

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[324]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1599]

HIGHWAY RT. NO. (THIS COUNT): PA 120

MILEPOST NO. OR LOCATION (THIS COUNT): Segment 0042

FILENAME: C421599.I1H ✓ DISK ID:

BEGINNING DATE: 07/01/07 BEGINNING TIME: 12:00 AM

ENDING DATE: 09/30/07 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>Leslie McCoy</u>	PHONE: (717) 783-9972
DATE PREPARED:	<u>12/20/2007</u>	

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[324]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1599]

HIGHWAY RT. NO. (THIS COUNT): PA 120

MILEPOST NO. OR LOCATION (THIS COUNT): Segment 0042

FILENAME: C421599.L1H DISK ID: _____

BEGINNING DATE: 10/01/07 BEGINNING TIME: 12:00 AM

ENDING DATE: 12/26/07 ENDING TIME: 11:59 PM

COUNT DURATION: 87 [] 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: Leslie McCoy

PHONE: (717) 787-2187

DATE PREPARED: 03/20/2008

Page 1 of 2

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[324]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1599]

HIGHWAY RT. NO. (THIS SESSION): PA 120

MILEPOST NO. OR LOCATION (THIS SESSION): Segment 0042

FILENAME: W421599.IIH ✓ DISK ID: _____

BEGINNING DATE: 07/01/07 BEGINNING TIME: 12:00 AM

ENDING DATE: 09/30/07 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

SCANNED

7-6-07 2007

2007-07-06

COMMENTS: Site calibrated in 4th quarter.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER:	<u>Leslie McCoy</u>	PHONE: <u>(717) 783-9972</u>
DATE PREPARED:	<u>12/20/2007</u>	

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[324]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1599]

HIGHWAY RT. NO. (THIS SESSION): PA 120

MILEPOST NO. OR LOCATION (THIS SESSION): Segment 0042

FILENAME: W421599.L1H DISK ID: _____

BEGINNING DATE: 10/01/07 BEGINNING TIME: 12:00 AM

ENDING DATE: 12/26/07 ENDING TIME: 11:59 PM

COUNT DURATION: 87 [] 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 calibrated in 4th quarter on 10/17/07.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER: Leslie McCoy PHONE: (717) 787-2187

DATE PREPARED: 03/20/2008

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [324]
*STATE CODE [42]
*SHRP SECTION ID [1599]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [05/02/07]
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
TYPE PER FHWA 13 BIN SYSTEM 1 _____ 1 _____
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 _____ STANDARD DEVIATION _____
DYNAMIC AND STATIC SINGLE AXLES _____ STANDARD DEVIATION _____
DYNAMIC AND STATIC DOUBLE AXLES _____ STANDARD DEVIATION _____
8. _____ NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) _____
 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 .PDF file named "324 Ridgway Calibration 05-02-07"

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [324]
*STATE CODE [42]
*SHRP SECTION ID [1599]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [05/02/07]
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
TYPE PER FHWA 13 BIN SYSTEM 1 9 1
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 -4.9 STANDARD DEVIATION 3.7
DYNAMIC AND STATIC SINGLE AXLES -11.3 STANDARD DEVIATION 1.7
DYNAMIC AND STATIC DOUBLE AXLES -3.8 STANDARD DEVIATION 4.6
8. 5 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 25, 43, 29, 38, 40
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

<p align="center">SHEET 16</p> <p align="center">LTPP TRAFFIC DATA</p> <p align="center">SITE CALIBRATION SUMMARY</p>	*STATE ASSIGNED ID	[410]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1597]

SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION (MONTH/DAY/YEAR) [10/16/07]
2. TYPE OF EQUIPMENT CALIBRATED WIM CLASSIFIER X BOTH
3. REASON FOR CALIBRATION
- | | |
|---|--|
| <u> X </u> REGULARLY SCHEDULED SITE VISIT | <u> </u> RESEARCH |
| <u> </u> EQUIPMENT REPLACEMENT | <u> </u> TRAINING |
| <u> </u> DATA TRIGGERED SYSTEM REVISION | <u> </u> NEW EQUIPMENT INSTALLATION |
| <u> </u> OTHER (SPECIFY) _____ | |
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
- | | | |
|--------------------------------------|-------------------------------|------------------------------|
| <u> </u> BARE ROUND PIEZO CERAMIC | <u> </u> BARE FLAT PIEZO | <u> </u> BENDING PLATES |
| <u> </u> CHANNELIZED ROUND PIEZO | <u> </u> LOAD CELLS | <u> </u> QUARTZ PIEZO |
| <u> X </u> CHANNELIZED FLAT PIEZO | <u> X </u> INDUCTANCE LOOPS | <u> </u> CAPACITANCE PADS |
| <u> </u> OTHER (SPECIFY) _____ | | |
5. EQUIPMENT MANUFACTURER PAT DAW 190

WIM SYSTEM CALIBRATION SPECIFICS

See calibration file

6. CALIBRATION TECHNIQUE USED:
 ____ TRAFFIC STREAM ____ STATIC SCALE (Y/N) X TEST TRUCKS
 ____ NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED
 9 PASSES PER TRUCK

	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	<u>9</u>	<u>1</u>
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2	<u> </u>	<u> </u>
3 - OTHER (DESCRIBE)	3	<u> </u>	<u> </u>

- | | | | |
|----|---|--------------|----------------------------------|
| 7. | SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT): | | <i>See calibration file</i> |
| | MEAN DIFFERENCE BETWEEN --- | | |
| | DYNAMIC AND STATIC GVW | ___ 2.7 ___ | STANDARD DEVIATION ___ 4.62 ___ |
| | DYNAMIC AND STATIC SINGLE AXLES | ___ 10.8 ___ | STANDARD DEVIATION ___ 11.38 ___ |
| | DYNAMIC AND STATIC DOUBLE AXLES | ___ 0.9 ___ | STANDARD DEVIATION ___ 7.55 ___ |

NAME OF PREPARER: **Leslie McCoy** PHONE: **(717) 787-2187**

DATE PREPARED: **03/20/2008**

8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED: 5 See calibration file
9. DEFINE THE SPEED RANGES USED (MPH): 50 to 54 See calibration file
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

See calibration file

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
FHWA CLASSES: _____
PERCENT "UNCLASSIFIED" VEHICLES: _____

File References:

410.Nelson.Tioga Calibration Fall 2007.pdf
410.Nelson.Tioga Electrical Readings Fall 2007.pdf

NAME OF PREPARER:

Leslie McCoy

PHONE: (717) 787-2187

DATE PREPARED:

03/20/2008

Page 2 of 3

SHEET 16 LTPP TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID [324]
	*STATE CODE [42]
	*SHRP SECTION ID [1599]

SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION (MONTH/DAY/YEAR) [10/17/07]
2. TYPE OF EQUIPMENT CALIBRATED ___ WIM ___ CLASSIFIER X BOTH
3. REASON FOR CALIBRATION
X REGULARLY SCHEDULED SITE VISIT
___ EQUIPMENT REPLACEMENT
___ DATA TRIGGERED SYSTEM REVISION
___ OTHER (SPECIFY) _____
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
___ BARE ROUND PIEZO CERAMIC
___ CHANNELIZED ROUND PIEZO
X CHANNELIZED FLAT PIEZO
___ BARE FLAT PIEZO
___ LOAD CELLS
X INDUCTANCE LOOPS
___ BENDING PLATES
___ QUARTZ PIEZO
___ CAPACITANCE PADS
___ OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER PAT DAW 190

WIM SYSTEM CALIBRATION SPECIFICSSee calibration file

6. CALIBRATION TECHNIQUE USED:
___ TRAFFIC STREAM ___ STATIC SCALE (Y/N) X TEST TRUCKS
___ NUMBER OF TRUCKS COMPARED ___ 1 ___ NUMBER OF TEST TRUCKS USED
___ 7 ___ PASSES PER TRUCK

	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	<u>9</u>	<u>1</u>
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2	___	___
3 - OTHER (DESCRIBE)	3	___	___

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT): See calibration file
- MEAN DIFFERENCE BETWEEN ---
- | | | | |
|---------------------------------|------------|--------------------|------------|
| DYNAMIC AND STATIC GVW | <u>6.1</u> | STANDARD DEVIATION | <u>6.7</u> |
| DYNAMIC AND STATIC SINGLE AXLES | <u>6.0</u> | STANDARD DEVIATION | <u>7.9</u> |
| DYNAMIC AND STATIC DOUBLE AXLES | <u>7.9</u> | STANDARD DEVIATION | <u>7.4</u> |

NAME OF PREPARER: Leslie McCoy PHONE: (717) 787-2187

DATE PREPARED: 03/20/2008

8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED: 6 See calibration file
9. DEFINE THE SPEED RANGES USED (MPH): 30 to 44 See calibration file
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

See calibration file

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
FHWA CLASSES: _____
PERCENT "UNCLASSIFIED" VEHICLES: _____

File References:

324.Ridgway.Elk Calibration Fall 2007.pdf

324.Ridgway.Elk Electrical Readings Fall 2007.pdf

NAME OF PREPARER:

Leslie McCoy

PHONE: (717) 787-2187

DATE PREPARED:

03/20/2008

Page 2 of 3