

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 04 SPS WIM ID: 04BA00 DATE (mm/dd/yyyy) 2/23/2022
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### SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 2/23/22
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: 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>4.6%</u>	Standard Deviation:	<u>2.3%</u>
Dynamic and Static Single Axle:	<u>2.1%</u>	Standard Deviation:	<u>4.3%</u>
Dynamic and Static Double Axles:	<u>5.0%</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 3</u>	-	<u>64.0</u>	to	<u>67.7</u>		<u>17</u>
b.	<u>Speed Point 4</u>	-	<u>67.8</u>	to	<u>71.4</u>		<u>13</u>
c.	<u>Speed Point 5</u>	-	<u>71.5</u>	to	<u>75.0</u>		<u>10</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) 2986 2986

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>        </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: 0.0%

Test Truck Run Set: Pre

Person Leading Calibration Effort: Dean J. Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: [dwolf@ara.com](mailto:dwolf@ara.com)

ENTERED BY CO: 08/OCT/2022

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- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- |          | Type     | Drive Suspension | Trailer Suspension |
|----------|----------|------------------|--------------------|
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| 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>-0.3%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Single Axle:	<u>2.2%</u>	Standard Deviation:	<u>3.6%</u>
Dynamic and Static Double Axles:	<u>-0.8%</u>	Standard Deviation:	<u>2.2%</u>

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

9. DEFINE SPEED RANGES IN MPH:

			Low		High		Runs
a.	<u>Speed Point 3</u>	-	<u>64.0</u>	to	<u>67.7</u>		<u>17</u>
b.	<u>Speed Point 4</u>	-	<u>67.8</u>	to	<u>71.4</u>		<u>13</u>
c.	<u>Speed Point 5</u>	-	<u>71.5</u>	to	<u>75.0</u>		<u>10</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) 2865 2865

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**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>        </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: 0.0%

Test Truck Run Set: Post

Person Leading Calibration Effort: Dean J. Wolf, ARA

Contact Information: Phone: 717-975-3550

E-mail: [dwolf@ara.com](mailto:dwolf@ara.com)

ENTERED BY CO: 08/OCT/2022