

ENTERED
25/SEP/2012 Co.

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [5042]
*STATE CODE [19]
*SHRP SECTION ID [5042]

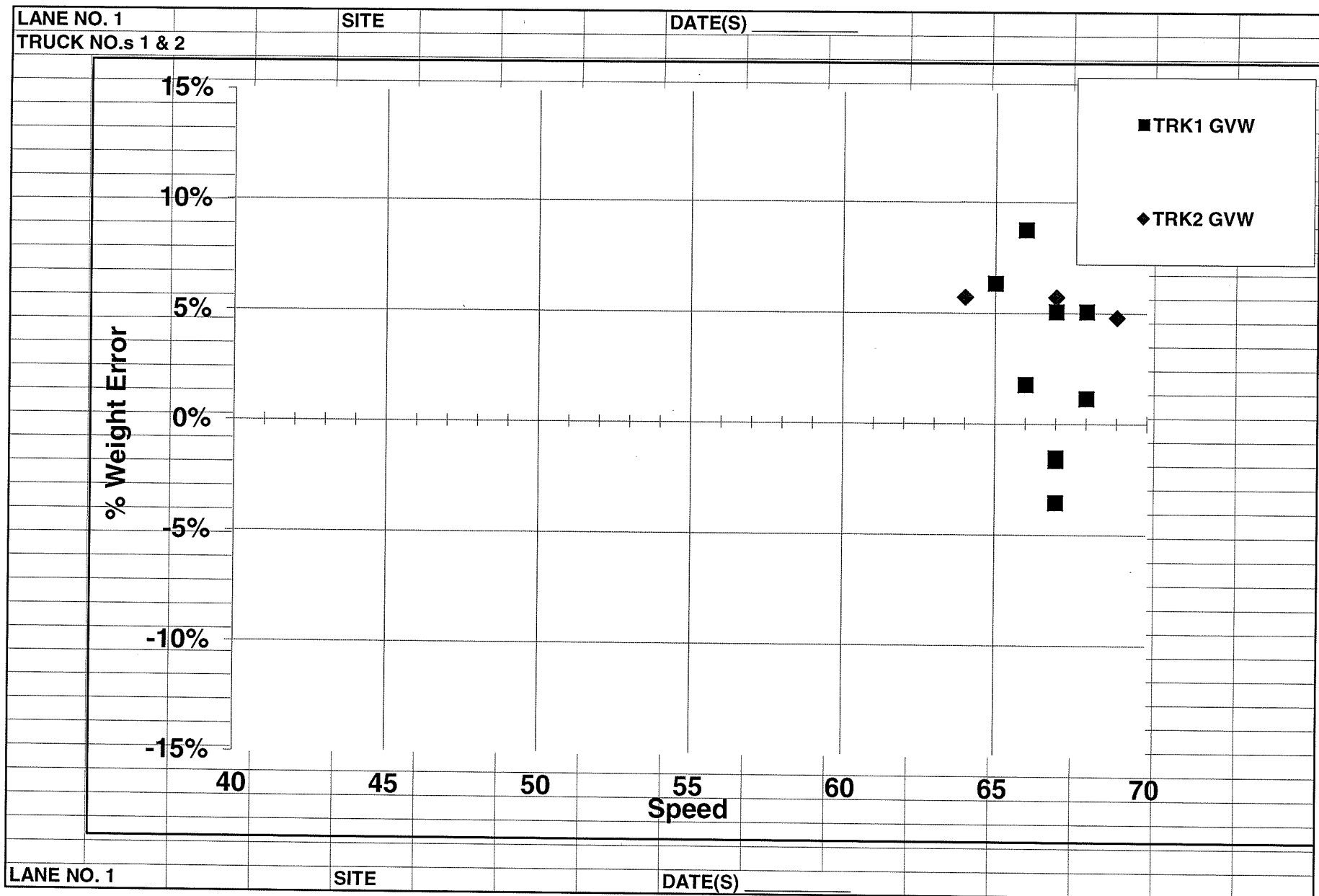
SITE CALIBRATION INFORMATION

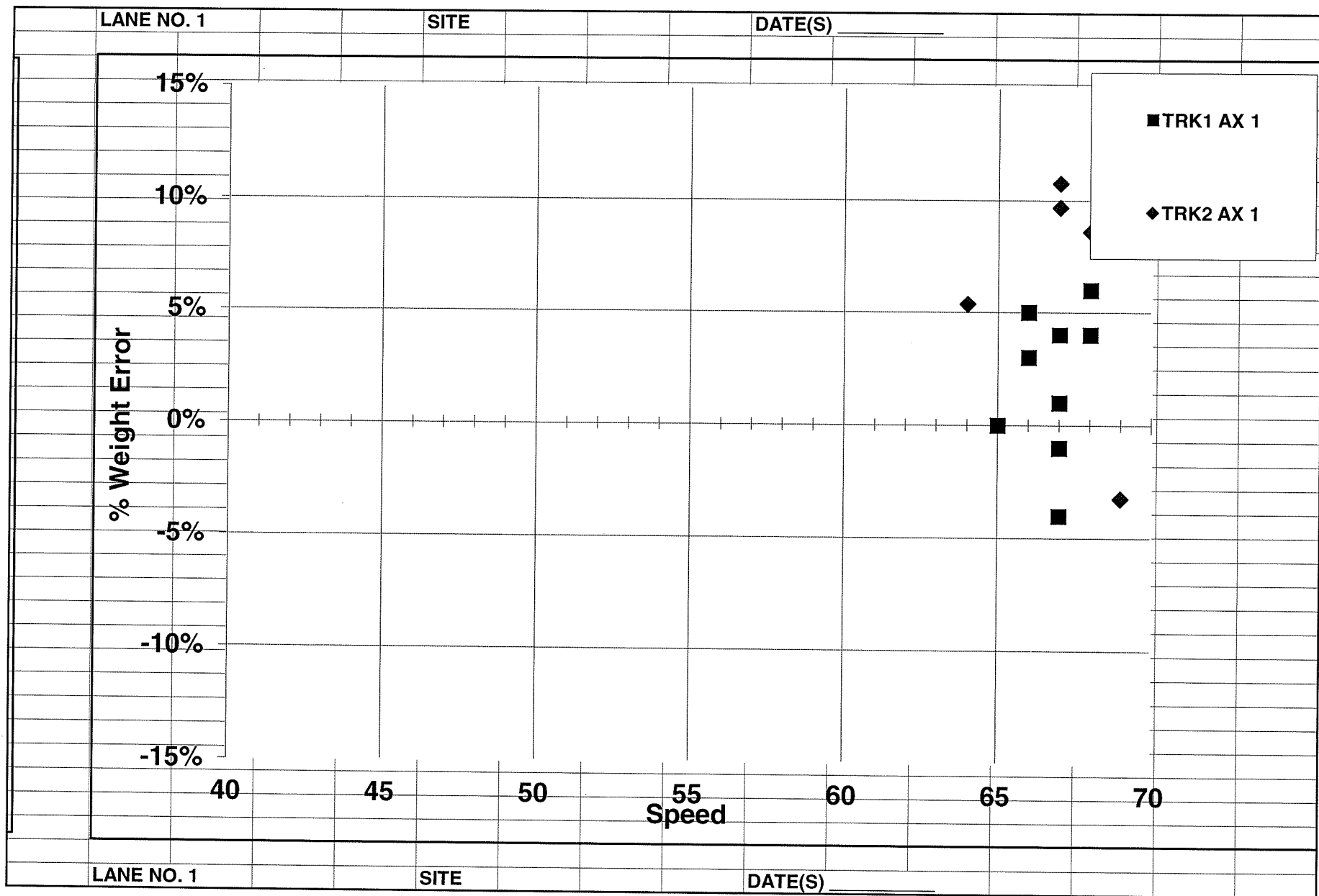
1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [03/24/2011]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
3. * REASON FOR CALIBRATION
☒ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY) _____
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

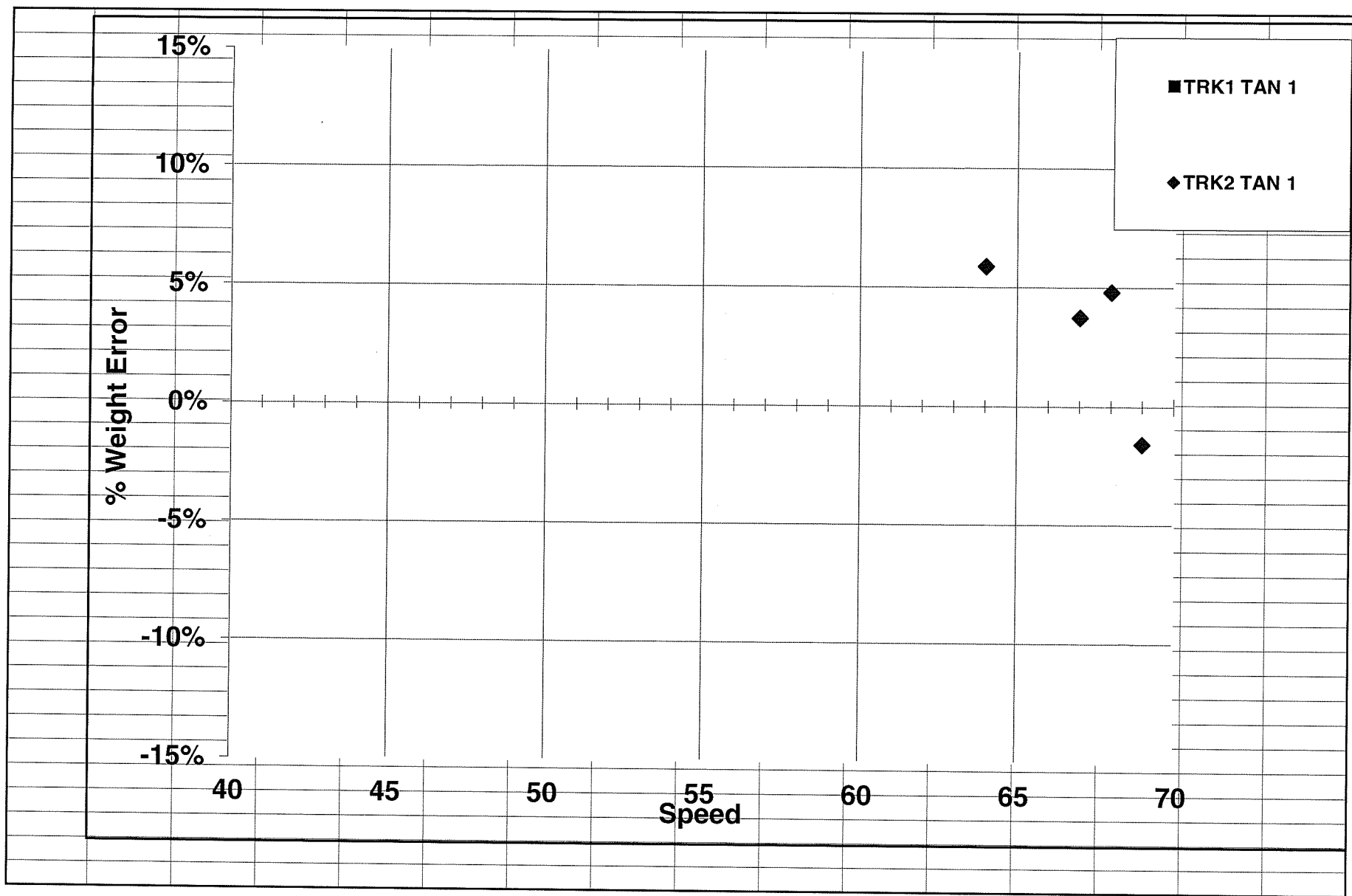
WIM SYSTEM CALIBRATION SPECIFICS**

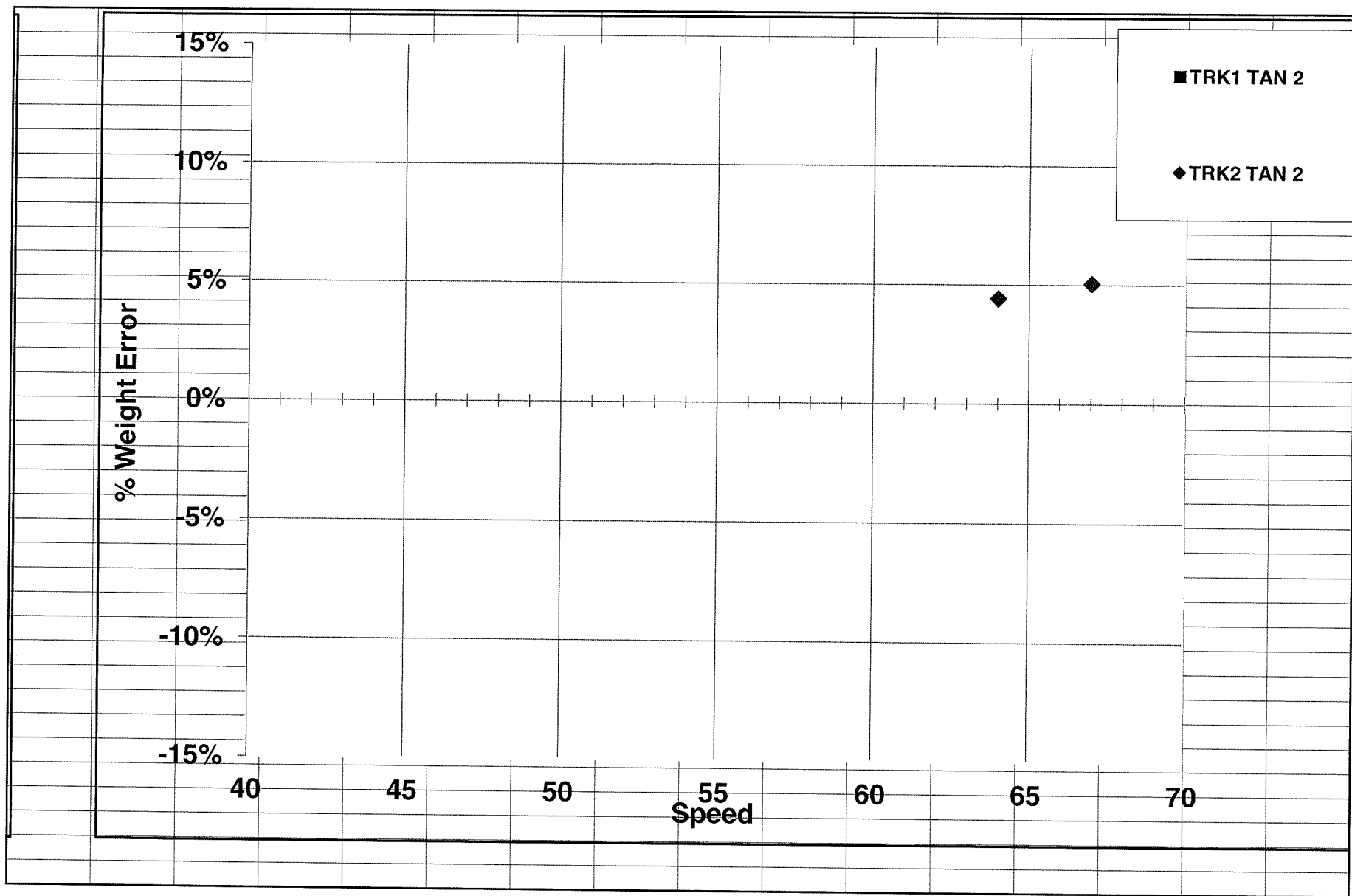
- 6.**CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED ☐ 2 NUMBER OF TEST TRUCKS USED
☐ 9 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|------|------------|
| 1 | 3S2 | air |
| 2 | 3S2 | air |
| 3 | | |
- TYPE PER FHWA 13 BIN SYSTEM
SUSPENSION: 1 - AIR; 2 - LEAF SPRING
3 - OTHER (DESCRIBE)
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN ---
DYNAMIC AND STATIC GVW ☐ 8.2 STANDARD DEVIATION ☐ 7.7
DYNAMIC AND STATIC SINGLE AXLES ☐ STANDARD DEVIATION ☐
DYNAMIC AND STATIC DOUBLE AXLES ☐ 69.1 STANDARD DEVIATION ☐ 57.5
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) ☒
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		LANE NO. 1			DATE(S)					
	-----				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	AXSP 1-2	AXSP 2-3	AXSP 3-4	AXSP 4-5	ALL AXSP	
Mean	8.2%	4.1%	68.0%	70.1%	69.1%	-1.6%	-0.5%	0.6%	0.0%	-5.5%	-0.2	0.0	0.2	0.0	0.0	
StdDev	7.7%	6.0%	54.5%	49.7%	51.5%	1.5%	1.7%	1.7%	2.3%	3.9%	0.1	0.1	0.2	0.1	0.3	
1.96xStd	15.0%	11.8%	106.8%	97.4%	100.9%					7.6%					0.7	









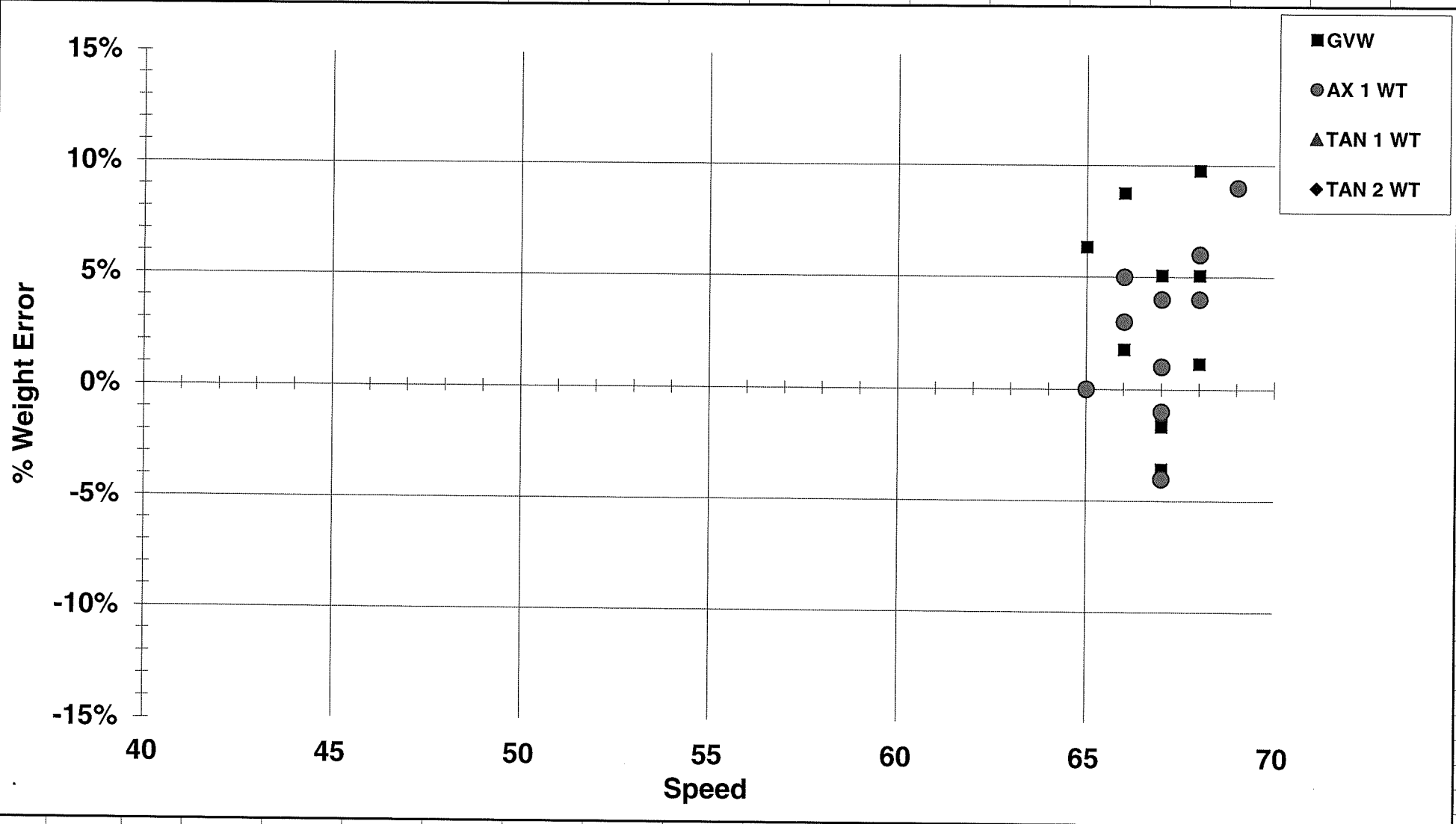
STATIC DATA ENTRY SECTION					TRUCK NO. 1								SITE				DATE			
GVW		OAL	AX 1 WT		TAN 1 WT	TAN 2 WT	AX SP 1-2		AX SP 2-3	AX SP 3-4	AX SP 4-5									
78.8		59.5	10		16.8	16.9	11.2		4.4	33.9	4.2									
WIM DATA ENTRY SECTION					LANE NO. 1															
Run No	Veh No	Spd	OAL	GVW	AX 1 LTWT	AX 1 RTWT	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	33	66	53.6	85.7	10.5		19.0		18.8		19.2		18.2		11.2	4.4	33.7	4.2		
2	55	67	54.2	77.6	9.6		17.4		16.7		17.7		16.2		11.2	4.3	33.9	4.1		
3	73	67	54.7	77.5	9.9		16.3		17.4		17.2		16.8		11.2	4.4	33.8	4.3		
4	33	67	54.1	76.0	10.1		15.5		16.9		17.1		16.4		11.2	4.2	33.7	4.2		
5	63	66	54.4	80.2	10.3		16.9		17.3		18.7		17.0		11.1	4.4	33.5	4.2		
6	82	67	53.1	82.8	10.4		18.7		18.3		18.1		17.4		11.2	4.4	33.7	4.2		
7	22	65	55.0	83.8	10.0		19.6		19.0		18.0		17.1		11.1	4.3	33.2	4.1		
8	55	68	54.2	79.7	10.6		17.3		17.2		17.9		16.7		11.1	4.4	33.7	4.3		
9	84	68	54.3	82.8	10.4		17.1		18.2		19.2		17.9		11.1	4.4	33.7	4.3		
10	12	68	54.5	86.5	10.6		19.3		19.2		19.5		17.8		11.2	4.4	33.7	4.4		
11	32	69	54.1	93.1	10.9		20.3		20.5		21.3		20.0		11.1	4.5	33.5	4.3		
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	Mean		54.2	82.3	10.3	#DIV/0!	17.9	#DIV/0!	18.1	#DIV/0!	18.5	#DIV/0!	17.4	#DIV/0!	11.2	4.4	33.6	4.2		
	Std Dev		0.5	4.9	0.4	#DIV/0!	1.5	#DIV/0!	1.2	#DIV/0!	1.2	#DIV/0!	1.1	#DIV/0!	0.1	0.1	0.2	0.1		

LANE NO. 1		TRUCK NO. 1		SITE		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	8.8%	5.0%	125.0%	121.3%		0.0%	0.0%	-0.6%	0.0%	-9.9%	0.0	0.0	-0.2	0.0		
2	-1.5%	-4.0%	103.0%	100.6%		0.0%	-2.3%	0.0%	-2.4%	-8.9%	0.0	-0.1	0.0	-0.1		
3	-1.6%	-1.0%	100.6%	101.2%		0.0%	0.0%	-0.3%	2.4%	-8.1%	0.0	0.0	-0.1	0.1		
4	-3.6%	1.0%	92.9%	98.2%		0.0%	-4.5%	-0.6%	0.0%	-9.1%	0.0	-0.2	-0.2	0.0		
5	1.8%	3.0%	103.6%	111.2%		-0.9%	0.0%	-1.2%	0.0%	-8.6%	-0.1	0.0	-0.4	0.0		
6	5.1%	4.0%	120.2%	110.1%		0.0%	0.0%	-0.6%	0.0%	-10.8%	0.0	0.0	-0.2	0.0		
7	6.3%	0.0%	129.8%	107.7%		-0.9%	-2.3%	-2.1%	-2.4%	-7.6%	-0.1	-0.1	-0.7	-0.1		
8	1.1%	6.0%	105.4%	104.7%		-0.9%	0.0%	-0.6%	2.4%	-8.9%	-0.1	0.0	-0.2	0.1		
9	5.1%	4.0%	110.1%	119.5%		-0.9%	0.0%	-0.6%	2.4%	-8.7%	-0.1	0.0	-0.2	0.1		
10	9.8%	6.0%	129.2%	120.7%		0.0%	0.0%	-0.6%	4.8%	-8.4%	0.0	0.0	-0.2	0.2		
11	18.1%	9.0%	142.9%	144.4%		-0.9%	2.3%	-1.2%	2.4%	-9.1%	-0.1	0.1	-0.4	0.1		
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Mean	4.5%	3.0%	114.8%	112.7%	113.7%	-0.4%	-0.6%	-0.8%	0.9%	-8.9%	0.0	0.0	-0.3	0.0	-0.1	
StdDev	6.3%	3.7%	15.5%	13.3%	14.2%	0.5%	1.8%	0.5%	2.2%	0.9%	0.1	0.1	0.2	0.1	0.2	
1.96xStdDev	12.3%	7.3%	30.4%	26.1%	27.8%						0.1	0.2	0.4	0.2	0.3	

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LANE NO. 1	TRUCK NO. 1	SITE	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	4.5%	3.0%	114.8%	112.7%	113.7%	-0.4%	-0.6%	-0.8%	0.9%	-8.9%		-0.1	
StdDev	6.3%	3.7%	15.5%	13.3%	14.2%	0.5%	1.8%	0.5%	2.2%	0.9%		0.2	
1.96xStdDev	12.3%	7.3%	30.4%	26.1%	27.8%							0.3	



STATIC DATA ENTRY SECTION					TRUCK NO. 2								SITE				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				
43.6		60.3		9.3		18.7		15.8		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	53	71	59.7	49.4	8.2		11.8		10.1		10.5		8.9		14.5	4.3	34.1	4.2		
2	25	67	59.3	53.0	10.3		11.8		11.3		10.3		9.4		14.4	4.5	33.8	4.3		
3	54	64	59.0	46.1	9.8		10.0		9.8		8.8		7.7		14.5	4.3	33.9	4.1		
4	78	67	59.1	46.1	10.2		9.9		9.5		8.7		7.9		14.5	4.3	33.9	4.3		
5	15	69	59.7	45.7	10.1		8.8		9.6		9.3		7.9		14.4	4.4	33.7	4.4		
6	45	71	60.0	51.3	10.0		10.4		10.9		10.6		9.5		14.4	4.4	34.1	4.2		
7	73	71	59.8	53.7	10.6		11.8		11.1		11.0		9.2		14.3	4.4	33.9	4.2		
8	2	68	59.4	49.6	10.1		8.5		11.1		9.9		9.9		14.5	4.5	34.1	4.3		
9	26	69	58.9	47.5	9.0		10.3		9.9		9.2		9.1		14.4	4.4	33.4	4.3		
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.	Mean		59.4	49.2	9.8	#DIV/0!	10.4	#DIV/0!	10.4	#DIV/0!	9.8	#DIV/0!	8.8	#DIV/0!	14.4	4.4	33.9	4.3		
	Std Dev		0.4	3.0	0.7	#DIV/0!	1.2	#DIV/0!	0.7	#DIV/0!	0.8	#DIV/0!	0.8	#DIV/0!	0.1	0.1	0.2	0.1		

LANE NO. 1		TRUCK NO. 2		SITE		DATE											

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LANE NO. 1

TRUCK NO. 2

SITE

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	12.7%	5.5%	10.9%	18.0%	14.4%	-3.1%	-0.3%	2.3%	-1.0%	-1.4%	0.1
StdDev	7.0%	8.0%	8.8%	9.6%	9.7%	0.5%	1.8%	0.7%	2.1%	0.6%	0.5
1.96xStdDev	13.6%	15.8%	17.2%	18.9%	19.0%						1.0

