

ENTERED
25/SEP/12 C.O.S

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [3055]
*STATE CODE [19]
*SHRP SECTION ID [3055]

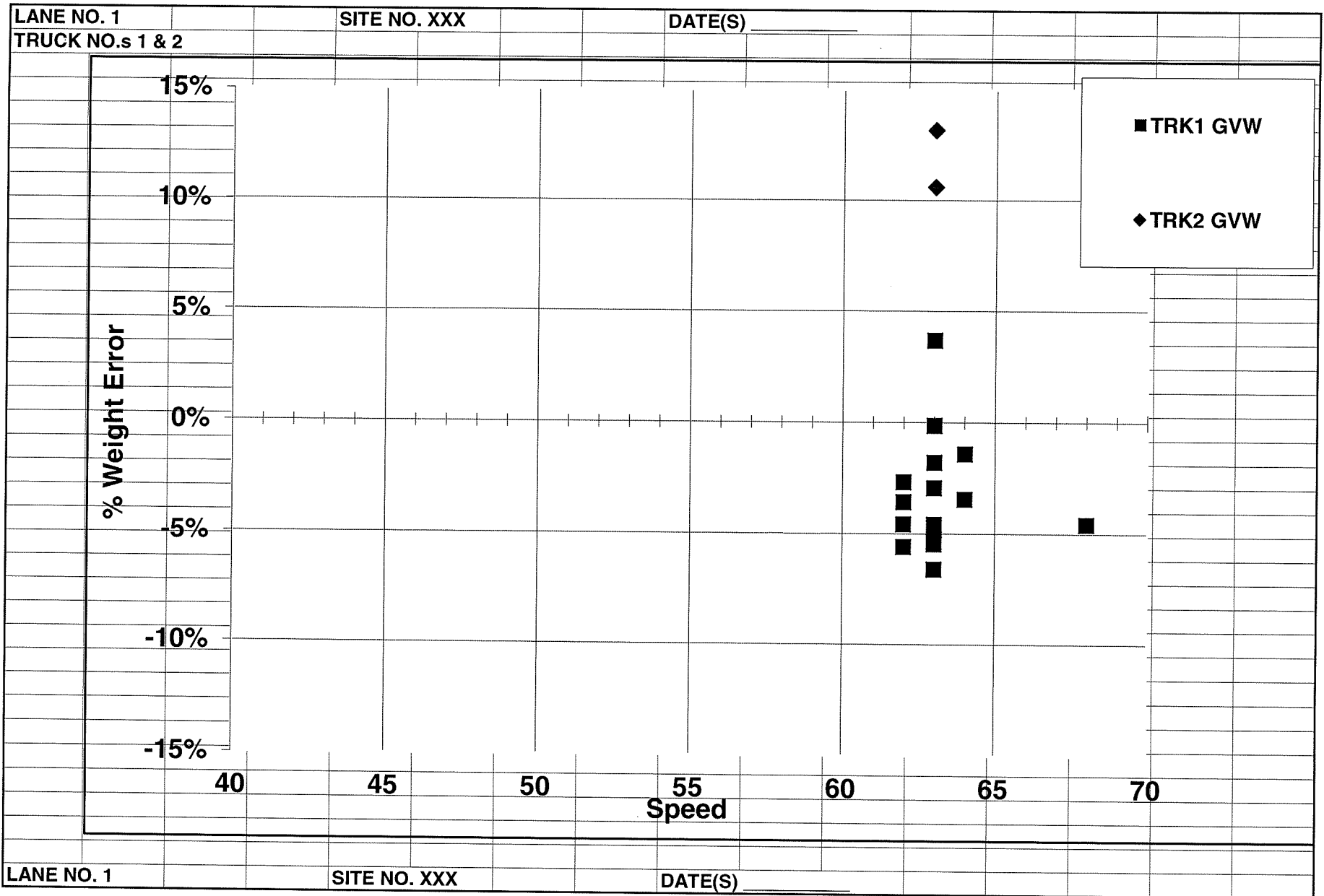
SITE CALIBRATION INFORMATION

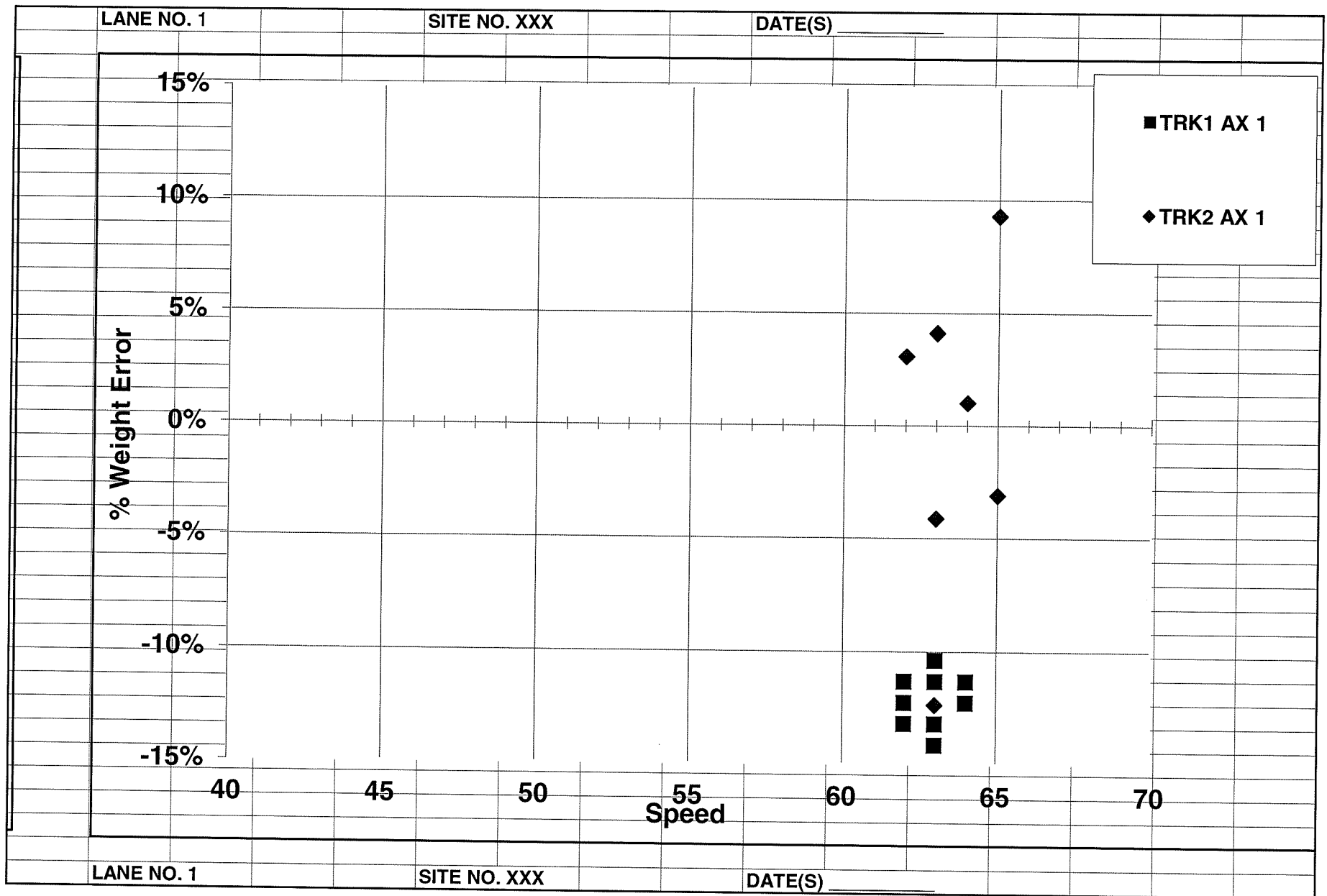
1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [03 / 16 / 2011]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
3. * REASON FOR CALIBRATION
☒ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY) _____
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 Measurement Specialties Inc

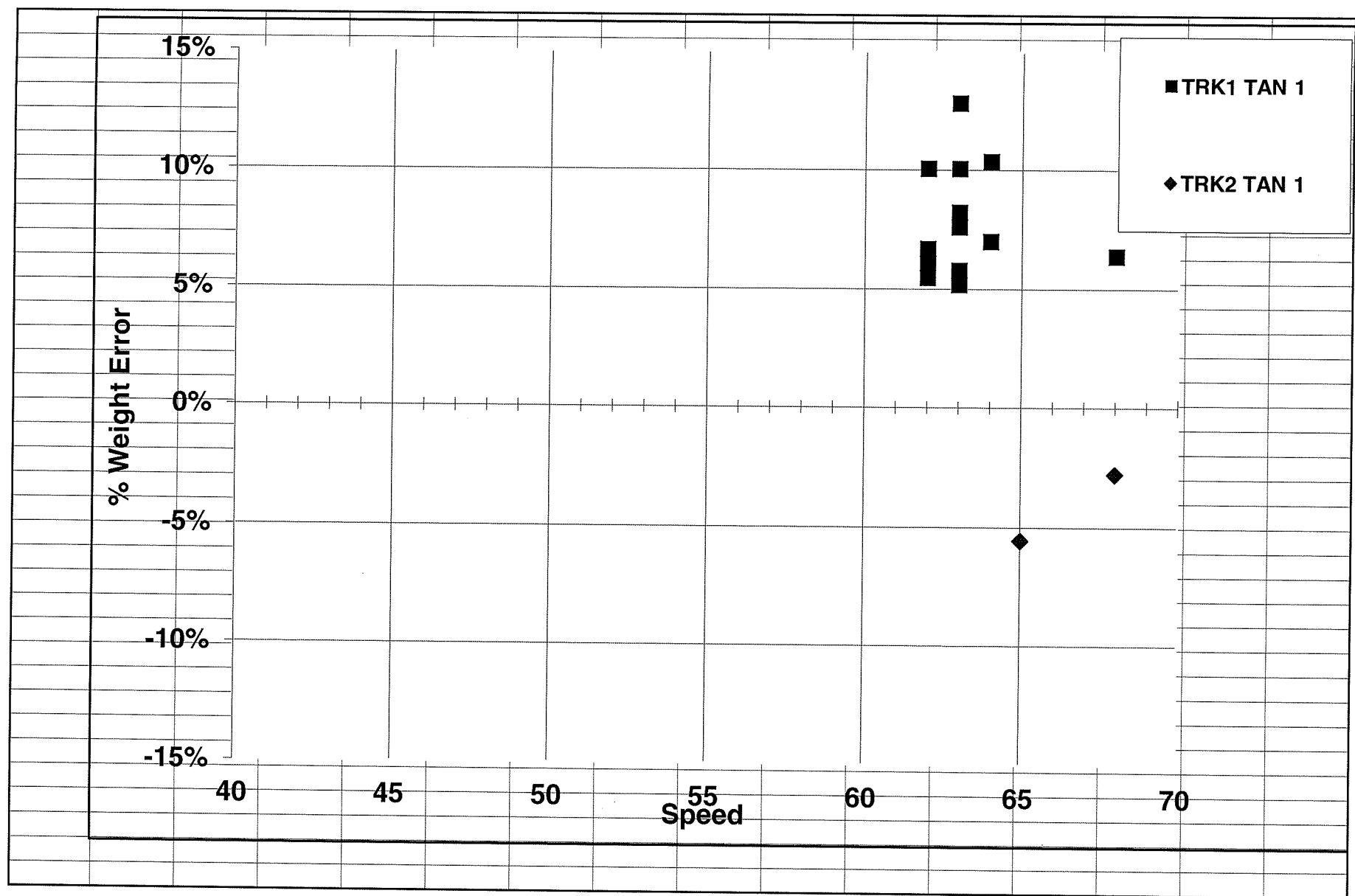
WIM SYSTEM CALIBRATION SPECIFICS**

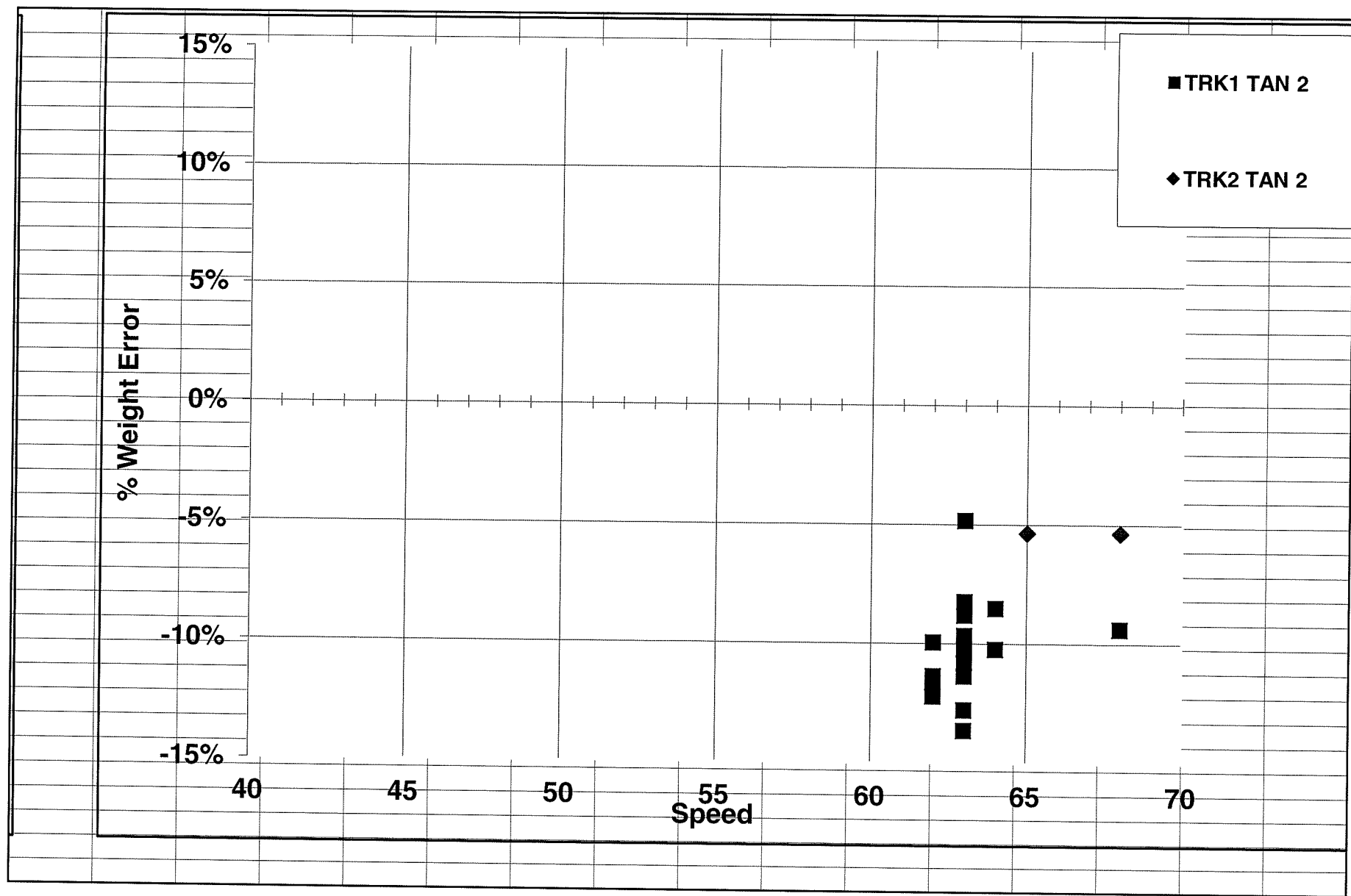
- 6.**CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED ☐ 2 NUMBER OF TEST TRUCKS USED
☐ 14 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|------|------------|
| 1 | 3S2 | Air |
| 2 | 3S2 | Air |
| 3 | | |
- TYPE PER FHWA 13 BIN 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 5.4 STANDARD DEVIATION 15.6
DYNAMIC AND STATIC SINGLE AXLES 11.1 STANDARD DEVIATION 18.3
DYNAMIC AND STATIC DOUBLE AXLES 11.1 STANDARD DEVIATION 18.3
8. ☐ NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) _____
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) _____
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) Y
IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: Front axle of 3S2 expected to be @ 10,000 lbs.

Truck 1	0														
TRUCKS 1 AND 2, COMBINED STATS					SITE NO. XXX			LANE NO. 1			DATE(S) _____				
	-----				ERROR, PERCENT			-----			ERROR, FEE-----				
	GVW	AX 1 WT	TAN 1 WT	TAN 2 WT	TAN WT	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	VEH LGTH	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	ALL AXSP
Mean	5.4%	-13.4%	17.8%	4.5%	11.1%	-0.8%	-1.7%	1.2%	-0.1%	-0.5%	-0.1	-0.1	0.4	0.0	0.1
StdDev	15.6%	13.6%	15.3%	18.8%	18.3%	2.4%	2.0%	2.7%	2.6%	4.5%	0.3	0.1	0.8	0.1	0.5
1.96xStd	30.6%	26.6%	30.0%	36.9%	35.8%					8.8%					1.0









STATIC DATA ENTRY SECTION					TRUCK NO. 1								SITE NO. XXX		DATE _____			
GWV	OAL		AX 1 WT	TAN 1 WT	TAN 2 WT		AX SP 1-2	AX SP 2-3	AX SP 3-4	AX SP 4-5								
78.8	59.5		10.6	32.8	35.2		11.2	4.4	33.9	4.2								
WIM DATA ENTRY SECTION					LANE NO. 1													
Run No	Veh No	Spd	OAL	GWV	AX 1 LTWT	AX 1 RTWT	AX 2 LTWT	AX 2 RTWT	AX 3 LTWT	AX 3 RTWT	AX 4 LTWT	AX 4 RTWT	AX 5 LTWT	AX 5 RTWT	AX SP 1-2	AX SP 2-3	AX SP 3-4	AX SP 4-5
1	110	63	57.8	74.5	8.8		17.1		17.4		15.7		15.5		11.1	4.3	33.9	4.1
2	148	62	56.5	75.2	9.2		17.5		17.5		15.6		15.5		11.1	4.3	33.5	4.2
3	9	63	57.0	73.6	8.3		17.2		17.5		15.1		15.6		11.3	4.2	34.0	4.2
4	84	64	57.8	77.7	9.4		17.6		18.6		16.4		15.8		11.2	4.3	34.0	4.2
5	111	62	57.5	74.4	8.8		17.1		17.5		15.3		15.6		11.2	4.3	33.7	4.3
6	161	63	57.5	74.6	8.9		17.5		17.8		15.1		15.3		11.1	4.3	33.6	4.2
7	193	63	56.7	78.7	9.4		18.1		18.9		15.9		16.4		11.1	4.3	33.4	4.4
8	4	64	56.4	76.1	9.3		17.2		17.9		16.1		15.5		11.2	4.3	33.7	4.2
9	109	63	57.0	75.2	9.1		17.4		17.3		15.5		15.9		11.2	4.4	33.8	4.3
10	12	63	56.7	76.5	9.2		17.1		18.4		16.0		15.8		11.3	4.4	33.6	4.3
11	124	62	55.6	76.7	9.3		18.0		18.1		15.5		15.7		11.2	4.3	33.1	4.3
12	166	63	56.4	75.1	8.8		16.7		18.0		15.9		15.7		11.3	4.3	33.8	4.2
13	4	62	55.5	76.0	9.4		17.0		17.8		15.6		16.1		11.1	4.2	33.0	4.3
14	48	63	56.7	77.4	9.1		17.6		18.5		16.2		15.9		11.3	4.2	33.8	4.1
15	78	68	60.3	75.2	8.4		17.2		17.7		16.4		15.5		12.0	4.6	36.3	4.4
16	126	63	57.3	81.7	9.5		19.0		19.6		16.6		16.9		11.3	4.3	33.8	4.2
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Mean			57.0	76.2	9.1	#DIV/0!	17.5	#DIV/0!	18.0	#DIV/0!	15.8	#DIV/0!	15.8	#DIV/0!	11.3	4.3	33.8	4.2
Std Dev			1.1	2.0	0.4	#DIV/0!	0.5	#DIV/0!	0.6	#DIV/0!	0.5	#DIV/0!	0.4	#DIV/0!	0.2	0.1	0.7	0.1

LANE NO. 1		TRUCK NO. 1		SITE NO. XXX		DATE										

[illegible]

[illegible]

LANE NO. 1

TRUCK NO. 1

SITE NO. XXX

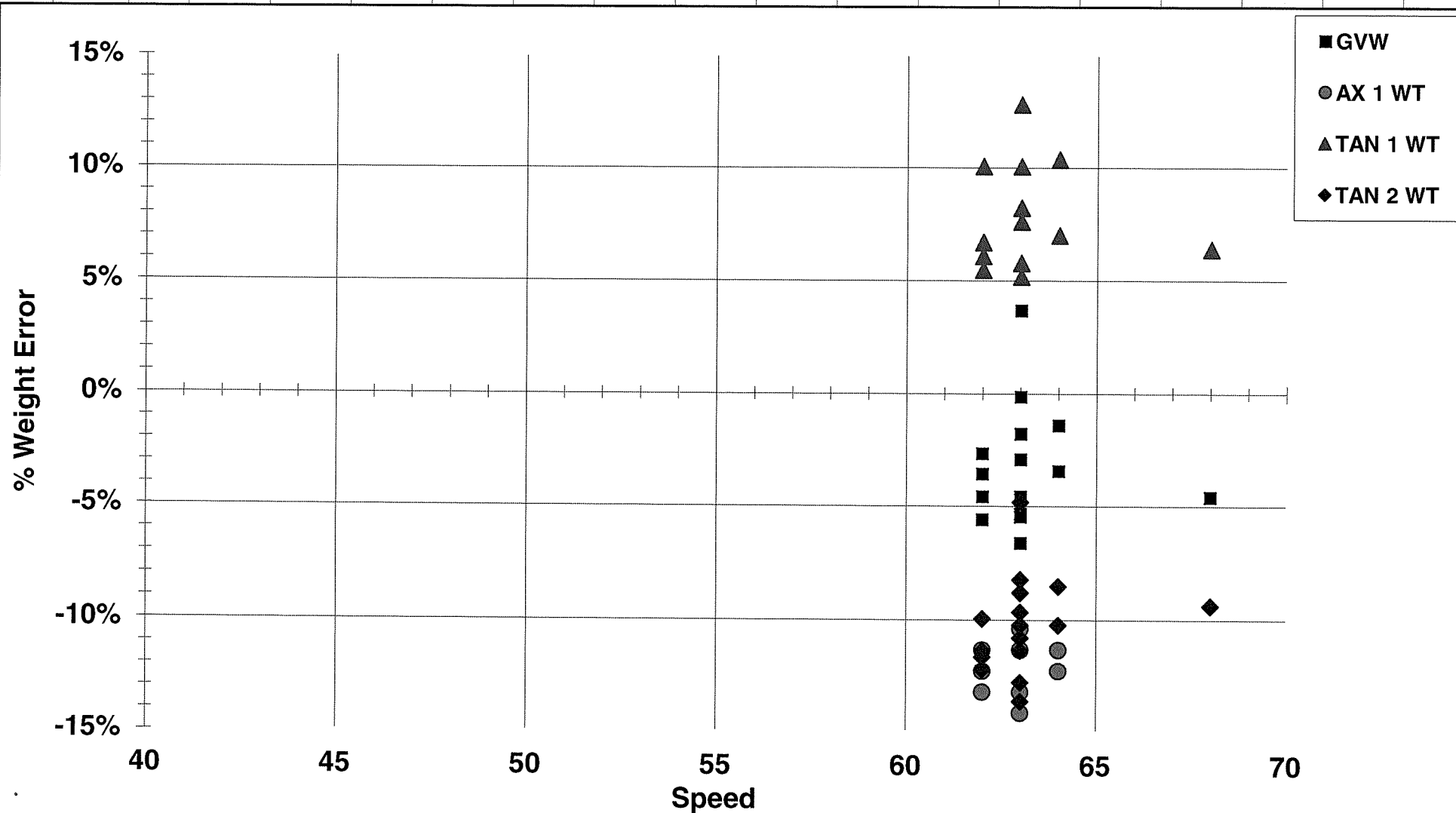
DATE _____

STATISTICAL DATA

ERROR PERCENT

ERROR FEET

	GVW	AX 1 WT	TAN 1 WT	TAN 2 WT	TAN WT	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	VEH LGTH	ALL AXLS
Mean	-3.3%	-14.6%	8.2%	-10.2%	-1.0%	0.4%	-2.0%	-0.3%	1.0%	-4.1%	0.0
StdDev	2.5%	3.4%	3.3%	2.1%	9.8%	1.9%	2.2%	2.1%	2.1%	1.9%	0.4
1.96xStdDev	5.0%	6.6%	6.6%	4.1%	19.1%						0.8



STATIC DATA ENTRY SECTION					TRUCK NO. 2					SITE NO. XXX					DATE			
	GVW	OAL		AX 1 WT	TAN 1 WT	TAN 2 WT		AX SP 1-2	AX SP 2-3	AX SP 3-4	AX SP 4-5							
	34.9	60.3		9.7	14.4	11.2		14.9	4.4	33.1	4.3							
WIM DATA ENTRY SECTION					LANE NO. 1													
Run No	Veh No	Spd	OAL	GVW	AX 1 LTWT	AX 1 RTWT	AX 2 LTWT	AX 2 RTWT	AX 3 LTWT	AX 3 RTWT	AX 4 LTWT	AX 4 RTWT	AX 5 LTWT	AX 5 RTWT	AX SP 1-2	AX SP 2-3	AX SP 3-4	AX SP 4-5
1	104	63	61.9	38.6	8.5		9.2		8.0		7.2		5.7		14.5	4.3	33.9	4.3
2	141	63	62.5	39.5	7.8		9.4		9.0		7.8		5.6		14.4	4.3	34.2	4.2
3	3	63	63.2	43.6	9.3		9.8		9.8		8.4		6.1		14.4	4.3	33.9	4.2
4	70	64	61.5	44.1	9.8		10.5		9.8		8.1		5.9		14.5	4.3	33.9	4.2
5	146	65	60.7	28.7	5.6		7.3		6.3		6.3		4.3		14.4	4.4	33.9	4.3
6	214	62	61.5	42.7	10.0		9.6		9.5		8.0		5.5		14.4	4.4	33.8	4.1
7	102	65	62.6	40.5	7.3		9.4		9.3		7.4		7.2		14.6	4.3	33.6	4.2
8	2	65	62.0	42.8	9.4		10.1		9.7		8.1		5.5		14.5	4.3	33.8	4.3
9	117	63	62.4	43.3	10.1		9.5		9.6		8.2		5.9		14.5	4.3	33.4	4.2
10	58	65	61.8	41.0	9.4		9.7		8.7		8.2		4.9		14.4	4.3	33.6	4.2
11	191	63	61.6	43.5	10.1		9.8		9.2		8.6		5.7		14.4	4.3	33.6	4.2
12	33	69	67.7	47.5	7.5		11.8		10.8		10.3		7.0		15.5	4.5	36.4	4.5
13	65	68	62.8	24.0	3.9		6.1		7.9		3.4		7.2		15.0	4.5	35.1	4.4
14	100	65	61.9	44.2	10.6		10.0		9.8		9.0		4.7		14.5	4.3	34.0	4.1
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	Mean		62.4	40.3	8.5	#DIV/0!	9.4	#DIV/0!	9.1	#DIV/0!	7.8	#DIV/0!	5.8	#DIV/0!	14.6	4.3	34.1	4.2
	Std Dev		1.6	6.4	1.9	#DIV/0!	1.3	#DIV/0!	1.1	#DIV/0!	1.6	#DIV/0!	0.9	#DIV/0!	0.3	0.1	0.8	0.1

LANE NO. 1		TRUCK NO. 2		SITE NO. XXX			DATE										
				ERROR, PERCENT									ERROR, FEET				
	Run No	GVW	AX 1 WT	TAN 1 WT	TAN 2 WT	TAN WT	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	VEH LGTH	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	ALL AXLS	
	1	10.6%	-12.4%	19.4%	15.2%		-2.7%	-2.3%	2.4%	0.0%	2.7%	-0.4	-0.1	0.8	0.0		
	2	13.2%	-19.6%	27.8%	19.6%		-3.4%	-2.3%	3.3%	-2.3%	3.6%	-0.5	-0.1	1.1	-0.1		
	3	24.9%	-4.1%	36.1%	29.5%		-3.4%	-2.3%	2.4%	-2.3%	4.8%	-0.5	-0.1	0.8	-0.1		
	4	26.4%	1.0%	41.0%	25.0%		-2.7%	-2.3%	2.4%	-2.3%	2.0%	-0.4	-0.1	0.8	-0.1		
	5	-17.8%	-42.3%	-5.6%	-5.4%		-3.4%	0.0%	2.4%	0.0%	0.7%	-0.5	0.0	0.8	0.0		
	6	22.3%	3.1%	32.6%	20.5%		-3.4%	0.0%	2.1%	-4.7%	2.0%	-0.5	0.0	0.7	-0.2		
	7	16.0%	-24.7%	29.9%	30.4%		-2.0%	-2.3%	1.5%	-2.3%	3.8%	-0.3	-0.1	0.5	-0.1		
	8	22.6%	-3.1%	37.5%	21.4%		-2.7%	-2.3%	2.1%	0.0%	2.8%	-0.4	-0.1	0.7	0.0		
	9	24.1%	4.1%	32.6%	25.9%		-2.7%	-2.3%	0.9%	-2.3%	3.5%	-0.4	-0.1	0.3	-0.1		
	10	17.5%	-3.1%	27.8%	17.0%		-3.4%	-2.3%	1.5%	-2.3%	2.5%	-0.5	-0.1	0.5	-0.1		
	11	24.6%	4.1%	31.9%	27.7%		-3.4%	-2.3%	1.5%	-2.3%	2.2%	-0.5	-0.1	0.5	-0.1		
	12	36.1%	-22.7%	56.9%	54.5%		4.0%	2.3%	10.0%	4.7%	12.3%	0.6	0.1	3.3	0.2		
	13	-31.2%	-59.8%	-2.8%	-5.4%		0.7%	2.3%	6.0%	2.3%	4.1%	0.1	0.1	2.0	0.1		
	14	26.6%	9.3%	37.5%	22.3%		-2.7%	-2.3%	2.7%	-4.7%	2.7%	-0.4	-0.1	0.9	-0.2		
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	Mean	15.4%	-12.2%	28.8%	21.3%	25.0%	-2.2%	-1.3%	3.0%	-1.3%	3.5%	-0.3	-0.1	1.0	-0.1	0.2	
	StdDev	18.3%	19.9%	16.3%	14.7%	15.7%	2.1%	1.7%	2.4%	2.5%	2.7%	0.3	0.1	0.8	0.1	0.7	
	1.96xStdDev	35.8%	38.9%	31.9%	28.8%	30.8%						0.6	0.1	1.5	0.2	1.4	

[illegible]

LANE NO. 1

TRUCK NO. 2

SITE NO. XXX

DATE _____

STATISTICAL DATA

ERROR, PERCENT

ERROR, FEET

	GVW	AX 1 WT	TAN 1 WT	TAN 2 WT	TAN WT	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	VEH LGTH	ALL AXLS
Mean	15.4%	-12.2%	28.8%	21.3%	25.0%	-2.2%	-1.3%	3.0%	-1.3%	3.5%	0.2
StdDev	18.3%	19.9%	16.3%	14.7%	15.7%	2.1%	1.7%	2.4%	2.5%	2.7%	0.7
1.96xStdDev	35.8%	38.9%	31.9%	28.8%	30.8%						1.4

