

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.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ W264015.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ C260900.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ W260900.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ C269029.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ W269029.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ C260200.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ W260200.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ C260100.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
✓ W260100.C1L	01/01/11	00:00	01/31/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 02-02-2011

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.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ W264015.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ C260900.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ W260900.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ C269029.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ W269029.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ C260200.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ W260200.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ C260100.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
✓ W260100.D1L	02/01/11	00:00	02/28/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716  
DATE PREPARED 03-07-2011

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.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ W264015.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ C260900.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ W260900.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ C269029.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ W269029.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ C260200.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ W260200.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ C260100.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
✓ W260100.E1L	03/01/11	00:00	03/31/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 04-04-2011

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.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ W264015.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ C260900.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ W260900.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ C269029.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ W269029.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ C260200.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ W260200.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ C260100.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
✓ W260100.F1L	04/01/11	00:00	04/30/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 05-04-2011

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.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ W264015.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ C260900.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ W260900.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ C269029.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ W269029.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ C260200.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ W260200.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ C260100.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
✓ W260100.G1L	05/01/11	00:00	05/31/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 06-06-2011

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.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
W264015.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
C260900.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
W260900.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
C269029.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
W269029.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
C260200.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
W260200.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
C260100.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
W260100.H1L	06/01/11	00:00	06/30/11	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

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

DATE PREPARED 07-06-2011

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.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓W264015.I2L	07/02/11	23:00	07/31/11	23:59	FHWA
✓C260900.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓W260900.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓C269029.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓W269029.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓C260200.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓W260200.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓C260100.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
✓W260100.I2L	07/02/11	00:00	07/31/11	23:59	FHWA
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-----	-----	-----	-----	-----	FHWA

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

DATE PREPARED 08-09-2011

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.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
W264015.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
C260900.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
W260900.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
C269029.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
W269029.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
C260200.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
W260200.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
C260100.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
W260100.J2L ✓	08/02/11	00:00	08/31/11	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

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

DATE PREPARED 09-07-2011



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.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
W264015.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
C260900.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
W260900.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
C269029.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
W269029.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
C260200.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
W260200.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
C260100.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
W260100.K1L	09/01/11	00:00	09/30/11	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716  
DATE PREPARED 11-07-2011

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.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
W264015.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
C260900.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
W260900.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
C269029.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
W269029.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
C260200.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
W260200.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
C260100.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
W260100.L1L	10/01/11	00:00	10/31/11	23:59	FHWA
					FHWA
					FHWA
					FHWA
					FHWA

NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716  
DATE PREPARED 11-07-2011

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.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
W264015.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
C260900.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
W260900.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
C269029.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
W269029.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
C260200.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
W260200.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
C260100.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
W260100.M1L ✓	11/01/11	00:00	11/30/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 12-05-2011

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.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
W264015.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
C260900.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
W260900.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
C269029.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
W269029.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
C260200.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
W260200.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
C260100.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
W260100.N1L✓	12/01/11	00:00	12/31/11	23:59	FHWA
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NAME OF PREPARER JAMES KRAMER PHONE# (517) 322-1716

DATE PREPARED 01-03-2012

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 26
	SPS WIM ID: 260100
	DATE (mm/dd/yyyy) 5/10/2011

**SITE CALIBRATION INFORMATION**

1. DATE OF CALIBRATION {mm/dd/yy} 5/10/11
2. TYPE OF EQUIPMENT CALIBRATED: Both
3. REASON FOR CALIBRATION: LTPP Validation
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (Select all that apply):
- |                            |            |
|----------------------------|------------|
| a. <u>Inductance Loops</u> | c. <u></u> |
| b. <u>Quartz Piezo</u>     | d. <u></u> |
5. EQUIPMENT MANUFACTURER: IRD DAW

**WIM SYSTEM CALIBRATION SPECIFICS**

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared:
- Number of Test Trucks Used: 2
- Passes Per Truck: 21
- | Type              | Drive Suspension | Trailer Suspension |
|-------------------|------------------|--------------------|
| Truck 1: <u>9</u> | <u>air</u>       | <u>air</u>         |
| Truck 2: <u>9</u> | <u>air</u>       | <u>air</u>         |
| Truck 3: <u></u>  | <u></u>          | <u></u>            |

**7. SUMMARY CALIBRATION RESULTS (expressed as a %):**

Mean Difference Between -

Dynamic and Static GVW:	<u>-3.8%</u>	Standard Deviation:	<u>1.7%</u>
Dynamic and Static Single Axle:	<u>-5.8%</u>	Standard Deviation:	<u>2.4%</u>
Dynamic and Static Double Axles:	<u>-3.4%</u>	Standard Deviation:	<u>2.5%</u>

**8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED:** 3

**9. DEFINE SPEED RANGES IN MPH:**

		Low		High	Runs
a.	<u>Low</u>	<u>51.7</u>	to	<u>56.4</u>	<u>11</u>
b.	<u>Medium</u>	<u>56.5</u>	to	<u>61.1</u>	<u>16</u>
c.	<u>High</u>	<u>61.2</u>	to	<u>65.7</u>	<u>14</u>
d.	<u></u>	<u></u>	to	<u></u>	<u></u>
e.	<u></u>	<u></u>	to	<u></u>	<u></u>

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 26 SPS WIM ID: 260100 DATE (mm/dd/yyyy) 5/10/2011
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10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 959

11. IS AUTO- CALIBRATION USED AT THIS SITE? No

If yes , define auto-calibration value(s):

**CLASSIFIER TEST SPECIFICS**

12. METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:

Manual

13. METHOD TO DETERMINE LENGTH OF COUNT: Number of Trucks

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	<u>0.0</u>	FHWA Class	<u>        </u>	-	<u>        </u>
FHWA Class 8:	<u>0.0</u>	FHWA Class	<u>        </u>	-	<u>        </u>
		FHWA Class	<u>        </u>	-	<u>        </u>
		FHWA Class	<u>        </u>	-	<u>        </u>

Percent of "Unclassified" Vehicles: 2.0%

Validation Test Truck Run Set - Pre

**Person Leading Calibration Effort:** Dean J. Wolf  
**Contact Information:** Phone: 717-975-3550  
E-mail: dwolf@ara.com

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE:	26
	SPS WIM ID:	260100
	DATE (mm/dd/yyyy)	5/11/2011

**SITE CALIBRATION INFORMATION**

1. DATE OF CALIBRATION {mm/dd/yy} 5/11/11
2. TYPE OF EQUIPMENT CALIBRATED: Both
3. REASON FOR CALIBRATION: LTPP Validation
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (Select all that apply):
- a. Inductance Loops c.
- b. Quartz Piezo d.
5. EQUIPMENT MANUFACTURER: IRD DAW

**WIM SYSTEM CALIBRATION SPECIFICS**

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared:
- Number of Test Trucks Used: 2
- Passes Per Truck: 21

	Type	Drive Suspension	Trailer Suspension
Truck 1:	<u>9</u>	<u>air</u>	<u>air</u>
Truck 2:	<u>9</u>	<u>air</u>	<u>air</u>
Truck 3:	<u></u>	<u></u>	<u></u>

**7. SUMMARY CALIBRATION RESULTS (expressed as a %):**

Mean Difference Between -

Dynamic and Static GVW:	<u>-2.4%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Single Axle:	<u>-2.1%</u>	Standard Deviation:	<u>2.5%</u>
Dynamic and Static Double Axles:	<u>-2.6%</u>	Standard Deviation:	<u>3.0%</u>

**8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED:** 3

**9. DEFINE SPEED RANGES IN MPH:**

		Low		High	Runs
a.	<u>Low</u>	<u>55.4</u>	to	<u>58.8</u>	<u>12</u>
b.	<u>Medium</u>	<u>58.9</u>	to	<u>62.2</u>	<u>14</u>
c.	<u>High</u>	<u>62.3</u>	to	<u>65.5</u>	<u>15</u>
d.	<u></u>	<u></u>	to	<u></u>	<u></u>
e.	<u></u>	<u></u>	to	<u></u>	<u></u>

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE:	26
	SPS WIM ID:	260100
	DATE (mm/dd/yyyy)	5/11/2011

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 959

11. IS AUTO- CALIBRATION USED AT THIS SITE? No

If yes , define auto-calibration value(s):

**CLASSIFIER TEST SPECIFICS**

12. METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:

Manual

13. METHOD TO DETERMINE LENGTH OF COUNT: Number of Trucks

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	<u>0.0</u>	FHWA Class	<u>        </u>	-	<u>        </u>
FHWA Class 8:	<u>0.0</u>	FHWA Class	<u>        </u>	-	<u>        </u>
		FHWA Class	<u>        </u>	-	<u>        </u>
		FHWA Class	<u>        </u>	-	<u>        </u>

Percent of "Unclassified" Vehicles: 1.0%

Validation Test Truck Run Set - Post

Person Leading Calibration Effort: Dean J. Wolf

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