

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

HIGHWAY RT. NO. (THIS COUNT): PA 49

MILEPOST NO. OR LOCATION (THIS COUNT): Segment 0530

FILENAME: C421597.C11 ✓ DISK ID: _____

BEGINNING DATE: 01/01/08 BEGINNING TIME: 12:00 AM

ENDING DATE: 03/31/08 ENDING TIME: 11:59 PM

COUNT DURATION: 91 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS: _____

NOTE:IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL#: PAT DAW 190

SENSOR TYPE: PIEZO

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: ATR continuous counts used to develop seasonal adjustment factors which are applied to all 24 hour raw counts by month and by day of week.

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS): NA

COMMENTS:

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER:	<u>Todd Rottet</u>	PHONE: <u>(717) 787-4574</u>
DATE PREPARED:	<u>06/20/2008</u>	Page 1 of 2

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

HIGHWAY RT. NO. (THIS COUNT): PA 49

MILEPOST NO. OR LOCATION (THIS COUNT): Segment 0530

FILENAME: C421597.F11 DISK ID: _____

BEGINNING DATE: 04/01/08 BEGINNING TIME: 12:00 AM

ENDING DATE: 06/30/08 ENDING TIME: 11:59 PM

COUNT DURATION: 91 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS: _____

NOTE:IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL#: PAT DAW 190

SENSOR TYPE: PIEZO

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: ATR continuous counts used to develop seasonal adjustment factors which are applied to all 24 hour raw counts by month and by day of week.

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS): NA

COMMENTS:

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER:	<u>Todd Rottet</u>	PHONE: <u>(717) 787-4574</u>
DATE PREPARED:	<u>08/20/2008</u>	Page 1 of 2

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410.]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597.]

HIGHWAY RT. NO. (THIS COUNT) PA 49

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0530

FILENAME: C421597.III DISK ID _____

BEGINNING DATE 07/01/08 BEGINNING TIME 12:00 am

ENDING DATE 07/30/08 ENDING TIME 11:59 pm

COUNT DURATION 92 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL# PAT DAW 190

SENSOR TYPE PIEZO

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: ATR continuous counts used to develop seasonal adjustment factors which are applied to all 24 hour raw counts by month and by day of week.

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) NA

COMMENTS :

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Todd Rottet</u>	PHONE <u>717-787-4574</u>
DATE PREPARED <u>12/16/08</u>	revised: May 23, 2001

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

HIGHWAY RT. NO. (THIS COUNT) PA 49

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0530

FILENAME: C421597.L11 ✓ DISK ID

BEGINNING DATE 10/01/08 BEGINNING TIME 12:00 am

ENDING DATE 12/31/08 ENDING TIME 11:59 pm

COUNT DURATION 92 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER

NAME OF AGENCY CLASSIFICATION SCHEME: NO. OF BINS

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE PERMANENT X

EQUIPMENT MAKE/MODEL# PAT DAW 190

SENSOR TYPE PIEZO

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: ATR continuous counts used to develop seasonal adjustment factors which are applied to all 24 hour raw counts by month and by day of week.

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) NA

COMMENTS :

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Todd Rottet</u>	PHONE <u>717-787-4574</u>
DATE PREPARED <u>03/11/08</u>	revised: <u>May 23, 2001</u>

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[<u>410</u>]
	*STATE CODE	[<u>42</u>]
	*SHRP SECTION ID	[<u>1597</u>]

HIGHWAY RT. NO. (THIS SESSION): PA 49

MILEPOST NO. OR LOCATION (THIS SESSION): Segment 0530

FILENAME: W421597.C11 ✓ DISK ID: _____

BEGINNING DATE: 01/01/08 BEGINNING TIME: 12:00 AM

ENDING DATE: 03/31/08 ENDING TIME: 11:59 PM

COUNT DURATION: 91 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL#: PAT DAW 190

SENSOR TYPE: PIEZO

VEHICLE CLASSIFICATION METHOD:

7-card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23 _____
 7-card 6 digit Truck Weight study _____ W-card X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS: _____

NOTE:IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Test trucks - Spring and Fall

COMMENTS: Site was calibrated on April 22, 2008.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER:	<u>Todd Rottet</u>	PHONE: <u>(717) 787-4574</u>
DATE PREPARED:	<u>06/20/2008</u>	Page 2 of 2

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[<u>410</u>]
	*STATE CODE	[<u>42</u>]
	*SHRP SECTION ID	[<u>1597</u>]

HIGHWAY RT. NO. (THIS SESSION): PA 49

MILEPOST NO. OR LOCATION (THIS SESSION): Segment 0530

FILENAME: W421597.F11 DISK ID: _____

BEGINNING DATE: 04/01/08 BEGINNING TIME: 12:00 AM

ENDING DATE: 06/30/08 ENDING TIME: 11:59 PM

COUNT DURATION: 91 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL#: PAT DAW 190

SENSOR TYPE: PIEZO

VEHICLE CLASSIFICATION METHOD:

7-card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23 _____
7-card 6 digit Truck Weight study _____ W-card X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS: _____

NOTE:IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Test trucks - Spring and Fall

COMMENTS: Site was calibrated on April 22, 2008.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER:	<u>Todd Rottet</u>	PHONE: (717) 787-4574
DATE PREPARED:	<u>08/20/2008</u>	Page 2 of 2

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

HIGHWAY RT. NO. (THIS SESSION) PA 49

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0530

FILENAME W421597.III DISK ID _____

BEGINNING DATE 07/01/08 BEGINNING TIME 12:00 am

ENDING DATE 09/30/08 ENDING TIME 11:59 pm

COUNT DURATION 92 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# PAT DAW 190

SENSOR TYPE PIEZO

VEHICLE CLASSIFICATION METHOD:

7-card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23
7-card 6 digit Truck Weight study _____ W-card X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Test trucks, Spring and Fall

COMMENTS: See Sheet #16 for more detailed calibration information

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Todd Rottet</u>	PHONE: <u>717-787-4574</u>
DATE PREPARED <u>12/16/08</u>	revised May 23, 2001

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

HIGHWAY RT. NO. (THIS SESSION) PA 49

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0530

FILENAME W421597.L1I ✓ DISK ID _____

BEGINNING DATE 10/01/08 BEGINNING TIME 12:00 am

ENDING DATE 12/31/08 ENDING TIME 11:59 pm

COUNT DURATION 92 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# PAT DAW 190

SENSOR TYPE PIEZO

VEHICLE CLASSIFICATION METHOD:

7-card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23
 7-card 6 digit Truck Weight study _____ W-card X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Test trucks, Spring and Fall

COMMENTS: See Calibration Sheets from 3rd quarter submittal for calibration information.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Todd Rottet</u>	PHONE: <u>717-787-4574</u>
DATE PREPARED <u>03/11/08</u>	revised May 23, 2001

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [410]
*STATE CODE [42]
*SHRP SECTION ID [1597]

SITE CALIBRATION INFORMATION

ENTERED JAN 6 2009

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [10/21/08]
2. * TYPE OF EQUIPMENT CALIBRATED WIM CLASSIFIER X 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 DAW 100

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- STATIC SCALE (Y/N) X TEST TRUCKS
 NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED
 8 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|-------|--------------|
| 1 | _____ | <u> 1 </u> |
| 2 | _____ | _____ |
| 3 | _____ | _____ |
- TYPE PER FHWA 13 BIN SYSTEM
SUSPENSION: 1 - AIR; 2 - LEAF SPRING
 3 - OTHER (DESCRIBE)

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN --- See attached calibration form
DYNAMIC AND STATIC GVW 1.0 STANDARD DEVIATION 4.3
DYNAMIC AND STATIC SINGLE AXLES -1.0 STANDARD DEVIATION 4.7
DYNAMIC AND STATIC DOUBLE AXLES 1.3 STANDARD DEVIATION 5.5
8. 4 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 52, 53, 54, 59
See attached calibration form
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Not known
- 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 ___ TIME ___ NUMBER OF TRUCKS

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

*** FHWA CLASS 9 ___ FHWA CLASS ___

*** FHWA CLASS 8 ___ FHWA CLASS ___

FHWA CLASS ___

FHWA CLASS ___

*** PERCENT "UNCLASSIFIED" VEHICLES: ___ . ___

PERSON LEADING CALIBRATION EFFORT: Todd Rottet

CONTACT INFORMATION: Todd Rottet 717-787-4574

rev. November 9, 1999

*** See below for full calibration information:

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [410]
*STATE CODE [42]
*SHRP SECTION ID [1597]

SITE CALIBRATION INFORMATION

ENTERED JAN 6 2009

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [10/21/08]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☒ BOTH
3. * REASON FOR CALIBRATION
☒ 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
☒ CHANNELIZED FLAT PIEZO ☒ INDUCTANCE LOOPS ☐ CAPACITANCE PADS
☐ OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER PAT DAW 100

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED

	<u>8</u>	PASSES PER TRUCK	
	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	<u>1</u>	<u>1</u>
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2	_____	_____
3 - OTHER (DESCRIBE)	3	_____	_____

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN --- See attached calibration form
 DYNAMIC AND STATIC GVW 1.0 STANDARD DEVIATION 4.3
 DYNAMIC AND STATIC SINGLE AXLES -1.0 STANDARD DEVIATION 4.7
 DYNAMIC AND STATIC DOUBLE AXLES 1.3 STANDARD DEVIATION 5.5

8. 4 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 52, 53, 54, 59
See attached calibration form

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Not known

- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
 IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: _____

CLASSIFIER TEST SPECIFICS***