

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE: 29 SPS WIM ID: 29AA00 DATE (mm/dd/yyyy) 9/15/2021
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SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 9/15/21
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 iSINC

WIM SYSTEM CALIBRATION SPECIFICS

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared: 2
- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- | Type | Drive Suspension | Trailer Suspension |
|-------------------|------------------|--------------------|
| Truck 1: <u>9</u> | <u>1 - Air</u> | <u>1 - Air</u> |
| Truck 2: <u>9</u> | <u>1 - Air</u> | <u>1 - 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>-3.3%</u>	Standard Deviation:	<u>2.7%</u>
Dynamic and Static Single Axle:	<u>-2.1%</u>	Standard Deviation:	<u>2.5%</u>
Dynamic and Static Double Axles:	<u>-3.6%</u>	Standard Deviation:	<u>3.1%</u>

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

9. DEFINE SPEED RANGES IN MPH:

	Low		High	Runs
a. <u>Speed Point 2</u>	<u>59.0</u>	to	<u>62.7</u>	<u>13</u>
b. <u>Speed Point 3</u>	<u>62.8</u>	to	<u>66.4</u>	<u>15</u>
c. <u>Speed Point 4</u>	<u>66.5</u>	to	<u>70.0</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) 2613 2613

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>-1.0</u>	FHWA Class	<u>5</u>	-	<u>-6.0</u>
FHWA Class 8:	<u>0.0</u>	FHWA Class	<u>6</u>	-	<u>0.0</u>
		FHWA Class	<u> </u>	-	<u> </u>
		FHWA Class	<u> </u>	-	<u> </u>

Percent of "Unclassified" Vehicles: 7.0%

Test Truck Run Set: Pre

Person Leading Calibration Effort: Dean J. Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED ON 16/MAR/2021
C.O.

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- a. Inductance Loops c.
- b. Quartz Piezo d.
5. EQUIPMENT MANUFACTURER: IRD iSINC

WIM SYSTEM CALIBRATION SPECIFICS

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared: 2
- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- | Type | Drive Suspension | Trailer Suspension |
|-------------------|------------------|--------------------|
| Truck 1: <u>9</u> | <u>1 - Air</u> | <u>1 - Air</u> |
| Truck 2: <u>9</u> | <u>1 - Air</u> | <u>1 - 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>-0.9%</u>	Standard Deviation:	<u>2.8%</u>
Dynamic and Static Single Axle:	<u>0.5%</u>	Standard Deviation:	<u>2.8%</u>
Dynamic and Static Double Axles:	<u>-1.1%</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>Speed Point 2</u>	-	<u>59.0</u>	to	<u>62.7</u>	<u>16</u>
b.	<u>Speed Point 3</u>	-	<u>62.8</u>	to	<u>66.4</u>	<u>12</u>
c.	<u>Speed Point 4</u>	-	<u>66.5</u>	to	<u>70.0</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) 2740 2740

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>-8.0</u>
FHWA Class 8:	<u>0.0</u>	FHWA Class	<u>6</u>	-	<u>0.0</u>
		FHWA Class	<u> </u>	-	<u> </u>
		FHWA Class	<u> </u>	-	<u> </u>

Percent of "Unclassified" Vehicles: 8.0%

Test Truck Run Set: Post

Person Leading Calibration Effort: Dean J. Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

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