

Sheet 12

LTPP Traffic Data

Classification Data Transmittal Form

State Assigned ID		State Code	SHRP Section ID	Highway Route No.	Milepost	Location		OHIO Station #	Name of Preparer		Date Prepared	Phone Number			
721		39	100/200	DEL 23	17.48	2 miles S. of SR 229		721	Lindsey Pflum		5/12/2008	614-752-4057			
Filename	Ext	Disk ID	Beginning Date	Ending Date	Count Duration	Vehicle Class Method	Name of Agency Class Scheme	No of Bins	Type of AVC Equipment	Equipment Manufacturer	Sensor Type	Adjustment Factors for Est. Average Annual Volumes by Classification	General Factors	Class Specific Factors (Provide by Class of Class Groups)	Comments
NONE	NONE	2009			days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
NONE	NONE	2009			days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
NONE	NONE	2009			days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none

Sheet 13

LTPP Traffic Data

Vehicle Weight Data Transmittal Form

State Assigned ID		State Code	SHRP Section ID	Highway Route No.	Milepost	Location		OHIO Station #		Name of Preparer	Date Prepared	Phone Number	
721		39	100/200	DEL 23	17.48	2 miles S. of SR 229		721		Lindsey Pflum	5/12/2008	614-752-4057	
Filename	Ext	Disk ID	Beginning Date	Ending Date	Count Duration	Weight Scale Type	Equipment Manufacturer	Sensor Type	Vehicle Class. Method	Name of Agency Class. Scheme	Number of Bins	Method of Calibration and Frequency	Comments
NONE	NONE	2009			days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
NONE	NONE	2009			days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
NONE	NONE	2009			days	perm WIM	Mettler-Toledo	loadcell	W-card	ODOT scheme "F"	13	ODOT test truck	none

390100  
390200  
390900

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Classification Data Transmittal Form

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number						
721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Plhum	7/27/2009	614-752-4057						
Filename	Ext	Diak ID	Beginning Date	Ending Date	Count Duration	Vehicle Class Type	Name of Agency Class Scheme	No of Bins	Type of AVC Equipment	Equipment Manufacturer	Sensor Type	Adjustment Factors for Est. Average Annual Volumes by Classification	General Factors	Class Specific Factors (Provide by Class of Class Groups)	Comments
C390200_F1J		2009	4/1/2009	4/30/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200_G1J		2009	5/1/2009	5/27/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200_H4J		2009	6/4/2009	6/29/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none

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LTPP Traffic Data

Vehicle Weight Data Transmittal Form

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number				
721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Plhum	7/27/2009	614-752-4057				
Filename	Ext	Diak ID	Beginning Date	Ending Date	Count Duration	Weight Scale	Equipment Manufacturer	Sensor Type	Vehicle Class. Method	Name of Agency Class Scheme	Number of Bins	Method of Calibration and Frequency	Comments
W390200_F1J		2009	4/1/2009	4/30/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200_G1J		2009	5/1/2009	5/31/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200_H1J		2009	6/1/2009	6/29/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	ODOT scheme "F"	13	ODOT test truck	none

Sheet 14

LTPP Traffic Data

Equipment Installation Log

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number
721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Plhum	7/27/2009	614-752-4057
Sensor/Platform	Type	Brand Name	Installation Date						
LTPP lane Sensor	New Deck SB driving lane	Mettler-Toledo	11/17/2008						
Software	WIM Planning Host 1.4	Mettler-Toledo	9/5/2008						
Complete Package	Computer Hardware Upgrade	Mettler-Toledo	9/5/2008						

Sheet 16

LTPP Traffic Data

Site Calibration Summary

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number
721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Plhum	7/27/2009	614-752-4057
<div><div><div>Site Calibration Information</div><div>1. Date of Calibration: 11/18/2008</div><div>2. Type of Equipment Calibrated: WIM</div><div>3. Reason for Calibration: New Computer/Software</div><div>4. Sensors Installed in LTPP Lane at this Site:</div><div>5. Equipment Manufacturer: Mettler-Toledo</div></div><div><div>WIM System Calibration Specifics</div><div>6. Calibration Technique Used: Test Trucks</div><div>Number of Trucks Used: 1</div><div>Passes per Truck: 3 each direction per lane</div><div>Truck Type: 7</div><div>Suspension: 2</div></div><div><div>Classifier Test Specifics</div><div>12. Method for collecting independent volume measurement by vehicle class:</div><div>13. Method to Determine Length of Count:</div><div>14. Difference in Volumes by Vehicles Classification:</div><div>Class 9:</div><div>Class 8:</div><div>Unclassified:</div></div><div><div>7. Summary Calibration Results (%)Mean Difference between:</div><div>Dynamic and Static GVW Lane 1:</div><div>Std. Deviation:</div><div>Dynamic and Static Single Axles Lane 1:</div><div>Std. Deviation:</div><div>Dynamic and Static Double Axles Lane1:</div><div>Std. Deviation:</div><div>Dynamic and Static GVW Lane 4:</div><div>Std. Deviation:</div><div>Dynamic and Static Single Axles Lane 4:</div><div>Std. Deviation:</div><div>Dynamic and Static Double Axles Lane 4:</div><div>Std. Deviation:</div></div><div><div>8. Number of speeds at which calibration was performed:</div><div>1</div><div>9. Define the speed Ranges:</div><div>55</div><div>10. Calibration Factor:</div><div>11. Is autocalibration used at this site?</div><div>No</div><div>If yes, list and define auto-calibration value</div></div></div>									

Sheet 10

LTPP Traffic Data

Traffic Volume and Load Estimate Update-No Site Count

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number												
0721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Plhum	7/27/2009	614-752-4057												
<div><div>1. Annual Traffic Estimates</div><table><tr><th>Year</th><th>Estimated Total Vehicles</th><th>Estimated Total Truck AADT (2-way)</th><th>Estimated Total Vehicles AADT LTPP Lane</th><th>Estimated Total Trucks AADT LTPP Lane</th><th>Estimated ESAL's/YR LTPP Lane (1000's)</th></tr><tr><td>2008</td><td>23800</td><td>4560</td><td>10710</td><td>2061</td><td>677</td></tr></table></div> <div><div>2. Method for Estimating Total Vehicle AADT (Two Way)</div><div>Averaged multiple counts taken this year at the LTPP site. (2)</div><div>3. Method for Estimating Total Truck AADT (Two Way)</div><div>Averaged multiple counts taken this year at the LTPP site. (2)</div><div>4. Method for Estimating Total Vehicles LTPP Lane AADT</div><div>Other: (3) Backcasting</div><div>5. Method for Estimating Total Trucks LTPP Lane AADT</div><div>Other: (3) Backcasting</div><div>6. Method for Estimating ESAL/YEAR in LTPP Lane</div><div>Other: (4) Backcasting</div><div>7. ESAL Estimates - Source of Data</div><div>Weight Data Collected at LTPP site prior years (2)</div><div>8. Weight Scale Type</div><div>WIM Scale (1)</div></div>										Year	Estimated Total Vehicles	Estimated Total Truck AADT (2-way)	Estimated Total Vehicles AADT LTPP Lane	Estimated Total Trucks AADT LTPP Lane	Estimated ESAL's/YR LTPP Lane (1000's)	2008	23800	4560	10710	2061	677
Year	Estimated Total Vehicles	Estimated Total Truck AADT (2-way)	Estimated Total Vehicles AADT LTPP Lane	Estimated Total Trucks AADT LTPP Lane	Estimated ESAL's/YR LTPP Lane (1000's)																
2008	23800	4560	10710	2061	677																

NEW  
Installation

Created  
8/21/09  
NW

Created  
8/21/09  
NW

<b>SHEET 16</b> <b>LTPP MONITORED TRAFFIC DATA</b> <b>SITE CALIBRATION SUMMARY</b>	* STATE ASSIGNED ID [ ] * STATE CODE <u>39</u> * SHRP SECTION ID <u>0100/0200/0900</u>
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SITE CALIBRATION INFORMATION

1. \*DATE OF CALIBRATION (MONTH/DAY/YEAR) 10/23/2009
2. \*TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
3. \*REASON FOR CALIBRATION  
☐ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH  
☐ EQUIPMENT REPLACEMENT ☐ TRAINING  
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION  
☒ OTHER (SPECIFY) Preventative Maintenance
4. \*SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):  
☐ BARE ROUND PIEZO CERAMIC ☐ BARE FLAT PIEZO ☐ BENDING PLATES  
☐ CHANNELIZED ROUND PIEZO ☒ LOAD CELLS ☐ QUARTZ PIEZO  
☐ CHANNELIZED FLAT PIEZO ☒ INDUCTANCE LOOPS ☐ CAPACITANCE PADS  
☐ OTHER (SPECIFY) \_\_\_\_\_
5. EQUIPMENT MANUFACTURER Mettler-Toledo

WIM SYSTEM CALIBRATION SPECIFICS\*\*

- 6.\*\* CALIBRATION TECHNIQUE USED:  
☐ TRAFFIC STREAM ☐ STATIC SCALE (Y / N) ☒ TEST TRUCKS  
☐ NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED 3  
3 PASSES PER TRUCK  

TRUCK	TYPE	SUSPENSION
1	<u>9</u>	<u>2</u>
2		
3		
- TYPE PER FHWA 13 BIN SYSTEM  
 SUSPENSION: 1 - AIR; 2 - LEAF SPRING  
 3 - OTHER (DESCRIBE)
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)  
 MEAN DIFFERENCE BETWEEN ---  
 DYNAMIC AND STATIC GVW \_\_\_\_\_ STANDARD DEVIATION \_\_\_\_\_  
 DYNAMIC AND STATIC SINGLE AXLES \_\_\_\_\_ STANDARD DEVIATION \_\_\_\_\_  
 DYNAMIC AND STATIC DOUBLE AXLES \_\_\_\_\_ STANDARD DEVIATION \_\_\_\_\_
8. 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) \_\_\_\_\_
- 11.\*\* IS AUTO-CALIBRATION USED AT THIS TIME? (Y / N) N  
 IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: \_\_\_\_\_

CLASSIFIER TEST SPECIFICS\*\*\*

- 12.\*\*\*METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:  
☐ VIDEO ☐ MANUAL ☐ PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT ☐ TIME ☐ NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:  
 \*\*\* FHWA CLASS 9 \_\_\_\_\_ FHWA CLASS \_\_\_\_\_  
 \*\*\* FHWA CLASS 8 \_\_\_\_\_ FHWA CLASS \_\_\_\_\_  
 FHWA CLASS \_\_\_\_\_  
 FHWA CLASS \_\_\_\_\_
- \*\*\* PERCENT "UNCLASSIFIED" VEHICLES: \_\_\_\_\_

PERSON LEADING CALIBRATION EFFORT: _____ CONTACT INFORMATION: <u>Lindsey Pflum 614-752-4057</u>	Nov. 9, 1999
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Entered (All 3 sites)  
 2/3/2010  
 NE

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Filename	Ext	Disk ID	Beginning Date	Ending Date	Count Duration	Vehicle Class Method	Name of Agency Class Scheme	No of Bins	Type of AVC Equipment	Equipment Manufacturer	Sensor Type	Adjustment Factors for Est. Average Annual Volumes by Classification	General Factors	Class Specific Factors (Provide by Class of Class Groups)	Comments
C390200. L1J	✓	2009	10/1/2009	10/31/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200. M1J	✓	2009	11/1/2009	11/30/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200. N1J	✓	2009	12/1/2009	12/31/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none

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Filename	Ext	Disk ID	Beginning Date	Ending Date	Count Duration	Weight Scale Type	Equipment Manufacturer	Sensor Type	Vehicle Class. Method	Name of Agency Class. Scheme	Number of Bins	Method of Calibration and Frequency	Comments
W390200. L1J	✓	2009	10/1/2009	10/31/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200. M1J	✓	2009	11/1/2009	11/30/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200. N1J	✓	2009	12/1/2009	12/31/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	ODOT scheme "F"	13	ODOT test truck	none

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Site Calibration Summary

State Assigned ID	State Code	SHRP Section ID	Highway Route No.	Milepost	Location	OHIO Station #	Name of Preparer	Date Prepared	Phone Number
721	39	100/200	DEL 23	17.48	2 miles S. of SR 229	721	Lindsey Pflum	1/30/2010	614-752-4057

Site Calibration Information

1. Date of Calibration: 10/23/2009

2. Type of Equipment Calibration: WIM

3. Reason for Calibration: Preventative Maintenance

4. Sensors Installed in LTPP Lane at thl Load Cells, Inductance Loop

5. Equipment Manufacturer: Mettler-Toledo

WIM System Calibration Specifics

6. Calibration Technique Used: Test Trucks

Number of Trucks Used: 1

Passes per Truck: 3 each direction

Truck Type: 9

Suspension: 2

7. Summary Calibration Results (%)Mean Difference between:

Dynamic and Static GVW Lane 1: Std. Deviation:

Dynamic and Static Single Axles Lane 1: Std. Deviation:

Dynamic and Static Double Axles Lane1: Std. Deviation:

Dynamic and Static GVW Lane 4: Std. Deviation:

Dynamic and Static Single Axles Lane 4: Std. Deviation:

Dynamic and Static Double Axles Lane 4: Std. Deviation:

8. Number of speeds at which calibration was performed: 1

9. Define the speed Ranges: 55

10. Calibration Factor:

11. Is autocalibration used at this site? No

If yes, list and define auto-calibration value

Classifier Test Specifics

12. Method for collecting independent volume measurement by vehicle class:

13. Method to Determine Length of Count:

14. Difference in Volumes by Vehicles Classification:

Class 9:

Class 8:

Unclassified: