

file 800.12.7.8.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM**

*STATE ASSIGNED ID ☐
*STATE CODE ☐[30]
*SHRP SECTION ID ☐[0100]

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.M1E W300100.M1E

BEGINNING DATE: NOV 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: NOV 30, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON NOVEMBER 5, 2004

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217
DATE PREPARED December 16, 2004

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM***STATE ASSIGNED ID *STATE CODE *SHRP SECTION ID HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112FILENAME C300100.I1E W300100.J1EBEGINNING DATE: AUG 1, 2004 BEGINNING TIME: 00:00ENDING DATE: AUG 31, 2004 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XXEQUIPMENT MAKE/MODEL #: ECM / HESTIASENSOR TYPE: LOOPS & PIEZOSADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION: GENERAL FACTORS: CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS) COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON
July 15, 04

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. HaynesPHONE # (406) 444-7217DATE PREPARED SEPTEMBER 16, 2004

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
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*STATE ASSIGNED ID ☐

*STATE CODE ☐ [30]

*SHRP SECTION ID ☐ [0100]

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.I1E W300100.I1E

BEGINNING DATE: JULY 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: JULY 31, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON July 15, 04

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes

PHONE # (406) 444-7217

DATE PREPARED August 5, 2004

file 800.12.7.9.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM**

*STATE ASSIGNED ID

*STATE CODE

*SHRP SECTION ID

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.H1E W300100.H1E

BEGINNING DATE: JUNE 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: JUNE 30, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes

PHONE # (406) 444-7217

DATE PREPARED JUNE 29, 2004

800.12.7.9.12

**SHEET 12
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*SHRP SECTION ID ☐ [0100]

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.F1E W300100.G1E

BEGINNING DATE: MAY 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: MAY 31, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 ☐ HOURS ☐ DAYS ☒ MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: ☐ PERMANENT: X X

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217

DATE PREPARED JUNE 9, 2004

200.12.7.9.12

SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM

*STATE ASSIGNED ID []

*STATE CODE [30]

*SHRP SECTION ID [0100]

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.F1E W300100.F1E

BEGINNING DATE: APRIL 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: APRIL 30, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes

PHONE # (406) 444-7217

DATE PREPARED MAY 27, 2004

800.12.7.9.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM**

*STATE ASSIGNED ID []

*STATE CODE [30]

*SHRP SECTION ID [0100]

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C300100.E1E W300100.E1E

BEGINNING DATE: MAR 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: MAR 31, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217

DATE PREPARED MARCH 5, 2004

800.12.7.9.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM**

*STATE ASSIGNED ID

*STATE CODE

*SHRP SECTION ID

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME W300100.D1E

BEGINNING DATE: FEB 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: FEB 29, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

TYPE OF AVC EQUIPMENT: PORTABLE: PERMANENT: XX

EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: SITE IS WORKING WELL. CALIBRATION FACTORS IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes

PHONE # (406) 444-7217

DATE PREPARED MARCH 15, 2004

800.12.7.9.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM**

*STATE ASSIGNED ID

*STATE CODE

*SHRP SECTION ID

HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2

LOCATION: (THIS COUNT) I-15 2.7 MILES S. OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME W300100.C1E

BEGINNING DATE JAN 1, 2004 BEGINNING TIME: 00:00

ENDING DATE: JAN 31, 2004 ENDING TIME: 23:00

COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X 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 SHRP would convert its classification scheme to the FHWA 13 Class System.

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EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS:

CLASS SPECIFIC FACTOR: (PROVIDE BY CLASS OR CLASS GROUPS)

COMMENTS TO TEXT: NB DRIVING LANE IS DOWN CPU PROBLEM. CALIBRATION FACTORS
IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217

DATE PREPARED February 20, 2004

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">*STATE ASSIGNED ID</td> <td style="width: 20%; text-align: right;">[300100]</td> </tr> <tr> <td>*STATE CODE</td> <td style="text-align: right;">[3 0]</td> </tr> <tr> <td>*SHRP SECTION ID</td> <td style="text-align: right;">[0 1 0 0]</td> </tr> </table>	*STATE ASSIGNED ID	[300100]	*STATE CODE	[3 0]	*SHRP SECTION ID	[0 1 0 0]
*STATE ASSIGNED ID	[300100]						
*STATE CODE	[3 0]						
*SHRP SECTION ID	[0 1 0 0]						

I-15 NB MP 259.2 GREAT FALLS

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [6 / 7 / 2004]

2. * TYPE OF EQUIPMENT CALIBRATED N WIM CLASSIFIER ✓ BOTH *3/22/16*

3. * REASON FOR CALIBRATION

<u> X </u> REGULARLY SCHEDULED SITE VISIT <u> </u> EQUIPMENT REPLACEMENT <u> </u> DATA TRIGGERED SYSTEM REVISION <u> </u> OTHER (SPECIFY) _____	<u> </u> RESEARCH <u> </u> TRAINING <u> </u> NEW EQUIPMENT INSTALLATION
---	--

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> </u> CHANNELIZED FLAT PIEZO	<u> </u> INDUCTANCE LOOPS	<u> </u> CAPACITANCE PADS
<u> X </u> OTHER (SPECIFY) Ceramic Piezo _____		

5. EQUIPMENT MANUFACTURER ECM _____

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:

<u> </u> TRAFFIC STREAM	<u> </u> STATIC SCALE (Y/N)	<u> X </u> TEST TRUCKS
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12-8-09 1 NUMBER OF TRUCKS COMPARED

1 NUMBER OF TEST TRUCKS USED

	TRUCK	TYPE	PASSES PER TRUCK 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)

MEAN DIFFERENCE BETWEEN ---			
DYNAMIC AND STATIC GVW	<u> 2.8% </u>	STANDARD DEVIATION	<u> 5% </u>
DYNAMIC AND STATIC SINGLE AXLES	<u> 14.8% </u>	STANDARD DEVIATION	<u> 7.7% </u>
DYNAMIC AND STATIC DOUBLE AXLES	<u> .7% </u>	STANDARD DEVIATION	<u> 5.2% </u>

8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED

9. DEFINE THE SPEED RANGES USED (MPH) 66 66 65 65 64

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 1.00

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

REC'D MAR 31 2005

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:

*** FHWA CLASS 9 ___ 30% FHWA CLASS ___ ___ ___ ___

*** FHWA CLASS 8 ___ 50% FHWA CLASS ___ ___ ___ ___

FHWA CLASS ___ ___ ___ ___

FHWA CLASS ___ ___ ___ ___

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

PERSON LEADING CALIBRATION EFFORT:

CONTACT INFORMATION: DAN BISOM (406) 444-6122

rev. March 31, 2005

ENTERED APR 01 2005
SK