

Sheet 12

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

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	1/30/2010	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	
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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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 Pflum	1/30/2010	614-752-4057					
Site Calibration Information					WIM System Calibration Specifics					Classifier Test Specifics				
1. Date of Calibration: 10/23/2009					6. Calibration Technique Used: Test Trucks					12. Method for collecting independent volume measurement by vehicle class:				
2. Type of Equipment Calibration: WIM					Number of Trucks Used: 1					13. Method to Determine Length of Count:				
3. Reason for Calibration: Preventative Maintenance					Passes per Truck: 3 each direction					14. Difference in Volumes by Vehicles Classification:				
4. Sensors Installed in LTPP Lane at th Load Cells, Inductance Loop					Truck Type: 9					Class 9:				
5. Equipment Manufacturer: Mettler-Toledo					Suspension: 2					Class 8:				
										Unclassified:				
					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									

390100
390200
390900

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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 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

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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						

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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: Load Cells, Inductance Loop</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: 13. Method to Determine Length of Count: 14. Difference in Volumes by Vehicles Classification: Class 9: Class 8: Unclassified:</div></div><div><div>7. Summary Calibration Results (%)Mean Difference between:</div><div>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:</div><div>8. Number of speeds at which calibration was performed: 1</div><div>9. Define the speed Ranges: 55</div><div>10. Calibration Factor: 11. Is autocalibration used at this site? No</div><div>If yes, list and define auto-calibration value</div></div></div>									

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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
1. Annual Traffic Estimates									
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				
2. Method for Estimating Total Vehicle AADT (Two Way) Averaged multiple counts taken this year at the LTPP site. (2)									
3. Method for Estimating Total Truck AADT (Two Way) Averaged multiple counts taken this year at the LTPP site. (2)									
4. Method for Estimating Total Vehicles LTPP Lane AADT Other: (3) Backcasting									
5. Method for Estimating Total Trucks LTPP Lane AADT Other: (3) Backcasting									
6. Method for Estimating ESAL/YEAR in LTPP Lane Other: (4) Backcasting									
7. ESAL Estimates - Source of Data Weight Data Collected at LTPP site prior years (2)									
8. Weight Scale Type WIM Scale (1)									

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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

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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 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

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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	10/30/2009	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
C390200. IKJ		2009	7/1/2009	7/31/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200. J1J		2009	8/1/2009	8/31/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none
C390200. K1J		2009	9/1/2009	9/30/2009	days	FHWA	ODOT scheme "F"	13	Permanent	Mettler-Toledo	Loadcell / piezo	none	none	none	none

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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	10/30/2009	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
W390200. I1J		2009	7/1/2009	7/31/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200. J1J		2009	8/1/2009	8/31/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	Scheme F	13	ODOT test truck	none
W390200. K1J		2009	9/30/2009	9/30/2009	days	perm WIM	Mettler-Toledo	loadcell	W-card	ODOT scheme "F"	13	ODOT test truck	none

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	* 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