

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 41 SPS WIM ID: 41AA00 DATE (mm/dd/yyyy) 1/28/2020
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**SITE CALIBRATION INFORMATION**

1. DATE OF CALIBRATION {mm/dd/yy} 1/28/20
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>air</u>       | <u>air</u>          |
| Truck 2: <u>9</u> | <u>air</u>       | <u>steel spring</u> |
| Truck 3: <u></u>  | <u></u>          | <u></u>             |

7. SUMMARY CALIBRATION RESULTS (expressed as a %):

Mean Difference Between -

Dynamic and Static GVW:	<u>10.8%</u>	Standard Deviation:	<u>2.3%</u>
Dynamic and Static Single Axle:	<u>8.6%</u>	Standard Deviation:	<u>2.2%</u>
Dynamic and Static Double Axles:	<u>11.3%</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>Low</u>	-	<u>47.0</u>	to	<u>51.3</u>	<u>14</u>
b.	<u>Medium</u>	-	<u>51.4</u>	to	<u>55.8</u>	<u>13</u>
c.	<u>High</u>	-	<u>55.9</u>	to	<u>60.0</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) 2900 2900

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>-13.0</u>
FHWA Class 8:	<u>Unk</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

Contact Information: Phone: 717-975-3550

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

**ENTERED BY CO:**  
**19/MAR/2020**

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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:
- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- | Type              | Drive Suspension | Trailer Suspension  |
|-------------------|------------------|---------------------|
| Truck 1: <u>9</u> | <u>air</u>       | <u>air</u>          |
| Truck 2: <u>9</u> | <u>air</u>       | <u>steel spring</u> |
| Truck 3: <u></u>  | <u></u>          | <u></u>             |

7. SUMMARY CALIBRATION RESULTS (expressed as a %):

Mean Difference Between -

Dynamic and Static GVW:	<u>-0.2%</u>	Standard Deviation:	<u>1.4%</u>
Dynamic and Static Single Axle:	<u>-1.0%</u>	Standard Deviation:	<u>1.9%</u>
Dynamic and Static Double Axles:	<u>0.1%</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>Low</u>	- <u>48.0</u>	to	<u>52.0</u>	<u>13</u>
b. <u>Medium</u>	- <u>52.1</u>	to	<u>56.1</u>	<u>13</u>
c. <u>High</u>	- <u>56.2</u>	to	<u>60.0</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) 2595 2595

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>-</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

Contact Information: Phone: 717-975-3550

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

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