

ENTERED
25 SEP/12 C.O.

SHEET 16
LTPP MONITORED TRAFFIC DATA
SITE CALIBRATION SUMMARY

*STATE ASSIGNED ID [9126]
*STATE CODE [19]
*SHRP SECTION ID [9126]

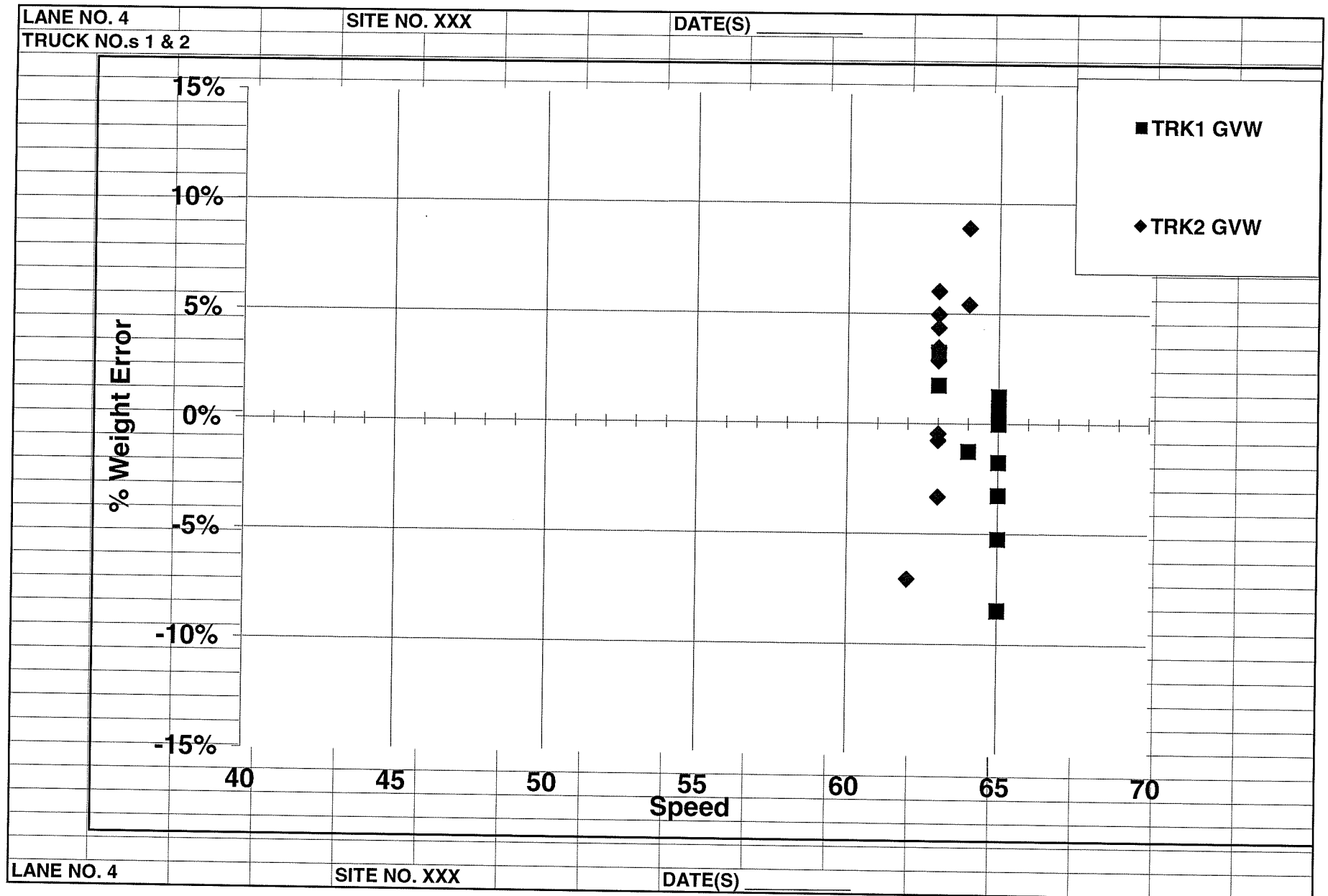
SITE CALIBRATION INFORMATION

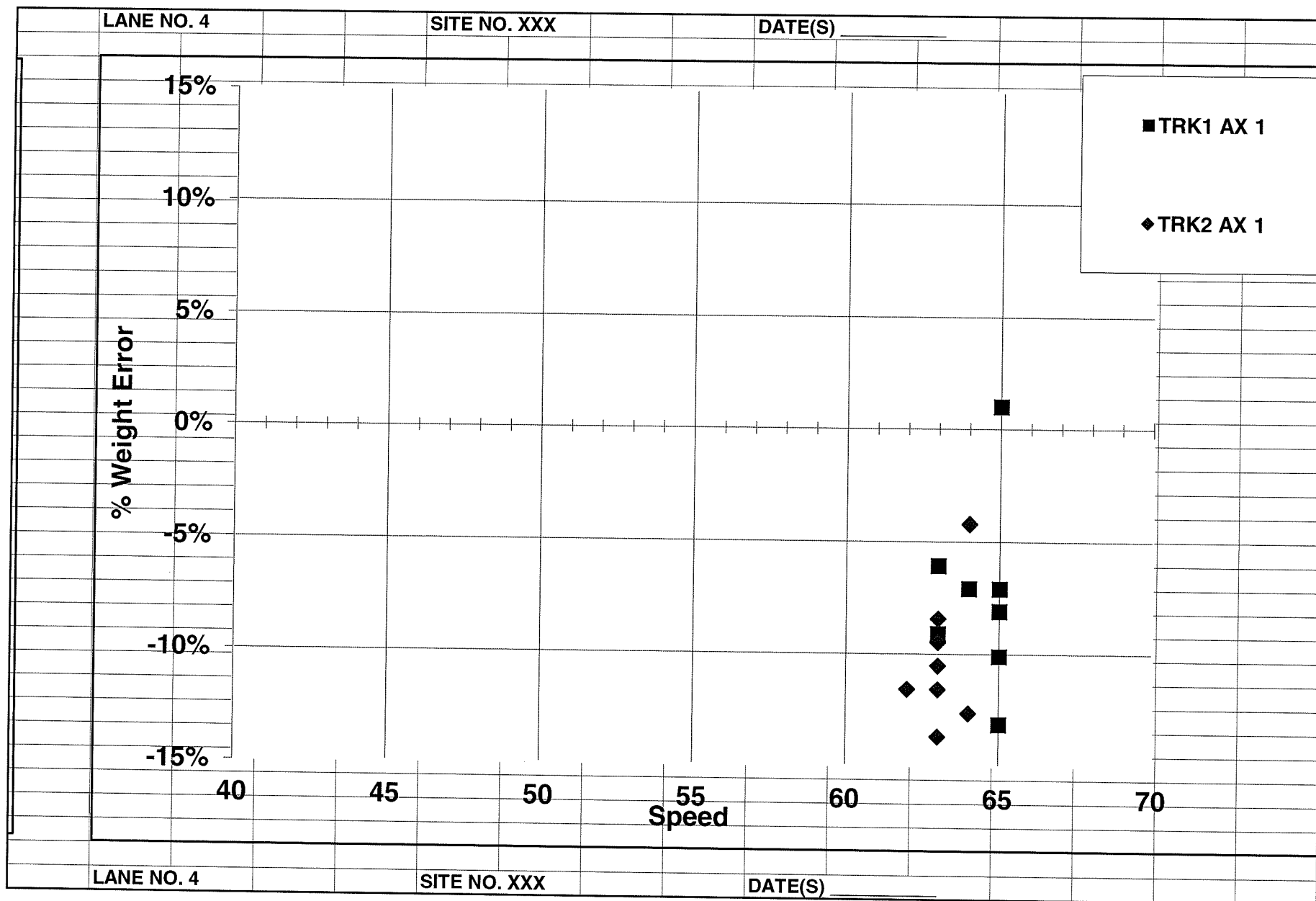
1. * DATE OF CALIBRATION (MONTH/DAY/YEAR) [12 / 12 / 2011]
2. * TYPE OF EQUIPMENT CALIBRATED ☒ WIM ☐ CLASSIFIER ☐ BOTH
3. * REASON FOR CALIBRATION
☒ REGULARLY SCHEDULED SITE VISIT ☐ RESEARCH
☐ EQUIPMENT REPLACEMENT ☐ TRAINING
☐ DATA TRIGGERED SYSTEM REVISION ☐ NEW EQUIPMENT INSTALLATION
☐ OTHER (SPECIFY)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

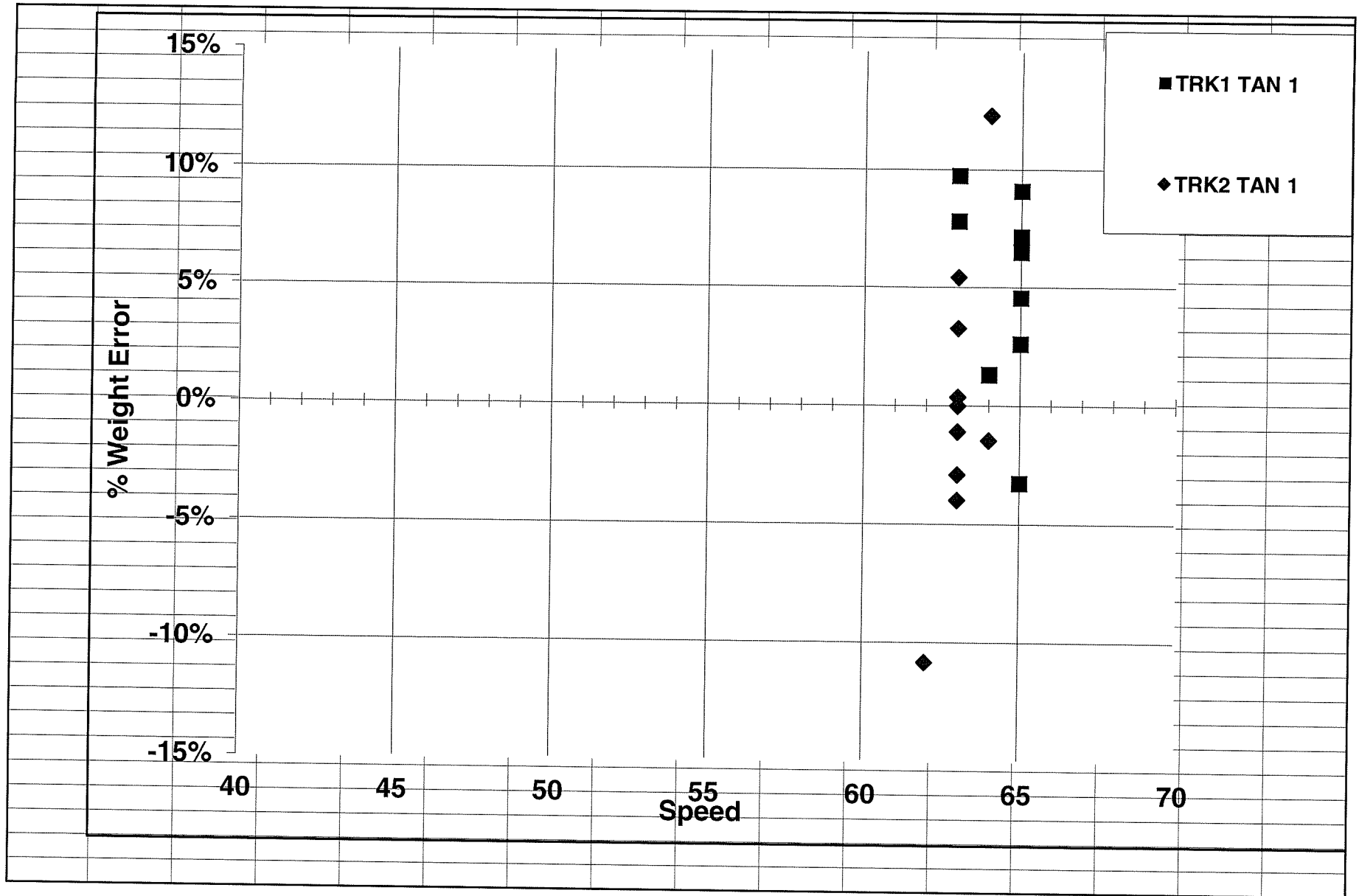
WIM SYSTEM CALIBRATION SPECIFICS**

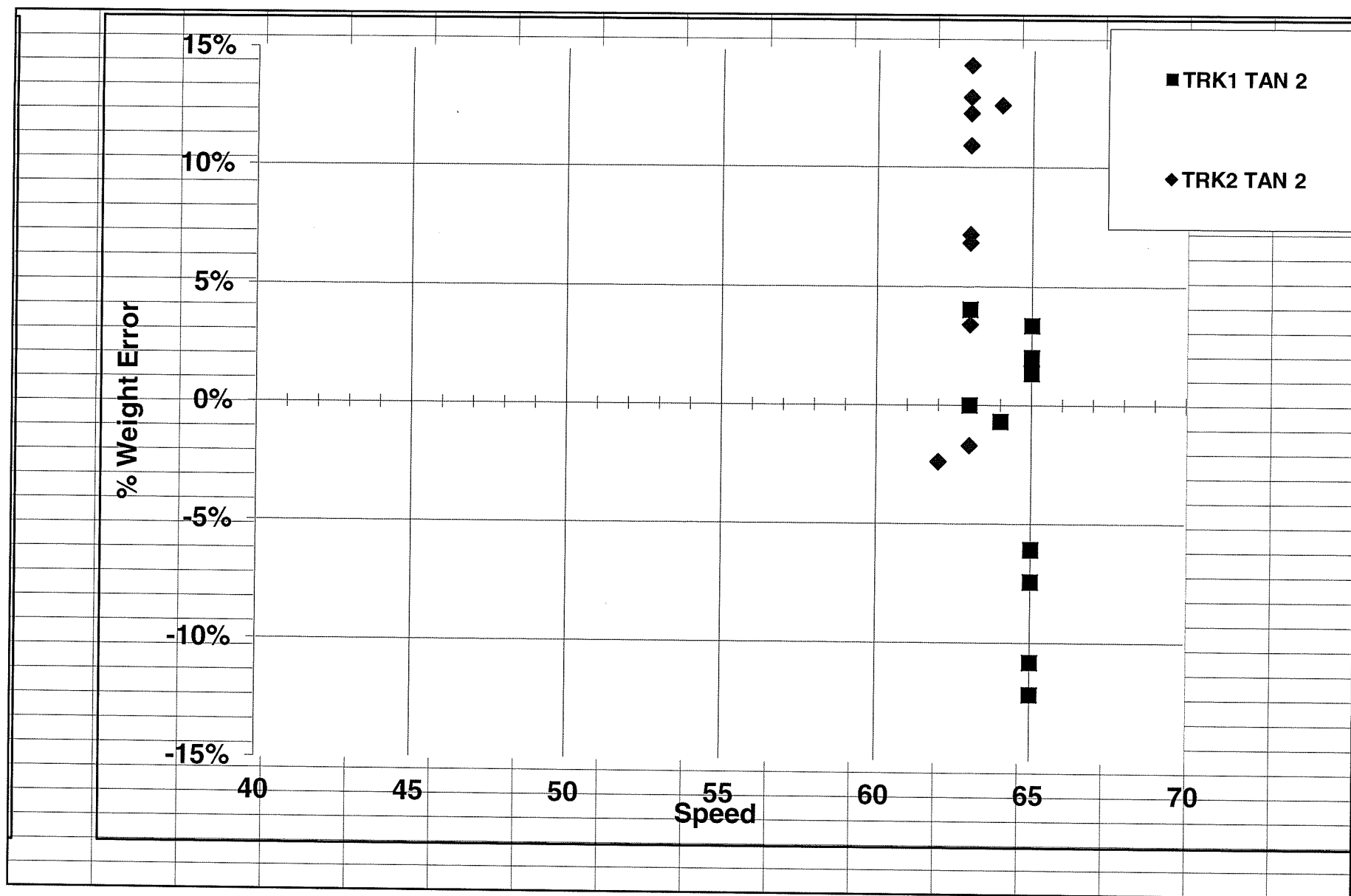
- 6.**CALIBRATION TECHNIQUE USED:
☒ TRAFFIC STREAM -- ☐ STATIC SCALE (Y/N) ☒ TEST TRUCKS
☐ NUMBER OF TRUCKS COMPARED ☐ 2 NUMBER OF TEST TRUCKS USED
☐ 11 PASSES PER TRUCK
- | TRUCK | TYPE | SUSPENSION |
|-------|------|------------|
| 1 | 3S2 | Qir |
| 2 | 3S2 | Qir |
| 3 | | |
- TYPE PER FHWA 13 BIN 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 0.5% STANDARD DEVIATION 5% 4.3
DYNAMIC AND STATIC SINGLE AXLES --- STANDARD DEVIATION ---
DYNAMIC AND STATIC DOUBLE AXLES 2.7% STANDARD DEVIATION 7% 7.0
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: The mean front axle of 3S2's
is 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, 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	0.5%	-9.7%	2.7%	2.6%	2.7%	-1.5%	-3.1%	-0.5%	-2.6%	-3.5%	-0.2	-0.1	-0.1	-0.1	-0.1
StdDev	4.3%	5.0%	5.5%	8.3%	7.0%	0.7%	3.7%	0.7%	3.3%	1.5%	0.0	0.1	0.1	0.0	0.1
1.96xStd	8.5%	9.8%	10.8%	16.2%	13.6%					2.9%					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									
40.1	47.9		9.9	15.4	14.8		15.2	4.6	19.6	4.3					129126		12-12-11		
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	307	65	45.6	40.4	8.9		8.7		7.8		7.9		7.1		14.9	4.4	19.5	4.0	
2	454	65	45.8	40.1	10.0		8.3		8.5		6.5		6.7		14.9	4.2	19.4	4.1	
3	8	63	45.3	41.4	9.3		8.3		8.3		8.3		7.1		14.8	4.3	19.4	4.0	
4	155	63	45.9	40.8	9.0		8.4		8.5		7.6		7.2		14.8	4.3	19.4	4.0	
5	276	65	45.5	40.6	9.1		8.1		8.3		7.7		7.4		14.9	4.3	19.4	4.1	
6	414	65	46.2	39.4	9.2		8.3		8.2		6.7		7.0		14.9	4.4	19.3	4.1	
7	539	65	46.5	38.0	8.1		8.1		8.0		6.6		7.1		15.0	4.3	19.5	4.1	
8	85	65	46.0	40.3	8.6		8.7		7.7		8.1		7.2		15.0	4.3	19.5	4.1	
9	205	64	45.8	39.6	9.2		7.5		8.1		7.5		7.2		14.8	4.2	19.3	4.0	
10	340	65	46.2	38.8	10.0		8.0		6.9		7.3		6.6		14.9	4.3	19.3	4.0	
11	481	65	45.5	36.7	7.9		7.8		8.0		7.2		5.8		14.9	4.4	19.4	4.1	
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Mean			45.8	39.6	9.0	#DIV/0!	8.2	#DIV/0!	8.0	#DIV/0!	7.4	#DIV/0!	6.9	#DIV/0!	14.9	4.3	19.4	4.1	
Std Dev			0.4	1.4	0.7	#DIV/0!	0.4	#DIV/0!	0.5	#DIV/0!	0.6	#DIV/0!	0.4	#DIV/0!	0.1	0.1	0.1	0.1	

LANE NO. 4		TRUCK NO. 1		SITE NO. XXX		DATE										
								</								

LANE NO. 4

TRUCK NO. 1

SITE NO. XXX

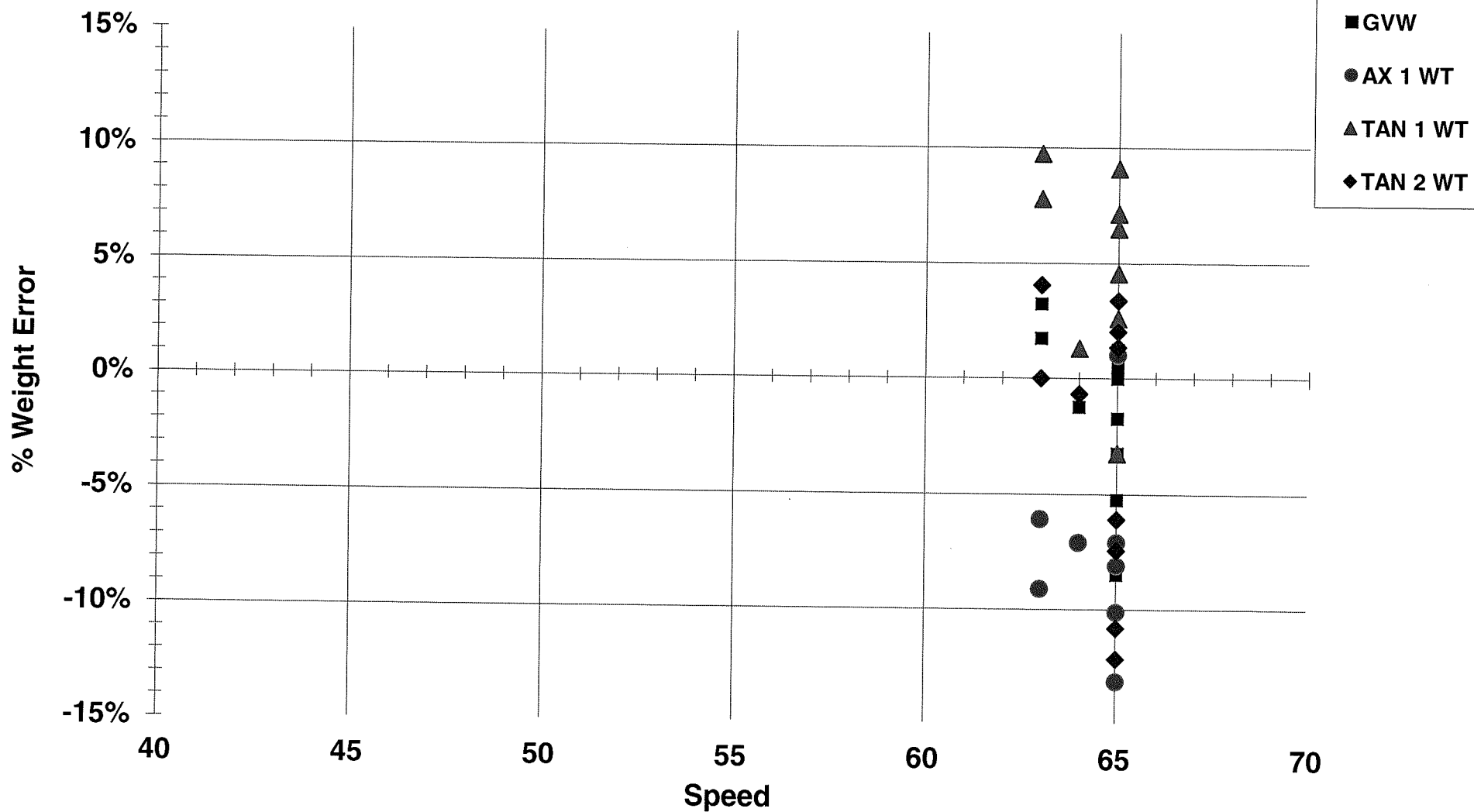
DATE _____

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	-1.1%	-8.8%	5.4%	-3.1%	1.2%	-2.0%	-6.3%	-1.0%	-5.7%	-4.3%	-0.3
StdDev	3.4%	6.7%	3.8%	5.9%	6.5%	0.5%	1.5%	0.4%	1.2%	0.8%	0.1
1.96xStdDev	6.7%	13.1%	7.5%	11.5%	12.7%						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													
66.5	46.5	9.5	27.7	29.3	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	314	63	45.0	69.8	8.7		13.7		14.0		16.6		16.9		11.6	4.3	20.1	4.0			
2	459	64	45.8	70.1	9.1		14.6		12.7		17.1		16.6		11.6	4.3	20.2	3.9			
3	11	63	44.7	64.3	8.5		13.1		13.8		12.5		16.3		11.6	4.2	20.1	3.9			
4	161	63	44.9	69.4	8.5		14.8		13.0		16.8		16.3		11.6	4.3	20.1	4.0			
5	296	62	45.7	61.8	8.4		12.7		12.0		13.6		15.0		11.5	4.5	19.9	3.9			
6	421	63	45.6	68.8	8.6		13.7		14.0		16.3		16.2		11.6	4.3	20.2	3.9			
7	562	63	45.8	66.0	8.2		13.8		12.8		16.0		15.3		11.6	4.3	20.2	3.9			
8	112	63	46.2	70.5	8.4		14.1		15.1		15.2		17.7		11.6	4.3	20.2	3.9			
9	260	64	43.6	72.4	8.3		13.9		17.2		17.0		16.0		11.6	4.3	20.2	3.9			
10	383	63	44.6	66.2	8.4		13.8		13.6		15.0		15.3		11.6	4.3	20.0	3.9			
11	535	63	45.6	68.4	8.4		14.6		14.0		15.4		16.0		11.6	4.3	20.0	3.9			
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Mean			45.2	68.0	8.5	#DIV/0!	13.9	#DIV/0!	13.8	#DIV/0!	15.6	#DIV/0!	16.1	#DIV/0!	11.6	4.3	20.1	3.9			
Std Dev			0.7	3.1	0.2	#DIV/0!	0.6	#DIV/0!	1.4	#DIV/0!	1.5	#DIV/0!	0.8	#DIV/0!	0.0	0.1	0.1	0.0			

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	5.0%	-8.4%	0.0%	14.3%		-0.9%	0.0%	0.0%	2.6%	-3.2%	-0.1	0.0	0.0	0.1		
2	5.4%	-4.2%	-1.4%	15.0%		-0.9%	0.0%	0.5%	0.0%	-1.5%	-0.1	0.0	0.1	0.0		
3	-3.3%	-10.5%	-2.9%	-1.7%		-0.9%	-2.3%	0.0%	0.0%	-3.9%	-0.1	-0.1	0.0	0.0		
4	4.4%	-10.5%	0.4%	13.0%		-0.9%	0.0%	0.0%	2.6%	-3.4%	-0.1	0.0	0.0	0.1		
5	-7.1%	-11.6%	-10.8%	-2.4%		-1.7%	4.7%	-1.0%	0.0%	-1.7%	-0.2	0.2	-0.2	0.0		
6	3.5%	-9.5%	0.0%	10.9%		-0.9%	0.0%	0.5%	0.0%	-1.9%	-0.1	0.0	0.1	0.0		
7	-0.8%	-13.7%	-4.0%	6.8%		-0.9%	0.0%	0.5%	0.0%	-1.5%	-0.1	0.0	0.1	0.0		
8	6.0%	-11.6%	5.4%	12.3%		-0.9%	0.0%	0.5%	0.0%	-0.6%	-0.1	0.0	0.1	0.0		
9	8.9%	-12.6%	12.3%	12.6%		-0.9%	0.0%	0.5%	0.0%	-6.2%	-0.1	0.0	0.1	0.0		
10	-0.5%	-11.6%	-1.1%	3.4%		-0.9%	0.0%	-0.5%	0.0%	-4.1%	-0.1	0.0	-0.1	0.0		
11	2.9%	-11.6%	3.2%	7.2%		-0.9%	0.0%	-0.5%	0.0%	-1.9%	-0.1	0.0	-0.1	0.0		
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Mean	2.2%	-10.5%	0.1%	8.3%	4.2%	-0.9%	0.2%	0.0%	0.5%	-2.7%	-0.1	0.0	0.0	0.0	0.0	
StdDev	4.6%	2.5%	5.8%	6.2%	7.2%	0.3%	1.6%	0.5%	1.0%	1.6%	0.0	0.1	0.1	0.0	0.1	
1.96xStdDev	9.1%	5.0%	11.3%	12.2%	14.1%						0.1	0.1	0.2	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	2.2%	-10.5%	0.1%	8.3%	4.2%	-0.9%	0.2%	0.0%	0.5%	-2.7%	0.0
StdDev	4.6%	2.5%	5.8%	6.2%	7.2%	0.3%	1.6%	0.5%	1.0%	1.6%	0.1
1.96xStdDev	9.1%	5.0%	11.3%	12.2%	14.1%						0.2

