

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0214

FILENAME: C421606.C1K ✓ DISK ID _____

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

ENDING DATE 01/25/10 ENDING TIME 11:59 pm

COUNT DURATION 25 [] 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 November 7th, 2007

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 Fall 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	[31 /]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0214

FILENAME: C421606.D0K ✓ DISK ID _____

BEGINNING DATE 02/10/10 BEGINNING TIME 12:00 am

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

COUNT DURATION 50 [] 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 November 7th, 2007

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 Fall 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 [317]
	*STATE CODE [42]
	*SHRP SECTION ID [1606]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0214

FILENAME: C421606.F1K ✓ DISK ID _____

BEGINNING DATE 04/01/10 BEGINNING TIME 12:00 am

ENDING DATE 06/30/10 ENDING TIME 11:59 pm

COUNT DURATION 91 [] 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 November 7th, 2007

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 Fall 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>09/21/2010</u>	revised: May 23, 2001

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0214

FILENAME: C421606.I1K ✓ DISK ID

BEGINNING DATE 07/01/10 BEGINNING TIME 12:00 am

ENDING DATE 09/30/10 ENDING TIME 11:59 pm

COUNT DURATION 92 [] 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 November 7th, 2007

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: 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>

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS COUNT) Segment 0214

FILENAME: C421606.L1K ✓ DISK ID _____

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

ENDING DATE 12/14/10 ENDING TIME 11:59 pm

COUNT DURATION 75 [] 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 November 7th, 2007

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: Fall Calibration completed Sept 23, 2010. See attached sheet 16 results.

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

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W421606.C1K DISK ID _____

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

ENDING DATE 01/25/10 ENDING TIME 11:59 pm

COUNT DURATION 25 [] 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 _____

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 CLASS SYSTEM.

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

COMMENTS: No Fall 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 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W421606.D0K DISK ID _____

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

ENDING DATE 01/25/10 ENDING TIME 11:59 pm

COUNT DURATION 50 [] 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 _____
 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 CLASS SYSTEM.

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

COMMENTS: No Fall 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 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W421606.F1K ✓ DISK ID

BEGINNING DATE 04/01/10 BEGINNING TIME 12:00 am

ENDING DATE 06/30/10 ENDING TIME 11:59 pm

COUNT DURATION 91 [] 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

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 CLASS SYSTEM.

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

COMMENTS: No Fall 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>09/21/2010</u>	revised May 23, 2001

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W421606.I1K ✓ DISK ID

BEGINNING DATE 07/01/10 BEGINNING TIME 2:00 am

ENDING DATE 09/30/10 ENDING TIME 11:59 pm

COUNT DURATION 92 [] 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 _____

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 CLASS SYSTEM.

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

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 May 23, 2001

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[317]
	*STATE CODE	[42]
	*SHRP SECTION ID	[1606]

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

MILEPOST NO. OR LOCATION (THIS SESSION) Segment 0214

FILENAME W421606.L1K ✓ DISK ID _____

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

ENDING DATE 12/14/10 ENDING TIME 11:59 pm

COUNT DURATION 75 [] 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 _____

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 CLASS SYSTEM.

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

COMMENTS: Fall Calibration completed Sept 23, 2010. See attached sheet 16 results.

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

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

ENTERED JUN 22 2011
NE

*STATE ASSIGNED ID [317]
*STATE CODE [42]
*SHRP SECTION ID [1606]

SITE CALIBRATION INFORMATION

1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [09/23/2010]
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>10</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 -1.8 STANDARD DEVIATION 1.6
DYNAMIC AND STATIC SINGLE AXLES 2.6 STANDARD DEVIATION 2.0
DYNAMIC AND STATIC DOUBLE AXLES -1.3 STANDARD DEVIATION 2.2
8. 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 62-66
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 ☒ 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

Clear

Static Test Vehicle Measurements

ID				GVW	F/A	T1	T2	1>2	2>3	3>4	4>5
1				74.2	10.5	29.2	33.7	16.1	4.4	27.4	10.2

b

Dynamic Test Vehicle Measurements

ID	V#	Speed	Temp	GVW	F/A	T1	T2	1>2	2>3	3>4	4>5
1	6008	65	80	72.3	10.8	28.2	33.3	16.3	4.4	27.1	10.1
1	6152	62	81	71.3	10.8	28.3	32.2	16.2	4.4	27.1	10.1
1	6252	64	81	72.5	11.0	28.0	33.6	16.3	4.4	27.2	10.2
1	6398	64	84	71.4	10.7	28.4	32.3	16.3	4.4	27.1	10.2
1	6513	64	88	72.3	11.2	28.6	32.5	16.3	4.4	27.1	10.2
1	6638	64	90	74.3	10.5	29.3	34.5	16.3	4.4	27.2	10.2
1	6796	66	90	73.1	10.6	28.7	33.7	16.3	4.4	27.2	10.1
1	6920	64	91	73.7	10.8	29.1	33.8	16.4	4.4	27.3	10.2
1	7048	64	93	75.0	10.7	29.7	34.7	16.4	4.4	27.2	10.2
1	7165	66	93	73.1	10.6	28.9	33.5	16.3	4.4	27.3	10.2

Date: 2010/09/23

Technician: Bruce Myers

Location: East Freedom Site # 317



International Road Dynamics Inc.

FHWA VERIFICATION

Specifications					
Confidence	95%	Speed range low	60	to	65
	(1.96)	Speed range medium	65	to	70
Gross vehicle weight	10%	Speed range high	70	to	75
Tandem group weight	15%	Temperature range low	80	to	80
Single axle weight	20%	Temperature range medium	80	to	90
Axle spacings	0.5	Temperature range high	90	to	100

Overall					
Characteristic	Error	StdDev	Specification	Calculated	Pass/Fail
Gross vehicle weight	-1.8%	1.6%	10%	4.9%	pass
Tandem group weight	-1.3%	2.2%	15%	5.6%	pass
Single axle weight	2.6%	2.0%	20%	6.4%	pass
Axle spacings	0.0	0.2	0.5	0.3	pass

Speed range 60 to 65 (7 runs)				
Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-1.5%	1.8%	10%	5.5%
Tandem group weight	-1.1%	2.5%	15%	6.2%
Single axle weight	3.1%	2.1%	20%	6.5%
Axle spacings	0.0	0.2	0.5	0.4

Speed range 65 to 70 (2 runs)				
Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-1.5%	0.0%	10%	1.5%
Tandem group weight	-0.8%	0.7%	15%	2.3%
Single axle weight	1.0%	0.0%	20%	1.0%
Axle spacings	0.0	0.1	0.5	0.3

Temperature range 80 to 80 (1 runs)				
Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-2.6%	#DIV/0!	10%	#DIV/0!
Tandem group weight	-2.3%	1.6%	15%	5.6%
Single axle weight	2.9%	#DIV/0!	20%	#DIV/0!

Temperature range 80 to 90 (6 runs)				
Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-2.3%	1.5%	10%	5.7%
Tandem group weight	-2.0%	2.1%	15%	6.4%
Single axle weight	2.9%	2.5%	20%	8.4%

Temperature range 90 to 100 (3 runs)				
Characteristic	Error	StdDev	Specification	Calculated
Gross vehicle weight	-0.4%	1.3%	10%	3.3%
Tandem group weight	0.5%	1.5%	15%	3.9%
Single axle weight	1.9%	1.0%	20%	4.0%