

SHEET 10 LTPP TRAFFIC DATA TRAFFIC VOLUME AND LOAD ESTIMATE UPDATE-NO SITE COUNT	*STATE ASSIGNED ID <u>317</u> *STATE CODE <u>42</u> *SHRP SECTION ID <u>1606</u>
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ENTERED APR 29 2004

1. ANNUAL TRAFFIC ESTIMATES

*YEAR	ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	ESTIMATED TOTAL VEHICLES AADT LTPP LANE	*ESTIMATED TOTAL TRUCKS AADT LTPP LANE	*ESTIMATED ESAL'S/YR LTPP LANE (1000'S)
<u>1998</u>	<u>8008</u>	<u>720</u>	<u>2803</u>	<u>252</u>	<u>134</u>

2. METHOD FOR ESTIMATING TOTAL VEHICLE AADT (TWO-WAY)

- ☒ Growth factored last year's estimate. (6)
- ☐ Estimated based on volume counts at nearby locations. (3)
- ☐ Used computerized network analyses. (4)
- ☐ Factored a single count taken this year at the LTPP site. (1)
- ☐ Averaged multiple counts taken this year at the LTPP site. (2)
- ☐ Averaged and factored multiple count taken this year at the LTPP site. (5)
- ☐ Used flow maps. (7)
- ☐ Other: (8) _____

3. METHOD FOR ESTIMATING TOTAL TRUCK AADT (TWO-WAY)

- ☐ Used system averages from counts taken this year. (6)
- ☐ Used count data from nearby sites. (3)
- ☒ Used count data from previous years at the LTPP site. (7)
- ☐ Used system averages from previous years. (8)
- ☐ Used computerized network analyses. (4)
- ☐ Used a single count taken this year at the LTPP site. (5)
- ☐ Factored a single count taken this year at the LTPP site. (1)
- ☐ Averaged multiple counts taken this year at the LTPP site. (2)
- ☐ Other: (9) _____

4. METHOD FOR ESTIMATING TOTAL VEHICLES LTPP LANE AADT

- ☒ System distribution factors. (2)
- ☐ Based on actual lane count data. (1)
- ☐ Other: (3) _____

***5. METHOD FOR ESTIMATING TOTAL TRUCKS, LTPP LANE, AADT**

- ☒ System distribution factors. (2)
- ☐ Based on actual lane data count. (1)
- ☐ Other: (3) _____

***6. METHOD FOR ESTIMATING ESAL/YEAR IN LTPP LANE**

- ☐ ESAL/Truck factor (1)
- ☒ ESAL/Vehicle class. (2) (No. of classes) 8
- ☐ ESAL/Axle(3) Sing. _____ Tand. _____ Tri. _____
- ☐ Other: (4) _____

7. ESAL ESTIMATES - SOURCE OF DATA

- ☐ Weight data collected at LTPP site prior years. (2)
- ☒ Weight data from system averages this year. (3)
- ☐ Weight data from system averages prior years. (4)
- ☐ Weight data from historic W-4 Tables used. (5)
- ☐ Other: (6) _____

8. WEIGHT SCALE TYPE

- ☐ WIM scale. (1)
- ☐ Static scale used for enforcement. (2)
- ☐ Static scale not used for enforcement. (3)
- ☒ Other: (4) NONE

NAME OF PREPARER <u>DENNY WILLIAMS</u>	PHONE # <u>717-346-5971</u>
DATE PREPARED <u>JANUARY 2004</u>	rev. March 12, 2001

STATE Pennsylvania
STATE CODE 42
PA Site # 317

STATE Pennsylvania
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PA Site # 317

PA Site # 317

NAME OF PREPARER Sunil R. Patel PHONE NO. 717-772 2739
DATE PREPARED 4-23-98

NAME OF PREPARER Sunil R. Patel PHONE NO. 717-772 2739
DATE PREPARED 4-23-98

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

Pennsylvania
42

FILENAME	START DATE mm / dd / yy	START TIME hh:mm	END DATE mm / dd / yy	END TIME hh:mm	CLASS. SCHEME
<u>C423044.FJ8</u>	<u>4/20/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
<u>C421597.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/25/98</u>	<u>23:00</u>	<u>F</u>
<u>C421605.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
<u>C421599.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
<u>C421606.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
<u>C427037.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
<u>C421690.F18</u>	<u>4/1/98</u>	<u>00:00</u>	<u>6/30/98</u>	<u>23:00</u>	<u>F</u>
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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

NAME OF PREPARER Sunil R. Patel

PHONE NO. 717/772/2739

DATE PREPARED 7/23/98

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

Pennsylvania
42

FILENAME	START DATE mm / dd / yy	START TIME hh:mm	END DATE mm / dd / yy	END TIME hh:mm	CLASS. SCHEME
<u>C421597.FK8</u>	<u>4/21/98</u>	<u>00:00</u>	<u>4/27/98</u>	<u>23:00</u>	<u>F</u>
<u>W421597.FK8</u>	<u>4/21/98</u>	<u>00:00</u>	<u>4/27/98</u>	<u>23:00</u>	<u>F</u>
<u>C421599.FL8</u>	<u>4/22/98</u>	<u>00:00</u>	<u>4/28/98</u>	<u>23:00</u>	<u>f</u>
<u>W421599.FL8</u>	<u>4/22/98</u>	<u>00:00</u>	<u>4/28/98</u>	<u>23:00</u>	<u>f</u>
<u>C421606.FN8</u>	<u>4/24/98</u>	<u>00:00</u>	<u>4/30/98</u>	<u>23:00</u>	<u>f</u>
<u>W421606.FN8</u>	<u>4/24/98</u>	<u>00:00</u>	<u>4/30/98</u>	<u>23:00</u>	<u>f</u>
<u>C421605.G98</u>	<u>5/9/98</u>	<u>00:00</u>	<u>5/15/98</u>	<u>23:00</u>	<u>f</u>
<u>W421605.G98</u>	<u>5/9/98</u>	<u>00:00</u>	<u>5/15/98</u>	<u>23:00</u>	<u>f</u>
<u>C421690.GP8</u>	<u>5/26/98</u>	<u>00:00</u>	<u>6/1/98</u>	<u>23:00</u>	<u>f</u>
<u>W421690.GP8</u>	<u>5/26/98</u>	<u>00:00</u>	<u>6/1/98</u>	<u>23:00</u>	<u>f</u>
<u>C423044.GP8</u>	<u>5/26/98</u>	<u>00:00</u>	<u>6/1/98</u>	<u>23:00</u>	<u>f</u>
<u>W423044.GP8</u>	<u>5/26/98</u>	<u>00:00</u>	<u>6/1/98</u>	<u>23:00</u>	<u>f</u>
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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

NAME OF PREPARER Sunil R. Patel PHONE NO. 717-772 2739
DATE PREPARED 7/23/98

SHEET 13 TRAFFIC DATA FILES TRANSMITTAL FORM	STATE:	PENNSYLVANIA
	STATE CODE:	42

File Name	Start Date mm/dd/yy	Start Time hh:mm	End Date mm/dd/yy	End Time hh:mm	Class Scheme	Counter Manufacturer
C421597.IR8	7/28/98	0	8/3/98	0	F	PAT
C421599.IL8	7/22/98	0	7/28/98	0	F	PAT
C421605.IG8	7/17/98	0	7/23/98	0	F	PAT
C241606.IL8	7/22/98	0	7/28/98	0	F	PAT
C421690.I98	7/9/98	0	7/15/98	0	F	PAT
C423044.J58	8/5/98	0	8/11/98	0	F	PAT
W421597.IR8	7/28/98	0	8/3/98	0	F	PAT
W421599.IL8	7/22/98	0	7/28/98	0	F	PAT
W421605.IG8	7/17/98	0	7/23/98	0	F	PAT
W241606.IL8	7/22/98	0	7/28/98	0	F	PAT
W421690.I98	7/9/98	0	7/15/98	0	F	PAT
W423044.J58	8/5/98	0	8/11/98	0	F	PAT
C421597.I38	7/3/98	0	9/29/98	2300	F	DIAMOND
C421599.I18	7/1/98	0	9/30/98	2300	F	DIAMOND
C421605.I18	7/1/98	0	9/30/98	2300	F	DIAMOND
C241606.I18	7/1/98	0	9/30/98	2300	F	DIAMOND
C421690.I18	7/1/98	0	9/30/98	2300	F	DIAMOND
C423044.I28	7/2/98	0	9/20/98	2300	F	DIAMOND
C421627.K48	9/4/98	0	9/25/98	2300	F	ECM
W421627.K48	9/4/98	0	9/25/98	2300	F	ECM

NAME OF PREPARER:		SUNIL PATEL	PHONE NO.:	717-772-2739
DATE PREPARED:		10/5/98		

Pennsylvania
42

NAME OF PREPARER Sunil Patel PHONE NO. (717) 772-2739
DATE PREPARED 1/4/99

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

Pennsylvania
42

FILENAME	START DATE mm / dd / yy	START TIME hh:mm	END DATE mm / dd / yy	END TIME hh:mm	CLASS. SCHEME
<u>C421627.mjs</u>	<u>11/20/98</u>	<u>00:00</u>	<u>11/26/98</u>	<u>23:00</u>	<u>F</u>
<u>W421627.mjs</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>F</u>
<u>C423044.m68</u>	<u>11/6/98</u>	<u>00:00</u>	<u>11/12/98</u>	<u>23:00</u>	<u>F</u>
<u>W423044.m68</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>F</u>
<u>C421690.m68</u>	<u>11/10/98</u>	<u>00:00</u>	<u>11/16/98</u>	<u>23:00</u>	<u>F</u>
<u>W421690.m68</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>F</u>
<u>C421606.m18</u>	<u>11/18/98</u>	<u>00:00</u>	<u>11/24/98</u>	<u>23:00</u>	<u>f</u>
<u>W421606.m18</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>f</u>
<u>C421599.LR8</u>	<u>10/28/98</u>	<u>00:00</u>	<u>11/3/98</u>	<u>23:00</u>	<u>f</u>
<u>W421599.LR8</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>f</u>
<u>C421605.m18</u>	<u>11/1/98</u>	<u>00:00</u>	<u>11/7/98</u>	<u>23:00</u>	<u>f</u>
<u>W421605.m18</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>f</u>
<u>C421597.LK8</u>	<u>10/21/98</u>	<u>00:00</u>	<u>10/27/98</u>	<u>23:00</u>	<u>f</u>
<u>W421597.LK8</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>f</u>
<u>C429027.m68</u>	<u>11/6/98</u>	<u>00:00</u>	<u>11/12/98</u>	<u>23:00</u>	<u>f</u>
<u>W429027.m68</u>	<u>"</u>	<u>00:00</u>	<u>"</u>	<u>23:00</u>	<u>f</u>

NAME OF PREPARER

Sunil Patel

PHONE NO.

717 772 2739

DATE PREPARED

1/4/98

<div>SHEET 16</div> <div>LTPP MONITORED TRAFFIC DATA</div> <div>SITE CALIBRATION SUMMARY</div>	<div>*STATE ASSIGNED ID<div>317</div></div> <div>*STATE CODE<div>42</div></div> <div>*SHRP SECTION ID<div>1606</div></div>
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SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR)

04/28/1998

2. * TYPE OF EQUIPMENT CALIBRATED

X

 WIM

CLASSIFIER

BOTH

3. * REASON FOR CALIBRATION

X

 REGULARLY SCHEDULED SITE VISIT

RESEARCH

EQUIPMENT REPLACEMENT

TRAINING

DATA TRIGGERED SYSTEM REVISION

NEW EQUIPMENT INSTALLATION

OTHER (SPECIFY)

ENTERED SEP 03 2003

4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):

BARE ROUND PIEZO CERAMIC BARE FLAT PIEZO BENDING PLATES

CHANNELIZED ROUND PIEZO LOAD CELLS QUARTZ PIEZO

X

 CHANNELIZED FLAT PIEZO

X

 INDUCTANCE LOOPS CAPACITANCE PADS

OTHER (SPECIFY)

5. EQUIPMENT MANUFACTURER

PAT

WIM SYSTEM CALIBRATION SPECIFICS**

6.**CALIBRATION TECHNIQUE USED:

TRAFFIC STREAM STATIC SCALE (Y/N)

3S2

 TEST TRUCKS

NUMBER OF TRUCKS COMPARED NUMBER OF TEST TRUCKS USED

TRUCK

11

 PASSES PER TRUCK

TYPE SUSPENSION

TYPE PER FHWA 13 BIN SYSTEM 1

9

 Air

SUSPENSION: 1 - AIR; 2 - LEAF SPRING 2

3 - OTHER (DESCRIBE) 3

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)

MEAN DIFFERENCE BETWEEN ---

DYNAMIC AND STATIC GVW -2.84 STANDARD DEVIATION 2.3

DYNAMIC AND STATIC SINGLE AXLES . STANDARD DEVIATION .

DYNAMIC AND STATIC DOUBLE AXLES . STANDARD DEVIATION .

8.

8

 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED

9. DEFINE THE SPEED RANGES USED (MPH)

4342535161625756

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED)

N/A

11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N)

N

IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE:

CLASSIFIER TEST SPECIFICS***

12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:

VIDEO

X

 MANUAL PARALLEL CLASSIFIERS

13. METHOD TO DETERMINE LENGTH OF COUNT :

X

 TIME NUMBER OF TRUCKS

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

N/A

*** FHWA CLASS 9 FHWA CLASS

*** FHWA CLASS 8 FHWA CLASS

*** PERCENT "UNCLASSIFIED" VEHICLES:

PERSON LEADING CALIBRATION EFFORT:	Sunil Patel
CONTACT INFORMATION:	Denny Williams 8/5/03 rev. November 9,

<div>SHEET 16</div> <div>LTPP MONITORED TRAFFIC DATA</div> <div>SITE CALIBRATION SUMMARY</div>	<div>*STATE ASSIGNED ID<div>317</div></div> <div>*STATE CODE<div>42</div></div> <div>*SHRP SECTION ID<div>1606</div></div>
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SITE CALIBRATION INFORMATION

42C400

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR)

09/04/1998

2. * TYPE OF EQUIPMENT CALIBRATED

X

 WIM CLASSIFIER BOTH

3. * REASON FOR CALIBRATION

X

 REGULARLY SCHEDULED SITE VISIT RESEARCH
 EQUIPMENT REPLACEMENT TRAINING
 DATA TRIGGERED SYSTEM REVISION NEW EQUIPMENT INSTALLATION
 OTHER (SPECIFY)

4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
 BARE ROUND PIEZO CERAMIC BARE FLAT PIEZO BENDING PLATES
 CHANNELIZED ROUND PIEZO LOAD CELLS QUARTZ PIEZO

X

 CHANNELIZED FLAT PIEZO

X

 INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY)

5. EQUIPMENT MANUFACTURER

PAT

ENTERED SEP 03 2003

WIM SYSTEM CALIBRATION SPECIFICS**

6.**CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- STATIC SCALE (Y/N)

3S2

 TEST TRUCKS
 NUMBER OF TRUCKS COMPARED

1

 NUMBER OF TEST TRUCKS USED

12

 PASSES PER TRUCK
TYPE PER FHWA 13 BIN SYSTEM
SUSPENSION: 1 - AIR; 2 - LEAF SPRING
3 - OTHER (DESCRIBE)

TRUCK	TYPE	SUSPENSION
1	9	Air
2		
3		

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN ---
DYNAMIC AND STATIC GVW 0.14 STANDARD DEVIATION 2.9
DYNAMIC AND STATIC SINGLE AXLES . STANDARD DEVIATION .
DYNAMIC AND STATIC DOUBLE AXLES . STANDARD DEVIATION .

8. 5 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED

9. DEFINE THE SPEED RANGES USED (MPH)

62

57

55

53

52

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED)

N/A

11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N)

N

IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE:

CLASSIFIER TEST SPECIFICS***

12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
 VIDEO

X

 MANUAL PARALLEL CLASSIFIERS

13. METHOD TO DETERMINE LENGTH OF COUNT :

X

 TIME NUMBER OF TRUCKS

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

N/A

*** FHWA CLASS 9 FHWA CLASS
*** FHWA CLASS 8 FHWA CLASS
FHWA CLASS
FHWA CLASS
*** PERCENT "UNCLASSIFIED" VEHICLES:

PERSON LEADING CALIBRATION EFFORT: <div>Sunil Patel</div>	
CONTACT INFORMATION: <div>Denny Williams</div> <div>8/5/03</div>	rev. November 9,