

file 800.12.7.8.12

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

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION [7066]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.M1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 15, 2004.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

DATE PREPARED December 20, 2004

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID <u>[8907]</u>
	*STATE CODE <u>[30]</u>
	*SHRP SECTION <u>[7066]</u>

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.J1E W307066.J1E

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

ENDING DATE: AUG 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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 15, 2004.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER <u>Danny O. Haynes</u>	PHONE # <u>(406) 444-7217</u>
DATE PREPARED <u>September 21, 2004</u>	

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
TRANSMITTAL FORM*****STATE ASSIGNED ID** [8907]***STATE CODE** [30]***SHRP SECTION** [7066]**HIGHWAY RT.:** (THIS SESSION) I-90 **MILEPOST:** (THIS SESSION) 366.0**LOCATION:** (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 **WIM #** 120**FILENAME:** C307066.I1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 15, 2004.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:**NAME OF PREPARER** Danny O. Haynes **PHONE #** (406) 444-7217**DATE PREPARED** September 21, 2004

file 12.7.8.12

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID <u>[8907]</u> *STATE CODE <u>[30]</u> *SHRP SECTION <u>[7066]</u>
--	---

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.I1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 15, 2004.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER <u>Danny O. Haynes</u>	PHONE # <u>(406) 444-7217</u>
DATE PREPARED <u>August 19, 2004</u>	

file 800.12.7.8.12

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION **[7066]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.H1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

DATE PREPARED July 20, 2004

800.12.7.8.12

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

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION [7066]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.G1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

DATE PREPARED June 25, 2004

200.12.7.8.12

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

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION [7066]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.F1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

DATE PREPARED June 18, 2004

800.12.7.8.12

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

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION [7066]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120FILENAME: C307066.E1E W307066.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

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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE
IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER Danny O. Haynes PHONE # (406) 444-7217DATE PREPARED March 5, 2004

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION **[7066]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.D1E W307066.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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

DATE PREPARED May 10, 2004

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION **[7066]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 366.0

LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120

FILENAME: C307066.C1E W307066.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.

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: THIS SITE IS WORKING WELL, THE CALIBRATION FACTORS WERE IMPLEMENTED ON JULY 30, 2003.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER Danny O. Haynes

PHONE # (406) 444-7217

DATE PREPARED May 10, 2004

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [307066]
 *STATE CODE [30]
 *SHRP SECTION ID [7066]

I-90 WB MP 365.91 COLUMBUS

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [6 /21/2004]
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
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 X OTHER (SPECIFY) Ceramic Piezo _____
5. EQUIPMENT MANUFACTURER ECM _____

WIM SYSTEM CALIBRATION SPECIFICS**

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

PASSES PER TRUCK

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

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN ---
 DYNAMIC AND STATIC GVW 2.2% STANDARD DEVIATION 1.8%
 DYNAMIC AND STATIC SINGLE AXLES 26.5% STANDARD DEVIATION 4.2%
 DYNAMIC AND STATIC DOUBLE AXLES 1% STANDARD DEVIATION 3.2%
8. 2 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 65 64 64 64 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	___	___	1%	FHWA CLASS	___	___	___	___	___
*** FHWA CLASS 8	___	___	20%	FHWA CLASS	___	___	___	___	___
				FHWA CLASS	___	___	___	___	___
				FHWA CLASS	___	___	___	___	___

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

PERSON LEADING CALIBRATION EFFORT:

CONTACT INFORMATION: DAN BISOM (406) 444-6122

rev. March 31, 2004

ENTERED APR 01 2005
87C