

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
W260900.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
C264015.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
W264015.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
C269029.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
W269029.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
C260200.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
W260200.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
C260100.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
W260100.C1J ✓	01/01/09	00:00	01/31/09	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 02-03-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
W260900.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
C264015.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
W264015.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
C269029.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
W269029.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
C260200.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
W260200.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
C260100.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
W260100.D1J ✓	02/01/09	00:00	02/28/09	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 03-02-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
W260900.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
C264015.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
W264015.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
C269029.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
W269029.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
C260200.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
W260200.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
C260100.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
W260100.E1J ✓	03/01/09	00:00	03/31/09	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 04-02-2009

DATE REC. 3-8-09
JOB # 174552257
FILE # _____

BA

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
W260900.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
C264015.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
W264015.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
C269029.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
W269029.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
C260200.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
W260200.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
C260100.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
W260100.F1J ✓	04/01/09	00:00	04/30/09	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) .322-1716

DATE PREPARED 05-04-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
W260900.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
C264015.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
W264015.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
C269029.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓ one hr missing on May 12/09
W269029.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓ hr. (02:00) to (03:00)
C260200.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
W260200.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
C260100.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓ one hour missing (11:00-12:00)
W260100.G1J	05/01/09	00:00	05/31/09	23:59	FHWA ✓
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 06-03-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
W260900.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
C264015.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
W264015.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
C269029.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
W269029.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
C260200.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
W260200.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
C260100.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
W260100.H1J ✓	06/01/09	00:00	06/30/09	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 07-07-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
W260900.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
C264015.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
W264015.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
C269029.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
W269029.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
C260200.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
W260200.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
C260100.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
W260100.I1J	07/01/09	00:00	07/31/09	23:59	FHWA ✓
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 08-05-2009

SHEET 13
TRAFFIC DATA FILES
TRANSMITTAL FORM

STATE
STATE CODE

[MICHIGAN]
[26]

FILENAME	START DATE mm/dd/yy	START TIME hh:mm	END DATE mm/dd/yy	END TIME hh:mm	CLASS SCHEME.
C260900.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA ✓
W260900.J1J ✓	08/01/09	00:00	08/29/09	23:59	FHWA <i>used No Gap option</i>
C264015.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
W264015.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
C269029.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
W269029.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
C260200.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
W260200.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
C260100.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
W260100.J1J ✓	08/01/09	00:00	08/31/09	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716
DATE PREPARED 09-08-2009

ENTERED MAR 18 2009

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[131]
	*STATE CODE	[26]
	*SHRP SECTION ID	[0909]

SITE CALIBRATION INFORMATION

- * DATE OF CALIBRATION (MONTH/DAY/YEAR) 10/22/2009
- * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
- * REASON FOR CALIBRATION
☒ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY) _____
- * 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) _____
- EQUIPMENT MANUFACTURER IRI/PAT

WIM SYSTEM CALIBRATION SPECIFICS**

- ** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
4 NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED
21 PASSES PER TRUCK

TYPE PER FHWA 13 BIN SYSTEM	1	<u>9</u>	<u>1</u>
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2		
3 - OTHER (DESCRIBE)	3		
- SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN —
 DYNAMIC AND STATIC GVW -1.0 STANDARD DEVIATION 2.62
 DYNAMIC AND STATIC SINGLE AXLES +2.7 STANDARD DEVIATION 3.09
 DYNAMIC AND STATIC DOUBLE AXLES +0.1 STANDARD DEVIATION 4.15
- 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
- DEFINE THE SPEED RANGES USED (MPH) 55 60 65
- CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 9.15
- ** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
 IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: _____

CLASSIFIER TEST SPECIFICS***

- *** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
☐ VIDEO ☐ MANUAL ☐ PARALLEL CLASSIFIERS
- METHOD TO DETERMINE LENGTH OF COUNT ☐ TIME ☐ NUMBER OF TRUCKS
- 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: [Signature]
 CONTACT INFORMATION: 517 332 1116 rev. November 9, 1999

Entered
11/20/2010
NC

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[131]
	*STATE CODE	[26]
	*SHRP SECTION ID	[0900]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) 11/18/2009
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) _____
5. EQUIPMENT MANUFACTURER IRD/PAT

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED
21 PASSES PER TRUCK
TRUCK TYPE SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM 1 9 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 -1.1 STANDARD DEVIATION 1.07
DYNAMIC AND STATIC SINGLE AXLES -1.0 STANDARD DEVIATION 1.48
DYNAMIC AND STATIC DOUBLE AXLES -1.1 STANDARD DEVIATION 2.54
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55 60 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 85.0
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) N
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 ☐ 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: <u>James Kramer</u>	rev. November 9, 1999
CONTACT INFORMATION: <u>517 333 1716</u>	