

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.
C264015.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
W264015.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
C260900.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
W260900.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
C269029.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
W269029.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
C260200.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
W260200.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
C260100.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
W260100.C1M✓	01/01/12	00:00	01/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716
DATE PREPARED 02-06-2012

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.
C264015.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
W264015.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
C260900.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
W260900.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
C269029.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
W269029.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
C260200.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
W260200.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
C260100.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
W260100.D1M	02/01/12	00:00	02/29/12	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

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

DATE PREPARED 03-08-2012

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.
✓ C264015.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ W264015.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ C260900.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ W260900.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ C269029.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ W269029.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ C260200.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ W260200.E1M	03/01/12	23:00	03/31/12	23:59	FHWA
✓ C260100.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
✓ W260100.E1M	03/01/12	00:00	03/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 04-10-2012

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.
C264015.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
W264015.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
C260900.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
W260900.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
C269029.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
W269029.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
C260200.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
W260200.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
C260100.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
W260100.F1M ✓	04/01/12	00:00	04/30/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 05-08-2012

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.
C264015.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
W264015.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
C260900.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
W260900.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
C269029.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
W269029.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
C260200.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
W260200.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
C260100.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
W260100.G1M ✓	05/01/12	00:00	05/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 06-20-2012

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.
C264015.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
W264015.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
C260900.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
W260900.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
C269029.H1M ✓	06/01/12	00:00	06/29/12	23:59	FHWA
W269029.H1M ✓	06/01/12	00:00	06/29/12	23:59	FHWA
C260200.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
W260200.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
C260100.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
W260100.H1M ✓	06/01/12	00:00	06/30/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716
DATE PREPARED 07-12-2012

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.
C264015.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
W264015.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
C260900.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
W260900.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
C269029.I2M ✓	07/02/12	05:00	07/31/12	23:59	FHWA
W269029.I2M ✓	07/02/12	05:00	07/31/12	23:59	FHWA
C260200.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
W260200.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
C260100.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
W260100.I1M ✓	07/01/12	00:00	07/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 08-02-2012

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.
✓ C264015.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ W264015.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ C260900.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ W260900.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ C269029.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ W269029.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ C260200.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ W260200.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ C260100.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
✓ W260100.J1M	08/01/12	00:00	08/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 09-11-2012

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.
C264015.K1M ✓	09/01/12	00:00	09/28/12	23:59	FHWA
W264015.K1M ✓	09/01/12	00:00	09/28/12	23:59	FHWA
C260900.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
W260900.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
C269029.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
W269029.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
C260200.K1M ✓	09/01/12	00:00	09/25/12	23:59	FHWA
W260200.K1M ✓	09/01/12	00:00	09/25/12	23:59	FHWA
C260100.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
W260100.K1M ✓	09/01/12	00:00	09/30/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 10-04-2012

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.
C264015.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
W264015.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
C260900.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
W260900.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
C269029.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
W269029.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
C260100.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
W260100.L1M ✓	10/01/12	00:00	10/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716
DATE PREPARED 11-01-2012

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.
C264015.M1M ✓	11/01/12	00:00	11/29/12	23:59	FHWA
W264015.M1M ✓	11/01/12	00:00	11/29/12	23:59	FHWA
C260900.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
W260900.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
C269029.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
W269029.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
C260100.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
W260100.M1M ✓	11/01/12	00:00	11/30/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 12-20-2012

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.
C264015.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
W264015.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
C260900.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
W260900.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
C269029.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
W269029.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
C260100.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
W260100.N1M	12/01/12	00:00	12/31/12	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716
DATE PREPARED 01-03-2013

ENTERED FEB 17 2012

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[317]
	*STATE CODE	[26]
	*SHRP SECTION ID	[8100]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [01 / 09 / 2012]
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) DAW 190

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM - ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED 9 ☐ NUMBER OF TEST TRUCKS USED 1
☐ TYPE PER FHWA 13 BIN SYSTEM 1 ☐ TRUCK TYPE SUSPENSION 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 0.2 STANDARD DEVIATION 1.05
 DYNAMIC AND STATIC SINGLE AXLES 1.3 STANDARD DEVIATION 2.69
 DYNAMIC AND STATIC DOUBLE AXLES 0.1 STANDARD DEVIATION 2.47
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) 95.3
- 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>Tom Foltz</u>	rev. November 9, 1999
CONTACT INFORMATION: <u>517 322 1716</u>	

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[317]
	*STATE CODE	[26]
	*SHRP SECTION ID	[0100]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [10/24/2012]
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 PAT OAW 190

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
21 PASSES PER TRUCK

TRUCK	TYPE	SUSPENSION
1	9	1
2		
3		

TYPE PER FHWA 13 BIN SYSTEM
 SUSPENSION: 1 - AIR; 2 - LEAF SPRING
 3 - OTHER (DESCRIBE)
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
 MEAN DIFFERENCE BETWEEN --
 DYNAMIC AND STATIC GVW 1.3 STANDARD DEVIATION 2.6
 DYNAMIC AND STATIC SINGLE AXLES 1.1 STANDARD DEVIATION 2.0
 DYNAMIC AND STATIC DOUBLE AXLES 0.0 STANDARD DEVIATION 1.2
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) 103.8
- 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: James Kramer
 CONTACT INFORMATION: 517 323 1716

rev. November 9, 1999