

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[106 EB]
	*STATE CODE	[42]
	*SHRP SECTION ID	[9027]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0340

FILENAME: C429027.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

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[106 EB]
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MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0340

FILENAME: C429027.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.

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>10/08/2010</u>	revised: <u>May 23, 2001</u>

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NAME OF PREPARER	<u>Todd Rottet</u>	PHONE	<u>717-787-4574</u>
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 EB]
	*STATE CODE	[42]
	*SHRP SECTION ID	[9027]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W429027.L1J C/K 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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NAME OF PREPARER	<u>Todd Rottet</u>	PHONE: <u>717-787-4574</u>
DATE PREPARED	<u>03/22/2011</u>	revised May 23, 2001

ENTERED JUN 22 2011

me

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [106 EB]
*STATE CODE [42]
*SHRP SECTION ID [9027]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [09/28/2010]
2. * TYPE OF EQUIPMENT CALIBRATED _ WIM _ CLASSIFIER _ X _ BOTH
3. * REASON FOR CALIBRATION
X 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 X Kistler QUARTZ PIEZO
_____ CHANNELIZED FLAT PIEZO X INDUCTANCE LOOPS _____ CAPACITANCE PADS
_____ OTHER (SPECIFY) Kistler Quartz Piezoelectric
5. EQUIPMENT MANUFACTURER IRD - iSINC

WIM SYSTEM CALIBRATION SPECIFICS**

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

	<u>11</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	_____
3 - OTHER (DESCRIBE)	3	_____
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN --- See attached calibration form below.
DYNAMIC AND STATIC GVW -2.7 STANDARD DEVIATION 0.7
DYNAMIC AND STATIC SINGLE AXLES -3.5 STANDARD DEVIATION 2.0
DYNAMIC AND STATIC DOUBLE AXLES -1.3 STANDARD DEVIATION 1.7
8. 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 49-65
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) Not known
- 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 ___ 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, 199

*** See below for full calibration information:

Clear

Static Test Vehicle Measurements

[illegible]

Dynamic Test Vehicle Measurements

ID	V#	Speed	Temp	GVW	F/A	T1	T2	1>2	2>3	3>4	4>5
1	48365	62	70	72.7	9.7	29.1	34.0	16.2	4.4	27.4	10.1
1	48756	61	70	72.1	10.0	29.0	33.1	16.2	4.4	27.3	10.1
1	49156	64	70	72.4	10.1	28.9	33.3	16.2	4.4	27.4	10.1
1	49546	64	70	72.6	10.4	28.9	33.3	16.2	4.3	27.4	10.1
1	49963	49	70	72.1	10.0	27.8	34.3	16.2	4.3	27.3	10.1
1	50471	58	70	72.2	10.3	27.9	33.9	16.2	4.4	27.3	10.1
1	50995	62	70	71.6	10.2	28.7	32.6	16.1	4.3	27.1	10.1
1	51416	64	70	72.8	10.1	28.7	34.1	16.2	4.3	27.3	10.1
1	51778	65	70	71.4	10.0	28.1	33.4	16.2	4.4	27.3	10.1
1	52195	65	70	72.9	10.3	28.9	33.7	16.2	4.4	27.4	10.1
1	52570	63	70	71.6	10.4	28.6	32.7	16.2	4.4	27.4	10.1

Date: 2010/09/28

Technician: Bruce Myers

Location: Hamburg Site # 106 EB Drive



International Road Dynamics Inc.

FHWA VERIFICATION

Specifications

Confidence	95%	Speed range low	45	to	55
	(1.96)	Speed range medium	55	to	65
Gross vehicle weight	10%	Speed range high	65	to	75
Tandem group weight	15%	Temperature range low	60	to	70
Single axle weight	20%	Temperature range medium	70	to	80
Axle spacings	0.5	Temperature range high	80	to	90

Overall

Characteristic	Error	StdDev	Specification	Calculated	Pass/Fail
Gross vehicle weight	-2.7%	0.7%	10%	4.0%	pass
Tandem group weight	-1.3%	1.7%	15%	4.7%	pass
Single axle weight	-3.5%	2.0%	20%	7.4%	pass
Axle spacings	0.0	0.1	0.5	0.2	pass

Speed range 45 to 55 (1 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-2.8%	#DIV/0!	10%	#DIV/0!
Tandem group weight	-1.5%	4.6%	15%	11.1%
Single axle weight	-4.8%	#DIV/0!	20%	11.7%
Axle spacings	-0.1	0.1	0.5	0.3

Speed range 55 to 65 (9 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-2.7%	0.8%	10%	4.4%
Tandem group weight	-1.3%	1.6%	15%	4.6%
Single axle weight	-3.6%	2.0%	20%	8.0%
Axle spacings	0.0	0.1	0.5	0.2

Temperature range 60 to 70 (11 runs)

Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-2.7%	0.7%	10%	4.2%
Tandem group weight	-1.3%	1.7%	15%	4.9%
Single axle weight	-3.5%	2.0%	20%	7.9%