

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [P07]
*STATE CODE [53]
*SHRP SECTION ID [1801(EB)]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [06 /07 /2005]
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) _____
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: INTERNATIONAL ROAD DYNAMIC

WIM SYSTEM CALIBRATION SPECIFICS**

6. ** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
- 12-9-06* ☒ NUMBER OF TRUCKS COMPARED ☐ 1 NUMBER OF TEST TRUCKS USED
- ☐ PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|---------|------------|
| 1 | Class 9 | Air |
| 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 | -12.37% | STANDARD DEVIATION | 9.49% |
| DYNAMIC AND STATIC SINGLE AXLES | -12.07% | STANDARD DEVIATION | 8.14% |
| DYNAMIC AND STATIC DOUBLE AXLES | -12.59% | STANDARD DEVIATION | 9.84% |
8. ☒ NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) ☒ 55 mph _____
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Sensor #1= .247, Sensor #2= .249
11. ** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) ☒ Yes
IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: Weekly, 4.5 tons

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:

rev. November 9, 1999

5002 9 2 JUL 2005

out of study - Dist. enter *gk*

ENTERED SEP 15 2005

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☐ OTHER (SPECIFY) _____

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: INTERNATIONAL ROAD DYNAMIC

WIM SYSTEM CALIBRATION SPECIFICS**

6. ** CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS

☐ 1 NUMBER OF TRUCKS COMPARED ☐ 1 NUMBER OF TEST TRUCKS USED

	PASSES PER TRUCK		
	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	Class 9	<input type="checkbox"/> Air
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2		
3 - OTHER (DESCRIBE)	3		

7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN ---
DYNAMIC AND STATIC GVW -13.62% STANDARD DEVIATION 9.86%
DYNAMIC AND STATIC SINGLE AXLES -12.03% STANDARD DEVIATION 11.06%
DYNAMIC AND STATIC DOUBLE AXLES -14.04% STANDARD DEVIATION 10.19%

8. ☐ 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED

9. DEFINE THE SPEED RANGES USED (MPH) ☐ 55 mph _____

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Sensor #1= .302, Sensor #2= .227

11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) ☐ Yes
IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: Weekly, 4.5 tons

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:	rev. November 9, 1999

REC'D JUL 26 2005