

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 51 SPS WIM ID: 510100 DATE : 12/19/2023
--	---

**SITE CALIBRATION INFORMATION**

1. DATE OF CALIBRATION {mm/dd/yy} 12/19/23
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>-1.8%</u>	Standard Deviation:	<u>1.6%</u>
Dynamic and Static Single Axle:	<u>-2.0%</u>	Standard Deviation:	<u>2.8%</u>
Dynamic and Static Double Axles:	<u>-1.5%</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>58.0</u>	to	<u>62.3</u>	<u>15</u>
b.	<u>Speed Point 2</u>	<u>62.4</u>	to	<u>66.8</u>	<u>13</u>
c.	<u>Speed Point 3</u>	<u>66.9</u>	to	<u>71.0</u>	<u>12</u>
d.	<u></u>	<u></u>	to	<u></u>	<u></u>
e.	<u></u>	<u></u>	to	<u></u>	<u></u>

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE:	51
	SPS WIM ID:	510100
	DATE (mm/dd/yyyy)	12/19/2023

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3553    3553

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:	0.0	FHWA Class 5	-	0.0
FHWA Class 8:	0.0	FHWA Class 6	-	0.0
		FHWA Class	-	
		FHWA Class	-	

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: <a href="mailto:dwolf@ara.com">dwolf@ara.com</a>

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE: 51 SPS WIM ID: 510100 DATE : 12/20/2023
--	---

#### SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 12/20/23
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>0.2%</u>	Standard Deviation:	<u>1.3%</u>
Dynamic and Static Single Axle:	<u>0.8%</u>	Standard Deviation:	<u>3.0%</u>
Dynamic and Static Double Axles:	<u>0.4%</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 1</u>	<u>58.0</u>	to	<u>62.3</u>	<u>14</u>
b.	<u>Speed Point 2</u>	<u>62.4</u>	to	<u>66.8</u>	<u>15</u>
c.	<u>Speed Point 3</u>	<u>66.9</u>	to	<u>71.0</u>	<u>11</u>
d.	<u></u>	<u></u>	to	<u></u>	<u></u>
e.	<u></u>	<u></u>	to	<u></u>	<u></u>

<b>Traffic Sheet 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	STATE CODE:	51
	SPS WIM ID:	510100
	DATE (mm/dd/yyyy)	12/20/2023

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3690    3690

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:	0.0	FHWA Class 5	-	0.0
FHWA Class 8:	0.0	FHWA Class 6	-	0.0
		FHWA Class	-	
		FHWA Class	-	

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:	<a href="mailto:dwolf@ara.com">dwolf@ara.com</a>	