

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE: 29 SPS WIM ID: 29AA00 DATE (mm/dd/yyyy) 8/16/2022
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SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 8/16/22
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:
- 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>2.8%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Single Axle:	<u>3.4%</u>	Standard Deviation:	<u>3.9%</u>
Dynamic and Static Double Axles:	<u>2.7%</u>	Standard Deviation:	<u>2.6%</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>58.0</u>	to	<u>60.0</u>	<u>15</u>
b.	<u>Speed Point 3</u>	-	<u>60.1</u>	to	<u>65.0</u>	<u>11</u>
c.	<u>Speed Point 4</u>	-	<u>65.1</u>	to	<u>69.0</u>	<u>14</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>-14.0</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%

Test Truck Run Set: Pre

Person Leading Calibration Effort: Dean Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED BY CO: 08/OCT/2022

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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:
- Number of Test Trucks Used: 2
- Passes Per Truck: 22
- | | 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>1.4%</u>	Standard Deviation:	<u>1.5%</u>
Dynamic and Static Single Axle:	<u>1.6%</u>	Standard Deviation:	<u>3.3%</u>
Dynamic and Static Double Axles:	<u>1.5%</u>	Standard Deviation:	<u>2.3%</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>58.0</u>	to	<u>62.0</u>	<u>15</u>
b.	<u>Speed Point 3</u>	<u>62.1</u>	to	<u>66.1</u>	<u>13</u>
c.	<u>Speed Point 4</u>	<u>66.2</u>	to	<u>70.0</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) 2673 2673

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>-14.0</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%

Test Truck Run Set: Post

Person Leading Calibration Effort: Dean Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED BY CO: 08/OCT/2022