

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE:	53
	SPS WIM ID:	530200
	DATE (mm/dd/yyyy)	2/14/2017

SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 2/14/17
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 1060 Series

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>-11.6%</u>	Standard Deviation:	<u>10.0%</u>
Dynamic and Static Single Axle:	<u>-15.8%</u>	Standard Deviation:	<u>15.4%</u>
Dynamic and Static Double Axles:	<u>-10.3%</u>	Standard Deviation:	<u>14.1%</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>52.7</u>	<u>14</u>
b. <u>Medium</u>	-	<u>52.8</u>	to <u>57.4</u>	<u>15</u>
c. <u>High</u>	-	<u>57.5</u>	to <u>62.0</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) 6.539214 6.539214

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>10</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%

Validation Test Truck Run Set - Pre

Person Leading Calibration Effort:	<u>Dean J. Wolf (ARA)</u>		
Contact Information:	Phone:	<u>717-512-6638</u>	
	E-mail:	<u>dwolf@ara.com</u>	

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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>2.4%</u>	Standard Deviation:	<u>8.0%</u>
Dynamic and Static Single Axle:	<u>-0.7%</u>	Standard Deviation:	<u>11.1%</u>
Dynamic and Static Double Axles:	<u>3.0%</u>	Standard Deviation:	<u>8.4%</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></u>	to	<u></u>		<u>15</u>
b.	<u>Medium</u>	-	<u></u>	to	<u></u>		<u>11</u>
c.	<u>High</u>	-	<u></u>	to	<u></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)

6.600384 | 6.600384

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>10</u>	-	<u>0.0</u>
		FHWA Class	<u> </u>	-	<u> </u>
		FHWA Class	<u> </u>	-	<u> </u>

Percent of "Unclassified" Vehicles: 0.0%

ENTERED BY CO
2020/02/27

Validation Test Truck Run Set - Post

Person Leading Calibration Effort:

Dean J. Wolf (ARA)

Contact Information:

Phone: 717-512-6638

E-mail: dwolf@ara.com