

Tra c Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE: 22 SPS WIM ID: 220100 DATE (mm/dd/yyyy) 11/21/2011
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**SITE CALIBRATION INFORMATION**

- DATE OF CALIBRATION {mm/dd/yy} 11/21/11
- TYPE OF EQUIPMENT CALIBRATED: Both
- REASON FOR CALIBRATION: LTPP Validation
- 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>
- EQUIPMENT MANUFACTURER: IRD iSINC

**WIM SYSTEM CALIBRATION SPECIFICS**

- CALIBRATION TECHNIQUE USED: Test Trucks

Number of Trucks Compared:	<u></u>
Number of Test Trucks Used:	<u>2</u>
Passes Per Truck:	<u>20</u>

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>steel spring</u>
Truck 3: <u></u>	<u></u>	<u></u>

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

Mean Difference Between -

Dynamic and Static GVW:	<u>-6.5%</u>	Standard Deviation:	<u>1.2%</u>
Dynamic and Static Single Axle:	<u>-5.4%</u>	Standard Deviation:	<u>2.3%</u>
Dynamic and Static Double Axles:	<u>-6.9%</u>	Standard Deviation:	<u>2.0%</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>51.0</u>	to	<u>56.7</u>	<u>11</u>
b.	<u>Medium</u>	<u>56.8</u>	to	<u>62.4</u>	<u>17</u>
c.	<u>High</u>	<u>62.5</u>	to	<u>68.0</u>	<u>12</u>
d.	<u></u>	<u></u>	to	<u></u>	<u></u>
e.	<u></u>	<u></u>	to	<u></u>	<u></u>

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10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3366 3693

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>5</u>	-	<u>-44.0</u>
FHWA Class 8:	<u>Unk</u>	FHWA Class	<u></u>	-	<u></u>
		FHWA Class	<u></u>	-	<u></u>
		FHWA Class	<u></u>	-	<u></u>

Percent of "Unclassified" Vehicles: 0.0%

Validation Test Truck Run Set - Pre

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

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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 iSINC

**WIM SYSTEM CALIBRATION SPECIFICS**

6. CALIBRATION TECHNIQUE USED: Test Trucks

Number of Trucks Compared:	<u></u>
Number of Test Trucks Used:	<u>2</u>
Passes Per Truck:	<u>21</u>

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>steel spring</u>
Truck 3: <u></u>	<u></u>	<u></u>

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

Mean Difference Between -			
Dynamic and Static GVW:	<u>-0.9%</u>	Standard Deviation:	<u>1.4%</u>
Dynamic and Static Single Axle:	<u>-0.3%</u>	Standard Deviation:	<u>3.6%</u>
Dynamic and Static Double Axles:	<u>-1.1%</u>	Standard Deviation:	<u>2.4%</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></u>	to <u></u>	<u>14</u>
b. <u>Medium</u>	-	<u></u>	to <u></u>	<u>12</u>
c. <u>High</u>	-	<u></u>	to <u></u>	<u>16</u>
d. <u></u>	-	<u></u>	to <u></u>	<u></u>
e. <u></u>	-	<u></u>	to <u></u>	<u></u>

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10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3630    3982

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>5</u>	-	<u>-24.0</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: 0.0%

Validation Test Truck Run Set - Post

Person Leading Calibration Effort: Dean J. Wolf  
Contact Information: Phone: 717-975-3550  
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