

SHEET 13 ATTACHMENT LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	□
	*STATE CODE	[09]
	*SHRP SECTION ID	[090960]

Filename	Start Date	Start Time	End Date	End Time	Class Scheme	
	Mm/dd/yyyy	Hh:mm	Mm/dd/yyyy	Hh:mm		
C090960.N3B ✓	12/03/2001	00:00	12/04/2001	12:59	A	
W090960.N3B ✓	12/03/2001	00:00	12/04/2001	12:59	A	
C090960.N4B ✓	12/04/2001	13:04	12/18/2001	11:27	A	
W090960.N4B ✓	12/04/2001	13:04	12/18/2001	11:27	A	
C090960.NIB ✓	12/19/2001	00:00	12/31/2001	23:55	A	
W090960.NIB ✓	12/19/2001	00:00	12/31/2001	23:55	A	
C090960.C1C ✓	01/01/2002	00:00	03/20/2002	12:40	A	
W090960.C1C ✓	01/01/2002	00:00	03/20/2002	12:40	A	
C090960.EJC ✓	03/20/2002	12:53	04/02/2002	08:59	A	
W090960.EJC ✓	03/20/2002	12:53	04/02/2002	08:59	A	
C090960.F2C ✓	04/02/2002	09:11	06/03/2002	15:26	A	
W090960.F2C ✓	04/02/2002	09:11	06/03/2002	15:26	A	
C090960.H5C ✓	06/05/2002	15:03	06/12/2002	11:09	A	
W090960.H5C ✓	06/05/2002	15:03	06/12/2002	11:09	A	
C090960.HDC ✓	06/14/2002	07:54	06/28/2002	08:22	A	
W090960.HDC ✓	06/14/2002	07:54	06/28/2002	08:22	A	
C090960.HRC ✓	06/28/2002	08:33	07/02/2002	14:59	A	
W090960.HRC ✓	06/28/2002	08:33	07/02/2002	14:59	A	
C090960.I2C ✓	07/02/2002	15:11	07/25/2002	15:22	A	
W090960.I2C ✓	07/02/2002	15:11	07/25/2002	15:22	A	
C090960.IOC ✓	07/25/2002	15:39	07/29/2002	09:41	A	
W090960.IOC ✓	07/25/2002	15:39	07/29/2002	09:41	A	
C090960.ISC ✓	07/29/2002	09:49	08/15/2002	15:28	A	
W090960.ISC ✓	07/29/2002	09:49	08/15/2002	15:28	A	
C090960.JEC ✓	08/15/2002	15:32	08/19/2002	10:21	A	
W090960.JEC ✓	08/15/2002	15:32	08/19/2002	10:21	A	
C090960.JIC ✓	08/19/2002	10:23	09/05/2002	15:55	A	
W090960.JIC ✓	08/19/2002	10:23	09/05/2002	15:55	A	
C090960.LEC ✓	10/15/2002	09:45	12/18/2002	13:41	A	
W090960.LEC ✓	10/15/2002	09:45	12/18/2002	13:41	A	
C090960.NHC ✓	12/18/2002	13:51	12/31/2002	23:58	A	
W090960.NHC ✓	12/18/2002	13:51	12/31/2002	23:58	A	
C090960.C1D ✓	01/01/2003	00:00	01/07/2003	11:29	A	
W090960.C1D ✓	01/01/2003	00:00	01/07/2003	11:29	A	
C090960.C7D ✓	01/07/2003	11:33	04/03/2003	09:34	A	
W090960.C7D ✓	01/07/2003	11:33	04/03/2003	09:34	A	
C090960.F3D ✓	04/03/2003	09:46	04/21/2003	09:24	A	
W090960.F3D ✓	04/03/2003	09:46	04/21/2003	09:24	A	

PERSON LEADING CALIBRATION EFFORT: <u>Anne-Marie McDonnell</u> CONTACT INFORMATION: <u>860-258-0308</u>	DATE PREPARED <u>10/19/00</u>
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ENTERED AUG 19 2002

<p align="center">SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY</p>	*STATE ASSIGNED ID	[]
	*STATE CODE	[09]
	*SHRP SECTION ID	[090960]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [06/03/2002.]
2. * TYPE OF EQUIPMENT CALIBRATED X WIM CLASSIFIER BOTH
3. * REASON FOR CALIBRATION
 REGULARLY SCHEDULED SITE VISIT X 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 X QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- Y STATIC SCALE (Y/N) 2 TEST TRUCKS
 2 NUMBER OF TRUCKS COMPARED 2 NUMBER OF TEST TRUCKS USED

	<u> 29, 27 </u> PASSES PER TRUCK		
	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1	<u> 9 </u>	<u> 1 </u>
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2	<u> 9 </u>	<u> 1 </u>
3 - OTHER (DESCRIBE)	3	<u> SHEET 16 </u>	<u> TRUCKS COMBINED </u>
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN ---
DYNAMIC AND STATIC GVW -2.56 STANDARD DEVIATION 2.63
DYNAMIC AND STATIC SINGLE AXLES 0.21 STANDARD DEVIATION 3.00
DYNAMIC AND STATIC DOUBLE AXLES -3.14 STANDARD DEVIATION 3.52
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55, 60, 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 4.2369, SENSOR 2 - 6.1713, SENSOR 3 - 4.1044, SENSOR 4 - 4.4165
- 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 X MANUAL PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT TIME X 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> Anne-Marie McDonnell </u>
CONTACT INFORMATION: <u> 860-258-0308 </u> rev. November 9, 1999

SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID [] *STATE CODE [09] *SHRP SECTION ID [090960]
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SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [06/03/2002]
2. * TYPE OF EQUIPMENT CALIBRATED X WIM CLASSIFIER BOTH
3. * REASON FOR CALIBRATION
 REGULARLY SCHEDULED SITE VISIT X 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 X QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

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

TRUCK	TYPE	SUSPENSION
1	<u> 9 </u>	<u> 1 </u>
2	<u> </u>	<u> </u>
3	<u> SHEET 16 </u>	<u> 1 OF 2 </u>

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 -0.38 STANDARD DEVIATION 2.16
 DYNAMIC AND STATIC SINGLE AXLES 3.69 STANDARD DEVIATION 1.98
 DYNAMIC AND STATIC DOUBLE AXLES -1.10 STANDARD DEVIATION 3.00
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55, 60, 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 4.2369, SENSOR 2 - 6.1713, SENSOR 3 - 4.1044, SENSOR 4 - 4.4165
- 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 X MANUAL PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT TIME X 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> Anne-Marie McDonnell </u> CONTACT INFORMATION: <u> 860-258-0308 </u>	rev. November 9, 1999
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SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[]
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SITE CALIBRATION INFORMATION

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3. * REASON FOR CALIBRATION
 REGULARLY SCHEDULED SITE VISIT X 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 X QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER KISTLER SENSOR, IRD ELECTRONICS

WIM SYSTEM CALIBRATION SPECIFICS**

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

	TRUCK	TYPE	SUSPENSION
TYPE PER FHWA 13 BIN SYSTEM	1		
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	2	<u> 9 </u>	<u> 1 </u>
3 - OTHER (DESCRIBE)	3	<u> SHEET 16 </u>	<u> 2 OF 2 </u>
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN --
DYNAMIC AND STATIC GVW -3.32 STANDARD DEVIATION 2.25
DYNAMIC AND STATIC SINGLE AXLES -0.88 STANDARD DEVIATION 1.97
DYNAMIC AND STATIC DOUBLE AXLES -3.88 STANDARD DEVIATION 3.42
8. 3 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55, 60, 65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) SENSOR 1 - 4.2369, SENSOR 2 - 6.1713, SENSOR 3 - 4.1044, SENSOR 4 - 4.4165
- 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 X MANUAL PARALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT TIME X 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> Anne-Marie McDonnell </u>
CONTACT INFORMATION: <u> 860-258-0308 </u> rev. November 9, 1999