

FORM 15, ATTACHMENT A
Summary of WIM Calibration Data from Multiple States (NYC, MD, WI & IN)
PROPOSAL TO AMEND NIST HANDBOOK 44, SECTION 2.25

A-1. New York City

Table 1. Calibration Results for Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	40.9	80,257	79,080	1.49%
2	42.6	77,732	79,080	-1.70%
3	43.8	81,447	79,080	2.99%
4	14.6	77,179	79,080	-2.40%
5	16	80,207	79,080	1.43%
6	13.6	75,888	79,080	-4.04%

Table 2. Calibration Results for Class 9 Semi-Trailer Truck with a Split Tandem

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	38.4	74,647	73,681	1.31%
2	39.8	72,745	73,681	-1.27%
3	41.4	73,914	73,681	0.32%
4	14.2	76,904	73,681	4.37%
5	14.9	74,490	73,681	1.10%
6	40.8	71,554	73,681	-2.89%

Table 3. Calibration Results for Class 6 Single Unit Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	42.3	72,034	71,640	0.55%
2	42.4	71,438	71,640	-0.28%
3	43.2	71,577	71,640	-0.09%
4	16	71,596	71,640	-0.06%
5	14.6	71,678	71,640	0.05%
6	43.1	71,517	71,640	-0.17%

Table 4. Calibration Results for Class 5 Single Unit Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	42.4	32,777	32,580	0.60%
2	39.3	33,225	32,580	1.98%
3	45.3	33,491	32,580	2.80%
4	17.4	32,581	32,580	0.00%
5	38.9	31,957	32,580	-1.91%
6	40.9	31,369	32,580	-3.72%
7	42.8	32,758	32,580	0.55%

A-2. Maryland

Table 5. Calibration Results at US-50 East Lane 2 using Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	51.4	68,720	69,140	-0.61%
2	57.8	67,090	69,140	-2.96%
3	60.4	66,420	69,140	-3.93%
4	57.6	67,160	69,140	-2.86%
5	62.0	68,450	69,140	-1.00%
6	55.5	66,650	69,140	-3.60%
7	58.7	66,770	69,140	-3.43%
8	56.3	66,980	69,140	-3.12%
9	51.1	66,880	69,140	-3.27%
10	58.1	66,900	69,140	-3.24%

Table 6. Calibration Results at I-695S Lane 1 using Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	56.5	75,710	75,920	-0.28%
2	53.5	78,140	75,920	2.92%
3	57.4	76,940	75,920	1.34%
4	46.9	78,800	75,920	3.79%
5	55.9	76,040	75,920	0.16%
6	57.1	76,130	75,920	0.28%
7	54.8	75,350	75,920	-0.75%
8	56.5	76,060	75,920	0.18%
9	52.7	75,590	75,920	-0.43%

Table 7. Calibration Results at I-695S Lane 2 using Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	58.7	77,490	75,920	2.07%
2	57.6	78,440	75,920	3.32%
3	41.7	79,720	75,920	5.01%
4	59.5	78,380	75,920	3.24%
5	58.9	78,180	75,920	2.98%
6	58.5	77,890	75,920	2.59%
7	60.2	75,350	75,920	-0.75%
8	60	77,420	75,920	1.98%
9	59.7	76,950	75,920	1.36%
10	59.7	77,830	75,920	2.52%

Table 8. Calibration Results at I-95S Lane 1 using Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	58.5	77,900	76,460	1.88%
2	58.0	77,750	76,460	1.69%
3	57.8	77,330	76,460	1.14%
4	51.6	78,700	76,460	2.93%
5	57.4	78,080	76,460	2.12%
6	58.1	76,060	76,460	-0.52%
7	58.7	79,340	76,460	3.77%
8	58.7	77,640	76,460	1.54%
9	56.4	76,370	76,460	-0.12%
10	55.7	77,070	76,460	0.80%

Table 9. Calibration Results at I-95S Lane 2 using Class 9, 3S2 Semi-Trailer Truck

Run	Speed (mph)	Measured GVW (lbs.)	Target GVW (lbs.)	Error
1	57.9	74970	76,460	-1.95%
2	62.0	79700	76,460	4.24%
3	62.1	75700	76,460	-0.99%
4	65.1	79940	76,460	4.55%
5	58.9	77670	76,460	1.58%
6	58.5	77600	76,460	1.49%
7	60.4	77180	76,460	0.94%
8	61.9	77670	76,460	1.58%
9	62.0	77040	76,460	0.76%
10	59.1	77850	76,460	1.82%

A-3. Wisconsin

Table 10. Calibration Results Summary for Mainline

Start	End	No. of Runs	Criteria	% Compliance
1/14/21	1/21/21	154	Single 15%	100%
		302	Tandem 10%	98%
		181	GVW 6%	98%
1/28/21	2/4/21	170	Single 15%	99%
		335	Tandem 10%	97%
		195	GVW 6%	95%
6/24/21	7/1/21	115	Single 15%	100%
		222	Tandem 10%	100%
		135	GVW 6%	100%
7/8/21	7/15/21	449	Single 15%	100%
		884	Tandem 10%	99%
		498	GVW 6%	99%
7/15/21	7/22/21	145	Single 15%	99%
		277	Tandem 10%	98%
		167	GVW 6%	98%
7/22/21	7/29/21	190	Single 15%	100%
		371	Tandem 10%	95%
		206	GVW 6%	95%

Table 11. Calibration Results Summary for Ramp

Start	End	No. of Runs	Criteria	% Compliance
1/14/21	1/21/21	134	Single 15%	98%
		267	Tandem 10%	100%
		160	GVW 6%	99%
1/28/21	2/4/21	166	Single 15%	100%
		327	Tandem 10%	99%
		193	GVW 6%	95%
6/24/21	7/1/21	112	Single 15%	100%
		216	Tandem 10%	100%
		132	GVW 6%	100%
7/8/21	7/15/21	390	Single 15%	100%
		764	Tandem 10%	100%
		434	GVW 6%	100%
7/15/21	7/22/21	128	Single 15%	98%
		243	Tandem 10%	100%
		144	GVW 6%	98%
7/22/21	7/29/21	164	Single 15%	100%
		319	Tandem 10%	100%
		184	GVW 6%	98%

A-4. Indiana

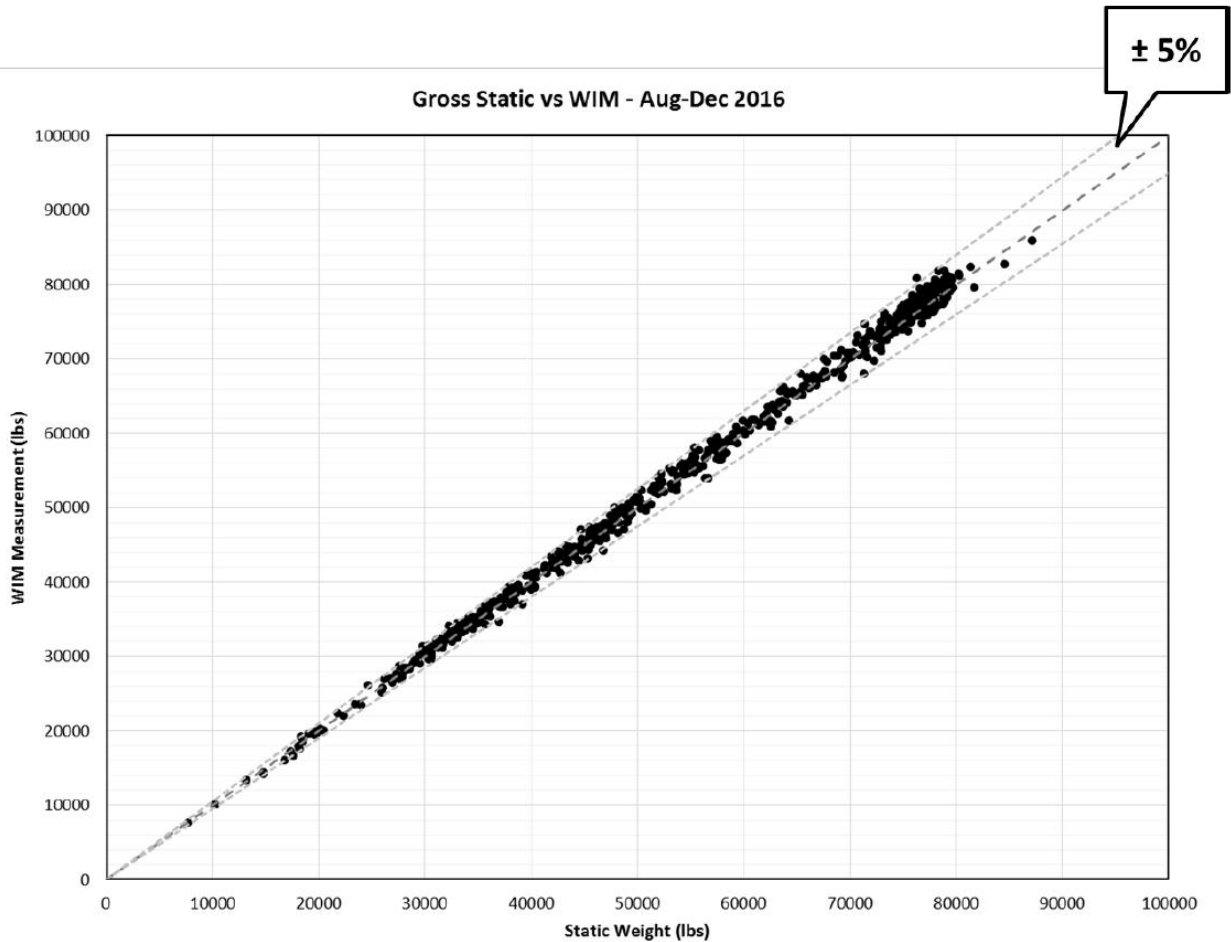


Figure 1. Comparison of WIM Weights with Indiana State Police Scale Weights ¹

¹ <https://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=3195&context=jtrp>

BQE Calibration Results and Summary

- Four (4) Quartz sensors were installed in the center lane of the BQE Corridor in 2019.
- Five trucks (two Class 9 trucks – 3S2 & 3S2 Split, one Class 6 truck, and two Class 5 trucks) were used for calibration tests I.
- Quartz sensors were able to comply with accuracy requirements for all standards (ASTM, NIST, OIML, and COST).
- The maximum error for GVW is 4.4% which meets the maximum tolerance of 6%. The single axle and tandem axle also meet the tolerance of 15% and 10%, respectively.
- If other types of trucks not covered by this test were employed, the accuracy for other trucks would be improved.
- Accuracy varies depending on truck speed. However, the speed variance could be eliminated by the optimization process.
- Although the site included severe rutting, Quartz sensors met the accuracy and compliance for ASTM E1318 Type III.
- Calibration factors drifted slightly after the initial calibration. Routine calibration is highly recommended every 6 months.

Standards	GVW	Single	Tandem
Quartz Results (max error, %)	4.4	12.4	8.0
Number of Test	30	30	42
ASTM Type III (%)	6	15	10
ASTM Type III Compliance (%)	100	100	100
NIST Class A (%)	10	20	15
OIML F10 (%)	5	8	8
COST A(5) (%)	5	8	7



09/14/2022 I-695W Lane 1 (Right lane)

Truck weight: **75920**

Span before Calibration:

C Num 1:	3F60814768496A82	C Num 3:	3F5BBDEBDE5FF22E
Span 1:	0.00201477000000	Span 3:	0.00169323000000
C Num 2:	3F5B1849CDD45EBC	C Num 4:	3F60A5C4F613C300
Span 2:	0.00165374000000	Span 4:	0.00203217000000

Test truck pass:

	GROSS	1	2	3	4	5
L	35020	5810	6990	7120	6570	8530
	0	0	0	0	0	0
		80.5	80.5	80.5	80.1	80.6
		21.2	4.7	31.9	4.4	
R	39410	6020	8240	7570	9930	7650
	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0
		21.2	4.7	31.9	4.4	

After calculate constants:

Setup	Calibration	Limits	Diagnostics																												
<table><tr><td>Parameter</td><td>Value</td></tr><tr><td>Auto-Zero Range Divisions</td><td>3</td></tr><tr><td>Division Size</td><td>10</td></tr><tr><td>Filter Range Divisions</td><td>3</td></tr><tr><td>Motion Range Divisions</td><td>3</td></tr><tr><td>Number of Samples Averaged</td><td>20</td></tr></table>		Parameter	Value	Auto-Zero Range Divisions	3	Division Size	10	Filter Range Divisions	3	Motion Range Divisions	3	Number of Samples Averaged	20	<table><tr><td>C Num 1:</td><td>3F60814768496A82</td><td>C Num 3:</td><td>3F5AB98C5A4E7948</td></tr><tr><td>Span 1:</td><td>0.00201477000000</td><td>Span 3:</td><td>0.00163115221333</td></tr><tr><td>C Num 2:</td><td>3F5B1849CDD45EBC</td><td>C Num 4:</td><td>3F620B70304832C0</td></tr><tr><td>Span 2:</td><td>0.00165374000000</td><td>Span 4:</td><td>0.00220271980129</td></tr></table>		C Num 1:	3F60814768496A82	C Num 3:	3F5AB98C5A4E7948	Span 1:	0.00201477000000	Span 3:	0.00163115221333	C Num 2:	3F5B1849CDD45EBC	C Num 4:	3F620B70304832C0	Span 2:	0.00165374000000	Span 4:	0.00220271980129
Parameter	Value																														
Auto-Zero Range Divisions	3																														
Division Size	10																														
Filter Range Divisions	3																														
Motion Range Divisions	3																														
Number of Samples Averaged	20																														
C Num 1:	3F60814768496A82	C Num 3:	3F5AB98C5A4E7948																												
Span 1:	0.00201477000000	Span 3:	0.00163115221333																												
C Num 2:	3F5B1849CDD45EBC	C Num 4:	3F620B70304832C0																												
Span 2:	0.00165374000000	Span 4:	0.00220271980129																												
Single Lane		Capture to file...																													
Start Capture		End Capture																													
Capture on Next Loop		Calculate Constants																													
Percent Adjust: 0.5																															
GROSS		1		2		3		4		5		6		7		8		9		10											
L	37963	6298	7577	7721	7123	9244																									
	0	0	0	0	0	0																									
		80.5	80.5	80.5	80.1	80.6																									
		21.2	4.7	31.9	4.4																										
R	37962	5803	7939	7290	9561	7369																									
	0	0	0	0	0	0																									
		0.0	0.0	0.0	0.0	0.0																									
		21.2	4.7	31.9	4.4																										

Test 1 – Gross Weight -0.29%Vehicle ID: [401430](#) Lane: 1 09/14/2022 11:56:40 75700 lb 56.5 mph 62 ft Class 9

Spacing: 4.4 31.8 4.7 21.1

Axles: ● ● ● ● ●

Wt: 16310 17110 15150 15420 11720

**Test 2 – Gross Weight 2.92%**Vehicle ID: [401545](#) Lane: 1 09/14/2022 12:06:59 78140 lb 53.5 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●

Wt: 18030 16200 16110 16590 11210

**Test 3 – Gross Weight 1.34%**Vehicle ID: [401661](#) Lane: 1 09/14/2022 12:16:44 76940 lb 57.4 mph 62 ft Class 9

Spacing: 4.4 31.9 4.8 21.2

Axles: ● ● ● ● ●

Wt: 16790 16370 15690 16360 11730



Test 4 – Gross Weight 3.79%Vehicle ID: [401749](#) Lane: 1 09/14/2022 12:27:24 78800 lb 46.9 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●

Wt: 17730 17270 16400 15890 11510

**Test 5 – Gross Weight 0.16%**Vehicle ID: [401865](#) Lane: 1 09/14/2022 12:36:54 76040 lb 55.9 mph 62 ft Class 9

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●

Wt: 16650 16590 15150 15770 11880

**Test 6 – Gross Weight 0.26%**Vehicle ID: [401974](#) Lane: 1 09/14/2022 12:46:11 76120 lb 57.1 mph 62 ft Class 9

Spacing: 4.3 31.8 4.7 21.2

Axles: ● ● ● ● ●

Wt: 16390 16930 15250 15690 11870



Test 7 – Gross Weight -0.75%

Vehicle ID: [402088](#) Lane: 1 09/14/2022 12:57:00 75350 lb 54.8 mph 62 ft Class 9
Spacing: 4.4 31.9 4.7 21.2
Axles: ● ● ● ● ●
Wt: 16490 16430 15170 15610 11650



Test 8 – Gross Weight 0.18%

Vehicle ID: [402197](#) Lane: 1 09/14/2022 13:06:16 76060 lb 56.5 mph 62 ft Class 9
Spacing: 4.4 31.8 4.7 21.1
Axles: ● ● ● ● ●
Wt: 16170 17670 15110 15310 11800



Test 9 – Gross Weight -0.45%

Vehicle ID: [402310](#) Lane: 1 09/14/2022 13:16:16 75580 lb 52.7 mph 61 ft Class 9
Spacing: 4.3 31.9 4.7 21.0
Axles: ● ● ● ● ●
Wt: 17070 15810 15440 15650 11620



Test 10 – Gross Weight %

Vehicle ID: [402877](#) Lane: 1 09/14/2022 14:05:15 65360 lb 53.5 mph 40 ft Class 15

Flags: Over accel *Violation*

Spacing: 4.3 31.7 4.7 0.0

Axles: ● ● ● ● ●

Wt: 16940 16710 15930 15780 0



I-695W Lane 1															Actual weight:		75920
			Spacing				Weight										
	ID	Time	Speed	Sp4	Sp3	Spc 2	Spc 1	Ax5	Ax4	Ax3	Ax2	Ax 1	Position	Gross	Err %		
1	401430	11:56:40	56.5	4.4	31.8	4.7	21.1	16310	17110	15150	15420	11720	Center	75700	-0.29		
2	401545	12:06:59	53.5	4.4	31.9	4.7	21.2	18030	16200	16110	16590	11210	Center	78140	2.92		
3	401661	12:16:44	57.4	4.4	31.9	4.8	21.2	16790	16370	15690	16360	11730	Center	76940	1.34		
4	401749	12:27:24	46.9	4.4	31.9	4.7	21.2	17730	17270	16400	15890	11510	Center	78800	3.79		
5	401865	12:36:54	55.9	4.4	31.9	4.7	21.2	16650	16590	15150	15770	11880	Center	76040	0.16		
6	401974	12:46:11	57.1	4.3	31.8	4.7	21.2	16390	16930	15250	15690	11870	Center	76120	0.26		
7	402088	12:57:00	54.8	4.4	31.9	4.7	21.2	16490	16430	15170	15610	11650	Center	75350	-0.75		
8	402197	0:00:00	56.5	4.4	31.8	4.7	21.1	16170	17670	15110	15310	11800	Center	76060	0.18		
9	402310	13:16:16	52.5	4.3	31.9	4.7	21.0	17070	15810	15440	15650	11620	Center	75580	-0.45		
10	402877	14:05:15	53.5	4.3	31.7	4.7	0.0	16940	16710	15930	15780	0	Center				
											No data for Ax1						
														Min	-0.75		
														Max	3.79		
														Avg	0.80		
														Range	4.54		
														StdDev	1.58		

Reduce span by 2.80 percent for average to be approximately minus two percent.

Before:

C Num 1:	<input type="text" value="3F60814768496A82"/>	C Num 3:	<input type="text" value="3F5AB98C5A4E7948"/>
Span 1:	<input type="text" value="0.00201477000000"/>	Span 3:	<input type="text" value="0.00163115221333"/>
C Num 2:	<input type="text" value="3F5B1849CDD45EBC"/>	C Num 4:	<input type="text" value="3F620B70304832C0"/>
Span 2:	<input type="text" value="0.00165374000000"/>	Span 4:	<input type="text" value="0.00220271980129"/>

New span values:

C Num 1:	<input type="text" value="3F60814768496A82"/>	C Num 3:	<input type="text" value="3F5AB98C5A4E7948"/>
Span 1:	<input type="text" value="0.00195836"/>	Span 3:	<input type="text" value="0.00158548"/>
C Num 2:	<input type="text" value="3F5B1849CDD45EBC"/>	C Num 4:	<input type="text" value="3F620B70304832C0"/>
Span 2:	<input type="text" value="0.00160744"/>	Span 4:	<input type="text" value="0.00214104"/>

Static Weight Pre Calibration:

TICKET NUMBER 1033122256516

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 9-13-22

SCALE: 331

LOCATION: TA BALTIMORE

17:46

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11620 lb
DRIVE AXLE	30920 lb
TRAILER AXLE	33380 lb
* GROSS WEIGHT	75920 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING

WEIGH NUMBER 6516

FEE \$13.00

WEIGHMASTER OR WEIGHER SIGNATURE *[Signature]*

TRACTOR # 550 TRAILER # 0

TICKET # OF FULL WEIGHT (IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3081 9/22

Static Weight Post Calibration:

TICKET NUMBER 1033122257669

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 9-14-22

SCALE: 331

LOCATION: TA BALTIMORE

16:50

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	11420 lb
DRIVE AXLE	30780 lb
TRAILER AXLE	33280 lb
* GROSS WEIGHT	75480 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING

WEIGH NUMBER 6516

FEE \$3.50

WEIGHMASTER OR WEIGHER SIGNATURE *[Signature]*

TRACTOR # 550 TRAILER # 0

TICKET # OF FULL WEIGHT (IF REWEIGH) 1033122256516

CUSTOMER COPY

© CAT Scale® Reg 3081 9/22

09/14/2022 I-695W Lane 2 (Left Lane)

Truck weight: 75920

Span before Calibration:

C Num 1:	3F60814768496A82	C Num 3:	3F5AB98C5A4E7948
Span 1:	0.00201477000000	Span 3:	0.00163115221333
C Num 2:	3F5B1849CDD45EBC	C Num 4:	3F620B70304832C0
Span 2:	0.00165374000000	Span 4:	0.00220271980129

Test truck pass:

	GROSS	1	2	3	4	5
L	38280	5740	7910	7850	7570	9210
	39700	5801	7930	8099	7920	9950
		87.4	87.4	87.4	87.4	87.2
		21.2	4.7	31.8	4.3	
R	35910	5210	7770	7560	7190	8180
	35164	5279	7562	7362	7467	7494
		87.0	86.8	86.6	86.0	86.8
		21.2	4.7	31.7	4.4	

After calculate constants:

Parameter	Value	C Num 1:	3F60D5C32259171A	C Num 3:	3F5C917569738B4B						
Auto-Zero Range Divisions	3	Span 1:	0.00205505478042	Span 3:	0.00174366441734						
Division Size	10	C Num 2:	3F5BF98AF6DE4A90	C Num 4:	3F603BA005839C1C						
Filter Range Divisions	3	Span 2:	0.00170744486556	Span 4:	0.00198155645568						
Motion Range Divisions	1										
Number of Samples Averaged	15										
Single Lane		Capture to file...									
Start Capture		End Capture		Capture on Next Loop							
Calculate Constants		Percent Adjust: 0.5									
	GROSS	1	2	3	4	5	6	7	8	9	10
L	37887	5828	8106	7820	7426	8707					
	39022	5702	7794	7961	7785	9780					
		87.4	87.4	87.4	87.4	87.2					
		21.2	4.7	31.8	4.3						
R	38160	5371	8299	8074	7186	9230					
	36502	5480	7850	7642	7751	7779					
		87.0	86.8	86.6	86.0	86.8					
		21.2	4.7	31.7	4.4						

Test 1 – Gross Weight 2.05%

Vehicle ID: [403453](#) Lane: 2 09/14/2022 14:48:09 77480 lb 58.7 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.1

Axles: ● ● ● ● ●
Wt: 18070 16560 15950 16000 10910



Test 2 – Gross Weight 3.32%

Vehicle ID: [403599](#) Lane: 2 09/14/2022 14:57:28 78440 lb 57.6 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●
Wt: 17200 17820 15760 16230 11430



Test 3 – Gross Weight 4.99%

Vehicle ID: [403752](#) Lane: 2 09/14/2022 15:07:21 79710 lb 41.7 mph 61 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.3 31.8 4.7 21.1

Axles: ● ● ● ● ●
Wt: 18210 17380 16640 16640 10850



Test 4 – Gross Weight 3.24%Vehicle ID: [403937](#) Lane: 2 09/14/2022 15:18:16 78380 lb 59.5 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.8 4.7 21.2

Axles: ● ● ● ● ●
Wt: 17650 16960 15980 16350 11440**Test 5 – Gross Weight 2.98%**Vehicle ID: [404116](#) Lane: 2 09/14/2022 15:27:37 78180 lb 58.9 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●
Wt: 17840 17150 15720 16040 11430**Test 6 – Gross Weight 2.59%**Vehicle ID: [404269](#) Lane: 2 09/14/2022 15:37:21 77890 lb 58.5 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●
Wt: 17840 17060 15760 15850 11380

Test 7 – Gross Weight -0.75%

Vehicle ID: [404424](#) Lane: 2 09/14/2022 15:46:30 75350 lb 60.2 mph 62 ft Class 9
Spacing: 4.4 31.9 4.7 21.2
Axles: ● ● ● ● ●
Wt: 17450 15480 15590 15420 11410



Test 8 – Gross Weight 1.98%

Vehicle ID: [404565](#) Lane: 2 09/14/2022 15:55:48 77420 lb 60.0 mph 62 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.3 31.9 4.7 21.2
Axles: ● ● ● ● ●
Wt: 17690 16850 15650 15830 11400



Test 9 – Gross Weight 1.37%

Vehicle ID: [404732](#) Lane: 2 09/14/2022 16:05:33 76960 lb 59.7 mph 62 ft Class 9
Spacing: 4.4 31.9 4.8 21.3
Axles: ● ● ● ● ●
Wt: 17220 16730 15760 15870 11370



Test 10 – Gross Weight 2.52%

Vehicle ID: [405214](#) Lane: 2 09/14/2022 16:28:25 77830 lb 59.7 mph 62 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.4 31.9 4.7 21.2

Axles: ● ● ● ● ●
Wt: 17820 17390 15930 15550 11140



I-695W Lane 2 (Left Lane)														Actual weight:		75920
		Spacing						Weight								
	ID	Time	Speed	Sp4	Sp3	Spc 2	Spc 1	Ax5	Ax4	Ax3	Ax2	Ax 1	Position	Gross	Err %	
1	403453	14:48:09	58.7	4.4	31.9	4.7	21.1	18070	16560	15950	16000	10910	Center	77480	2.05	
2	403599	14:57:28	57.6	4.4	31.9	4.7	21.2	17200	17820	15760	16230	11430	Center	78440	3.32	
3	403752	15:07:21	41.7	4.3	31.8	4.7	21.1	18210	17380	16640	16640	10850	Center	79710	4.99	
4	403937	15:18:16	59.5	4.4	31.8	4.7	21.2	17650	16960	15980	16350	11440	Center	78380	3.24	
5	404116	16:29:09	58.9	4.4	31.9	4.7	21.2	17840	17150	15720	16040	11430	Center	78180	2.98	
6	404269	15:37:21	58.5	4.4	31.9	4.7	21.2	17840	17060	15760	15850	11380	Center	77890	2.59	
7	404424	15:46:30	60.2	4.4	31.9	4.7	21.2	17450	15480	15590	15420	11410	Center	75350	-0.75	
8	404565	15:55:48	60.0	4.3	31.9	4.7	21.2	17690	16850	15650	15830	11400	Left	77420	1.98	
9	404732	16:06:33	59.7	4.4	31.9	4.8	21.3	17220	16730	15760	15870	11370	Left	76960	1.37	
10	405214	16:28:25	59.7	4.4	31.9	4.7	21.2	17820	17390	15930	15550	11140	Center	77830	2.52	
															Min	-0.75
															Max	4.99
															Avg	2.43
															Range	5.74
															StdDev	1.49

Reduce span by 4.4 percent for average to be approximately minus two percent.

Before:

C Num 1:	<input type="text" value="3F60D5C32259171A"/>	C Num 3:	<input type="text" value="3F5C917569738B4B"/>
Span 1:	<input type="text" value="0.00205505478042"/>	Span 3:	<input type="text" value="0.00174366441734"/>
C Num 2:	<input type="text" value="3F5BF98AF6DE4A90"/>	C Num 4:	<input type="text" value="3F603BA005839C1C"/>
Span 2:	<input type="text" value="0.00170744486556"/>	Span 4:	<input type="text" value="0.00198155645568"/>

New span values:

C Num 1:	<input type="text" value="3F60D5C32259171A"/>	C Num 3:	<input type="text" value="3F5C917569738B4B"/>
Span 1:	<input type="text" value="0.00196463"/>	Span 3:	<input type="text" value="0.00166694"/>
C Num 2:	<input type="text" value="3F5BF98AF6DE4A90"/>	C Num 4:	<input type="text" value="3F603BA005839C1C"/>
Span 2:	<input type="text" value="0.00163232"/>	Span 4:	<input type="text" value="0.00189437"/>

Static Weight Pre Calibration:

TICKET NUMBER 1033122256516

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

DATE: 9-13-22

SCALE: 331

LOCATION: TA BALTIMORE

17:46

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

WEIGH NUMBER 6516

CUSTOMER COPY

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE	11620	1b
DRIVE AXLE	30920	1b
TRAILER AXLE	33380	1b
* GROSS WEIGHT	75920	1b

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED **FREIGHT ALL KINDS**

COMPANY **CHICKS TOWING** TRACTOR # **550** TRAILER # **0**

FEE **\$13.00** WEIGHMASTER OR WEIGH SIGNATURE *[Signature]* TICKET # OF FULL \$ WEIGH (IF REWEIGH)

© CAT Scale® Reg 3081 6/22

Static Weight Post Calibration:

TICKET NUMBER 1033122256516

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

DATE: 9-14-22

SCALE: 331

LOCATION: TA BALTIMORE

16:50

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

WEIGH NUMBER 6516

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STEER AXLE	11420	1b
DRIVE AXLE	30780	1b
TRAILER AXLE	33280	1b
* GROSS WEIGHT	75480	1b

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED **FREIGHT ALL KINDS**

COMPANY **CHICKS TOWING** TRACTOR # **550** TRAILER # **0**

FEE **\$3.50** WEIGHMASTER OR WEIGH SIGNATURE *[Signature]* TICKET # OF FULL \$ WEIGH (IF REWEIGH) **1033122256516**

© CAT Scale® Reg 3081 6/22

02/15/2019 US-50 East Lane 2 (Fast Lane)

Truck weight: 69140

Span before Calibration:

C Num 1:	3F624F0D0373A7ED	C Num 3:	3F618914663E7861
Span 1:	0.00223496000000	Span 3:	0.00214056000000
C Num 2:	3F60904608CDD9E8	C Num 4:	3F60FD5352627870
Span 2:	0.00202192000000	Span 4:	0.00207392000000

Test truck pass:

	GROSS	1	2	3	4	5
L	35920	5370	6780	6940	7960	8870
	36606	5335	7015	7324	8329	8603
		39.6	39.6	39.6	39.6	39.7
		13.9	4.3	32.5	4.1	
R	35960	4980	7470	7000	7370	9140
	36588	4731	7630	6925	7506	9796
		39.7	39.8	39.8	39.8	39.9
		13.9	4.3	32.5	4.1	

After calculate constants:

Setup	Calibration	Limits	Diagnostics							
Parameter	Value	C Num 1:	3F61FFEA31C7BC98	C Num 3:	3F5FAEEEE0FBD7A2					
Auto-Zero Range Divisions	3	Span 1:	0.00219722500901	Span 3:	0.00193379714977					
Division Size	10	C Num 2:	3F601E485568B47C	C Num 4:	3F61A9925A1645D7					
Filter Range Divisions	3	Span 2:	0.00196756484663	Span 4:	0.00215605339390					
Motion Range Divisions	3									
Number of Samples Averaged	20									
Single Lane		Capture to file...		Percent Adjust:	0.5					
Start Capture	End Capture	Capture on Next Loop	Calculate Constants							
GROSS	1	2	3	4	5	6	7	8	9	10
L	34641	5316	6431	6449	7460	8985				
	38056	5546	7293	7614	8659	8944				
		39.6	39.6	39.6	39.6	39.7				
		13.9	4.3	32.5	4.1					
R	34380	5077	7115	6885	7044	8259				
	33054	4274	6893	6256	6781	8850				
		39.7	39.8	39.8	39.8	39.9				
		13.9	4.3	32.5	4.1					

Test 1 – Gross Weight -0.61 %

Vehicle ID: [579186](#) Lane: 2 02/15/2019 14:49:42 68720 lb 61.4 mph 54 ft Class 9
Spacing: 4.1 32.5 4.3 14.0
Axles: ● ● ● ● ●
Wt: 17010 14410 13350 13790 10160



Test 2 – Gross Weight -2.96 %

Vehicle ID: [579517](#) Lane: 2 02/15/2019 14:58:31 67090 lb 57.8 mph 54 ft Class 9
Spacing: 4.1 32.5 4.3 13.9
Axles: ● ● ● ● ●
Wt: 16960 13050 13000 13780 10300



Test 3 – Gross Weight -3.92 %

Vehicle ID: [579842](#) Lane: 2 02/15/2019 15:07:14 66430 lb 60.4 mph 55 ft Class 9
Spacing: 4.1 32.6 4.3 14.0
Axles: ● ● ● ● ●
Wt: 16010 13280 13010 13730 10390



Test 4 – Gross Weight -2.88 %

Vehicle ID: [580173](#) Lane: 2 02/15/2019 15:15:38 67150 lb 57.6 mph 54 ft Class 9
Spacing: 4.1 32.4 4.3 13.9
Axles: ● ● ● ● ●
Wt: 16860 13220 13380 13540 10160



Test 5 – Gross Weight -0.98 %

Vehicle ID: [580561](#) Lane: 2 02/15/2019 15:24:46 68460 lb 62.0 mph 54 ft Class 9
Spacing: 4.1 32.4 4.3 13.9
Axles: ● ● ● ● ●
Wt: 16790 14270 13420 13880 10090



Test 6 – Gross Weight -3.50 %

Vehicle ID: [580862](#) Lane: 2 02/15/2019 15:32:35 66720 lb 55.5 mph 54 ft Class 9
Spacing: 4.1 32.4 4.3 13.9
Axles: ● ● ● ● ●
Wt: 16910 13760 12830 13410 9810



Test 7 – Gross Weight -3.43%

Vehicle ID: [581220](#) Lane: 2 02/15/2019 15:41:42 66770 lb 58.7 mph 54 ft Class 9
Spacing: 4.1 32.4 4.3 13.9
Axles: ● ● ● ● ●
Wt: 16830 13350 13110 13530 9950



Test 8 – Gross Weight -3.14 %

Vehicle ID: [581490](#) Lane: 2 02/15/2019 15:49:26 66970 lb 56.3 mph 54 ft Class 9
Spacing: 4.1 32.5 4.3 14.0
Axles: ● ● ● ● ●
Wt: 16840 13320 12950 13750 10120



Test 9 – Gross Weight -3.27 %

Vehicle ID: [581837](#) Lane: 2 02/15/2019 15:58:20 66880 lb 51.1 mph 54 ft Class 9
Spacing: 4.1 32.4 4.3 14.0
Axles: ● ● ● ● ●
Wt: 17480 13320 12960 13360 9760



Test 10 – Gross Weight -3.24 %

Vehicle ID: [582187](#) Lane: 2 02/15/2019 16:06:35 66900 lb 58.1 mph 54 ft Class 9
Spacing: 4.1 32.5 4.3 14.0
Axles: ● ● ● ● ●
Wt: 16810 13170 13310 13550 10060



US-50 East Lane 2										Actual weight:				69140	
				Spacing				Weight							
	ID	Time	Speed	Sp4	Sp3	Spc 2	Spc 1	Ax5	Ax4	Ax3	Ax2	Ax 1	Position	Gross	Err %
1	579186	14:49:42	51.4	4.1	32.5	4.3	14.0	17010	14410	13350	13790	10160	Center	68720	-0.61
2	579517	14:58:31	57.8	4.1	32.5	4.3	13.9	16960	13050	13000	13780	10300	Center	67090	-2.96
3	579842	15:07:14	60.4	4.1	32.6	4.3	14.0	16010	13280	13010	13730	10390	Center	66430	-3.92
4	580173	15:15:38	57.6	4.1	32.4	4.3	13.9	16860	13220	13380	13540	10160	Center	67150	-2.88
5	580561	15:24:46	62.0	4.1	32.4	4.3	13.9	16790	14270	13420	13880	10090	Center	68460	-0.98
6	580862	15:32:35	55.5	4.1	32.4	4.3	13.9	16910	13760	12830	13410	9810	Center	66720	-3.50
7	581220	15:41:42	58.7	4.1	32.4	4.3	13.9	16830	13350	13110	13530	9950	Center	66770	-3.43
8	581490	15:49:26	56.3	4.1	32.5	4.3	14.0	16840	13320	12950	13750	10120	Center	66970	-3.14
9	581837	15:58:20	51.1	4.1	32.4	4.3	14.0	17480	13320	12960	13360	9760	Center	66880	-3.27
10	582187	16:06:35	58.1	4.1	32.5	4.3	14.0	16810	13170	13310	13550	10060	Center	66900	-3.24
														Min	-3.92
														Max	-0.61
														Avg	-2.79
														Range	3.31
														StdDev	1.10

Increase span by 0.8 percent for average to be approximately minus two percent.

Before:

C Num 1:	3F61FFEA31C7BC98	C Num 3:	3F5FAEEEE0FBD7A2
Span 1:	0.00219722500901	Span 3:	0.00193379714977
C Num 2:	3F601E485568B47C	C Num 4:	3F61A9925A1645D7
Span 2:	0.00196756484663	Span 4:	0.00215605339390

New span values:

C Num 1:	3F6224C5B2265859	C Num 3:	3F5FEFD4B9AB31F2
Span 1:	0.00221480000000	Span 3:	0.00194927000000
C Num 2:	3F603F4D72CF805B	C Num 4:	3F61CDBD8D94A899
Span 2:	0.00198331000000	Span 4:	0.00217330000000

Static Weights Prior to Calibration

36194887
TICKET NUMBER

CAT SCALE
CERTIFIED AUTOMATED TRUCK SCALE
CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

DATE: 2-15-19

09:49 SCALE: 310
36194889 LOCATION: TRANSIT TS
PUBLIC WEIGHMASTERS
CERTIFICATE OF
WEIGHT & MEASURE
197 EXIT 10 N EXIT 10A S
MILLERSVILLE MD

WEIGH NUMBER
4889

CUSTOMER COPY

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.⁶

WEIGH WHAT WE SAY OR WE PAY⁶
If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
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3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE	10460 lb
DRIVE AXLE	27380 lb
TRAILER AXLE	31300 lb
GROSS WEIGHT	69140 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: **FREIGHT ALL KINDS**

COMPANY: **CHICKS** TRACTOR # **955** TRAILER # **33512**

FEE: **\$11.50** WEIGHMASTER OR WEIGHER SIGNATURE: *GS* TICKET # OF FULL & WEIGH (IF REWEIGH)

© CAT Scale® Reg. 3063 1/17

Static Weight After Calibration

56392095
TICKET NUMBER

CAT SCALE
CERTIFIED AUTOMATED TRUCK SCALE
CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

DATE: 2-15-19

17:25 SCALE: 19
56392095 LOCATION: PILOT TRAVEL CENTER
PUBLIC WEIGHMASTERS
CERTIFICATE OF
WEIGHT & MEASURE
I 295 EXT 2B
CARNEYS POINT NJ

WEIGH NUMBER
2095

CUSTOMER COPY

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2) Call CAT Scale Company direct 24 hours a day at 1-877-CATSCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE	10180 lb
DRIVE AXLE	27220 lb
TRAILER AXLE	31280 lb
GROSS WEIGHT	68680 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: **FREIGHT ALL KINDS**

COMPANY: **CHICKS TOWING** TRACTOR # **955** TRAILER # **33512**

FEE: **\$11.50** WEIGHMASTER OR WEIGHER SIGNATURE: *BR* TICKET # OF FULL & WEIGH (IF REWEIGH)

BRITTANY ROSS

© CAT Scale® Reg. 3067 2/18

October 11, 2022 I-95S Lane 1 (Right Lane)

Truck weight: 76,460 lbs.

Span before Calibration:

C Num 1:	3F61085086803748	C Num 3:	3F628634B7ED979E
Span 1:	0.00207916000000	Span 3:	0.00226126000000
C Num 2:	3F6357E670E2C12B	C Num 4:	3F619DD20D7E6DC4
Span 2:	0.00236125000000	Span 4:	0.00215045000000

Test truck pass:

	GROSS	1	2	3	4	5
L	36510 37463	5330 5340 76.9	7390 7775 76.8	7570 7932 76.3	7320 7617 76.8	8900 8799 76.4
		17.0	4.6	29.2	4.0	
R	40800 40130	5400 5823 74.1	8920 8801 74.4	8760 9275 74.7	8420 6427 74.5	9300 9804 75.0
		17.0	4.7	29.1	4.0	

After calculate constants:

Setup	Calibration	Limits	Diagnostics																												
<table border="1"> <tr> <th>Parameter</th> <th>Value</th> </tr> <tr> <td>Auto-Zero Range Divisions</td> <td>3</td> </tr> <tr> <td>Division Size</td> <td>10</td> </tr> <tr> <td>Filter Range Divisions</td> <td>3</td> </tr> <tr> <td>Motion Range Divisions</td> <td>3</td> </tr> <tr> <td>Number of Samples Averaged</td> <td>20</td> </tr> </table>	Parameter	Value	Auto-Zero Range Divisions	3	Division Size	10	Filter Range Divisions	3	Motion Range Divisions	3	Number of Samples Averaged	20	<table border="1"> <tr> <td>C Num 1:</td> <td>3F61614FAAB4AF53</td> <td>C Num 3:</td> <td>3F62E6F9FDB86AAD</td> </tr> <tr> <td>Span 1:</td> <td>0.00212159690786</td> <td>Span 3:</td> <td>0.00230740381609</td> </tr> <tr> <td>C Num 2:</td> <td>3F63BCF3A620AA12</td> <td>C Num 4:</td> <td>3F61F9D93BAAE63A</td> </tr> <tr> <td>Span 2:</td> <td>0.00240943515475</td> <td>Span 4:</td> <td>0.00219433239303</td> </tr> </table>			C Num 1:	3F61614FAAB4AF53	C Num 3:	3F62E6F9FDB86AAD	Span 1:	0.00212159690786	Span 3:	0.00230740381609	C Num 2:	3F63BCF3A620AA12	C Num 4:	3F61F9D93BAAE63A	Span 2:	0.00240943515475	Span 4:	0.00219433239303
Parameter	Value																														
Auto-Zero Range Divisions	3																														
Division Size	10																														
Filter Range Divisions	3																														
Motion Range Divisions	3																														
Number of Samples Averaged	20																														
C Num 1:	3F61614FAAB4AF53	C Num 3:	3F62E6F9FDB86AAD																												
Span 1:	0.00212159690786	Span 3:	0.00230740381609																												
C Num 2:	3F63BCF3A620AA12	C Num 4:	3F61F9D93BAAE63A																												
Span 2:	0.00240943515475	Span 4:	0.00219433239303																												
<div>Single Lane</div> <div>Start Capture</div>	<div>Capture to file...</div> <div>End Capture</div>		<div>Percent Adjust:</div> <div>0.5</div>																												
<div>Capture on Next Loop</div> <div>Calculate Constants</div>																															
	GROSS	1	2	3	4	5	6	7	8	9	10	11																			
L	37083 36122	5198 4975 76.9	7409 7141 77.1	7656 7241 76.9	7868 7930 77.5	8952 8835 76.8																									
		19.4	4.4	27.1	4.0																										
R	37373 40228	5461 6117 76.0	7234 8124 76.3	7004 8154 76.3	10003 9138 76.4	7671 8695 76.8																									
		19.5	4.4	27.1	4.0																										

Test 1 – Gross Weight 1.88%

Vehicle ID: [761342](#) Lane: 1 10/11/2022 09:43:38 77900 lb 58.5 mph 54 ft Class 9
Flags: Overheight
Spacing: 4.0 29.3 4.6 17.0
Axles: ● ● ● ● ●
Wt: 18180 15720 16320 16260 11430

**Test 2 – Gross Weight 1.69%**

Vehicle ID: [761592](#) Lane: 1 10/11/2022 09:55:03 77750 lb 58.0 mph 54 ft Class 9
Flags: Overheight Over wt tandems Comb. overwt *Violation*
Spacing: 4.0 29.2 4.6 17.0
Axles: ● ● ● ● ●
Wt: 18150 15870 16010 16200 11520

**Test 3 – Gross Weight 1.14%**

Vehicle ID: [761865](#) Lane: 1 10/11/2022 10:06:24 77330 lb 57.8 mph 54 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.0 29.3 4.6 17.0
Axles: ● ● ● ● ●
Wt: 18480 15580 15520 16140 11600



Test 4 – Gross Weight 2.93%

Vehicle ID: [762150](#) Lane: 1 10/11/2022 10:18:46 78700 lb 51.6 mph 54 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.0 29.2 4.6 17.0
Axles: ● ● ● ● ●
Wt: 18140 16950 16380 16470 10760

**Test 5 – Gross Weight 2.12%**

Vehicle ID: [762420](#) Lane: 1 10/11/2022 10:30:30 78080 lb 57.4 mph 54 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.0 29.2 4.6 17.0
Axles: ● ● ● ● ●
Wt: 18640 15750 15850 16420 11430

**Test 6 – Gross Weight -0.52%**

Vehicle ID: [762761](#) Lane: 1 10/11/2022 10:45:13 76060 lb 58.1 mph 54 ft Class 9
Spacing: 4.0 29.3 4.6 17.0
Axles: ● ● ● ● ●
Wt: 17990 14830 16040 16140 11060



Test 7 – Gross Weight 3.77%Vehicle ID: [763158](#) Lane: 1 10/11/2022 11:02:45 79340 lb 58.7 mph 54 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.0 29.2 4.6 17.0

Axles: ● ● ● ● ●

Wt: 18320 17430 15890 16320 11390

**Test 8 – Gross Weight 1.54%**Vehicle ID: [763461](#) Lane: 1 10/11/2022 11:15:01 77640 lb 58.7 mph 54 ft Class 9

Spacing: 4.0 29.3 4.6 17.0

Axles: ● ● ● ● ●

Wt: 18130 15790 16070 16300 11340

**Test 9 – Gross Weight -0.12%**Vehicle ID: [763732](#) Lane: 1 10/11/2022 11:26:20 76370 lb 56.4 mph 55 ft Class 9

Spacing: 4.0 29.3 4.7 17.1

Axles: ● ● ● ● ●

Wt: 17950 16000 15370 15660 11380

**Test 10 – Gross Weight 0.80%**Vehicle ID: [764000](#) Lane: 1 10/11/2022 11:37:44 77070 lb 55.7 mph 54 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing: 4.0 29.3 4.6 17.0

Axles: ● ● ● ● ●

Wt: 18060 16160 16080 15940 10840



I95S Lane 1										Actual weight:				76460	
				Spacing						Weight					
	ID	Time	Speed	Spc 4	Spc 3	Spc 2	Spc 1	Ax5	Ax4	Ax3	Ax2	Ax 1	Position	Gross	Err %
1	761342	9:43:38	58.5	4.0	29.3	4.6	17.0	18180	15720	16320	16260	11430	Center	77900	1.88
2	761592	9:55:03	58.0	4.0	29.2	4.6	17.0	18150	15870	16010	16200	11520	Center	77750	1.69
3	761865	10:06:24	57.8	4.0	29.3	4.6	17.0	18480	15580	15520	16140	11600	Center	77330	1.14
4	762150	10:18:46	51.6	4.0	29.2	4.6	17.0	18140	16950	16380	16470	10760	Center	78700	2.93
5	762420	10:30:30	57.4	4.0	29.2	4.6	17.0	18640	15750	15850	16420	11430	Cetner	78080	2.12
6	762761	10:45:13	58.1	4.0	29.3	4.6	17.0	17990	14830	16040	16140	11060	Center	76060	-0.52
7	763158	11:02:45	58.7	4.0	29.2	4.6	17.0	18320	17430	15890	16320	11390	Center	79340	3.77
8	763461	11:15:01	58.7	4.0	29.3	4.6	17.0	18130	15790	16070	16300	11340	Center	77640	1.54
9	763732	11:26:20	56.4	4.0	29.3	4.7	17.1	17950	16000	15370	15660	11380	Center	76370	-0.12
10	764000	11:37:44	55.7	4.0	29.3	4.6	17.0	18060	16160	16080	15940	10840	Center	77070	0.80
														Min	-0.52
														Max	3.77
														Avg	1.52
														Range	4.29
														StdDev	1.35

Decreased span by 3.5 percent for average to be approximately minus two percent.

Before:

C Num 1:	3F6252C7A7016832	C Num 3:	3F626D7808A96E2A
Span 1:	0.00223673815348	Span 3:	0.00224946445569
C Num 2:	3F6220022B9FCBC8	C Num 4:	3F61DB77409A51B5
Span 2:	0.00221252845676	Span 4:	0.00217984477497

New span values:

C Num 1:	3F6252C7A7016832	C Num 3:	3F626D7808A96E2A
Span 1:	0.00215845	Span 3:	0.00217073
C Num 2:	3F6220022B9FCBC8	C Num 4:	3F61DB77409A51B5
Span 2:	0.00213509	Span 4:	0.00210355

Static weight ticket prior to Calibration:

TICKET NUMBER 1011722284109

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

DATE: 10-11-22

SCALE: 117

LOCATION: ONE9

OB:04

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong. **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE	11260	1b
DRIVE AXLE	31900	1b
TRAILER AXLE	33300	1b
GROSS WEIGHT	76460	1b

I 95 HIGHWAY 222 EXIT 93
PERRYVILLE MD

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING TRACTOR # 909 TRAILER # 710

WEIGHMASTER OR WEIGHER SIGNATURE Mateusz B TICKET # OF FULL S WEIGH (IF REWEIGH)

WEIGH NUMBER 4109

© CAT Scale[®] Reg 3081 6/22

DRIVER IN TRUCK UNLESS CHECKED HERE: _____

Static weight ticket post Calibration:

TICKET NUMBER 1011722284126

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

DATE: 10-11-22

SCALE: 117

LOCATION: ONE9

15:34

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
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* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

STEER AXLE	11120	1b
DRIVE AXLE	31740	1b
TRAILER AXLE	33280	1b
GROSS WEIGHT	76140	1b

I 95 HIGHWAY 222 EXIT 93
PERRYVILLE MD

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING TRACTOR # 509 TRAILER # 710

WEIGHMASTER OR WEIGHER SIGNATURE Rose Johnson TICKET # OF FULL S WEIGH (IF REWEIGH) 1011722284109

WEIGH NUMBER 4109

© CAT Scale[®] Reg 3081 6/22

DRIVER IN TRUCK UNLESS CHECKED HERE: _____

October 11, 2022 I-95S lane 2 (left lane)

Truck weight: 76,460 lbs.

Span before Calibration:

C Num 1:	3F5EBC9922FC2E64	C Num 3:	3F62CA524923099A
Span 1:	0.00187602000000	Span 3:	0.00229374000000
C Num 2:	3F62D041A1600C85	C Num 4:	3F5D8ACA9ECA300F
Span 2:	0.00229657000000	Span 4:	0.00180311000000

Test truck pass:

	GROSS	1	2	3	4	5	6
L	39640	6180	8150	8370	7850	9090	
	41243	6584	9054	9220	7049	9336	
		94.3	94.1	94.1	94.8	94.1	
		19.7	4.4	27.6	4.1		
R	36480	5680	7210	7080	9520	6990	
	36525	5834	7142	6951	9370	7228	
		92.7	93.2	93.2	93.4	93.8	
		19.8	4.4	27.6	4.1		

After calculate constants:

Setup		Calibration		Limits		Diagnostics						
Parameter	Value	C Num 1:	3F5FAA1EA44E01C5	C Num 3:	3F635B8453A47D1E							
Auto-Zero Range Divisions	3	Span 1:	0.00193264953961	Span 3:	0.00236297459664							
Division Size	10	C Num 2:	3F6361A11044F819	C Num 4:	3F5E6F1705ECFE4E							
Filter Range Divisions	3	Span 2:	0.00236588914609	Span 4:	0.00185754059176							
Motion Range Divisions	3											
Number of Samples Averaged	20											
Single Lane		Capture to file...		Percent Adjust:		0.5						
Start Capture		End Capture		Capture on Next Loop		Calculate Constants						
	GROSS	1	2	3	4	5	6	7	8	9	10	1
L	37290	5664	7102	7383	8476	8665						
	38956	6219	8552	8709	6658	8818						
		94.3	94.1	94.1	94.8	94.1						
		19.7	4.4	27.6	4.1							
R	37169	5636	7428	7355	9863	6887						
	37528	5995	7338	7142	9627	7426						
		92.7	93.2	93.2	93.4	93.8						
		19.8	4.4	27.6	4.1							

Test 1 – Gross Weight -1.95%

Vehicle ID: [767204](#) Lane: 2 10/11/2022 13:51:22 74970 lb 57.9 mph 56 ft Class 9
Spacing: 4.1 30.0 4.8 17.4
Axles: ● ● ● ● ●
Wt: 15970 15820 15560 16130 11490

**Test 2 – Gross Weight 4.24%**

Vehicle ID: [767477](#) Lane: 2 10/11/2022 14:01:26 79700 lb 62.0 mph 56 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.1 29.9 4.7 17.4
Axles: ● ● ● ● ●
Wt: 16670 17300 16730 17520 11490

**Test 3 – Gross Weight -0.99%**

Vehicle ID: [767757](#) Lane: 2 10/11/2022 14:12:41 75700 lb 62.1 mph 56 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.1 30.0 4.8 17.4
Axles: ● ● ● ● ●
Wt: 16270 13900 16680 17390 11460



Test 4 – Gross Weight 4.55%Vehicle ID: [768026](#) Lane: 2 10/11/2022 14:22:55 79940 lb 65.1 mph 56 ft Class 9

Flags: Over wt tandems Comb. overwt *Violation*

Spacing:	4.1	29.9	4.8	17.4
Axles:	● ●	● ●	●	
Wt:	16990 17590	16200 17080	12080	

**Test 5 – Gross Weight 1.58%**Vehicle ID: [768333](#) Lane: 2 10/11/2022 14:35:03 77670 lb 58.9 mph 56 ft Class 9

Spacing:	4.1	29.9	4.7	17.3
Axles:	● ●	● ●	●	
Wt:	16440 15880	16000 17150	12200	

**Test 6 – Gross Weight 1.49%**Vehicle ID: [768600](#) Lane: 2 10/11/2022 14:46:17 77600 lb 58.5 mph 56 ft Class 9

Spacing:	4.1	29.9	4.7	17.3
Axles:	● ●	● ●	●	
Wt:	16770 15570	16670 17080	11500	

**Test 7 – Gross Weight 0.94%**Vehicle ID: [768859](#) Lane: 2 10/11/2022 14:56:39 77180 lb 60.4 mph 56 ft Class 9

Spacing:	4.1	29.9	4.7	17.3
Axles:	● ●	● ●	●	
Wt:	16500 15560	16480 17090	11540	



Test 8 – Gross Weight 1.58%

Vehicle ID: [769145](#) Lane: 2 10/11/2022 15:08:06 77670 lb 61.9 mph 56 ft Class 9
Flags: Over wt tandems Comb. overwt *Violation*
Spacing: 4.1 30.0 4.7 17.3
Axles: ● ● ● ● ●
Wt: 16680 15040 16960 17520 11470

**Test 9 – Gross Weight 0.76%**

Vehicle ID: [769461](#) Lane: 2 10/11/2022 15:19:25 77040 lb 62.0 mph 55 ft Class 9
Spacing: 4.0 29.9 4.7 17.3
Axles: ● ● ● ● ●
Wt: 16560 15700 16380 17010 11390

**Test 10 – Gross Weight 1.82%**

Vehicle ID: [769741](#) Lane: 2 10/11/2022 15:30:00 77850 lb 59.1 mph 56 ft Class 9
Spacing: 4.1 30.0 4.8 17.3
Axles: ● ● ● ● ●
Wt: 16700 16390 15950 16890 11930



I95S Lane 2										Actual weight:				76460	
Spacing										Weight					
	ID	Time	Speed	Spc 4	Spc 3	Spc 2	Spc 1	Ax5	Ax4	Ax3	Ax2	Ax 1	Position	Gross	Err %
1	767204	13:51:22	57.9	4.1	30.0	4.8	17.4	15970	15820	15560	16130	11490	Center	74970	-1.95
2	767477	14:01:26	62.0	4.1	29.9	4.7	17.4	16670	17300	16730	17520	11490	Center	79700	4.24
3	767757	14:12:41	62.1	4.1	30.0	4.8	17.4	16270	13900	16680	17390	11460	Center	75700	-0.99
4	768026	14:22:55	65.1	4.1	29.9	4.8	17.4	16990	17590	16200	17080	12080	Center	79940	4.55
5	768333	14:35:03	58.9	4.1	29.9	4.7	17.3	16440	15880	16000	17150	12200	Center	77670	1.58
6	768600	14:46:17	58.5	4.1	29.9	4.7	17.3	16770	15570	16670	17080	11500	Center	77600	1.49
7	768859	14:56:39	60.4	4.1	29.9	4.7	17.3	16500	15560	16480	17090	11540	Center	77180	0.94
8	769145	15:08:06	61.9	4.1	30.0	4.7	17.3	16680	15040	16960	17520	11470	Center	77670	1.58
9	769461	15:19:25	62.0	4.0	29.9	4.7	17.3	16560	15700	16380	17010	11390	Center	77040	0.76
10	769741	15:30:00	59.1	4.1	30.0	4.8	17.3	16700	16390	15950	16890	11930	Center	77850	1.82
														Min	-1.95
														Max	4.55
														Avg	1.40
														Range	6.50
														StdDev	2.11

Decrease span by 3.40 percent to make an average of approximately minus 2 percent.

Spans before adjustment:

C Num 1:	3F5EBC9922FC2E64	C Num 3:	3F62CA524923099A
Span 1:	0.00180098	Span 3:	0.00220199
C Num 2:	3F62D041A1600C85	C Num 4:	3F5D8ACA9ECA300F
Span 2:	0.00220471	Span 4:	0.00173099

Spans after adjustment:

C Num 1:	3F5EBC9922FC2E64	C Num 3:	3F62CA524923099A
Span 1:	0.00173975	Span 3:	0.00212712
C Num 2:	3F62D041A1600C85	C Num 4:	3F5D8ACA9ECA300F
Span 2:	0.00212975	Span 4:	0.00167214

Starting static weight:

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

CERTIFIED AUTOMATED TRUCK SCALE
CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

TICKET NUMBER 1011722284109

DATE: 10-11-22

SCALE: 117

LOCATION: ONE9

I 95 HIGHWAY 222 EXIT 93
PERRYVILLE MD

STEER AXLE 11260 lb

DRIVE AXLE 31900 lb

TRAILER AXLE 33300 lb

* GROSS WEIGHT 76460 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING TRACTOR # 909 TRAILER # 710

WEIGHMASTER OR WEIGHER SIGNATURE [Signature] TICKET # OF FULL & WEIGH (IF REWEIGH)

WEIGH NUMBER 4109

FEE \$13.00

© CAT Scale® Reg 3081 6/22

DRIVER IN TRUCK UNLESS CHECKED HERE: _____

Ending static weight:

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.[®]

WEIGH WHAT WE SAY OR WE PAY[®]
If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

CERTIFIED AUTOMATED TRUCK SCALE
CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

TICKET NUMBER 1011722284126

DATE: 10-11-22

SCALE: 117

LOCATION: ONE9

I 95 HIGHWAY 222 EXIT 93
PERRYVILLE MD

STEER AXLE 11120 lb

DRIVE AXLE 31740 lb

TRAILER AXLE 33280 lb

* GROSS WEIGHT 76140 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY CHICKS TOWING TRACTOR # 509 TRAILER # 710

WEIGHMASTER OR WEIGHER SIGNATURE [Signature] TICKET # OF FULL & WEIGH (IF REWEIGH) 1011722284109

WEIGH NUMBER

FEE \$13.50

DRIVER IN TRUCK UNLESS CHECKED HERE: _____



Madison, WI

Customizable WIM Compliance

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 1/14/2021 12:00:00AM
End Date: 1/21/2021 12:00:00AM

3/9/2021

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	154
	% Compliant	100%
	Result	PASS
Axle Group	Count	302
	% Compliant	98%
	Result	PASS
GVW	Count	181
	% Compliant	98%
	Result	PASS
Vehicle Count		181

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.



Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 1/14/2021 12:00:00AM
 End Date: 1/21/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	134
	% Compliant	98%
	Result	PASS
Axle Group	Count	267
	% Compliant	100%
	Result	PASS
GVW	Count	160
	% Compliant	99%
	Result	PASS
Vehicle Count		160

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
213(0.7%)		13,259(42.0%)		18,075(57.3%)		31,547(100.0%)	25,721(81.5%)	0



Madison, WI

Customizable WIM Compliance

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 1/28/2021 12:00:00AM
End Date: 2/4/2021 12:00:00AM

3/9/2021

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	170
	% Compliant	99%
	Result	PASS
Axle Group	Count	335
	% Compliant	97%
	Result	PASS
GVW	Count	195
	% Compliant	95%
	Result	PASS
Vehicle Count		195

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.



Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 1/28/2021 12:00:00AM
 End Date: 2/4/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	166
	% Compliant	100%
	Result	PASS
Axle Group	Count	327
	% Compliant	99%
	Result	PASS
GVW	Count	193
	% Compliant	95%
	Result	PASS
Vehicle Count		193

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
765(2.3%)		16,364(48.6%)		16,513(49.1%)		33,642(100.0%)	23,204(69.0%)	0

Customizable WIM Compliance

7/1/2021

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 6/24/2021 12:00:00AM
End Date: 7/1/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	115
	% Compliant	100%
	Result	PASS
Axle Group	Count	222
	% Compliant	100%
	Result	PASS
GVW	Count	135
	% Compliant	100%
	Result	PASS
Vehicle Count		135

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 6/24/2021 12:00:00AM
 End Date: 7/1/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	112
	% Compliant	100%
	Result	PASS
Axle Group	Count	216
	% Compliant	100%
	Result	PASS
GVW	Count	132
	% Compliant	100%
	Result	PASS
Vehicle Count		132

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
240(0.7%)		12,011(34.3%)		22,744(65.0%)		34,995(100.0%)	31,272(89.4%)	0

Customizable WIM Compliance

7/15/2021

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 7/8/2021 12:00:00AM
End Date: 7/15/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	449
	% Compliant	100%
	Result	PASS
Axle Group	Count	884
	% Compliant	99%
	Result	PASS
GVW	Count	498
	% Compliant	99%
	Result	PASS
Vehicle Count		498

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 7/8/2021 12:00:00AM
 End Date: 7/15/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	390
	% Compliant	100%
	Result	PASS
Axle Group	Count	764
	% Compliant	100%
	Result	PASS
GVW	Count	434
	% Compliant	100%
	Result	PASS
Vehicle Count		434

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
518(1.3%)		29,416(72.7%)		10,517(26.0%)		40,451(100.0%)	35,444(87.6%)	0

Customizable WIM Compliance

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 7/15/2021 12:00:00AM
End Date: 7/22/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	145
	% Compliant	99%
	Result	PASS
Axle Group	Count	277
	% Compliant	98%
	Result	PASS
GVW	Count	167
	% Compliant	98%
	Result	PASS
Vehicle Count		167

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 7/15/2021 12:00:00AM
 End Date: 7/22/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	128
	% Compliant	98%
	Result	PASS
Axle Group	Count	243
	% Compliant	100%
	Result	PASS
GVW	Count	144
	% Compliant	98%
	Result	PASS
Vehicle Count		144

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
876(2.6%)		25,285(75.3%)		7,415(22.1%)		33,576(100.0%)	29,077(86.6%)	0

Customizable WIM Compliance

Site: (ma1) WI_Madison
Classification: From site
Lanes: ADV_DRV

Start class: 4
End class: 16

Start Date: 7/22/2021 12:00:00AM
End Date: 7/29/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	190
	% Compliant	100%
	Result	PASS
Axle Group	Count	371
	% Compliant	95%
	Result	PASS
GVW	Count	206
	% Compliant	95%
	Result	PASS
Vehicle Count		206

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Customizable WIM Compliance

Site: (ma1) WI_Madison
 Classification: From site
 Lanes: RAMP

Start class: 4
 End class: 16

Start Date: 7/22/2021 12:00:00AM
 End Date: 7/29/2021 12:00:00AM

The following WIM accuracy values were used to calculate WIM compliance:

- a. Single Axle: +/- 15%;
- b. Axle Group: +/- 10%; and
- c. GVW: +/-6%.

The Pass/Fail Confidence value used was 90%.

Single Axle	Count	164
	% Compliant	100%
	Result	PASS
Axle Group	Count	319
	% Compliant	100%
	Result	PASS
GVW	Count	184
	% Compliant	98%
	Result	PASS
Vehicle Count		184

Vehicles that were selected had valid weights, a static scale vehicle record with a GVW that is at least 75% of the legal limit, and did not have a status that invalidates it from being included.

Calculations performed as per ASTM E 1318, sections 7.2.7.2 and 7.2.7.3.

Caution: The data may include live and/or liquid loads. Per ASTM 1318, these vehicles should be excluded from WIM accuracy calculations, however, determination of such loads is not possible from the data. A manual check involving viewing vehicle images may be required.

* To be statistically significant, this report must include a minimum of 80 vehicles. If fewer vehicles are used, the report results may not be valid. In this case, please re-run the report with a larger number of data collection files.

Data in this report: Any Grade of Files; Traffic Data: Selected - Both; Per Vehicle (Good Weight Vehicles)

Total counts as defined in report parameters:

Error	+	Status Set	+	Status Clear	=	PV Total	Good Weight	Binned Total
864(2.3%)		28,418(75.3%)		8,444(22.4%)		37,726(100.0%)	32,944(87.3%)	0

To: Katie England, INDOT

From: Darcy Bullock, Purdue University
Wayne Bunnell, Purdue University
Tim Wells, INDOT Research Division

Date: January 24, 2017

Subject: Evaluation of Kapsch Weigh-in Motion site in Chesterton, IN (EB I-94 at Mile Marker 28)

We are writing to summarize the results of discussion on January 19, 2017, and provide requested follow up information.

In the Spring of 2016, INDOT and Kapsch partnered to construct an evaluation WIM just west of the Brummit Road Overpass on EB I-94 at approximately Mile Marker 28 (Figure 1). Lane preparation and sensor installation occurred in May 2016 and calibration was performed by Kapsch in June 2016. On June 30, 2016, we received initial training by Kapsch and performed pilot testing of evaluation protocol with Indiana State Police (ISP). In July, plans were developed to conduct an evaluation over a variety of pavement temperatures during the period August to December and to summarize those results in January 2017.

A total of 615,872 Class 9 vehicles crossed over the WIM from August 1 to December 31, 2016. A Class 9 vehicle is the most common tractor trailer unit with 5 axles. We subsequently performed validation activities on randomly selected Class 9 trucks on August 3, September 6, October 5, November 9, and December 7, 2016. This validation involved photographing Class 9 vehicles weighed at the ISP EB I-94 Chesterton weigh station and matching those photographs with the photographs obtained from the cameras at the WIM (Figure 1). Only vehicles with no error flags (lane changes, acceleration, deceleration...) were selected for further study. A sample size of 688 vehicles was subsequently used to prepare the plot shown in Figure 2. All but 4 of the vehicles fall within +/- 5%. The four vehicles that were outside of that tolerance had discrepancies of -5.70%, +5.23%, -6.34%, and +5.41%.

We also prepared a histogram that counts the number of vehicles observed over 85,000 lbs, using a grouping size of 1,000 lbs. The distribution of the 595 vehicles over 85,000 lbs is shown in Figure 3. The number of trucks in each 1,000 lb grouping is shown above the bar. For example, one can see there were 37 trucks observed with a weight of 90,000-90,999 and 2 trucks over 110,000 during that period. The data shown in Figure 3 has not been validated on certified ISP scales (nor have the carriers been checked to see if they had an overweight permit issued by DOR), but given the close correlation between the WIM and certified scales shown in Figure 2, we believe Figure 3 accurately characterizes the frequency of overweight trucks in the right lane (Figure 1), by GVW, for the 5 month study period.

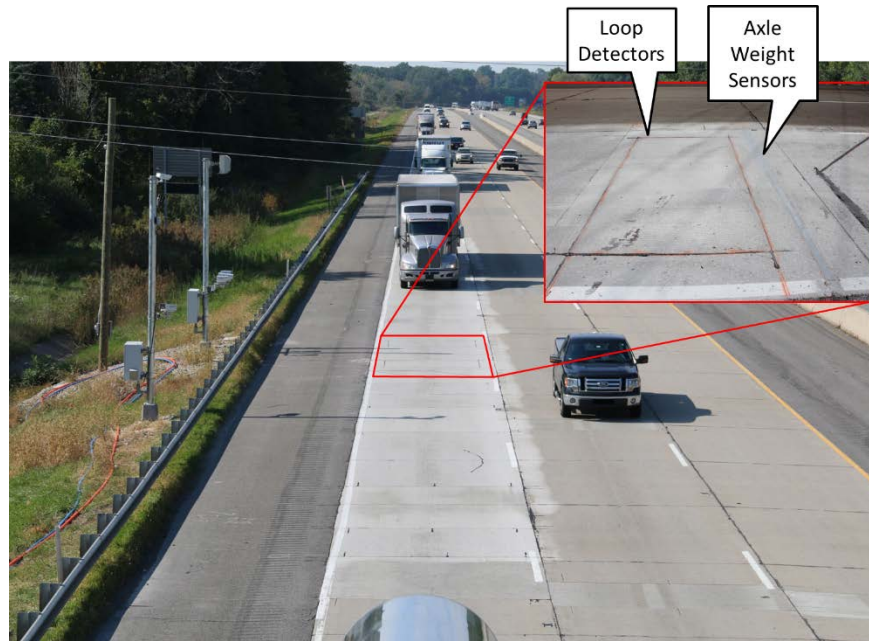


Figure 1: Site Photo of WIM (cameras on shoulder)

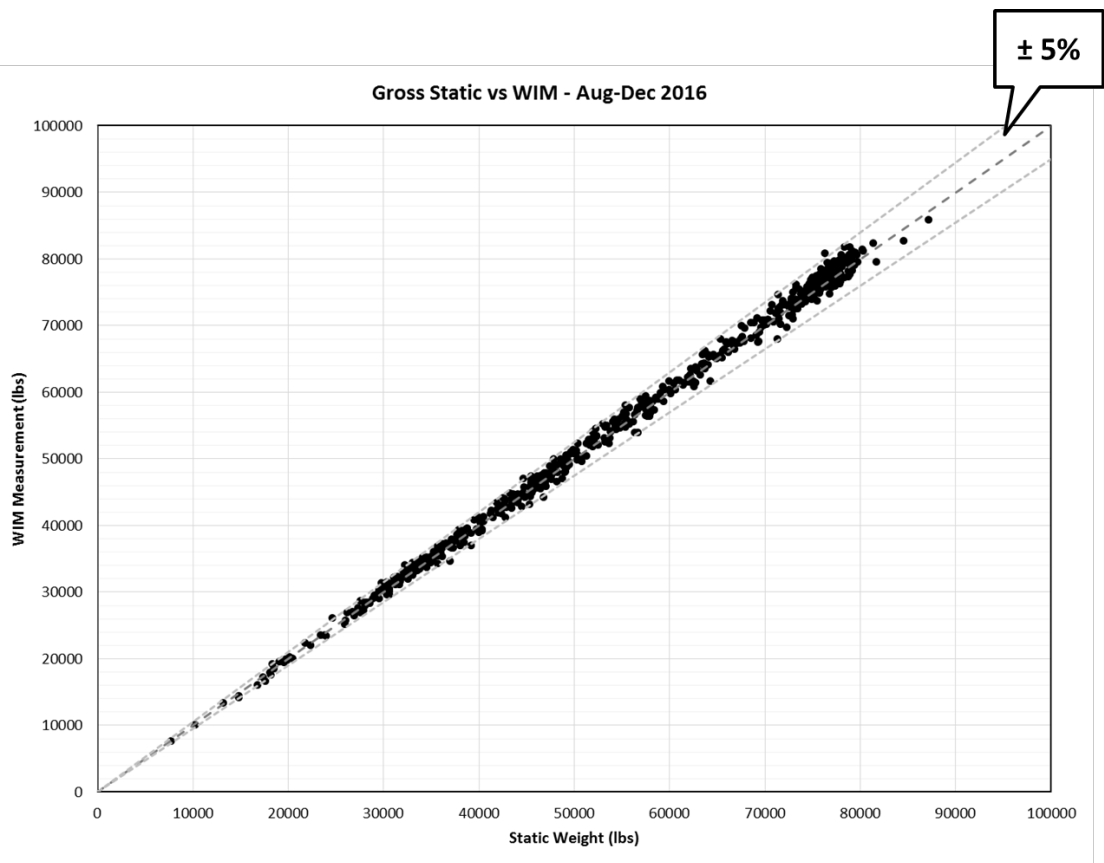


Figure 2: Comparison of WIM weights with Indiana State Police Static Scale Weights

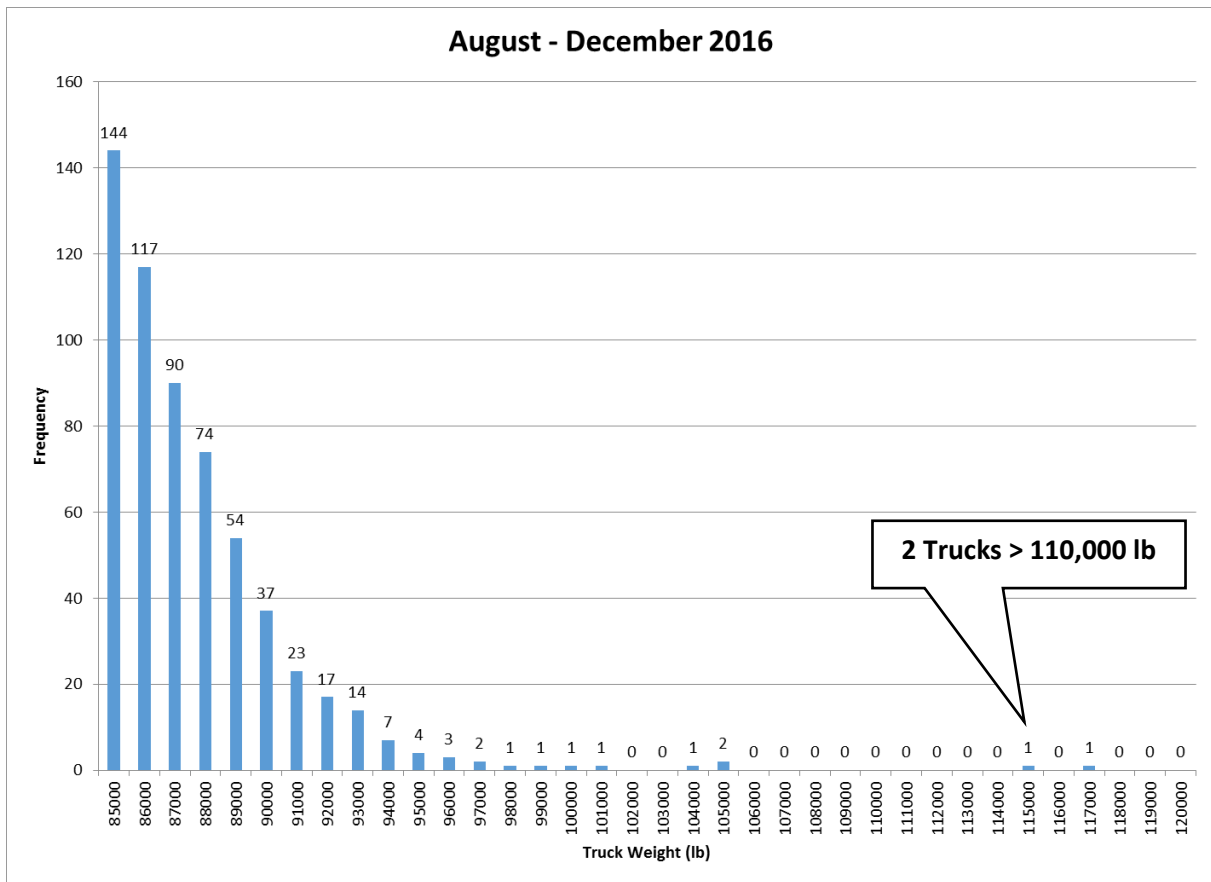


Figure 3: Count of vehicles over 85,000 lbs from August 1 to December 31, 2016.