

SHEET 10 LTPP TRAFFIC DATA TRAFFIC VOLUME AND LOAD ESTIMATE UPDATE-NO SITE COUNT	STATE ASSIGNED ID [0901] STATE CODE [46] SHRP SECTION ID [3012]
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1. ANNUAL TRAFFIC ESTIMATES

YEAR	ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	ESTIMATED TOTAL VEHICLES AADT GPS LANE	ESTIMATED TOTAL TRUCKS AADT GPS LANE	ESTIMATED ESAL'S/YR GPS LANE (1000'S)
1992	<u>11470</u>	<u>1606</u>	<u>5162</u>	<u>723</u>	<u>93.2</u>

2. METHOD FOR ESTIMATING TOTAL VEHICLE AADT (TWO-WAY).  
☐ Growth factored last year's estimate.  
☒ Estimated based on volume counts at nearby locations.  
☐ Used computerized network analysis.  
☐ Other \_\_\_\_\_

3. METHOD FOR ESTIMATING TOTAL TRUCK AADT (TWO-WAY).  
☐ Used system average from counts taken this year.  
☒ Used count data from nearby sites.  
☐ Used count data from previous years at GPS site.  
☐ Used system averages from previous years counts.  
☐ Used computerized network analysis.  
☐ Other \_\_\_\_\_

4. METHOD FOR ESTIMATING TOTAL VEHICLES GPS LANE AADT.  
☐ System distribution factors.  
☒ Other Estimation 90/10

5. METHOD FOR ESTIMATING TOTAL TRUCKS, GPS LANE, AADT.  
☐ System distribution factors.  
☒ Other Estimation 90/10

6. METHOD FOR ESTIMATING ESAL/YEAR IN GPS LANE.  
☒ ESAL/Truck factor.  
☐ ESAL/vehicle class factor-  
       Number of classes.  
☐ Other \_\_\_\_\_

7. ESAL ESTIMATES - SOURCE OF DATA.  
☐ Prior years data collected at GPS site.  
☐ Current year system average.  
☒ Prior year system average.  
☐ Historical W-4 tables.  
☐ Other \_\_\_\_\_

8. WEIGHT SCALE TYPE.  
☒ WIM Scale.  
☐ Static scale used for enforcement.  
☐ Static scale not used for enforcement.  
☐ Other \_\_\_\_\_

NAME OF PREPARER Rocky W. Hook PHONE # (605) 773-3336  
 DATE PREPARED 7-11-94

<p align="center">SHEET 11</p> <p align="center">LTPP TRAFFIC DATA</p> <p align="center">VOLUME DATA TRANSMITTAL FORM</p>	*STATE ASSIGNED ID [3901]
	*STATE CODE [46]
	*SHRP SECTION ID [3012]

~~REFER~~  
~~TO~~  
~~FILE~~  
~~343~~

HIGHWAY RT. NO. (THIS COUNT) I-90 MILEPOST NO. (THIS COUNT) MM 43.42

LOCATION (THIS COUNT) East of Sturgis near Telford.

FILENAME V 46 3012 DISK/TAPE ID \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ BEGINNING TIME \_\_\_\_\_

ENDING DATE \_\_\_\_\_ ENDING TIME \_\_\_\_\_

TYPE OF COUNT: TWO-WAY \_\_\_\_\_ ONE-WAY X-EBL GPS LANE X

COUNT DURATION \_\_\_\_\_ [ ] HOURS [ ] DAYS [X] MONTHS

TYPE OF SENSOR \_\_\_\_\_ ROAD TUBES \_\_\_\_\_ PIEZO CABLE  
 \_\_\_\_\_ PIEZO FILM \_\_\_\_\_ LOOPS X OTHER \_\_\_\_\_

EQUIPMENT MANUFACTURER / MODEL # PAT DAW 100

AXLE CORRECTION FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

MONTHLY/SEASONAL FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

DAY-OF-WEEK FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_

OTHER FACTOR \_\_\_\_\_ STANDARD DEV. OF FACTOR \_\_\_\_\_  
 SPECIFY \_\_\_\_\_

DISTRIBUTION FACTOR FOR GPS LANE \_\_\_\_\_  
 (WHEN NOT AVAILABLE FROM ACTUAL COUNT DATA.)

SOURCE OF GPS LANE DISTRIBUTION FACTOR ESTIMATE \_\_\_\_\_

COMMENTS: Data available for the months - of September,  
October, November and December.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Rocky W. Hook</u>	PHONE # <u>605-773-3336</u>
DATE PREPARED <u>2-4-93</u>	















SHEET 12 LTPP TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID	[ 3901 ]
	STATE CODE	[ 46 ]
	SHRP SECTION ID	[ 3012 ]
	EFFECTIVE DATE	[ 07/31/92 ]

HIGHWAY RT. NO. I 90 MILEPOST NO. MRM 43.42

LOCATION East of Sturgis near Tilford

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER            # BINS           

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE            PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.           

SENSOR TYPE           

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

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Bending Plate

METHOD OF CALIBRATION: Intital calibration was done with a 5 axle semi having known weights and axle spacings.  
System will use auto calibration algorithms on 5 axle semi's during system operation.

FREQUENCY OF CALIBRATION: Yearly using 5 axle semi's from traffic stream with indepent weights by Highway Patrol Static Scale

COMMENTS: WIM has not worked all year.

NAME OF PREPARER Kenneth E. Marks PHONE # (605) 773-3336  
DATE PREPARED 2-25-10

<b>SHEET 12</b> <b>LTPP TRAFFIC DATA</b> <b>CLASSIFICATION DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [3901]
	*STATE CODE [46]
	*SHRP SECTION ID [3012]

HIGHWAY RT. NO. (THIS SESSION) I-90 MILEPOST NO. (THIS SESSION) mm43.42

LOCATION (THIS COUNT) \_\_\_\_\_

FILENAME C463012.J62 DISKTAPE ID SD

BEGINNING DATE 08/06/92 BEGINNING TIME 00:00

ENDING DATE 08/06/92 ENDING TIME 10:00

COUNT DURATION 10 ☒ HOURS [ ] DAYS [ ] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_ OTHER\* \_\_\_\_\_ #BINS \_\_\_\_\_

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

\* IF OTHER IS SELECTED PROVIDE NAME OF SHA CLASSIFICATION SCHEME \_\_\_\_\_

TYPE OF AVC EQUIPMENT: PORTABLE \_\_\_\_\_ PERMANENT X

EQUIPMENT MAKE/MODEL # Pat Daw 200

SENSOR TYPE Bending Plate

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION.

GENERAL FACTORS \_\_\_\_\_

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OR CLASS GROUPS) \_\_\_\_\_

COMMENTS TO TEXT \_\_\_\_\_

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>William J Boyd</u>	PHONE # <u>(612) 776-7522</u>
DATE PREPARED <u>10/06/92</u>	

<b>SHEET 12</b> <b>LTPP TRAFFIC DATA</b> <b>CLASSIFICATION DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID [ <u>3901</u> ]
	*STATE CODE [ <u>46</u> ]
	*SHRP SECTION ID [ <u>3012</u> ]

HIGHWAY RT. NO. (THIS SESSION) I-90 MILEPOST NO. (THIS SESSION) 43.42

LOCATION (THIS COUNT) \_\_\_\_\_

FILENAME 463012-J72 DISK/TAPE ID 5D

BEGINNING DATE 08/07/92 BEGINNING TIME 00:00

ENDING DATE 08/31/92 ENDING TIME 23:59

COUNT DURATION 24 [ ] HOURS [x] DAYS [ ] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA \_\_\_\_\_ OTHER\* \_\_\_\_\_ #BINS \_\_\_\_\_

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

\* IF OTHER IS SELECTED PROVIDE NAME OF SHA CLASSIFICATION SCHEME \_\_\_\_\_

TYPE OF AVC EQUIPMENT: PORTABLE \_\_\_\_\_ PERMANENT X

EQUIPMENT MAKE/MODEL # Pat DAW 200

SENSOR TYPE Bending Plate

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION.

GENERAL FACTORS \_\_\_\_\_

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OR CLASS GROUPS) \_\_\_\_\_

COMMENTS TO TEXT \_\_\_\_\_

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>William Boyd</u>	PHONE # <u>(602) 776-7522</u>
DATE PREPARED <u>10/06/92</u>	

SHEET 12 TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID [3901] STATE CODE [46] SHRP SECTION ID [3012] EFFECTIVE DATE 07/31/92
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HIGHWAY RT. NO. I90 MILEPOST NO. MRM 43.42

LOCATION East of Sturgis near Tilford

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER          #BINS         

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE          PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.         

SENSOR TYPE         

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

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Bending Plate

METHOD OF CALIBRATION: Initial calibration was done with 5 axle semi having known weights and axle spacings. System will use auto calibration algorithms on 5 axle semi's during system operation.

FREQUENCY OF CALIBRATION:         

COMMENTS: Data for the months of April, May, June, July and August was  
lost and/or not reliable due to equipment failure. The problem  
has been corrected and data for September on, will be forthcoming.

NAME OF PREPARER <u>Rocky W. Hook</u> DATE PREPARED <u>10-7-93</u>	PHONE # <u>605-773-3336</u>
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SHEET 12 TRAFFIC DATA COLLECTION SITE	STATE ASSIGNED ID [3901] STATE CODE [46] SHRP SECTION ID [3012] EFFECTIVE DATE 07/31/92
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HIGHWAY RT. NO. I90 MILEPOST NO. MRM 43.42

LOCATION East of Sturgis near Tilford

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER          #BINS         

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE          PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.         

SENSOR TYPE         

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

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Bending Plate

METHOD OF CALIBRATION: Initial calibration was done with 5 axle semi having known weights and axle spacings. System will use auto calibration algorithms on 5 axle semi's during system operation.

FREQUENCY OF CALIBRATION:         

COMMENTS: Data for the month of November.

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NAME OF PREPARER <u>Rocky W. Hook</u> DATE PREPARED <u>12-21-94</u>	PHONE # <u>605-773-3336</u>
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SHEET 12  
TRAFFIC DATA  
COLLECTION SITE

STATE ASSIGNED ID [3901]  
STATE CODE [46]  
SHRP SECTION ID [3012]  
EFFECTIVE DATE 07/31/92

HIGHWAY RT. NO. I90 MILEPOST NO. MRM 43.42

LOCATION East of Sturgis near Tilford

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER          #BINS         

TYPE OF CLASSIFICATION EQUIPMENT: PORTABLE          PERMANENT X

AVC EQUIPMENT MAKE/MODEL NO.         

SENSOR TYPE         

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

EQUIPMENT MAKE/MODEL NO. PAT DAW 100

SENSOR TYPE Bending Plate

METHOD OF CALIBRATION: Initial calibration was done with 5 axle semi  
having known weights and axle spacings. System will use auto calibration  
algorithms on 5 axle semi's during system operation.

FREQUENCY OF CALIBRATION:         

COMMENTS: Data for the month of December.

NAME OF PREPARER Rocky W. Hook PHONE # 605-773-3336  
DATE PREPARED 02-09-95



<b>SHEET 13</b> <b>LTPP TRAFFIC DATA</b> <b>VEHICLE WEIGHT DATA</b> <b>TRANSMITTAL FORM</b>	*STATE ASSIGNED ID <u>[3901]</u>
	*STATE CODE <u>[46]</u>
	*SHRP SECTION ID <u>[3012]</u>

HIGHWAY RT. NO. (THIS SESSION) I - 90

MILEPOST NO. OR LOCATION (THIS SESSION) MRM 43.42

FILENAME W463012.J62 DISK/TAPE ID 5D

BEGINNING DATE 08/06/92 BEGINNING TIME 00:00

ENDING DATE 08/06/92 ENDING TIME 10 : 00

COUNT DURATION 10 ☒ HOURS ☐ DAYS ☐ MONTHS

WEIGHT SCALE TYPE: PORT. WIM ☐ PERM. WIM ☒ OTHER ☐

EQUIPMENT MAKE/MODEL# Pat DAW 200

SENSOR TYPE Bending Plate

NAME OF SHA CLASSIFICATION SCHEME: \_\_\_\_\_

METHOD OF CALIBRATION AND FREQUENCY: \_\_\_\_\_

COMMENTS \_\_\_\_\_

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 \_\_\_\_\_  
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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>William Boyd</u>	PHONE # <u>(612) 776-7522</u>
DATE PREPARED <u>10/06/92</u>	



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SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID [3901]
	*STATE CODE [46]
	*SHRP SECTION ID [3012]

HIGHWAY RT. NO. (THIS SESSION) I-90

MILEPOST NO. OR LOCATION (THIS SESSION) MM 43.42

FILENAME W463012.J72 DISK/TAPE ID SD

BEGINNING DATE 08/1<sup>07</sup>/92 BEGINNING TIME 00:00

ENDING DATE 08/31/92 ENDING TIME 23:59

COUNT DURATION 24 [ ] HOURS [☒] DAYS [ ] MONTHS

WEIGHT SCALE TYPE: PORT. WIM [ ] PERM. WIM [☒] OTHER [ ]

EQUIPMENT MAKE/MODEL# PAT DAW 200

SENSOR TYPE Bending Plate

08/06/92  
00:00  
to  
08/06/92  
10:00

make  
sheet  
↑  
13 for

COMMENTS \_\_\_\_\_

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Evelyn M. Putzier</u>	PHONE # <u>605-773-3335</u>
DATE PREPARED <u>9/14/92</u>	

<p align="center">SHEET 13</p> <p align="center">LTPP TRAFFIC DATA</p> <p align="center">VEHICLE WEIGHT DATA TRANSMITTAL FORM</p>	<p>*STATE ASSIGNED ID [3901]</p> <p>*STATE CODE [46]</p> <p>*SHRP SECTION ID [3012]</p>
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HIGHWAY RT. NO. (THIS SESSION) I-90

MILEPOST NO. OR LOCATION (THIS SESSION) MRM 43.42

FILENAME LJ 463012 DISK/TAPE ID \_\_\_\_\_

BEGINNING DATE \_\_\_\_\_ BEGINNING TIME \_\_\_\_\_

ENDING DATE \_\_\_\_\_ ENDING TIME \_\_\_\_\_

COUNT DURATION \_\_\_\_\_ [ ] HOURS [ ] DAYS [X] MONTHS

WEIGHT SCALE TYPE: PORT. WIM \_\_\_\_\_ PERM. WIM X OTHER \_\_\_\_\_

EQUIPMENT MAKE/MODEL# PAT DAW 100

SENSOR TYPE Bending Plate

COMMENTS Data available for the months of September,  
October, November and December. 1992

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Rocky W. Hook</u>	PHONE # <u>605-773-3336</u>
DATE PREPARED <u>2-4-93</u>	

1992 DATA.

**North Central Region of FHWA-LTPP  
Traffic Data Collection Equipment Installation And Change Log**

State Code	SHRP Id	Location	Install Date	Brand Name	Model	Serial No. Control Unit	GPS Sensor Type	Software Brand/Version	Loops	Equipment Change	Date of Change
46	3009										
46	3010										
46	3012	E of Sturgis, near Tilford	09/19/91	PAT	DAW200	"N/A"	Bend plate				
46	3012	E of Sturgis, near Tilford		PAT	DAW100	"N/A"	Bend plate				07/31/92
46	3013										
46	3052										
46	3053										
46	5020										
46	5025										
46	5040										
46	6600										
46	7049										
46	9106										
46	9187										
46	9197										
46	SPS6	E of Groton (mp. Approx. 307)		IRD	DD 200		Bend plate				07/22/92