

**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.n1c W307088.n1c

BEGINNING DATE: December 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: December 31, 2002 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 CALIBRATED FACTORS WERE IMPLEMENTED ON December 19, 2002.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER John R Dargan PHONE # (406) 444-7217

DATE PREPARED April 12, 2004

**SHEET 12
LTPP TRAFFIC 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.m1c W307088.m1c

BEGINNING DATE: November 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: November 31, 2002 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

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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.g1c W307088.g1c

BEGINNING DATE: October 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: October 31, 2002 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

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 CALIBRATED FACTORS WERE IMPLEMENTED ON JUNE 17, 2001.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER AMY C. WARK PHONE # (406) 444-7217

DATE PREPARED April 12, 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.g1c W307088.g1c

BEGINNING DATE: September 1, 2002 **BEGINNING TIME:** 00:00

ENDING DATE: September 30, 2002 **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)

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER AMY C. WARK **PHONE #** (406) 444-7217

DATE PREPARED April 12, 2004

**SHEET 12
LTPP TRAFFIC DATA
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TRANSMITTAL FORM**

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120FILENAME: C307088.g1c W307088.g1cBEGINNING DATE: JULY 1, 2002 BEGINNING TIME: 00:00ENDING DATE: JULY 31, 2002 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.

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NAME OF PREPARER AMY C. WARK PHONE # (406) 444-7217DATE PREPARED April 12, 2004

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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.g1c W307088.g1c

BEGINNING DATE: JUNE 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: JUNE 30, 2002 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:

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER AMY C. WARK

PHONE # (406) 444-7217

DATE PREPARED April 12, 2004

**SHEET 12
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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.g1c W307088.g1c

BEGINNING DATE: MAY 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: MAY 31, 2002 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)

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER AMY C. WARK PHONE # (406) 444-7217

DATE PREPARED April 12, 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.f1c W307088.f1c

BEGINNING DATE: APRIL 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: APRIL 31, 2002 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. IT WAS CALIBRATED DECEMBER 4, 2001.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER AMY C. WARK PHONE # (406) 444-7217

DATE PREPARED April 12, 2004

**SHEET 12
LTPP TRAFFIC DATA
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TRANSMITTAL FORM**

*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120FILENAME: C307088.e1c W307088.e1cBEGINNING DATE: MARCH 1, 2002 BEGINNING TIME: 00:00ENDING DATE: MARCH 31, 2002 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.

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER KAREN L. MARTIN PHONE # (406) 444-7217DATE PREPARED April 12, 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.d1c W307088.d1c

BEGINNING DATE: FEBRUARY 1, 2002 BEGINNING TIME: 00:00

ENDING DATE: FEBRUARY 28, 2002 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

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FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER KAREN L. MARTIN PHONE # (406) 444-7217

DATE PREPARED April 12, 2004

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*STATE ASSIGNED ID [8907]

*STATE CODE [30]

*SHRP SECTION ID [7088]

HIGHWAY RT.: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 365.91LOCATION: (THIS COUNT) 8.0 MILES EAST OF COLUMBUS INTERCHANGE ON I-90 WIM #120FILENAME: C307088.c1c W307088.c1cBEGINNING DATE: JANUARY 1, 2002 BEGINNING TIME: 00:00ENDING DATE: JANUARY 31, 2002 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 KAREN L. MARTIN PHONE # (406) 444-7217DATE PREPARED April 12, 2004

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [308907]
*STATE CODE [30]
*SHRP SECTION ID [7088]

I-90 EB MP 365.91 COLUMBUS

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [12 /20/2002]
2. * TYPE OF EQUIPMENT CALIBRATED ___ WIM ___ CLASSIFIER X BOTH
3. * REASON FOR CALIBRATION
X REGULARLY SCHEDULED SITE VISIT
___ EQUIPMENT REPLACEMENT
___ DATA TRIGGERED SYSTEM REVISION
___ OTHER (SPECIFY) _____
- ___ RESEARCH
___ TRAINING
___ NEW EQUIPMENT INSTALLATION
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

	TRUCK	TYPE	PASSES PER TRUCK 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 ___ -2.7% STANDARD DEVIATION ___ 2%
DYNAMIC AND STATIC SINGLE AXLES ___ 14.2% STANDARD DEVIATION ___ 3.2%
DYNAMIC AND STATIC DOUBLE AXLES ___ .7% STANDARD DEVIATION ___ 1.9%

8. 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED

9. DEFINE THE SPEED RANGES USED (MPH) 66 65 67 65 _____

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: _____

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	___	___	75%	FHWA CLASS	___	___	___	___
				FHWA CLASS	___	___	___	___
				FHWA CLASS	___	___	___	___

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

PERSON LEADING CALIBRATION EFFORT:

CONTACT INFORMATION: DAN BISOM (406) 444-6122 rev. December 31, 2002