

South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

REPORT OF CALIBRATION

LAB TEST NUMBER: MP3776
 DATE OF REPORT: 02/23/2018
 DATE RECEIVED: 02/21/2018
 DATE OF TEST: 02/22/2018

Submitted By: Scale Center (Sterling)
Contact: Tim Huber
Mailing Address: 2900 W Russel St
City, State, Zip: Sioux Falls, SD 57107
Phone: 605-838-7107
S/A Number: 1

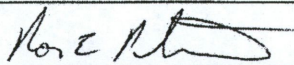
Standards Submitted:

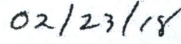
- | | |
|----------------------|---------------------|
| 1 - 3500 lb cart | 3 - 25 lb weights |
| 17 - 1000 lb weights | 2 - metric kit |
| 30 - 50 lb weights | 1 - avoirdupois kit |

Uncertainty Statement: The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. The combined standard uncertainty is multiplied by a coverage factor *k* to provide an expanded uncertainty which defines an interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the 1995 ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application.

Traceability statement:
 The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

This document does not represent or imply endorsement by NIST Office of Weights and Measures or any agency of the State and/or national governments. The reported test values relate only to the observations made at the time and conditions of the test. This report may not be reproduced, except in full without the written approval of this laboratory. The client must not use this document to claim product endorsement by this laboratory.

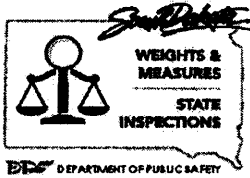

Ron Peterson, Metrologist


Date



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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/22/18
Manufacturer:	B-TEK INC	Condition of Cart:	FAIR
Serial Number:	SN TC-202-138	Temperature (c):	19.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	26.3%
Nominal (lb):	3500	Pressure (mm/Hg):	718.3
Tolerance (lb):	1.00		

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As Found (lb)	As Left (lb)	Uncertainty-lb. (k=2.07)
-1.30	0.11	0.19

The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, repairs or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, etc. will require calibration of the weight cart prior to subsequent use.

Test equipment used include recently calibrated weights and a Mettler-Toledo SLS510/ND570 load cell.

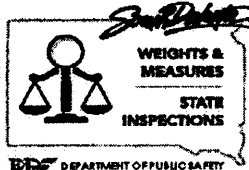
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/22/18
Artifacts Submitted	1000 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.3
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity (%):	53.4
Equipment Used:	Russell Balance/ Valsala PTU301	Pressure (mm/Hg):	719

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

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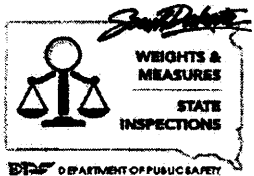
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
1000 lb	18.09	-0.025 lb -11.2 g	-0.025 lb -11.2 g	45 g	5.9 g	2.04
1000 lb	19.09	-0.070 lb -31.6 g	0.003 lb 1.2 g	45 g	5.9 g	2.04
1000 lb	20.09	-0.058 lb -26.5 g	0.003 lb 1.3 g	45 g	5.9 g	2.04
1000 lb	21.09	-0.038 lb -17.3 g	-0.038 lb -17.3 g	45 g	5.9 g	2.04
1000 lb	22.09	0.017 lb 7.6 g	0.017 lb 7.6 g	45 g	5.9 g	2.04
1000 lb	23.09	-0.029 lb -13.0 g	-0.029 lb -13.0 g	45 g	5.9 g	2.04
1000 lb	24.09	-0.001 lb -0.4 g	-0.001 lb -0.4 g	45 g	5.9 g	2.04
1000 lb	25.09	-0.027 lb -12.4 g	-0.027 lb -12.4 g	45 g	5.9 g	2.04
1000 lb	27.09	-0.050 lb -22.7 g	-0.050 lb -22.7 g	45 g	5.9 g	2.04
1000 lb	28.09	-0.072 lb -32.6 g	-0.001 lb -0.6 g	45 g	5.9 g	2.04
1000 lb	28.09	0.007 lb 3.0 g	0.007 lb 3.0 g	45 g	5.9 g	2.04
1000 lb	29.09	-0.024 lb -10.8 g	-0.024 lb -10.8 g	45 g	5.9 g	2.04
1000 lb	30.09	0.010 lb 4.5 g	0.010 lb 4.5 g	45 g	5.9 g	2.04
1000 lb	31.09	-0.002 lb -1.0 g	-0.002 lb -1.0 g	45 g	5.9 g	2.04
1000 lb	32.09	-0.001 lb -0.6 g	-0.001 lb -0.6 g	45 g	5.9 g	2.04
1000 lb	33.09	0.010 lb 4.4 g	0.010 lb 4.4 g	45 g	5.9 g	2.04
1000 lb	34.09	-0.012 lb -5.5 g	-0.012 lb -5.5 g	45 g	5.9 g	2.04


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Pierre SD 57501

Submitted by: Scale Center (Sterling) Report Number: MP3776
 Mailing Address: 2900 W Russel St Date Received: 02/21/18
 City, State, Zip: Sioux Falls, SD 57107 Date tested: 02/22/18
 Artifacts Submitted: 50 lb weights Condition of Weights: GOOD
 Temperature (c): 21.3
 Test Method Used: SOP 8/ MODIFIED SUB, Jun 2015 Humidity: 49.5%
 Equipment Used: Mettler KA-30/ Vaisala PTU301 Pressure (mm/Hg): 721.6

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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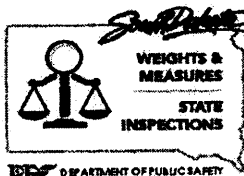
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	B	-299 mg	-299 mg	2300 mg	282 mg	2.03
50 lb	C	-1194 mg	126 mg	2300 mg	282 mg	2.03
50 lb	D	-224 mg	-224 mg	2300 mg	282 mg	2.03
50 lb	E	-229 mg	-229 mg	2300 mg	282 mg	2.03
50 lb	F	-994 mg	-994 mg	2300 mg	282 mg	2.03
50 lb	G	-219 mg	-219 mg	2300 mg	282 mg	2.03
50 lb	H	-1719 mg	-19 mg	2300 mg	282 mg	2.03
50 lb	I	-2964 mg	-49 mg	2300 mg	282 mg	2.03
50 lb	J	-519 mg	-519 mg	2300 mg	282 mg	2.03
50 lb	K	-1784 mg	-59 mg	2300 mg	282 mg	2.03
50 lb	L	-3739 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	M	-34 mg	-34 mg	2300 mg	282 mg	2.03
50 lb	MA-C1	-589 mg	-589 mg	2300 mg	282 mg	2.03
50 lb	N	-849 mg	-849 mg	2300 mg	282 mg	2.03
50 lb	Q	-744 mg	-744 mg	2300 mg	282 mg	2.03


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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russei St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/22/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.3
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	49.5%
Equipment Used:	Mettler KA-30/ Valsala PTU301	Pressure (mm/Hg):	721.8

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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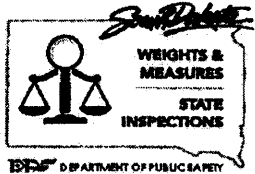
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	S	-549 mg	-549 mg	2300 mg	282 mg	2.03
50 lb	SC-14	-559 mg	-559 mg	2300 mg	282 mg	2.03
50 lb	SC-15	-914 mg	-914 mg	2300 mg	282 mg	2.03
50 lb	SC-3	-609 mg	-609 mg	2300 mg	282 mg	2.03
50 lb	SC-48	-5354 mg	51 mg	2300 mg	282 mg	2.03
60 lb	SC-7	-504 mg	-504 mg	2300 mg	282 mg	2.03
50 lb	SC-C4	156 mg	156 mg	2300 mg	282 mg	2.03
50 lb	SC-C51	-8394 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	SC-C56	-5064 mg	31 mg	2300 mg	282 mg	2.03
50 lb	SC-CA	-5394 mg	-14 mg	2300 mg	282 mg	2.03
50 lb	SCH-50-006	-1104 mg	-1104 mg	2300 mg	282 mg	2.03
50 lb	SCH-50-010	-9234 mg	-4 mg	2300 mg	282 mg	2.03
50 lb	SCH-50-016	-344 mg	-344 mg	2300 mg	282 mg	2.03
50 lb	TS-C56	-8104 mg	-19 mg	2300 mg	282 mg	2.03
50 lb	V	-354 mg	-354 mg	2300 mg	282 mg	2.03


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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/22/18
Artifacts Submitted	25 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.3
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	49.5%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	721.6

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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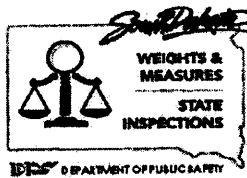
Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
25 lb	GE-1A	-1319 mg	-89 mg	1100 mg	139 mg	2.05
25 lb	SC-25-1	-4104 mg	21 mg	1100 mg	139 mg	2.05
25 lb	TS-D8	-3329 mg	26 mg	1100 mg	139 mg	2.05



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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/23/18
Artifacts Submitted	22 piece lb kit SN 031012B	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.1
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	52
		Pressure (mm/Hg):	720.3

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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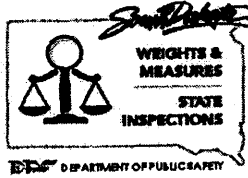
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	64 mg	64 mg	230 mg	30 mg	2.17
5 lb	2	53 mg	53 mg	230 mg	30 mg	2.17
5 lb	3	45 mg	45 mg	230 mg	30 mg	2.17
5 lb	4	74 mg	74 mg	230 mg	30 mg	2.17
5 lb	5	43 mg	43 mg	230 mg	30 mg	2.17
1 lb	1	23.6 mg	23.6 mg	70 mg	9.2 mg	2.18
1 lb	2	13.6 mg	13.6 mg	70 mg	9.2 mg	2.18
1 lb	3	18.6 mg	18.6 mg	70 mg	9.2 mg	2.18
1 lb	4	24.6 mg	24.6 mg	70 mg	9.2 mg	2.18
1 lb	5	12.6 mg	12.6 mg	70 mg	9.2 mg	2.18
0.5 lb		7.1 mg	7.1 mg	45 mg	6.0 mg	2.17
0.2 lb		2.7 mg	2.7 mg	18 mg	2.3 mg	2.17
0.2 lb		4.0 mg	4.0 mg	18 mg	2.3 mg	2.17
0.1 lb		0.6 mg	0.6 mg	9.1 mg	1.2 mg	2.17
0.05 lb		0.54 mg	0.54 mg	4.5 mg	0.58 mg	2.17
0.02 lb		0.70 mg	0.70 mg	1.8 mg	0.23 mg	2.17
0.02 lb		0.45 mg	0.45 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.44 mg	0.44 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.78 mg	0.78 mg	1.2 mg	0.16 mg	2.13
0.002 lb		0.58 mg	0.58 mg	0.87 mg	0.11 mg	2.13
0.002 lb		0.46 mg	0.46 mg	0.87 mg	0.11 mg	2.13
0.001 lb		0.33 mg	0.33 mg	0.7 mg	0.09 mg	2.13


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Submitted by:	Scale Center (Sterling)	Report Number:	MP3776
Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/23/18
Artifacts Submitted	22 Piece Metric Kit SN SC-2006-2	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.1
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity (%):	52
		Pressure (mm/Hg):	720.3

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
2 kg		53 mg	53 mg	200 mg	26 mg	2.18
1 kg		20 mg	20 mg	100 mg	13 mg	2.18
500 g		18 mg	18 mg	70 mg	9 mg	2.18
200 g		17.9 mg	17.9 mg	40 mg	5.2 mg	2.18
200 g		19.3 mg	19.3 mg	40 mg	5.2 mg	2.18
100 g		5.4 mg	5.4 mg	20 mg	2.6 mg	2.17
50 g		3.6 mg	3.6 mg	10 mg	1.3 mg	2.17
20 g		1.4 mg	1.4 mg	4.0 mg	0.5 mg	2.17
20 g		1.36 mg	1.36 mg	4.0 mg	0.52 mg	2.17
10 g		0.91 mg	0.91 mg	2.0 mg	0.26 mg	2.17
5 g		0.54 mg	0.54 mg	1.5 mg	0.19 mg	2.17
2 g		0.51 mg	0.51 mg	1.1 mg	0.15 mg	2.17
2 g		0.26 mg	0.26 mg	1.1 mg	0.15 mg	2.17
1 g		0.33 mg	0.33 mg	0.90 mg	0.12 mg	2.17
500 mg		0.37 mg	0.37 mg	0.72 mg	0.09 mg	2.13
200 mg		0.269 mg	0.269 mg	0.54 mg	0.069 mg	2.13
200 mg		0.236 mg	0.236 mg	0.54 mg	0.069 mg	2.13
100 mg		0.166 mg	0.166 mg	0.43 mg	0.057 mg	2.13
50 mg		0.024 mg	0.024 mg	0.35 mg	0.046 mg	2.13
20 mg		0.083 mg	0.083 mg	0.28 mg	0.036 mg	2.13
20 mg		0.130 mg	0.130 mg	0.26 mg	0.036 mg	2.13
10 mg		0.102 mg	0.102 mg	0.21 mg	0.035 mg	2.13


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Mailing Address:	2900 W Russel St	Date Received:	02/21/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/23/18
Artifacts Submitted	21 Piece Metric Kit SN 030512B	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2016	Temperature (c):	21.1
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity (%):	52
		Pressure (mm/Hg):	720.3

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

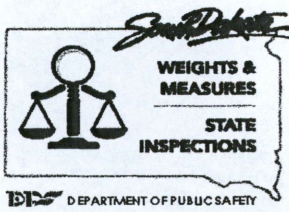
Standards Used: SD Lab Working Standards.

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Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		68 mg	68 mg	500 mg	65 mg	2.18
2 kg		82 mg	82 mg	200 mg	26 mg	2.18
2 kg		78 mg	78 mg	200 mg	26 mg	2.18
1 kg		29 mg	29 mg	100 mg	13 mg	2.18
500 g		12.7 mg	12.7 mg	70 mg	9.1 mg	2.18
200 g		16.3 mg	16.3 mg	40 mg	5.2 mg	2.18
200 g		14.5 mg	14.5 mg	40 mg	5.2 mg	2.18
100 g		7.0 mg	7.0 mg	20 mg	2.6 mg	2.17
50 g		2.2 mg	2.2 mg	10 mg	1.3 mg	2.17
20 g		1.7 mg	1.7 mg	4 mg	0.52 mg	2.17
20 g		0.36 mg	0.36 mg	4 mg	0.52 mg	2.17
10 g		0.49 mg	0.49 mg	2 mg	0.26 mg	2.17
5 g		0.68 mg	0.68 mg	1.5 mg	0.19 mg	2.17
2 g		0.45 mg	0.45 mg	1.1 mg	0.15 mg	2.17
2 g		0.38 mg	0.38 mg	1.1 mg	0.15 mg	2.17
1 g		0.18 mg	0.18 mg	0.9 mg	0.12 mg	2.17
500 mg		0.268 mg	0.268 mg	0.72 mg	0.091 mg	2.13
200 mg		0.228 mg	0.228 mg	0.54 mg	0.069 mg	2.13
200 mg		0.245 mg	0.245 mg	0.54 mg	0.069 mg	2.13
100 mg		0.092 mg	0.092 mg	0.43 mg	0.057 mg	2.13
10 mg		0.029 mg	0.029 mg	0.21 mg	0.035 mg	2.13


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South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

REPORT OF CALIBRATION

LAB TEST NUMBER: MP3775
DATE OF REPORT: 02/21/2018
DATE RECEIVED: 02/16/2018
DATE OF TEST: 02/20/2018



Submitted By: Scale Center (Ford)
Contact: Tim Huber
Mailing Address: 2900 W Russel St
City, State, Zip: Sioux Falls, SD 57107
Phone: 605-838-7107
S/A Number: 1

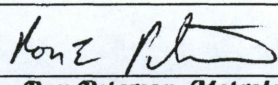
Standards Submitted:

- | | |
|----------------------|---------------------|
| 1 - 3000 lb cart | 3 - metric kit |
| 18 - 1000 lb weights | 5 - avoirdupois kit |
| 30 - 50 lb weights | |

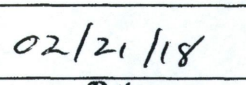
Uncertainty Statement: The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. The combined standard uncertainty is multiplied by a coverage factor k to provide an expanded uncertainty which defines an interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the 1995 ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application.

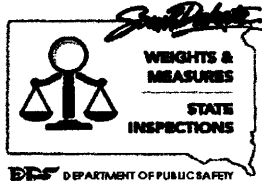
Traceability statement:
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

This document does not represent or imply endorsement by NIST Office of Weights and Measures or any agency of the State and/or national governments. The reported test values relate only to the observations made at the time and conditions of the test. This report may not be reproduced, except in full without the written approval of this laboratory. The client must not use this document to claim product endorsement by this laboratory.


Ron Peterson, Metrologist




Date



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 Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Manufacturer:	Dunbar	Condition of Cart:	FAIR
Serial Number:	86610842	Temperature (c):	23.7
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	13.0%
Nominal (lb):	3000	Pressure (mm/Hg):	720.4
Tolerance (lb):	1.00		

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory.

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=2.07)
-1.48	-0.02	0.22

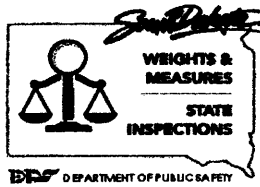
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, repairs or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, etc. will require calibration of the weight cart prior to subsequent use.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.


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Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	1000 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.2
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity (%):	50.3
Equipment Used:	Russell Balance/ Vaisala PTU301	Pressure (mm/Hg):	717.6

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

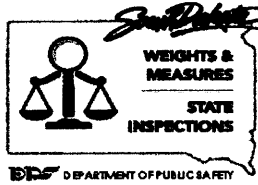
Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
1000 lb	1.10	-0.046 lb -20.8 g	-0.046 lb -20.8 g	45 g	5.9 g	2.04
1000 lb	2	-0.065 lb -29.5 g	-0.003 lb -1.4 g	45 g	5.9 g	2.04
1000 lb	3	-0.036 lb -16.5 g	-0.036 lb -16.5 g	45 g	5.9 g	2.04
1000 lb	4	-0.011 lb -5.1 g	-0.011 lb -5.1 g	45 g	5.9 g	2.04
1000 lb	5	-0.045 lb -20.3 g	-0.045 lb -20.3 g	45 g	5.9 g	2.04
1000 lb	6	-0.010 lb -4.5 g	-0.010 lb -4.5 g	45 g	5.9 g	2.04
1000 lb	7	-0.007 lb -3.1 g	-0.007 lb -3.1 g	45 g	5.9 g	2.04
1000 lb	8	-0.022 lb -9.9 g	-0.022 lb -9.9 g	45 g	5.9 g	2.04
1000 lb	9	-0.011 lb -4.9 g	-0.011 lb -4.9 g	45 g	5.9 g	2.04
1000 lb	10	-0.026 lb -11.9 g	-0.026 lb -11.9 g	45 g	5.9 g	2.04
1000 lb	11	-0.018 lb -7.9 g	-0.018 lb -7.9 g	45 g	5.9 g	2.04
1000 lb	13	-0.041 lb -18.6 g	-0.041 lb -18.6 g	45 g	5.9 g	2.04
1000 lb	14	-0.002 lb -0.7 g	-0.002 lb -0.7 g	45 g	5.9 g	2.04
1000 lb	15	-0.038 lb -17.5 g	-0.038 lb -17.5 g	45 g	5.9 g	2.04
1000 lb	18	-0.037 lb -17.0 g	-0.037 lb -17.0 g	45 g	5.9 g	2.04
1000 lb	A	0.083 lb 37.7 g	-0.008 lb -3.8 g	45 g	5.9 g	2.04
1000 lb	B	-0.007 lb -3.3 g	-0.007 lb -3.3 g	45 g	5.9 g	2.04
1000 lb	C	0.030 lb 13.6 g	0.030 lb 13.6 g	45 g	5.9 g	2.04


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Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.5%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	708.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

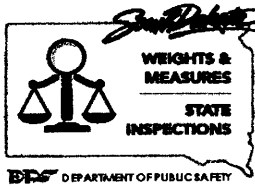
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	11	-144 mg	-144 mg	2300 mg	282 mg	2.03
50 lb	115	896 mg	896 mg	2300 mg	282 mg	2.03
50 lb	A	181 mg	181 mg	2300 mg	282 mg	2.03
50 lb	BB	396 mg	396 mg	2300 mg	282 mg	2.03
50 lb	CH.50.012	-319 mg	-319 mg	2300 mg	282 mg	2.03
50 lb	CH.50.024	461 mg	461 mg	2300 mg	282 mg	2.03
50 lb	EE	591 mg	591 mg	2300 mg	282 mg	2.03
50 lb	F	-234 mg	-234 mg	2300 mg	282 mg	2.03
50 lb	G	-709 mg	-709 mg	2300 mg	282 mg	2.03
50 lb	JJ	1296 mg	1296 mg	2300 mg	282 mg	2.03
50 lb	K	1561 mg	-29 mg	2300 mg	282 mg	2.03
50 lb	KK	466 mg	466 mg	2300 mg	282 mg	2.03
50 lb	LC-91	-49 mg	-49 mg	2300 mg	282 mg	2.03
50 lb	MA-102	-279 mg	-279 mg	2300 mg	282 mg	2.03
50 lb	NN	1086 mg	1086 mg	2300 mg	282 mg	2.03
50 lb	Q	596 mg	596 mg	2300 mg	282 mg	2.03
50 lb	QQ	-214 mg	-214 mg	2300 mg	282 mg	2.03
50 lb	R	1041 mg	1041 mg	2300 mg	282 mg	2.03
50 lb	RR	766 mg	766 mg	2300 mg	282 mg	2.03
50 lb	S	846 mg	846 mg	2300 mg	282 mg	2.03


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Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.5%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	708.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

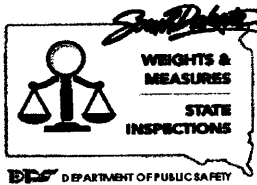
Standards Used: SD Lab Working Standards.

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Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	SC-101	846 mg	846 mg	2300 mg	282 mg	2.03
50 lb	SC-100	-124 mg	-124 mg	2300 mg	282 mg	2.03
50 lb	SC-108	-1169 mg	-1169 mg	2300 mg	282 mg	2.03
50 lb	SC-46	-489 mg	-489 mg	2300 mg	282 mg	2.03
50 lb	SC-C27	-534 mg	-534 mg	2300 mg	282 mg	2.03
50 lb	SC-C35	-1154 mg	-1154 mg	2300 mg	282 mg	2.03
50 lb	SC-C55	121 mg	121 mg	2300 mg	282 mg	2.03
50 lb	TS-C11	386 mg	386 mg	2300 mg	282 mg	2.03
50 lb	TS-C63	-524 mg	-524 mg	2300 mg	282 mg	2.03
50 lb	TS-C92	166 mg	166 mg	2300 mg	282 mg	2.03


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Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/21/18
Artifacts Submitted	26 piece lb kit SN 041304	Condition of Weights:	FAIR
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	47.5
		Pressure (mm/Hg):	725.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.
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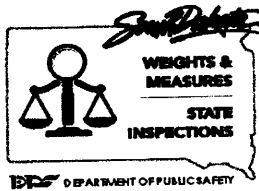
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	26 mg	26 mg	230 mg	30 mg	2.17
5 lb	2	-133 mg	-133 mg	230 mg	30 mg	2.17
5 lb	3	24 mg	24 mg	230 mg	30 mg	2.17
5 lb	4	-38 mg	-38 mg	230 mg	30 mg	2.17
5 lb	5	-20 mg	-20 mg	230 mg	30 mg	2.17
1 lb	1	48.6 mg	48.6 mg	70 mg	9.2 mg	2.18
1 lb	2	-44.4 mg	-44.4 mg	70 mg	9.2 mg	2.18
1 lb	3	7.6 mg	7.6 mg	70 mg	9.2 mg	2.18
1 lb	4	-50.4 mg	-50.4 mg	70 mg	9.2 mg	2.18
1 lb	64	-15.4 mg	-15.4 mg	70 mg	9.2 mg	2.18
8 oz		8.1 mg	8.1 mg	45 mg	6.0 mg	2.17
4 oz		-1.4 mg	-1.4 mg	23 mg	3.0 mg	2.17
2 oz		-0.2 mg	-0.2 mg	11 mg	1.4 mg	2.17
1 oz		2.39 mg	2.39 mg	5.4 mg	0.69 mg	2.17
1/2 oz		0.25 mg	0.25 mg	2.8 mg	0.36 mg	2.17
1/4 oz		0.09 mg	0.09 mg	1.7 mg	0.22 mg	2.17
1/8 oz		0.30 mg	0.30 mg	1.3 mg	0.17 mg	2.17
1/16 oz		0.02 mg	0.02 mg	1.1 mg	0.14 mg	2.17
1/32 oz		0.78 mg	0.78 mg	0.87 mg	0.11 mg	2.17
0.1 lb		0.6 mg	0.6 mg	9.1 mg	1.2 mg	2.17
0.05 lb		0.46 mg	0.46 mg	4.5 mg	0.58 mg	2.17
0.05 lb		0.33 mg	0.33 mg	4.5 mg	0.58 mg	2.17
0.02 lb		1.33 mg	1.33 mg	1.8 mg	0.23 mg	2.17
0.02 lb		2.33 mg	2.33 mg	1.8 mg	0.23 mg	2.17
0.01 lb		3.33 mg	3.33 mg	1.5 mg	0.19 mg	2.17
0.005 lb		4.33 mg	4.33 mg	1.2 mg	0.16 mg	2.13


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www.dps.sd.gov



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Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/21/18
Artifacts Submitted	18 piece lb kit SN SC-4-87	Condition of Weights:	FAIR
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	47.5
		Pressure (mm/Hg):	725.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.
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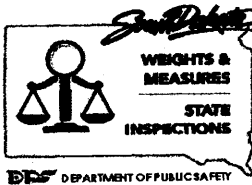
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
10 lb	1	24 mg	24 mg	450 mg	58 mg	2.17
10 lb	2	-81 mg	-81 mg	450 mg	58 mg	2.17
5 lb		32 mg	32 mg	230 mg	30 mg	2.17
1 lb	1	-26 mg	-26 mg	70 mg	9 mg	2.18
1 lb	2	-24 mg	-24 mg	70 mg	9 mg	2.18
1 lb	3	5.6 mg	5.6 mg	70 mg	9.2 mg	2.18
1 lb	4	-22.4 mg	-22.4 mg	70 mg	9.2 mg	2.18
1 lb	5	17.6 mg	17.6 mg	70 mg	9.2 mg	2.18
4 oz	1	3.1 mg	3.1 mg	23 mg	3.0 mg	2.17
4 oz	2	0.0 mg	0.0 mg	23 mg	3.0 mg	2.17
4 oz		2.6 mg	2.6 mg	23 mg	3.0 mg	2.17
1 oz		0.97 mg	0.97 mg	5.4 mg	0.69 mg	2.17
1 oz	.	1.77 mg	1.77 mg	5.4 mg	0.69 mg	2.17
1 oz	..	2.01 mg	2.01 mg	5.4 mg	0.69 mg	2.17
1/2 oz		1.51 mg	1.51 mg	2.8 mg	0.36 mg	2.17
1/2 oz	.	1.19 mg	1.19 mg	2.8 mg	0.36 mg	2.17
1/4 oz		0.70 mg	0.70 mg	1.7 mg	0.22 mg	2.17
1/4 oz	.	0.98 mg	0.98 mg	1.7 mg	0.22 mg	2.17


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Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/21/18
Artifacts Submitted	20 piece lb kit SN MAS-2A86	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	47.5
		Pressure (mm/Hg):	725.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.
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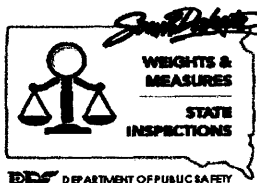
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	91 mg	91 mg	230 mg	29.50492 mg	2.17
5 lb	2	-192 mg	-192 mg	230 mg	30 mg	2.17
5 lb	3	86 mg	86 mg	230 mg	30 mg	2.17
5 lb	4	65 mg	65 mg	230 mg	30 mg	2.17
5 lb	5	104 mg	104 mg	230 mg	30 mg	2.17
1 lb	1	-5.4 mg	-5.4 mg	70 mg	9.2 mg	2.18
1 lb	2	2.6 mg	2.6 mg	70 mg	9.2 mg	2.18
1 lb	3	19.6 mg	19.6 mg	70 mg	9.2 mg	2.18
1 lb	4	0.6 mg	0.6 mg	70 mg	9.2 mg	2.18
1 lb	5	-19.4 mg	-19.4 mg	70 mg	9.2 mg	2.18
8 oz		24.1 mg	24.1 mg	45 mg	6.0 mg	2.17
4 oz		4.7 mg	4.7 mg	23 mg	3.0 mg	2.17
2 oz		4.0 mg	4.0 mg	11 mg	1.4 mg	2.17
1 oz		1.23 mg	1.23 mg	5.4 mg	0.69 mg	2.17
1/2 oz		0.34 mg	0.34 mg	2.8 mg	0.36 mg	2.17
1/4 oz		-0.17 mg	-0.17 mg	1.7 mg	0.22 mg	2.17
1/8 oz		0.11 mg	0.11 mg	1.3 mg	0.17 mg	2.17
1/16 oz		0.26 mg	0.26 mg	1.1 mg	0.14 mg	2.17
1/32 oz		0.78 mg	0.78 mg	0.87 mg	0.11 mg	2.17
1/32 oz		0.58 mg	0.58 mg	0.87 mg	0.11 mg	2.17


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Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/21/18
Artifacts Submitted	15 piece lb kit SN 041204	Condition of Weights:	POOR
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	20.9
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	47.5
		Pressure (mm/Hg):	725.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

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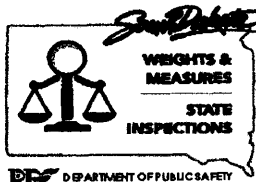
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	-65 mg	-65 mg	230 mg	30 mg	2.17
5 lb	4	-68 mg	-68 mg	230 mg	30 mg	2.17
5 lb	5	-34 mg	-34 mg	230 mg	30 mg	2.17
1 lb	1	-7 mg	-7 mg	70 mg	9 mg	2.18
1 lb	2	-16 mg	-16 mg	70 mg	9 mg	2.18
1 lb	3	-14.4 mg	-14.4 mg	70 mg	9.2 mg	2.18
1 lb	4	-23.4 mg	-23.4 mg	70 mg	9.2 mg	2.18
1 lb	5	-11.4 mg	-11.4 mg	70 mg	9.2 mg	2.18
0.1 lb		2.0 mg	2.0 mg	9.1 mg	1.2 mg	2.17
0.05 lb		-0.4 mg	-0.4 mg	4.5 mg	0.6 mg	2.17
0.05 lb		2.0 mg	2.0 mg	4.5 mg	0.6 mg	2.17
0.02 lb		-0.01 mg	-0.01 mg	1.8 mg	0.23 mg	2.17
0.02 lb		-0.02 mg	-0.02 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.12 mg	0.12 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.09 mg	0.09 mg	1.2 mg	0.16 mg	2.13


Ron Peterson, Metrologist

02/21/2018
Date of Report

Office of Weights and Measures
118 W. Capitol Ave.
Pierre, SD 57501

Phone: 605-773-3697
Fax: 605-773-6631
www.dps.sd.gov



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	
Artifacts Submitted	22 piece lb kit SN SC001	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.1
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	44.2
		Pressure (mm/Hg):	721.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

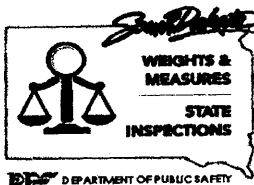
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
2 lb	1	-9 mg	-9 mg	91 mg	12 mg	2.17
2 lb	2	21 mg	21 mg	91 mg	12 mg	2.17
2 lb	3	68 mg	68 mg	91 mg	12 mg	2.17
2 lb	4	-7 mg	-7 mg	91 mg	12 mg	2.17
2 lb	5	10 mg	10 mg	91 mg	12 mg	2.17
2 lb	6	17 mg	17 mg	91 mg	12 mg	2.17
2 lb	7	5 mg	5 mg	91 mg	12 mg	2.17
2 lb	8	-6 mg	-6 mg	91 mg	12 mg	2.17
2 lb	9	-4 mg	-4 mg	91 mg	12 mg	2.17
2 lb	10	-24 mg	-24 mg	91 mg	12 mg	2.17
2 lb	11	1 mg	1 mg	91 mg	12 mg	2.17
2 lb	12	2 mg	2 mg	91 mg	12 mg	2.17
2 lb	13	12 mg	12 mg	91 mg	12 mg	2.17
2 lb	14	-1 mg	-1 mg	91 mg	12 mg	2.17
1 lb	1	-5.4 mg	-5.4 mg	70 mg	9.2 mg	2.18
1 lb	2	-8.4 mg	-8.4 mg	70 mg	9.2 mg	2.18
8 oz		8.1 mg	8.1 mg	45 mg	6.0 mg	2.17
4 oz		-2.7 mg	-2.7 mg	23 mg	3.0 mg	2.17
2 oz		0.8 mg	0.8 mg	11 mg	1.4 mg	2.17
1 oz		0.58 mg	0.58 mg	5.4 mg	0.69 mg	2.17
1/2 oz		0.46 mg	0.46 mg	2.8 mg	0.36 mg	2.17
1/4 oz		0.33 mg	0.33 mg	1.7 mg	0.22 mg	2.17

Ron Peterson, Metrologist

02/21/2018
Date of Report

Office of Weights and Measures
118 W. Capitol Ave.
Pierre, SD 57501

Phone:605-773-3697
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www.dps.sd.gov



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	21 Piece Metric Kit SN SC2000	Condition of Weights:	FAIR
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.4
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity (%):	48
		Pressure (mm/Hg):	720

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

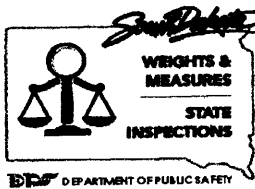
Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		146 mg	146 mg	500 mg	65 mg	2.18
1 kg		36 mg	36 mg	100 mg	13 mg	2.18
1 kg	Short	-11 mg	-11 mg	100 mg	13 mg	2.18
500 g		21.7 mg	21.7 mg	70 mg	9.1 mg	2.18
200 g		13.3 mg	13.3 mg	40 mg	5.2 mg	2.18
200 g		15.3 mg	15.3 mg	40 mg	5.2 mg	2.18
100 g		4.4 mg	4.4 mg	20 mg	2.6 mg	2.17
50 g		4.2 mg	4.2 mg	10 mg	1.3 mg	2.17
20 g		1.44 mg	1.44 mg	4 mg	0.52 mg	2.17
20 g		2.03 mg	2.03 mg	4 mg	0.52 mg	2.17
10 g		0.80 mg	0.80 mg	2 mg	0.26 mg	2.17
5 g		0.43 mg	0.43 mg	1.5 mg	0.19 mg	2.17
2 g		0.82 mg	0.82 mg	1.1 mg	0.15 mg	2.17
2 g		0.19 mg	0.19 mg	1.1 mg	0.15 mg	2.17
1 g		0.38 mg	0.38 mg	0.9 mg	0.12 mg	2.17
200 mg		0.124 mg	0.124 mg	0.54 mg	0.069 mg	2.13
200 mg		0.288 mg	0.288 mg	0.54 mg	0.069 mg	2.13
100 mg		0.228 mg	0.228 mg	0.43 mg	0.057 mg	2.13
50 mg		0.245 mg	0.245 mg	0.35 mg	0.046 mg	2.13
20 mg		0.092 mg	0.092 mg	0.26 mg	0.036 mg	2.13
10 mg		0.029 mg	0.029 mg	0.21 mg	0.035 mg	2.13


Ron Peterson, Metrologist

02/21/2018
Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	24 Piece Metric Kit SN SC-2006-1	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.4
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity (%):	48
		Pressure (mm/Hg):	720

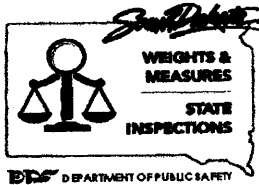
Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		194 mg	194 mg	500 mg	65 mg	2.18
2 kg		43 mg	43 mg	200 mg	26 mg	2.18
2 kg		42 mg	42 mg	200 mg	26 mg	2.18
1 kg		13 mg	13 mg	100 mg	13 mg	2.18
500 g		21.7 mg	21.7 mg	70 mg	9.1 mg	2.18
200 g		14.3 mg	14.3 mg	40 mg	5.2 mg	2.18
200 g		17.5 mg	17.5 mg	40 mg	5.2 mg	2.18
100 g		7.5 mg	7.5 mg	20 mg	2.6 mg	2.17
50 g		4.4 mg	4.4 mg	10 mg	1.3 mg	2.17
20 g		1.73 mg	1.73 mg	4 mg	0.52 mg	2.17
20 g		1.56 mg	1.56 mg	4 mg	0.52 mg	2.17
10 g		0.41 mg	0.41 mg	2 mg	0.26 mg	2.17
5 g		0.56 mg	0.56 mg	1.5 mg	0.19 mg	2.17
2 g		0.34 mg	0.34 mg	1.1 mg	0.15 mg	2.17
2 g		0.44 mg	0.44 mg	1.1 mg	0.15 mg	2.17
1 g		0.13 mg	0.13 mg	0.9 mg	0.12 mg	2.17
500 mg		0.288 mg	0.288 mg	0.72 mg	0.091 mg	2.13
200 mg		0.228 mg	0.228 mg	0.54 mg	0.069 mg	2.13
200 mg		0.245 mg	0.245 mg	0.54 mg	0.069 mg	2.13
100 mg		0.092 mg	0.092 mg	0.43 mg	0.057 mg	2.13
50 mg		0.029 mg	0.029 mg	0.35 mg	0.046 mg	2.13
20 mg		0.066 mg	0.066 mg	0.26 mg	0.036 mg	2.13
20 mg		0.137 mg	0.137 mg	0.26 mg	0.036 mg	2.13
10 mg		0.030 mg	0.030 mg	0.21 mg	0.035 mg	2.13


Ron Peterson, Metrologist

02/21/2018
Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center (Ford)	Report Number:	MP3775
Mailing Address:	2900 W Russel St	Date Received:	02/16/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/20/18
Artifacts Submitted	24 Piece Metric Kit SN 31609A	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	21.4
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity (%):	48
		Pressure (mm/Hg):	720

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

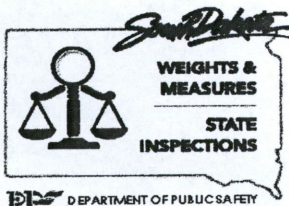
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		178 mg	178 mg	500 mg	65 mg	2.18
2 kg		76 mg	76 mg	200 mg	26 mg	2.18
2 kg		55 mg	55 mg	200 mg	26 mg	2.18
1 kg		21 mg	21 mg	100 mg	13 mg	2.18
500 g		25.7 mg	25.7 mg	70 mg	9.1 mg	2.18
200 g		10.3 mg	10.3 mg	40 mg	5.2 mg	2.18
200 g		13.9 mg	13.9 mg	40 mg	5.2 mg	2.18
100 g		8.4 mg	8.4 mg	20 mg	2.6 mg	2.17
50 g		2.3 mg	2.3 mg	10 mg	1.3 mg	2.17
20 g		1.67 mg	1.67 mg	4 mg	0.52 mg	2.17
20 g		1.93 mg	1.93 mg	4 mg	0.52 mg	2.17
10 g		0.75 mg	0.75 mg	2 mg	0.26 mg	2.17
5 g		0.66 mg	0.66 mg	1.5 mg	0.19 mg	2.17
2 g		0.45 mg	0.45 mg	1.1 mg	0.15 mg	2.17
2 g		0.54 mg	0.54 mg	1.1 mg	0.15 mg	2.17
1 g		0.42 mg	0.42 mg	0.9 mg	0.12 mg	2.17
500 mg		0.288 mg	0.288 mg	0.72 mg	0.091 mg	2.13
200 mg		0.228 mg	0.228 mg	0.54 mg	0.069 mg	2.13
200 mg		0.245 mg	0.245 mg	0.54 mg	0.069 mg	2.13
100 mg		0.092 mg	0.092 mg	0.43 mg	0.057 mg	2.13
50 mg		0.029 mg	0.029 mg	0.35 mg	0.046 mg	2.13
20 mg		0.066 mg	0.066 mg	0.26 mg	0.036 mg	2.13
20 mg		0.137 mg	0.137 mg	0.26 mg	0.036 mg	2.13
10 mg		0.030 mg	0.030 mg	0.21 mg	0.035 mg	2.13

End of Report



Ron Peterson, Metrologist

02/21/2018
Date of Report



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

REPORT OF CALIBRATION

LAB TEST NUMBER: MP3773
DATE OF REPORT: 02/15/2018
DATE RECEIVED: 02/13/2018
DATE OF TEST: 02/14/2018

Submitted By: Scale Center
Contact: Tim Huber
Mailing Address: 2900 W Russel St
City, State, Zip: Sioux Falls, SD 57107
Phone: 605-838-7107
S/A Number: 1

Standards Submitted:

- 1 - 3000 lb cart
- 18 - 1000 lb weights
- 50 - 50 lb weights
- 1 - metric kit
- 1 - avoirdupois kit

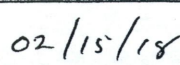
Uncertainty Statement: The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. The combined standard uncertainty is multiplied by a coverage factor *k* to provide an expanded uncertainty which defines an interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the 1995 ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application.

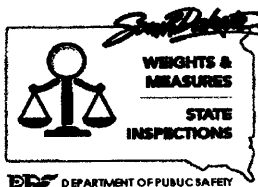
Traceability statement:
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

This document does not represent or imply endorsement by NIST Office of Weights and Measures or any agency of the State and/or national governments. The reported test values relate only to the observations made at the time and conditions of the test. This report may not be reproduced, except in full without the written approval of this laboratory. The client must not use this document to claim product endorsement by this laboratory.


Ron Peterson, Metrologist




Date



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/14/18
Manufacturer:	Dunbar	Condition of Cart:	FAIR
Serial Number:	86610842	Temperature (c):	20.5
Test Method Used:	SOP 33 Calibrations of Weight Carts, Jan 2016	Humidity:	23.0%
Nominal (lb):	3000	Pressure (mm/Hg):	706.6
Tolerance (lb):	1.00		

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory.

As Found (lb)	As Left (lb)	Uncertainty-lb. (k=2.07)
-1.62	0.00	0.22

The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, repairs or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, etc. will require calibration of the weight cart prior to subsequent use.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

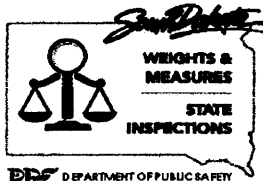
The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.



 Ron Peterson, Metrologist

02/15/2018

 Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/14/18
Artifacts Submitted	1000 lb weights	Condition of Weights:	GOOD
		Temperature (c):	22
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity (%):	50
Equipment Used:	Russel Balance/ Vaisala PTU301	Pressure (mm/Hg):	707

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

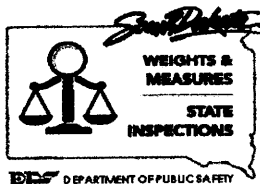
Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Serial Number	Correction As Found		Correction As Left		Tolerance	Uncertainty	k
1000 lb	1.09	-0.001 lb	-0.4 g	-0.001 lb	-0.4 g	45 g	5.9 g	2.04
1000 lb	2.09	0.001 lb	0.3 g	0.001 lb	0.3 g	45 g	5.9 g	2.04
1000 lb	3.09	-0.031 lb	-14.2 g	-0.031 lb	-14.2 g	45 g	5.9 g	2.04
1000 lb	4.09	0.012 lb	5.5 g	0.012 lb	5.5 g	45 g	5.9 g	2.04
1000 lb	5.09	0.043 lb	19.3 g	0.043 lb	19.3 g	45 g	5.9 g	2.04
1000 lb	6.08	-0.002 lb	-0.9 g	-0.002 lb	-0.9 g	45 g	5.9 g	2.04
1000 lb	7.09	-0.031 lb	-14.0 g	-0.031 lb	-14.0 g	45 g	5.9 g	2.04
1000 lb	8.09	0.018 lb	8.4 g	0.018 lb	8.4 g	45 g	5.9 g	2.04
1000 lb	9.09	0.010 lb	4.5 g	0.010 lb	4.5 g	45 g	5.9 g	2.04
1000 lb	10.09	-0.012 lb	-5.4 g	-0.012 lb	-5.4 g	45 g	5.9 g	2.04
1000 lb	11.09	0.019 lb	8.7 g	0.019 lb	8.7 g	45 g	5.9 g	2.04
1000 lb	12.09	0.062 lb	28.0 g	0.062 lb	28.0 g	45 g	5.9 g	2.04
1000 lb	13.09	0.005 lb	2.2 g	0.005 lb	2.2 g	45 g	5.9 g	2.04
1000 lb	14.09	0.036 lb	16.3 g	0.036 lb	16.3 g	45 g	5.9 g	2.04
1000 lb	15.09	0.059 lb	26.9 g	0.059 lb	26.9 g	45 g	5.9 g	2.04
1000 lb	16.09	-0.047 lb	-21.3 g	-0.047 lb	-21.3 g	45 g	5.9 g	2.04
1000 lb	17.09	-0.004 lb	-1.6 g	-0.004 lb	-1.6 g	45 g	5.9 g	2.04
1000 lb	17A	-0.021 lb	-9.6 g	-0.021 lb	-9.6 g	45 g	5.9 g	2.04


Ron Peterson, Metrologist

02/15/2018
Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/14/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.5%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	708.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

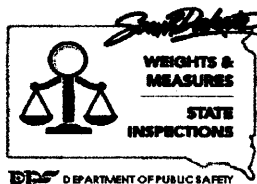
Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	B	-2454 mg	-119 mg	2300 mg	282 mg	2.03
50 lb	B	451 mg	451 mg	2300 mg	282 mg	2.03
50 lb	C	-719 mg	-719 mg	2300 mg	282 mg	2.03
50 lb	D	-229 mg	-229 mg	2300 mg	282 mg	2.03
50 lb	E	-1094 mg	-1094 mg	2300 mg	282 mg	2.03
50 lb	I	-579 mg	-579 mg	2300 mg	282 mg	2.03
50 lb	L	-304 mg	-304 mg	2300 mg	282 mg	2.03
50 lb	M	1211 mg	1211 mg	2300 mg	282 mg	2.03
50 lb	MA-206	381 mg	381 mg	2300 mg	282 mg	2.03
50 lb	N	46 mg	46 mg	2300 mg	282 mg	2.03
50 lb	O	311 mg	311 mg	2300 mg	282 mg	2.03
50 lb	P	1336 mg	1336 mg	2300 mg	282 mg	2.03
50 lb	SC-C14	581 mg	581 mg	2300 mg	282 mg	2.03
50 lb	SC-C166	-809 mg	-809 mg	2300 mg	282 mg	2.03
50 lb	SC-C19	846 mg	846 mg	2300 mg	282 mg	2.03
50 lb	SC-C21	-444 mg	-444 mg	2300 mg	282 mg	2.03
50 lb	SC-C25	126 mg	126 mg	2300 mg	282 mg	2.03
50 lb	SC-C26	686 mg	686 mg	2300 mg	282 mg	2.03
50 lb	SC-C29	301 mg	301 mg	2300 mg	282 mg	2.03
50 lb	SC-C36	-189 mg	-189 mg	2300 mg	282 mg	2.03
50 lb	SC-C4	-1564 mg	-74 mg	2300 mg	282 mg	2.03
50 lb	SC-C43	-724 mg	-724 mg	2300 mg	282 mg	2.03
50 lb	SC-C5	-979 mg	-979 mg	2300 mg	282 mg	2.03
50 lb	SC-C52	1166 mg	1166 mg	2300 mg	282 mg	2.03
50 lb	SC-C54	-394 mg	-394 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

02/15/2018
Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/14/18
Artifacts Submitted	50 lb weights	Condition of Weights:	GOOD
		Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity:	48.5%
Equipment Used:	Mettler KA-30/ Vaisala PTU301	Pressure (mm/Hg):	708.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

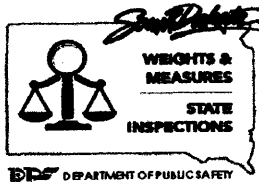
Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	k
50 lb	SCH.50.002	-2559 mg	-69 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.003	-1759 mg	41 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.004	-1354 mg	26 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.005	-159 mg	-159 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.008	-934 mg	-934 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.011	-144 mg	-144 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.013	-1184 mg	1 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.014	1276 mg	1276 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.015	1341 mg	1341 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.017	661 mg	661 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.018	-2424 mg	31 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.019	-634 mg	-634 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.020	-2404 mg	-9 mg	2300 mg	282 mg	2.03
50 lb	SCH.50.080	-1569 mg	11 mg	2300 mg	282 mg	2.03
50 lb	TS-57	71 mg	71 mg	2300 mg	282 mg	2.03
50 lb	TS-C1	541 mg	541 mg	2300 mg	282 mg	2.03
50 lb	TS-C46	-714 mg	-714 mg	2300 mg	282 mg	2.03
50 lb	TS-C47	-489 mg	-489 mg	2300 mg	282 mg	2.03
50 lb	TS-C51	-1384 mg	-59 mg	2300 mg	282 mg	2.03
50 lb	TS-C53	-1274 mg	51 mg	2300 mg	282 mg	2.03
50 lb	TS-C54	196 mg	196 mg	2300 mg	282 mg	2.03
50 lb	TS-C55	686 mg	686 mg	2300 mg	282 mg	2.03
50 lb	TS-C58	-1629 mg	56 mg	2300 mg	282 mg	2.03
50 lb	TS-C65	-1404 mg	-54 mg	2300 mg	282 mg	2.03
50 lb	TS-C93	36 mg	36 mg	2300 mg	282 mg	2.03


Ron Peterson, Metrologist

02/15/2018
Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/15/18
Artifacts Submitted	22 piece avoirdupois kit SN 031012A	Condition of Weights:	GOOD
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Temperature (c):	22.2
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Humidity:	53.7
		Pressure (mm/Hg):	710.7

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

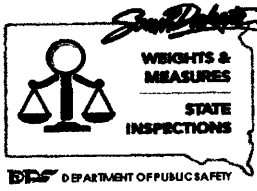
Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	95 mg	30 mg	230 mg	29.50492 mg	2.17
5 lb	2	72 mg	-74 mg	230 mg	30 mg	2.17
5 lb	3	40 mg	34 mg	230 mg	30 mg	2.17
5 lb	4	71 mg	-24 mg	230 mg	30 mg	2.17
5 lb	5	40 mg	-21 mg	230 mg	30 mg	2.17
1 lb	1	20.6 mg	6.6 mg	70 mg	9.2 mg	2.18
1 lb	2	22.6 mg	-22.4 mg	70 mg	9.2 mg	2.18
1 lb	3	11.6 mg	18.6 mg	70 mg	9.2 mg	2.18
1 lb	4	21.6 mg	3.7 mg	70 mg	9.2 mg	2.18
1 lb	5	29.6 mg	0.5 mg	70 mg	9.2 mg	2.18
0.5 lb		13.1 mg	2.8 mg	45 mg	6.0 mg	2.17
0.2 lb		8.4 mg	1.2 mg	18 mg	2.3 mg	2.17
0.2 lb		7.2 mg	1.8 mg	18 mg	2.3 mg	2.17
0.1 lb		4.6 mg	2.0 mg	9.1 mg	1.2 mg	2.17
0.05 lb		1.80 mg	1.54 mg	4.5 mg	0.58 mg	2.17
0.02 lb		0.52 mg	1.22 mg	1.8 mg	0.23 mg	2.17
0.02 lb		0.17 mg	0.75 mg	1.8 mg	0.23 mg	2.17
0.01 lb		0.42 mg	0.96 mg	1.5 mg	0.19 mg	2.17
0.005 lb		0.78 mg	0.78 mg	1.2 mg	0.16 mg	2.13
0.002 lb		0.58 mg	0.58 mg	0.87 mg	0.11 mg	2.13
0.002 lb		0.46 mg	0.46 mg	0.87 mg	0.11 mg	2.13
0.001 lb		0.33 mg	0.33 mg	0.7 mg	0.09 mg	2.13


Ron Peterson, Metrologist

02/15/2018
Date of Report

Office of Weights and Measures
118 W. Capitol Ave.
Pierre, SD 57501

Phone: 605-773-3697
Fax: 605-773-6631
www.dps.sd.gov



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by:	Scale Center	Report Number:	MP3773
Mailing Address:	2900 W Russel St	Date Received:	02/13/18
City, State, Zip:	Sioux Falls, SD 57107	Date tested:	02/14/18
Artifacts Submitted	24 piece Metric kit	Condition of Weights:	GOOD
	SN 030512A	Temperature (c):	21.8
Test Method Used:	SOP 8/ MODIFIED SUB, Jun 2015	Humidity (%):	51
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Veisala PTU301	Pressure (mm/Hg):	706.8

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
 Standards Used: SD Lab Working Standards.
 The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 kg		55 mg	55 mg	500 mg	65 mg	2.18
2 kg		76 mg	76 mg	200 mg	26 mg	2.18
2 kg		94 mg	94 mg	200 mg	26 mg	2.18
1 kg		30 mg	30 mg	100 mg	13 mg	2.18
500 g		13.7 mg	13.7 mg	70 mg	9.1 mg	2.18
200 g		12.7 mg	12.7 mg	40 mg	5.2 mg	2.18
200 g		8.7 mg	8.7 mg	40 mg	5.2 mg	2.18
100 g		8.3 mg	8.3 mg	20 mg	2.6 mg	2.17
50 g		1.2 mg	1.2 mg	10 mg	1.3 mg	2.17
20 g		1.60 mg	1.60 mg	4 mg	0.52 mg	2.17
20 g		1.46 mg	1.46 mg	4 mg	0.52 mg	2.17
10 g		0.78 mg	0.78 mg	2 mg	0.26 mg	2.17
5 g		0.80 mg	0.80 mg	1.5 mg	0.19 mg	2.17
2 g		0.16 mg	0.16 mg	1.1 mg	0.15 mg	2.17
2 g		0.28 mg	0.28 mg	1.1 mg	0.15 mg	2.17
1 g		0.24 mg	0.24 mg	0.9 mg	0.12 mg	2.17
500 mg		0.288 mg	0.288 mg	0.72 mg	0.091 mg	2.13
200 mg		0.228 mg	0.228 mg	0.54 mg	0.069 mg	2.13
200 mg		0.245 mg	0.245 mg	0.54 mg	0.069 mg	2.13
100 mg		0.092 mg	0.092 mg	0.43 mg	0.057 mg	2.13
50 mg		0.029 mg	0.029 mg	0.35 mg	0.046 mg	2.13
20 mg		0.066 mg	0.066 mg	0.26 mg	0.036 mg	2.13
20 mg		0.137 mg	0.137 mg	0.26 mg	0.036 mg	2.13
10 mg		0.030 mg	0.030 mg	0.21 mg	0.035 mg	2.13

End of Report


 Ron Peterson, Metrologist

02/15/2018
 Date of Report

United States Department of Commerce

National Institute of Standards and Technology

Certificate of Metrological Traceability For:

South Dakota

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2005.

Scope

- Mass Echelon III
- 30 kg to 1 mg
- 1000 lb to 0.001 lb
- 8 oz to 0.03125 oz
- Weight Carts
- 4000 lb to 2000 lb
- Volume Transfer, II
- 5 gal



2018

Douglas A. Olson

Douglas A. Olson, Chief
NIST Office of Weights and Measures

Effective Dates: 2018-01-01 to 2018-12-31