

ENTERED
25/SEP/12 P.O.

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [6049]
*STATE CODE [19]
*SHRP SECTION ID [6049]

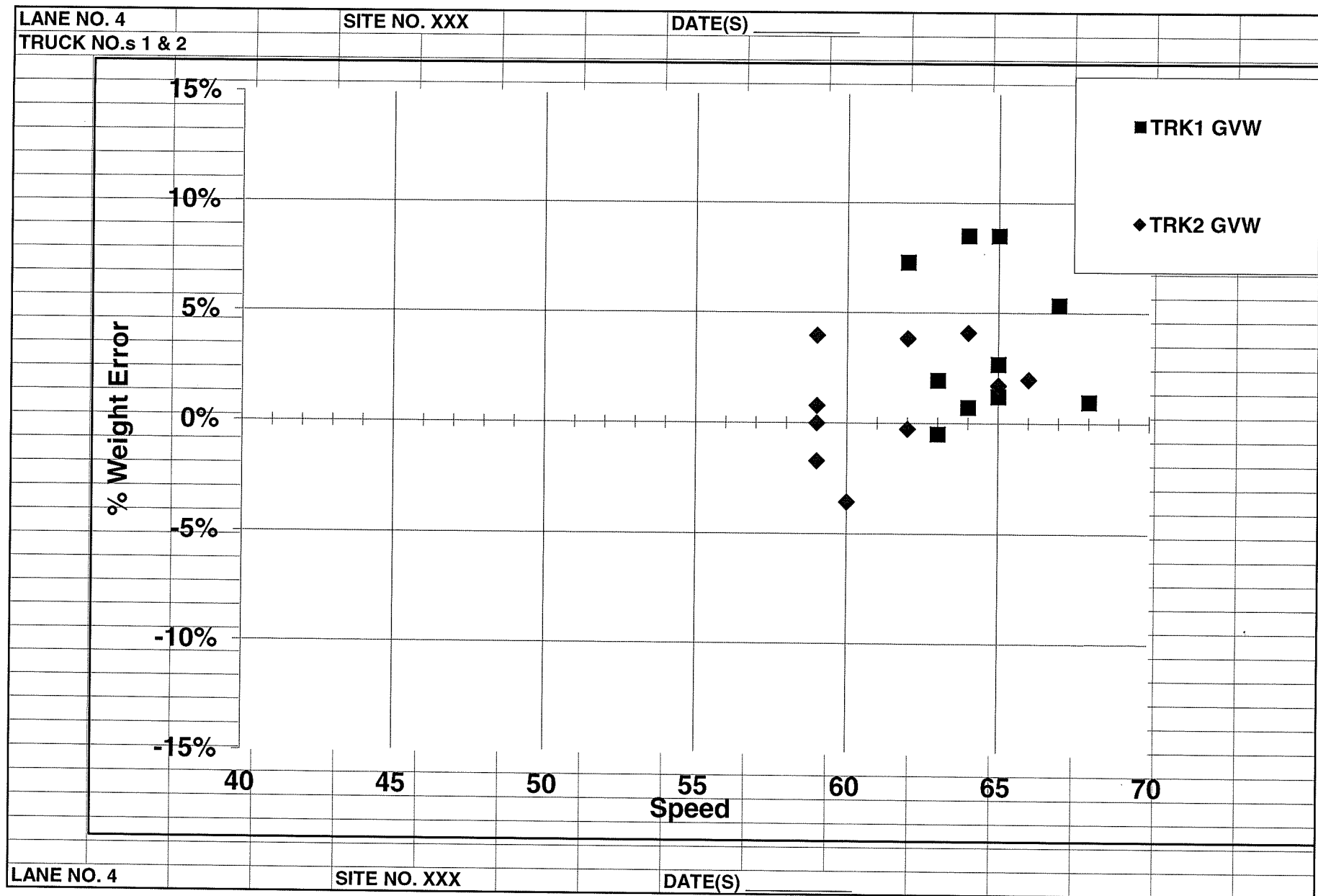
SITE CALIBRATION INFORMATION

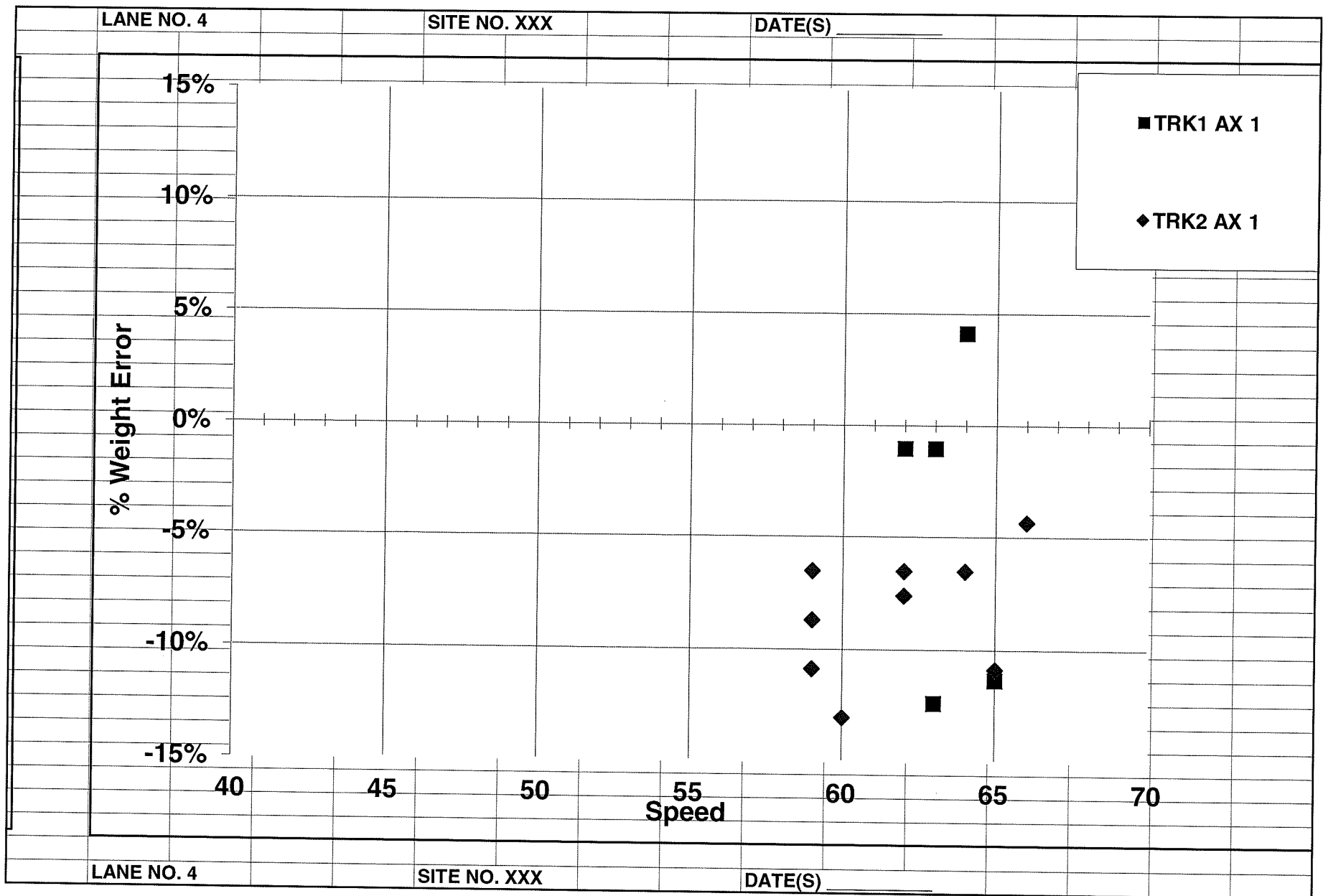
1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [12/07/2011]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
3. * REASON FOR CALIBRATION
☒ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY) _____
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

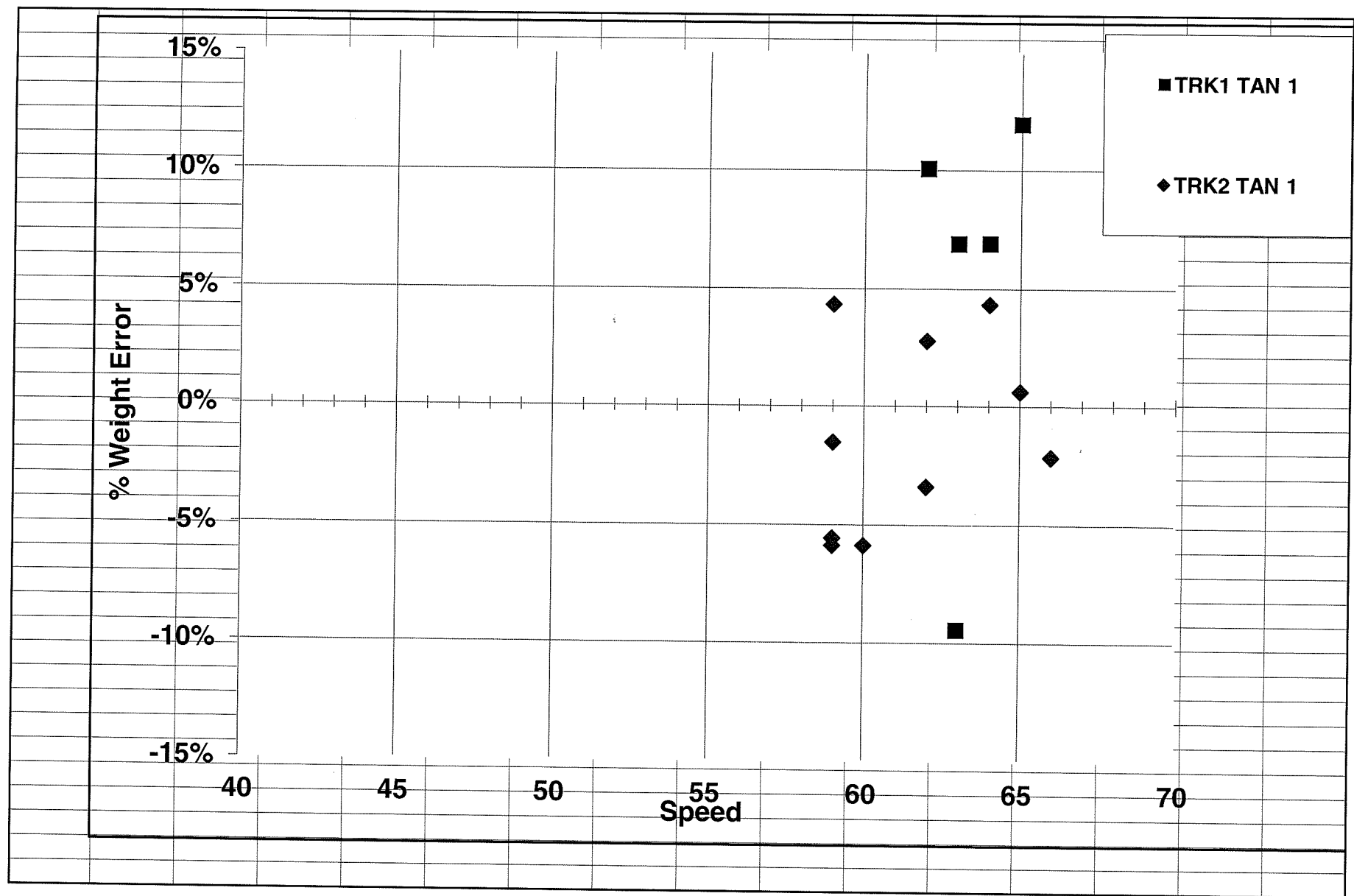
WIM SYSTEM CALIBRATION SPECIFICS**

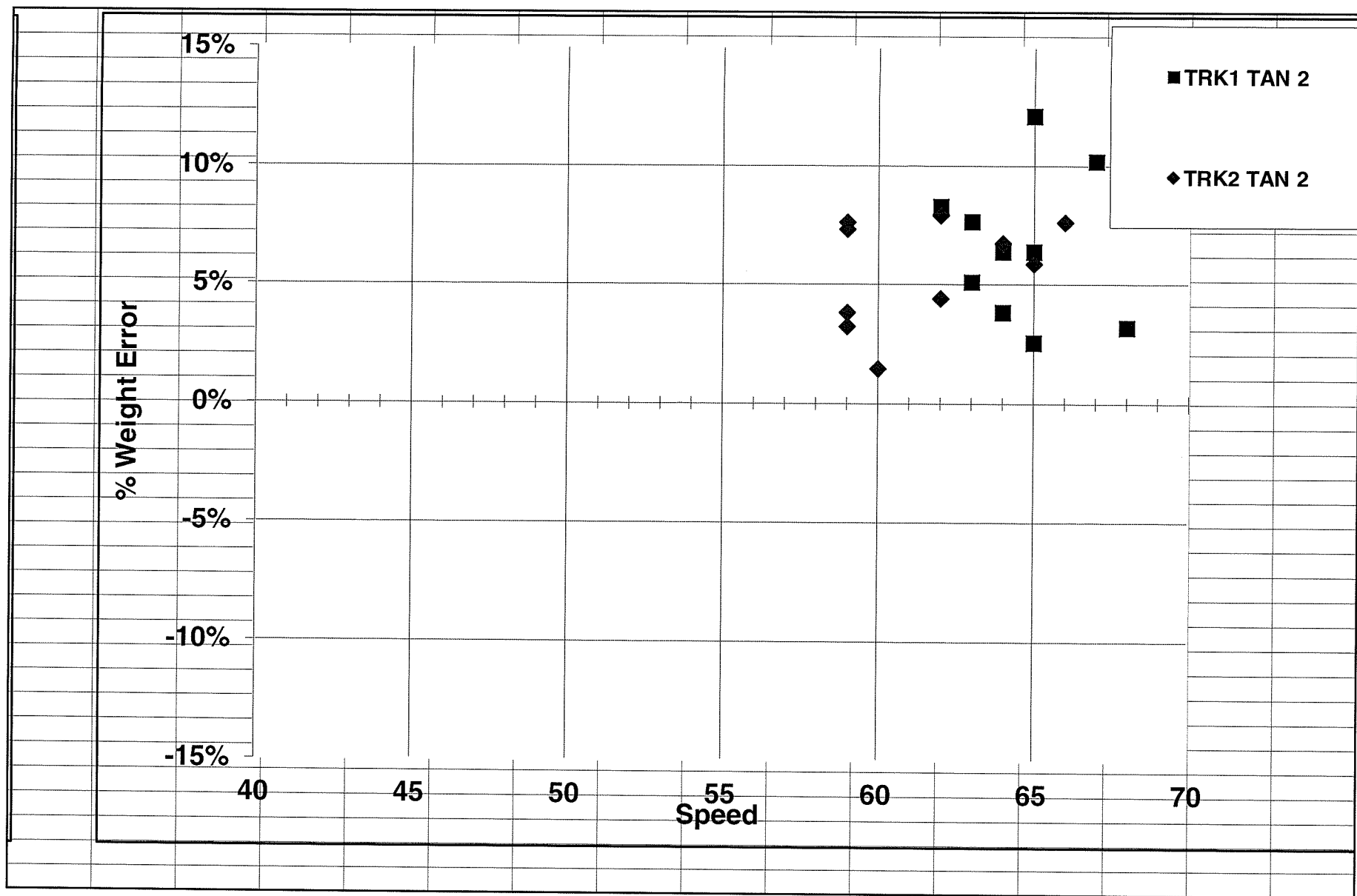
- 6.**CALIBRATION TECHNIQUE USED:
☐ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED ☐ 2 NUMBER OF TEST TRUCKS USED
☐ 10 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|------|------------|
| 1 | 3S2 | air |
| 2 | 3S2 | air |
| 3 | | |
- TYPE PER FHWA 13 BIN 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 2.4 STANDARD DEVIATION 3.2
DYNAMIC AND STATIC SINGLE AXLES 5.4 STANDARD DEVIATION 6.5
DYNAMIC AND STATIC DOUBLE AXLES 5.4 STANDARD DEVIATION 6.5
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) 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. 4			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	2.4%	-11.2%	4.8%	6.1%	5.4%	-1.3%	-2.3%	-0.6%	-1.0%	-5.4%	-0.2	-0.1	-0.1	-0.1	-0.1
StdDev	3.2%	8.4%	8.8%	2.7%	6.5%	0.8%	4.7%	0.5%	5.2%	1.4%	0.0	0.1	0.1	0.1	0.2
1.96xStd	6.3%	16.4%	17.3%	5.2%	12.7%					2.8%					0.3









STATIC DATA ENTRY SECTION					TRUCK NO. 1					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								
41.2	47.9		9.7	15.9	15.7		15.2	4.6	19.6	4.3								
WIM DATA ENTRY SECTION					LANE NO. 4													
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	329	64	45.0	41.5	7.8		8.3		8.7		8.3		8.4		15.0	4.3	19.4	4.0
2	448	65	45.9	42.3	7.4		9.2		9.7		7.8		8.3		14.9	4.3	19.5	4.0
3	560	62	44.9	44.2	9.6		8.8		8.7		8.4		8.6		14.8	4.2	19.4	4.0
4	112	65	45.3	44.7	8.6		8.7		9.8		8.8		8.8		15.0	4.3	19.5	4.1
5	241	63	45.2	41.0	9.6		8.1		6.3		8.3		8.6		14.8	4.3	19.3	4.0
6	367	64	44.4	44.7	10.1		9.0		9.4		7.9		8.4		14.8	4.2	19.3	4.0
7	493	67	44.9	43.4	7.5		8.8		9.7		8.6		8.7		14.9	4.3	19.4	4.1
8	19	65	44.6	41.7	7.3		8.3		9.5		8.4		8.3		14.9	4.4	19.3	4.2
9	123	68	45.3	41.6	7.2		9.1		9.1		7.6		8.6		15.0	4.3	19.5	4.1
10	231	63	45.0	42.0	8.5		8.4		8.6		8.1		8.4		15.0	4.3	19.5	4.0
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Mean			45.1	42.7	8.4	#DIV/0!	8.7	#DIV/0!	9.0	#DIV/0!	8.2	#DIV/0!	8.5	#DIV/0!	14.9	4.3	19.4	4.1
Std Dev			0.4	1.4	1.1	#DIV/0!	0.4	#DIV/0!	1.0	#DIV/0!	0.4	#DIV/0!	0.2	#DIV/0!	0.1	0.1	0.1	0.1

LANE NO. 4		TRUCK NO. 1		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	0.7%	-19.6%	6.9%	6.4%		-1.3%	-6.5%	-1.0%	-7.0%	-6.1%	-0.2	-0.3	-0.2	-0.3		
	2	2.7%	-23.7%	18.9%	2.5%		-2.0%	-6.5%	-0.5%	-7.0%	-4.2%	-0.3	-0.3	-0.1	-0.3		
	3	7.3%	-1.0%	10.1%	8.3%		-2.6%	-8.7%	-1.0%	-7.0%	-6.3%	-0.4	-0.4	-0.2	-0.3		
	4	8.5%	-11.3%	16.4%	12.1%		-1.3%	-6.5%	-0.5%	-4.7%	-5.4%	-0.2	-0.3	-0.1	-0.2		
	5	-0.5%	-1.0%	-9.4%	7.6%		-2.6%	-6.5%	-1.5%	-7.0%	-5.6%	-0.4	-0.3	-0.3	-0.3		
	6	8.5%	4.1%	15.7%	3.8%		-2.6%	-8.7%	-1.5%	-7.0%	-7.3%	-0.4	-0.4	-0.3	-0.3		
	7	5.3%	-22.7%	16.4%	10.2%		-2.0%	-6.5%	-1.0%	-4.7%	-6.3%	-0.3	-0.3	-0.2	-0.2		
	8	1.2%	-24.7%	11.9%	6.4%		-2.0%	-4.3%	-1.5%	-2.3%	-6.9%	-0.3	-0.2	-0.3	-0.1		
	9	1.0%	-25.8%	14.5%	3.2%		-1.3%	-6.5%	-0.5%	-4.7%	-5.4%	-0.2	-0.3	-0.1	-0.2		
	10	1.9%	-12.4%	6.9%	5.1%		-1.3%	-6.5%	-0.5%	-7.0%	-6.1%	-0.2	-0.3	-0.1	-0.3		
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	Mean	3.7%	-13.8%	10.8%	6.6%	8.7%	-1.9%	-6.7%	-1.0%	-5.8%	-5.9%	-0.3	-0.3	-0.2	-0.3	-0.3	
	StdDev	3.4%	11.2%	8.2%	3.1%	6.4%	0.6%	1.2%	0.4%	1.6%	0.9%	0.1	0.1	0.1	0.1	0.1	
	1.96xStdDev	6.7%	22.0%	16.1%	6.0%	12.6%						0.2	0.1	0.2	0.1	0.2	

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LANE NO. 4

TRUCK NO. 1

SITE NO. XXX

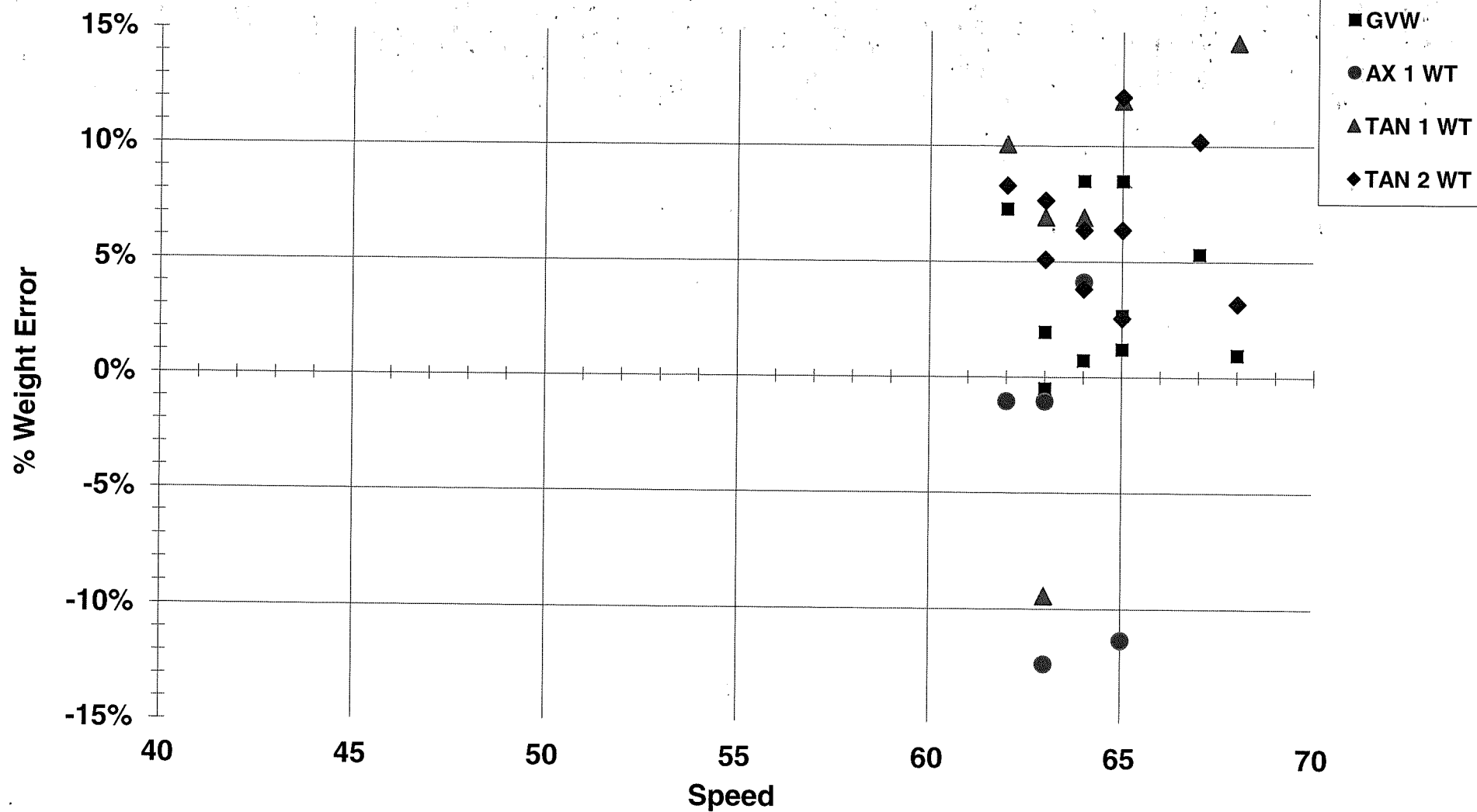
DATE _____

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	3.7%	-13.8%	10.8%	6.6%	8.7%	-1.9%	-6.7%	-1.0%	-5.8%	-5.9%	-0.3
StdDev	3.4%	11.2%	8.2%	3.1%	6.4%	0.6%	1.2%	0.4%	1.6%	0.9%	0.1
1.96xStdDev	6.7%	22.0%	16.1%	6.0%	12.6%						0.2



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								
75.7	46.5		9.2	32.3	34.2		11.7	4.3	20.1	3.9								
WIM DATA ENTRY SECTION					LANE NO. 4													
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	335	62	44.8	75.5	8.5		15.7		15.5		17.6		18.1		11.6	4.4	20.0	4.0
2	465	60	44.2	73.0	8.0		14.3		16.1		16.8		17.9		11.6	4.4	20.0	4.0
3	11	62	43.8	78.6	8.6		17.0		16.2		18.1		18.8		11.6	4.3	20.1	4.1
4	143	64	45.3	78.8	8.6		17.0		16.7		17.7		18.8		11.6	4.5	19.9	4.0
5	280	59	43.7	74.4	8.4		15.2		15.2		17.0		18.5		11.6	4.4	20.1	4.1
6	402	59	43.6	75.7	8.6		15.6		14.9		17.9		18.8		11.7	4.4	20.1	4.1
7	532	59	42.8	78.7	8.2		16.6		17.1		18.0		18.8		11.7	4.3	20.1	4.0
8	69	59	44.6	76.3	8.2		15.3		16.5		17.8		17.5		11.6	4.4	20.0	4.0
9	184	66	45.0	77.2	8.8		15.5		16.1		18.3		18.5		11.6	4.4	20.1	4.2
10	284	65	44.7	77.0	8.2		15.9		16.6		18.1		18.1		11.7	4.4	20.1	4.0
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Mean			44.3	76.5	8.4	#DIV/0!	15.8	#DIV/0!	16.1	#DIV/0!	17.7	#DIV/0!	18.4	#DIV/0!	11.6	4.4	20.1	4.1
Std Dev			0.8	1.9	0.3	#DIV/0!	0.9	#DIV/0!	0.7	#DIV/0!	0.5	#DIV/0!	0.5	#DIV/0!	0.0	0.1	0.1	0.1

LANE NO. 4		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	-0.3%	-7.6%	-3.4%	4.4%		-0.9%	2.3%	-0.5%	2.6%	-3.7%	-0.1	0.1	-0.1	0.1			
2	-3.6%	-13.0%	-5.9%	1.5%		-0.9%	2.3%	-0.5%	2.6%	-4.9%	-0.1	0.1	-0.1	0.1			
3	3.8%	-6.5%	2.8%	7.9%		-0.9%	0.0%	0.0%	5.1%	-5.8%	-0.1	0.0	0.0	0.2			
4	4.1%	-6.5%	4.3%	6.7%		-0.9%	4.7%	-1.0%	2.6%	-2.6%	-0.1	0.2	-0.2	0.1			
5	-1.7%	-8.7%	-5.9%	3.8%		-0.9%	2.3%	0.0%	5.1%	-6.0%	-0.1	0.1	0.0	0.2			
6	0.0%	-6.5%	-5.6%	7.3%		0.0%	2.3%	0.0%	5.1%	-6.2%	0.0	0.1	0.0	0.2			
7	4.0%	-10.9%	4.3%	7.6%		0.0%	0.0%	0.0%	2.6%	-8.0%	0.0	0.0	0.0	0.1			
8	0.8%	-10.9%	-1.5%	3.2%		-0.9%	2.3%	-0.5%	2.6%	-4.1%	-0.1	0.1	-0.1	0.1			
9	2.0%	-4.3%	-2.2%	7.6%		-0.9%	2.3%	0.0%	7.7%	-3.2%	-0.1	0.1	0.0	0.3			
10	1.7%	-10.9%	0.6%	5.8%		0.0%	2.3%	0.0%	2.6%	-3.9%	0.0	0.1	0.0	0.1			
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Mean	1.1%	-8.6%	-1.2%	5.6%	2.2%	-0.6%	2.1%	-0.2%	3.8%	-4.8%	-0.1	0.1	-0.1	0.2	0.0		
StdDev	2.6%	2.7%	4.1%	2.2%	4.7%	0.4%	1.3%	0.4%	1.8%	1.7%	0.0	0.1	0.1	0.1	0.1		
1.96xStdDev	5.0%	5.4%	8.0%	4.4%	9.3%						0.1	0.1	0.1	0.1	0.2		

[illegible]

LANE NO. 4

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	1.1%	-8.6%	-1.2%	5.6%	2.2%	-0.6%	2.1%	-0.2%	3.8%	-4.8%	0.0
StdDev	2.6%	2.7%	4.1%	2.2%	4.7%	0.4%	1.3%	0.4%	1.8%	1.7%	0.1
1.96xStdDev	5.0%	5.4%	8.0%	4.4%	9.3%						0.2

