

file 800.12.7.8.12

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

\*STATE ASSIGNED ID

\*STATE CODE

\*SHRP SECTION ID  0900

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

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

FILENAME C30A900.M1E W30A900.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 0900HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2LOCATION: (THIS COUNT) I-15 2.7 MILES SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112FILENAME C30A900.H1E W30A900.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     

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July 15, 04

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

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

file 12.7.8.12

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

\*STATE ASSIGNED ID ☐

\*STATE CODE **[30]**

\*SHRP SECTION ID **[A900] 0900**

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

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

FILENAME C30A900.H1E W30A900.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.

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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: 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

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

\*STATE ASSIGNED ID

\*STATE CODE 30

\*SHRP SECTION ID ~~A900~~ 0900

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

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

FILENAME C30A900.H1E W30A900.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.

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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: 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 **[30]**

\*SHRP SECTION ID ~~A900~~ 0900

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

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

FILENAME C30A900.H1E W30A900.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.

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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  
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 SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C30A900.G1E W30A900.G1E

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

ENDING DATE: MAY 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 JUNE 9, 2004

600.12.7.9.12

**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 SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112

FILENAME C30A900.F1E W30A900.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     

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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 \*SHRP SECTION ID HIGHWAY RT.: (THIS SESSION) I-15 MILEPOST: (THIS SESSION) 259.2LOCATION: (THIS COUNT) I-15 2.7 MILES SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112FILENAME C30A900.E1E W30A900.E1EBEGINNING DATE: MAR 1, 2004 BEGINNING TIME: 00:00ENDING DATE: MAR 31, 2004 ENDING TIME: 23:00COUNT DURATION: 1 [ ] HOURS [ ] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA X OTHER      # BINS     

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217DATE 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) 259.2LOCATION: (THIS COUNT) I-15 2.7 MILES SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112FILENAME W30A900.D1EBEGINNING DATE: FEB 1, 2004 BEGINNING TIME: 00:00ENDING DATE: FEB 29, 2004 ENDING TIME: 23:00COUNT DURATION: 1 [ ] HOURS [ ] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA X OTHER      # BINS     

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217DATE PREPARED MARCH 15, 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 SOUTH OF CASCADE INTERCHANGE (ULM) WIM #112FILENAME W30A900.C1EBEGINNING DATE: JAN 1, 2004 BEGINNING TIME: 00:00ENDING DATE: JAN 31, 2004 ENDING TIME: 23:00COUNT DURATION: 1 [ ] HOURS [ ] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA X OTHER      # BINS     

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IMPLEMENTED ON 11/04/03.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217DATE PREPARED May 10, 2004

Scanned

**SHEET 16**  
**LTPP MONITORED TRAFFIC DATA**  
**SITE CALIBRATION SUMMARY**

\*STATE ASSIGNED ID [30A900]  
 \*STATE CODE [30]  
 \*SHRP SECTION ID 0X900

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 ☒ WIM ☐ CLASSIFIER ☒ BOTH *3/30/04*
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) Ceramic Piezo \_\_\_\_\_
5. EQUIPMENT MANUFACTURER ECM \_\_\_\_\_

WIM SYSTEM CALIBRATION SPECIFICS\*\*

- 6.\*\* CALIBRATION TECHNIQUE USED:  
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS  
*4m* ☐ *12-9-05* ☒ NUMBER OF TRUCKS COMPARED ☐ NUMBER OF TEST TRUCKS USED
- | TYPE PER FHWA 13 BIN SYSTEM          | PASSES PER TRUCK |            |
|--------------------------------------|------------------|------------|
|                                      | TRUCK            | SUSPENSION |
| SUSPENSION: 1 - AIR; 2 - LEAF SPRING | 1                | 9          |
| 3 - OTHER (DESCRIBE)                 | 2                |            |
|                                      | 3                |            |
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)  
 MEAN DIFFERENCE BETWEEN ---  
 DYNAMIC AND STATIC GVW ☐ 2.8% STANDARD DEVIATION ☐ 5%  
 DYNAMIC AND STATIC SINGLE AXLES ☐ 14.8% STANDARD DEVIATION ☐ 7.7%  
 DYNAMIC AND STATIC DOUBLE AXLES ☐ .7% STANDARD DEVIATION ☐ 5.2%
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	___	___	<u>30%</u>	FHWA CLASS	___	___	___	___
*** FHWA CLASS 8	___	___	<u>50%</u>	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