

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE: 40 SPS WIM ID: 40AA00 DATE (mm/dd/yyyy) 9/28/2021
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SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 9/28/21
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. Quartz Piezo c.
- b. Inductance Loops 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>4.2%</u>	Standard Deviation:	<u>1.8%</u>
Dynamic and Static Single Axle:	<u>2.3%</u>	Standard Deviation:	<u>2.8%</u>
Dynamic and Static Double Axles:	<u>4.8%</u>	Standard Deviation:	<u>2.9%</u>

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

9. DEFINE SPEED RANGES IN MPH:

		Low		High	Runs
a.	<u>Speed Point 1</u>	<u>42.0</u>	to	<u>46.3</u>	<u>14</u>
b.	<u>Speed Point 2</u>	<u>46.4</u>	to	<u>50.8</u>	<u>14</u>
c.	<u>Speed Point 3</u>	<u>50.9</u>	to	<u>55.0</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: Time

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	<u>0.0</u>	FHWA Class	<u>5</u>	-	<u>11.0</u>
FHWA Class 8:	<u>20.0</u>	FHWA Class	<u>6</u>	-	<u>-10.0</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 J. Wolf

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED ON 16/MAR/2021
C.O.

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WIM SYSTEM CALIBRATION SPECIFICS

6. CALIBRATION TECHNIQUE USED: Test Trucks
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- 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>-1.1%</u>	Standard Deviation:	<u>2.1%</u>
Dynamic and Static Single Axle:	<u>-1.9%</u>	Standard Deviation:	<u>2.3%</u>
Dynamic and Static Double Axles:	<u>-1.0%</u>	Standard Deviation:	<u>3.5%</u>

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

9. DEFINE SPEED RANGES IN MPH:

		Low		High	Runs
a.	<u>Speed Point 1</u>	<u>42.0</u>	to	<u>46.3</u>	<u>14</u>
b.	<u>Speed Point 2</u>	<u>46.4</u>	to	<u>50.8</u>	<u>14</u>
c.	<u>Speed Point 3</u>	<u>50.9</u>	to	<u>55.0</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) 2625 2625

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: Time

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	<u>-3.0</u>	FHWA Class	<u>5</u>	-	<u>29.0</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: 1.3%

Test Truck Run Set: Post

Person Leading Calibration Effort: Dean J. Wolf

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED ON 16/MAR/2021
C.O.