

file 800.12.7.8.12

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.M1E W307088.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 **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.J1E W307088.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

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SENSOR TYPE: LOOPS & PIEZOS

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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

July 12.7.04

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.I1E W307088.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

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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 August 19, 2004

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.I1E W307088.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

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EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

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

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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 800.12.7.8.12

**SHEET 12
LTPP TRAFFIC DATA
CLASSIFICATION DATA
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*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.H1E W307088.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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EQUIPMENT MAKE/MODEL #: ECM / HESTIA

SENSOR TYPE: LOOPS & PIEZOS

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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 ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.G1E W307088.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

800.12.7.8.12

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

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.F1E W307088.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 ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.E1E W307088.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: 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 March 5, 2004

800.12.7.8.12

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.D1E W307088.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

800.12.7.8.12

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

*STATE ASSIGNED ID **[8907]**

*STATE CODE **[30]**

*SHRP SECTION ID **[7088]**

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91

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

FILENAME: C307088.C1E W307088.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

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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	[307088]
	*STATE CODE	[30]
	*SHRP SECTION ID	[7088]

I-90 EB MP 365.91 COLUMBUS

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [6/22/2004]
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
 1 NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED

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

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN ---
DYNAMIC AND STATIC GVW -0.7% STANDARD DEVIATION 5.6%
DYNAMIC AND STATIC SINGLE AXLES 29.7% STANDARD DEVIATION 2.6%
DYNAMIC AND STATIC DOUBLE AXLES -4.5% STANDARD DEVIATION 3.7%
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 64 64 65 64 63 _____
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>1%</u>	FHWA CLASS	___	___	___	___
*** FHWA CLASS 8	___	<u>75%</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