



COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

Phone: (979) 542-3231 - Fax: (888) 205-7741

Test Number

G-000006144

CALIBRATION CERTIFICATE

FOR

1-3500 lb Test Cart, 4-2500 lb  
2-1000 lb, 23-50 lb, 3-Test Kits

SUBMITTED BY

Bastrop Scale Company  
P.O. Drawer 2100  
Bastrop, Texas 78602

The standards and measurements of the Texas Department of Agriculture, Giddings Metrology Laboratory, are traceable to the SI and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The data below applies only to the artifacts identified in this report at the time of test.

Test Date: 06/29/2017  
Calibration Due: 06/30/2018

Received Date: 6/28/2017  
Condition Received: Acceptable

Temperature Range: 18 °C to 27 °C  
Relative Humidity Range: 40 % to 60 %

Procedure: NISTIR 6969, SOP No. 8, Modified Substitution

Balances: CCE36-SN:28601985, MSA225S-SN:28512376, CCE2004-SN:28601871, CCE5003-SN:21411465

CCE60K2-SN:26803155, CCS600K-SN:21405144, CCT1000K-SN:25000006, CCS3000K-SN:26000005

Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards

The expanded standard uncertainty includes the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration. No component is included in the expanded uncertainty for the effects of magnetism. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level. Class F tolerance values are taken from NIST HB 105-1.

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Note:

A positive correction indicates that the weight is heavier than the stated nominal value.

A negative correction indicates that the weight is lighter than the stated nominal value.

Conversions:

milligram (mg) to kilogram (kg): kg = mg / 1000000

milligram (mg) to gram (g): g = mg / 1000

milligram (mg) to pound (lb): lb = mg x 0.000002204622621848776

milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

*for*   
Philip Lockwood  
Manager for Metrology Laboratory  
Agency Representative

Daniel Gibbons  
Metrologist  
Legal Signatory





# TEXAS DEPARTMENT OF AGRICULTURE

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The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Temperature Range: 18 °C to 27 °C  
Relative Humidity Range: 40 % to 60 %  
SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
3500 lb cart	3500-001 -	1674000	138000	61000	CART	450000
2500 lb	BS 625	16000	16000	24000	F	110000
2500 lb	BS 624	-27000	-27000	24000	F	110000
2500 lb	BS 627	-12000	-12000	24000	F	110000
2500 lb	BS 626	-56000	-56000	24000	F	110000
1000 lb	BS 620	-5700	-5700	7200	F	45000
1000 lb	BS 623	-26700	-26700	7200	F	45000
50 lb	BS 601	-11980	-10	280	F	2300
50 lb	BS 609	-900	-900	280	F	2300
50 lb	BS 610	-5300	50	280	F	2300
50 lb	BS 10	-4830	40	280	F	2300
50 lb	BS 611	90	90	280	F	2300
50 lb	BS 116	-10050	UNADJUSTABLE	280	F	2300
50 lb	BS 6217	-3910	80	280	F	2300
50 lb	BS 52	-3480	40	280	F	2300
50 lb	BS 45	-33690	50	280	F	2300
50 lb	BS 612B	-5460	70	280	F	2300
50 lb	BS 76	-1700	-1700	280	F	2300
50 lb	BS 121	-1280	-1280	280	F	2300
50 lb	BS 608	-5750	10	280	F	2300
50 lb	BS 605	-990	-990	280	F	2300
50 lb	BS 603	-5460	50	280	F	2300
50 lb	BS 614	-8140	70	280	F	2300
50 lb	BS 602	-8910	10	280	F	2300
50 lb	BS 617	-5590	30	280	F	2300
50 lb	BS 615	-630	-630	280	F	2300
50 lb	BS 606	-12150	90	280	F	2300
50 lb	BS 616	-7750	50	280	F	2300
50 lb	BS 6206	-3770	70	280	F	2300
50 lb	BS 59	-2750	80	280	F	2300
1 lb	4VIW A	15.8	15.8	8.4	F	70

♦ denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.

■ denotes a weight that was rejected.

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level.

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for Philip Lockwood  
Manager for Metrology Laboratory  
Agency Representative

Daniel Gibbons  
Metrologist  
Legal Signatory





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Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
1 lb	4VIW B	15.8	15.8	8.4	F	70
1 lb	4VIW C	17.2	17.2	8.4	F	70
1 lb	4VIW D	17.4	17.4	8.4	F	70
1 lb	4VIW E	15.6	15.6	8.4	F	70
.5 lb	4VIW -	12.0	12.0	5.6	F	45
2 kg	4VJK -	52	52	24	F	200
2 kg	4VJK *	58	58	24	F	200
2 kg	1LDU -	81	81	24	F	200
2 kg	1LDU *	89	89	24	F	200
1 kg	4VJK -	19	19	12	F	100
1 kg	1LDU -	40	40	12	F	100
500 g	4VJK -	18.9	18.9	8.4	F	70
500 g	1LDU -	20.6	20.6	8.4	F	70
.2 lb	4VIW -	5.8	5.8	2.1	F	18
.2 lb	4VIW *	4.0	4.0	2.1	F	18
.1 lb	4VIW -	2.0	2.0	1.1	F	9.1
.05 lb	4VIW -	1.20	1.20	0.53	F	4.5
200 g	4VJK -	2.2	2.2	4.7	F	40
200 g	4VJK *	13.6	13.6	4.7	F	40
200 g	1LDU -	14.3	14.3	4.7	F	40
200 g	1LDU *	8.5	8.5	4.7	F	40
100 g	4VJK -	3.1	3.1	2.3	F	20
100 g	1LDU -	6.2	6.2	2.3	F	20
50 g	4VJK -	3.0	3.0	1.2	F	10
50 g	1LDU -	3.7	3.7	1.2	F	10
.02 lb	4VIW -	0.28	0.28	0.22	F	1.8
.02 lb	4VIW *	0.16	0.16	0.22	F	1.8
.01 lb	4VIW -	0.29	0.29	0.18	F	1.5
.005 lb	4VIW -	0.15	0.15	0.15	F	1.2
.002 lb	4VIW -	0.25	0.25	0.10	F	0.87
.002 lb	4VIW *	0.28	0.28	0.10	F	0.87

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Nominal Value	Serial / ID #	As Found	As Left	Expanded	Tolerance	Tolerance
		Mass Correction ( mg )	Mass Correction ( mg )	Uncertainty ( mg )	Class	( mg )
.001 lb	4VIW -	0.102	0.102	0.083	F	0.70
20 g	4VJK -	-0.29	-0.29	0.47	F	4.0
20 g	4VJK *	0.12	0.12	0.47	F	4.0
20 g	1LDU -	0.75	0.75	0.47	F	4.0
20 g	1LDU *	0.97	0.97	0.47	F	4.0
10 g	4VJK -	0.19	0.19	0.23	F	2.0
10 g	1LDU -	0.19	0.19	0.23	F	2.0
5 g	4VJK -	0.26	0.26	0.18	F	1.5
5 g	1LDU -	0.57	0.57	0.18	F	1.5
2 g	4VJK -	0.20	0.20	0.13	F	1.1
2 g	4VJK *	0.30	0.30	0.13	F	1.1
2 g	1LDU -	0.50	0.50	0.13	F	1.1
2 g	1LDU *	0.25	0.25	0.13	F	1.1
1 g	4VJK -	0.41	0.41	0.11	F	0.90
1 g	1LDU -	0.39	0.39	0.11	F	0.90
5 kg	4VJK -	198	198	59	F	500
5 kg	1LDU -	191	191	59	F	500
5 lb	4VIW A	58	58	28	F	230
5 lb	4VIW B	59	59	28	F	230
5 lb	4VIW C	61	61	28	F	230
5 lb	4VIW D	67	67	28	F	230
5 lb	4VIW E	63	63	28	F	230

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