

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.n1cBEGINNING DATE: December 1, 2002 BEGINNING TIME: 00:00ENDING DATE: December 30, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.Calibration factors were implemented December 18 2002

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER John R Dargan PHONE # (406) 444-7217DATE PREPARED April 12, 2004

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.m1cBEGINNING DATE: November 1, 2002 BEGINNING TIME: 00:00ENDING DATE: November 30, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.Calibration factors were implemented December 18 2002

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

NAME OF PREPARER John R Dargan PHONE # (406) 444-7217DATE PREPARED April 12, 2004

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8

LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLA

FILENAME: C307076.g1c

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

ENDING DATE: October 30, 2002 ENDING TIME: 23:00

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

VEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMOND

SENSOR TYPE: 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.

THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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 [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.g1cBEGINNING DATE: September 1, 2002 BEGINNING TIME: 00:00ENDING DATE: September 30, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST:(THIS SESSION) 544.8

LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLA

FILENAME: C307076.g1c

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

ENDING DATE: JULY 31, 2002 ENDING TIME: 23:00

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

VEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMOND

SENSOR TYPE: 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.

THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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 [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.g1cBEGINNING DATE: JUNE 1, 2002 BEGINNING TIME: 00:00ENDING DATE: JUNE 30, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.g1cBEGINNING DATE: MAY 1, 2002 BEGINNING TIME: 00:00ENDING DATE: MAY 31, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED:

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

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST:(THIS SESSION) 544.8

LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLA

FILENAME: C307076.f1c

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

ENDING DATE: APRIL 30, 2002 ENDING TIME: 23:00

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

VEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMOND

SENSOR TYPE: 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.

THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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 [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST:(THIS SESSION) 544.8

LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLA

FILENAME: C307076.e1c

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

ENDING DATE: MARCH 31, 2002 ENDING TIME: 23:00

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

VEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMOND

SENSOR TYPE: 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.

THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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

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

*STATE ASSIGNED ID [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST: (THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.d1cBEGINNING DATE: FEBRUARY 1, 2002 BEGINNING TIME: 00:00ENDING DATE: FEBRUARY 28, 2002 ENDING TIME: 23:00COUNT DURATION: 1 [] HOURS [] DAYS [XX] MONTHSVEHICLE CLASSIFICATION METHOD: FHWA 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 #: DIAMONDSENSOR TYPE: 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.THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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 [8908]

*STATE CODE [30]

*SHRP SECTION ID [7076]

HIGHWAY RT: (THIS SESSION) I-90 MILEPOST:(THIS SESSION) 544.8LOCATION: (THIS COUNT) ON I-90 .05 MILES NORTH OF WYOLAFILENAME: C307076.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 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 #: DIAMONDSENSOR TYPE: 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.THIS SITE WAS IMPLEMENTED ON FEBRUARY 13, 2002.

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 []
*STATE CODE [30]
*SHRP SECTION ID [7076]

I-90 EB MP 544.8 WYOLA

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [12 / 12 / 2002]
2. * TYPE OF EQUIPMENT CALIBRATED ☐ WIM ☒ CLASSIFIER ☐ BOTH
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

☐ NUMBER OF TRUCKS COMPARED ☐ NUMBER OF TEST TRUCKS USED

	PASSES PER TRUCK		
	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	_____	_____
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 % STANDARD DEVIATION %
DYNAMIC AND STATIC SINGLE AXLES % STANDARD DEVIATION %
DYNAMIC AND STATIC DOUBLE AXLES % STANDARD DEVIATION %
8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) _____

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 ___ 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 ___ %

FHWA CLASS

*** FHWA CLASS 8 ___ %

FHWA CLASS

FHWA CLASS

FHWA CLASS

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

PERSON LEADING CALIBRATION EFFORT:

CONTACT INFORMATION: DAN BISOM (406) 444-6122

rev. December 31, 2002