

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[106 WB]
	*STATE CODE	[42]
	*SHRP SECTION ID	[3044]

HIGHWAY RT. NO. (THIS COUNT) I-78

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0340

FILENAME: C423044.C1K ✓ DISK ID _____

BEGINNING DATE 01/01/10 BEGINNING TIME 12:00 am

ENDING DATE 01/20/10 ENDING TIME 11:59 pm

COUNT DURATION 20 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL# iSINC - (IRD) installed on May 6th, 2009

SENSOR TYPE KISTLER PIEZO

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: ATR continuous counts used to develop seasonal adjustment factors which are applied to all 24 hour raw counts by month and by day of week.

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) NA

COMMENTS : No Spring 2009 Calibrations Occurred. Fall 2010 calibration scheduled.

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER <u>Todd Rottet</u>	PHONE <u>717-787-4574</u>
DATE PREPARED <u>06/09/2010</u>	revised: May 23, 2001

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MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0340

FILENAME: C423044.CMK ✓ DISK ID _____

BEGINNING DATE 01/23/10 BEGINNING TIME 12:00 am

ENDING DATE 03/31/10 ENDING TIME 11:59 pm

COUNT DURATION 68 [] HOURS [X] DAYS [] MONTHS

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CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) NA

COMMENTS: Fall Calibration completed the beginning of Oct 2010. Next submittal will include Sheet 16's.

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NAME OF PREPARER	<u>Todd Rottet</u>	PHONE	<u>717-787-4574</u>
DATE PREPARED	<u>10/08/2010</u>	revised:	<u>May 23, 2001</u>

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DATE PREPARED <u>03/22/2011</u>	revised: May 23, 2001

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[106 WB]
	*STATE CODE	[42]
	*SHRP SECTION ID	[3044]

HIGHWAY RT. NO. (THIS SESSION) I-99

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W423044.L1J CIR DISK ID _____

BEGINNING DATE 01/01/10 BEGINNING TIME 12:00 am

ENDING DATE 01/20/10 ENDING TIME 11:59 pm

COUNT DURATION 20 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# iSINC – (IRD) installed on November 7th, 2007

SENSOR TYPE KISTLER PIEZO

VEHICLE CLASSIFICATION METHOD:

7-card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23
 7-card 6 digit Truck Weight study _____ W-card X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

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METHOD OF CALIBRATION AND FREQUENCY: Test trucks, Spring and Fall

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DATE PREPARED	<u>03/22/2011</u>	revised May 23, 2001

ENTERED JUN 22 2011

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SHEET 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	*STATE ASSIGNED ID	[106 WB]
	*STATE CODE	[42]
	*SHRP SECTION ID	[3044]

SITE CALIBRATION INFORMATION

- * DATE OF CALIBRATION (MONTH/DAY/YEAR) [09/28/2010]
- * TYPE OF EQUIPMENT CALIBRATED WIM CLASSIFIER BOTH
- * REASON FOR CALIBRATION
 X REGULARLY SCHEDULED SITE VISIT RESEARCH
 EQUIPMENT REPLACEMENT TRAINING
 DATA TRIGGERED SYSTEM REVISION NEW EQUIPMENT INSTALLATION
 OTHER (SPECIFY)
- * 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 Kistler QUARTZ PIEZO
 CHANNELIZED FLAT PIEZO X INDUCTANCE LOOPS CAPACITANCE PADS
 OTHER (SPECIFY)
- EQUIPMENT MANUFACTURER IRD - iSINC

WIM SYSTEM CALIBRATION SPECIFICS**

- ** CALIBRATION TECHNIQUE USED:
 TRAFFIC STREAM -- STATIC SCALE (Y/N) X TEST TRUCKS
 NUMBER OF TRUCKS COMPARED 1 NUMBER OF TEST TRUCKS USED

TYPE PER FHWA 13 BIN SYSTEM	11 PASSES PER TRUCK	
	TRUCK	TYPE SUSPENSION
SUSPENSION: 1 - AIR; 2 - LEAF SPRING	1	9 1
3 - OTHER (DESCRIBE)	2	
	3	

- SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN --- See attached calibration form below.
DYNAMIC AND STATIC GVW -0.2 STANDARD DEVIATION 1.6
DYNAMIC AND STATIC SINGLE AXLES -1.9 STANDARD DEVIATION 3.7
DYNAMIC AND STATIC DOUBLE AXLES 1.4 STANDARD DEVIATION 2.7
- 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
- DEFINE THE SPEED RANGES USED (MPH) 45-64
- CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Not known
- ** 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 ___ 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: Bruce Myers – IRD / Joni Sharp - PennDOT

CONTACT INFORMATION: Todd Rottet 717-787-4574

rev. November 9, 1999

*** See below for full calibration information:



International Road Dynamics Inc.

FHWA VERIFICATION

Specifications

Confidence	95%	Speed range low	40	to	50
	(1.96)	Speed range medium	50	to	60
Gross vehicle weight	10%	Speed range high	60	to	70
Tandem group weight	15%	Temperature range low	80	to	85
Single axle weight	20%	Temperature range medium	85	to	90
Axle spacings	0.5	Temperature range high	90	to	100

Overall

Characteristic	Error	StdDev	Specification	Calculated	Pass/Fail
Gross vehicle weight	-0.2%	1.6%	10%	3.4%	pass
Tandem group weight	1.4%	2.7%	15%	6.7%	pass
Single axle weight	-1.9%	3.7%	20%	9.1%	pass
Axle spacings	0.0	0.1	0.5	0.3	pass

Speed range 40 to 50 (1 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-0.3%	#DIV/0!	10%	#DIV/0!
Tandem group weight	0.1%	3.6%	15%	7.6%
Single axle weight	4.8%	#DIV/0!	20%	8.0%
Axle spacings	-0.1	0.1	0.5	0.3

Speed range 50 to 60 (2 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	0.9%	1.5%	10%	4.3%
Tandem group weight	3.2%	2.7%	15%	8.8%
Single axle weight	-4.3%	7.4%	20%	20.6%
Axle spacings	0.0	0.2	0.5	0.4

Speed range 60 to 70 (7 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-0.6%	1.9%	10%	4.7%
Tandem group weight	1.1%	2.8%	15%	6.9%
Single axle weight	-2.6%	1.4%	20%	5.7%
Axle spacings	0.0	0.1	0.5	0.3