

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 55 SPS WIM ID: 550100 DATE (10/31/2022) 10/31/2022
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### SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 10/31/22
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. Bending Plates 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>-8.6%</u>	Standard Deviation:	<u>2.2%</u>
Dynamic and Static Single Axle:	<u>-9.6%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Double Axles:	<u>-8.4%</u>	Standard Deviation:	<u>2.8%</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>59.0</u>	to	<u>62.7</u>	<u>14</u>
b.	<u>Speed Point 4</u>	<u>62.8</u>	to	<u>66.4</u>	<u>15</u>
c.	<u>Speed Point 5</u>	<u>66.5</u>	to	<u>70.0</u>	<u>11</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) 3443 3666

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>0.0</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](mailto:dwolf@ara.com)

ENTERED BY CO: 03/MAR/2024

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4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (Select all that apply):
- a. Inductance Loops c.
- b. Bending Plates 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>0.3%</u>	Standard Deviation:	<u>1.2%</u>
Dynamic and Static Single Axle:	<u>0.4%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Double Axles:	<u>0.3%</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>Speed Point 3</u>	<u>57.0</u>	to	<u>61.3</u>	<u>13</u>
b.	<u>Speed Point 4</u>	<u>61.4</u>	to	<u>65.8</u>	<u>14</u>
c.	<u>Speed Point 5</u>	<u>65.9</u>	to	<u>70.0</u>	<u>13</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) 3726    3967

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>0.0</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: 1.0%

Test Truck Run Set: Post

Person Leading Calibration Effort:	<u>Dean Wolf, ARA</u>		
Contact Information:	Phone:	<u>717-975-3550</u>	
	E-mail:	<u><a href="mailto:dwolf@ara.com">dwolf@ara.com</a></u>	

ENTERED BY CO: 03/MAR/2024