OD3	2	10/26/90	70	60	65	64	60	63.8	0.58		15,132,850	0.148	2,240
OD3	3	3/5/91	59	55	54	57	60	57.0	0.46		16,159,850	0.148	2,392
OD3	4	7/9/91	49	46	45	44	44	45.6	0.55		17,155,250	0.148	2,539
OD3	5	7/3/93							1.18	9,000	23,680,250	0.148	3,505
OD3	6											0.148	0
OD3	7											0.148	0
SA1	1	2/21/90	86	86	84	92	83	86.2	2.13		528,800	0.503	266
SA1	2	11/2/90	84	80	83	75	84	81.2	2.07		1,113,000	0.503	560
SA1	3	3/12/91	87	81	84	85	87	84.8	1.37		1,412,000	0.503	710
SA1	4	7/11/91	75	75	78	76	72	75.2	1.31		1,690,300	0.503	850
SA1	5	3/13/93							1.15	2,500	3,217,800	0.503	1,619
SA1	6	7/8/94							0.78	2,400	4,374,600	0.503	2,200
SA1	7											0.503	0
SA1	8	8/12/96							0.58	2,400	6,213,000	0.503	3,125
SA1	9	5/19/97							0.64	2,400	6,885,000	0.503	3,463
SA4	2	11/2/90	71	74	76	74	75	74.0	1.20		1,107,300	0.5	554
SA4	3	3/12/91	65	64	76	68	68	68.2	0.71		1,373,800	0.5	687
SA4	4	7/12/91	75	69	76	72	69	72.2	0.67		1,621,580	0.5	811
SA4	5	3/17/93							0.73	1,900	2,788,180	0.5	1,394
SA4	6											0.5	0
SA4	7											0.5	0
SA6	1	2/21/90	90	93	91	94	92	92.0	2.20		595,200	0.5	298
SA6	2	11/1/90	79	77	79	79	79	78.6	2.00		1,202,400	0.5	601
SA6	3	3/11/91	80	85	79	79	85	81.6	1.79		1,514,400	0.5	757
SA6	4	7/11/91	75	74	74	75	71	73.8	1.49		1,807,200	0.5	904
SA6	5	3/13/93							1.50	2,300	3,212,500	0.5	1,606
SA6	6	7/8/94							1.14	2,700	4,513,900	0.5	2,257
SA6	7											0.5	0
SA6	8	8/12/96							0.87	2,700	6,582,100	0.5	3,291
SA6	9	5/19/97							0.87	2,700	7,338,100	0.5	3,669
SA16	1	2/22/90	98	97	86	92	88	92.2	1.98		579,600	0.5	290
SA16	2	11/1/90	90	87	88	85	89	87.8	2.51		1,033,200	0.5	517
SA16	3	3/11/91	87	87	81	81	89	85.0	1.49		1,267,200	0.5	634
SA16	4	7/11/91	76	78	75	78	71	75.6	1.30		1,486,800	0.5	743
SA16	5	3/14/93							1.22	2,000	2,710,800	0.5	1,355
SA16	6	7/7/94							1.31	2,300	3,814,800	0.5	1,907
SA16	7	7/26/95							0.50	2,300	4,698,000	0.5	2,349
SA16	8	8/12/96							0.70	2,300	5,578,900	0.5	2,789
SA16	9	5/19/97							0.81	2,300	6,222,900	0.5	3,111
SA17	1	2/22/90	85	80	82	88	90	85.0	2.75		245,700	0.5	123
SA17	2	11/2/90	84	84	89	86	86	85.8	2.35		574,600	0.5	287
SA17	3	3/11/91	90	90	92	90	89	90.2	2.00		742,300	0.5	371
SA17	4	7/11/91	75	74	80	80	74	76.6	1.94		900,900	0.5	450
SA17	5	3/13/93							1.54	1,350	1,725,750	0.5	863
SA17	6	7/8/94							1.34	1,450	2,424,650	0.5	1,212
SA17	7											0.5	0
SA19	1	2/21/90	88	90	89	86	88	88.2	1.59		63,000	0.5	32
SA19	2	11/2/90	94	86	90	90	91	90.2	2.31		134,120	0.5	67
SA19	3	3/12/91	86	90	96	96	93	92.2	1.83		170,520	0.5	85
SA19	4	7/11/91	88	85	88	81	81	84.6	2.27		204,400	0.5	102
SA19	5	3/13/93							1.83	320	399,920	0.5	200
SA19	6	7/8/94							1.43	450	616,820	0.5	308

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Sec	Set #	D-M-Yr	BP1 BP2 BP3 BP4 BP5					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
SA19	7	7/26/95							0.71	360	754,700	0.5	377
SA19	8	8/12/96							1.32	360	892,580	0.5	446
SA27	1	2/22/90	91	85	93	90	90	89.8	0.59		1,899,050	0.5	950
SA27	2	11/1/90	80	76	75	72	75	75.6	0.64		2,844,050	0.5	1,422
SA27	3	3/11/91	80	82	79	78	82	80.2	0.54		3,331,550	0.5	1,666
SA27	4	7/12/91	71	71	72	74	71	71.8	0.59		3,789,050	0.5	1,895
SA27	5	3/12/93							0.47	3,100	5,676,950	0.5	2,838
SA27	6	7/8/94							0.64	3,700	7,464,050	0.5	3,732
SA27	7	7/26/95							0.43	3,600	8,842,850	0.5	4,421
SA27	8	8/12/96							0.51	3,600	10,221,650	0.5	5,111
SA27	9	5/19/97							0.52	3,600	11,229,650	0.5	5,615
SA30	1	2/21/90	100	96	94	97	98	97.0	2.69		159,040	0.5	80
SA30	2	11/1/90	92	92	93	89	94	92.0	2.07		338,670	0.5	169
SA30	3	3/11/91	90	85	92	90	89	89.2	2.13		430,970	0.5	215
SA30	4	7/11/91	81	78	80	75	78	78.4	1.83		517,590	0.5	259
SA30	5	3/13/93							1.47	770	988,060	0.5	494
SA30	6	7/8/94							1.78	830	1,388,120	0.5	694
SA30	6	7/8/94							1.35	830	1,388,120	0.5	694
SA30	7	7/26/95							0.86	790	1,690,690	0.5	845
SA30	8	8/12/96							1.36	790	1,993,260	0.5	997
SA30	9	5/19/97							1.49	790	2,214,460	0.5	1,107
W1	1	3/29/90	74	80	81	78	78	78.2	0.47		3,131,100	0.495	1,550
W1	2	10/11/90	82	76	78	81	75	78.4	0.47		3,973,900	0.495	1,967
W1	3	3/18/91	65	65	66	64	67	65.4	0.35		4,653,300	0.495	2,303
W1	4	7/17/91	62	67	64	66	65	64.8	0.49		5,173,600	0.495	2,561
W1	5	8/12/93							0.38	5,900	9,639,900	0.495	4,772
W1	6	7/11/94							0.44	5,700	11,538,000	0.495	5,711
W1	7	7/18/95							0.37	6,500	13,956,000	0.495	6,908
W1	8	8/9/96							0.49	6,500	16,478,000	0.495	8,157
W1	9	6/24/97							0.45	6,500	18,551,500	0.495	9,183
W2	1	4/5/90	82	82	85	81	85	83.0	0.48		2,497,400	0.5	1,249
W2	2	10/11/90	80	83	81	82	79	81.0	0.45		3,196,700	0.5	1,598
W2	3	3/18/91	71	72	73	75	73	72.8	0.46		3,781,300	0.5	1,891
W2	4	7/17/91	71	75	73	74	75	73.6			4,229,000	0.5	2,115
W2	5	8/12/93							0.50	4,600	7,711,200	0.5	3,856
W2	6	7/11/94							0.59	4,800	9,309,600	0.5	4,655
W2	7	7/18/95							0.53	4,600	11,020,800	0.5	5,510
W2	8	8/9/96							0.58	4,600	12,805,600	0.5	6,403
W2	9	6/24/97							0.61	4,600	14,273,000	0.5	7,137
W3	1	4/5/90	84	83	82	81	80	82.0	0.47		2,092,800	0.5	1,046
W3	2	10/11/90	85	78	82	80	79	80.8	0.50		2,697,600	0.5	1,349
W3	3	3/18/91	77	76	72	73	75	74.6	0.41		3,203,200	0.5	1,602
W3	4	7/17/91	73	70	69	69	75	71.2			3,590,400	0.5	1,795
W3	5	8/12/93							0.47	3,200	6,012,800	0.5	3,006
W3	6	7/11/94							0.62	3,400	7,145,000	0.5	3,573
W3	7	7/18/95							0.53	3,100	8,298,200	0.5	4,149
W3	8	8/9/96							0.57	3,100	9,501,000	0.5	4,751
W3	9	6/24/97							0.63	3,100	10,489,900	0.5	5,245
W4	1	4/5/90	78	77	77	76	79	77.4	0.39		19,152,000	0.304	5,822
W4	2	10/11/90	74	78	71	71	74	73.6	0.40		25,313,400	0.304	7,695
W4	3	3/18/91	65	65	60	66	65	64.2	0.32		30,464,200	0.304	9,261
W4	4	7/17/91	60	59	58	60	58	59.0			34,408,800	0.304	10,460
W4	5	8/12/93							0.33	33,000	59,389,800	0.304	18,054
W4	6	7/11/94							0.55	39,000	72,376,800	0.304	22,003

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Sec.	Set #	D-M-Yr	BP1 BP2 BP3 BP4 BP5					Avg	SPTD	Traffic /day	Cumulative Traffic	Distribution Factor	CUTR*DF /1,000
			BP1	BP2	BP3	BP4	BP5						
W4	7	7/18/95							0.40	39,000	86,884,800	0.304	26,413
W4	8	8/9/96							0.37	39,000	102,016,800	0.304	31,013
W4	9	6/24/97							0.46	39,000	114,457,800	0.304	34,795
W5	1	4/5/90	63	61	65	66	65	64.0	0.42		29,830,000	0.166	4,952
W5	2	10/11/90	71	65	65	63	65	65.8	0.45		35,902,000	0.166	5,960
W5	3	3/18/91	55	58	55	56	54	55.6	0.39		43,486,000	0.166	7,219
W5	4	7/17/91	48	48	46	45	46	46.6			49,294,000	0.166	8,183
W5	5	8/12/93							0.36	55,000	90,929,000	0.166	15,094
W5	6											0.166	0
W5	7											0.166	0
W6	1	4/5/90	75	75	74	74	75	74.6	0.49		5,200,050	0.3	1,560
W6	2	10/11/90	74	78	78	74	78	76.4	0.52		6,710,160	0.3	2,013
W6	3	3/18/91	65	66	65	63	64	64.6	0.39		7,972,580	0.3	2,392
W6	4	7/17/91	48	48	46	45	46	46.6			8,939,370	0.3	2,682
W6	5	8/12/93							0.44	7,500	14,616,870	0.3	4,385
W6	6	7/11/94							0.46	9,200	17,680,470	0.3	5,304
W6	7	7/18/95							0.46	9,200	21,102,870	0.3	6,331
W6	8	8/9/96							0.49	9,200	24,672,470	0.3	7,402
W6	9	6/24/97							0.56	9,200	27,607,270	0.3	8,282
W7	3	3/18/91	73	73	74	75	73	73.6	0.84		3,465,800	0.346	1,199
W7	4	7/17/91	82	84	80	84	80	82.0	0.96		3,949,800	0.346	1,367
W7	5	8/12/93							0.94	4,000	6,977,800	0.346	2,414
W7	6	7/11/94							1.10	4,500	8,476,300	0.346	2,933
W7	8	8/9/96							1.06	4,500	11,896,300	0.346	4,116