

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID [_____]
	*STATE CODE [04]
	*SHRP SECTION ID [0100]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [5/3/2007]
2. * TYPE OF EQUIPMENT CALIBRATED ____ WIM ____ CLASSIFIER X BOTH
3. * REASON FOR CALIBRATION

____ REGULARLY SCHEDULED SITE VISIT	____ RESEARCH
____ EQUIPMENT REPLACEMENT	____ TRAINING
____ DATA TRIGGERED SYSTEM REVISION	____ NEW EQUIPMENT INSTALLATION
<u> X </u> OTHER (SPECIFY) <u> LTPP Validation </u>	
4. * SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):

____ BARE ROUND PIEZO CERAMIC	____ BARE FLAT PIEZO	<u> X </u> BENDING PLATES
____ CHANNELIZED ROUND PIEZO	____ LOAD CELLS	____ QUARTZ PIEZO
____ CHANNELIZED FLAT PIEZO	<u> X </u> INDUCTANCE LOOPS	____ CAPACITANCE PADS
____ OTHER (SPECIFY) _____		
5. EQUIPMENT MANUFACTURER IRD/ PAT Traffic

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:

____ TRAFFIC STREAM	____ STATIC SCALE (Y/N)	<u> X </u> TEST TRUCKS
____ NUMBER OF TRUCKS COMPARED	<u> 2 </u> NUMBER OF TEST TRUCKS USED	
	<u> 20 </u> PASSES PER TRUCK	

TYPE PER FHWA 13 BIN SYSTEM	TRUCK	TYPE	SUSPENSION
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	1	9	1
3 - OTHER (DESCRIBE)	2	9	1
	3		
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)

MEAN DIFFERENCE BETWEEN ---	
DYNAMIC AND STATIC GVW	<u> 0.3 </u> STANDARD DEVIATION <u> 29 5.9 </u>
DYNAMIC AND STATIC SINGLE AXLES	<u> -0.6 </u> STANDARD DEVIATION <u> 42 8.5 </u>
DYNAMIC AND STATIC DOUBLE AXLES	<u> 0.5 </u> STANDARD DEVIATION <u> 58 11.5 </u>
8. 3 ____ NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 45 55 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 4283
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (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	<u> X </u> MANUAL	____ PARALLEL CLASSIFIERS
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13. METHOD TO DETERMINE LENGTH OF COUNT ____ TIME X NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

*** FHWA CLASS 9	<u> 0.0 </u>	FHWA CLASS	____
*** FHWA CLASS 8	<u> 0.0 </u>	FHWA CLASS	____
		FHWA CLASS	____
		FHWA CLASS	____

*** PERCENT "UNCLASSIFIED" VEHICLES: 0.0

PERSON LEADING CALIBRATION EFFORT: <u> Dean J. Wolf, MACTEC </u>
CONTACT INFORMATION: <u> 301-210-5105 </u> rev. November 9, 1999

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SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [5/5/2007]
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) LTPP Validation
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 IRD/PAT Traffic

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED 2 NUMBER OF TEST TRUCKS USED 20
☐ PASSES PER TRUCK 20

TRUCK	TYPE	SUSPENSION
1	9	1
2	9	1
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 -26.1 STANDARD DEVIATION 2.5 14.8
 DYNAMIC AND STATIC SINGLE AXLES -22.4 STANDARD DEVIATION 4.2 17.2
 DYNAMIC AND STATIC DOUBLE AXLES -26.5 STANDARD DEVIATION 9.7 18.2
8. 3 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 45 55 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3700
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (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 0.0 FHWA CLASS _____
 *** FHWA CLASS 8 0.0 FHWA CLASS _____
 FHWA CLASS _____
 FHWA CLASS _____
 *** PERCENT "UNCLASSIFIED" VEHICLES: 0.0

PERSON LEADING CALIBRATION EFFORT: <u>Dean J. Wolf, MACTEC</u> CONTACT INFORMATION: <u>301-210-5105</u>	rev. November 9, 1999
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