

**SOUTH DAKOTA DEPARTMENT OF
PUBLIC SAFETY**
Office of Weights & Measures

SOUTH DAKOTA OFFICE OF WEIGHTS AND MEASURES METROLOGY LAB

REPORT OF TEST # M3158
DATE OF REPORT: 08/23/2010
DATE RECEIVED: 08/16/2010
DATE OF TEST: 08/16-19/2010

The field standards described below have been examined by the State of South Dakota and found to be appropriate for the intended use and to be accurate within **Class "F" Tolerances** as established by the National Institute of Standards and Technology-Weights and Measures Division. Laboratory working standards used were calibrated by the NIST recognized/traceable metrology lab in the States of Minnesota and Michigan (MN Test Report numbers 320684, 320685, 320686, 320687, 320688, 320693, 320858. Calibration date Sept./Oct. 2006, MI Test Report number MI-01-09-9674. Calibration date Jan. 2009.) Test methods are in accordance with NIST Handbook 145 and NIST IR 6969. All established Uncertainties are less than 1/3 applicable Class "F" tolerances.

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.

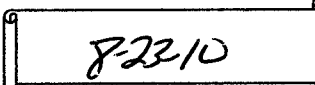
Submitted By: K-SCALE
Mailing Address: 1701 W MADISON
City, State, Zip: SIOUX FALLS, SD 57104
Phone: 605.334.8003
S/A Number: 90

Standards Submitted:

2-WEIGHT CARTS
23-1000 lb TEST WEIGHTS
40-50 lb TEST WEIGHTS
38-25 lb TEST WEIGHTS
1-20 kg TEST WEIGHT
1-20 lb TEST WEIGHT
6-WEIGHT KITS


Brad Stover, Metrologist




Date

SOUTH DAKOTA 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:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Manufacturer:	NA	Condition of Cart:	POOR
Serial Number:	NA	Temperature (F):	70.5
Test Method Used:	SOP 33/ Double Sub.	Humidity:	40%
Nominal (lb):	3000	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.

THE CART LISTED ON THIS REPORT DOES NOT CONFORM TO THE REQUIRMENTS OF NIST HANDBOOK 105-8

As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
1.45	0.03	0.13

The weight cart was cleaned and painted (if needed) and 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 were adjusted as close as possible to the full/reference marks. Liquid 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.

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 and have known values. The assigned test number provides documented evidence for measurement traceability



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Pierre, SD 57501

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Office: 118 West Capitol Avenue Phone: 605-773-3697

Pierre, SD 57501

Submitted by:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Manufacturer:	DUNBAR	Condition of Cart:	FAIR
Serial Number:	11111885	Temperature (F):	74.4
Test Method Used:	SOP 33/ Double Sub.	Humidity:	54%
Nominal (lb):	3000	Tolerance (lb);	1.00

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As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
-1.65	0.05	0.13

The weight cart was cleaned and painted (if needed) and 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 were adjusted as close as possible to the full/reference marks. Liquid 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.

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Submitted by:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	71.5
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	48%

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.

Nominal Value	Serial Number	Tolerance=0.10 lb	Uncertainty/lb= 0.019 (K=2)
		As Received lb	As Left lb
1000 lb	01	0.056	0.056
	02	0.062	0.062
	03	0.013	0.013
	04	-0.011	-0.011
	05	-0.050	-0.050
	06	0.058	0.058
	07	-0.022	-0.022
	08	-0.017	-0.017
	09	0.131	-0.006
	10	0.022	0.022
	11	0.019	0.019
	12	0.042	0.042
	13	0.016	0.016
	14	-0.024	-0.024
	15	0.027	0.027
	16	0.071	0.071
	17	0.008	0.008
	19	-0.034	-0.034
	23	0.049	0.049
	24	0.047	0.047
	25	0.130	0.007
	26	0.097	-0.005
122	0.017	0.017	



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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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.

Nominal=50 lb	As	As	Tolerance-mg	Uncertainty-mg (K=2)
Serial Number	Received (mg)	Left (mg)	2300	130
26	-975	-975		
15	-470	-470		
50	-1690	-1690		
43	285	285		
51	-750	-750		
19	290	290		
22	-620	-620		
29	-2495	60		
—	155	155		
1	-950	-950		
41	-1970	-1970		
20	-835	-835		
44	-2145	120		
18	-655	-655		
47	-1320	-1320		
3	-1870	-1870		
8	-550	-550		
4	-1520	-1520		
96	-90	-90		
81	-1820	-1820		
39	-1350	-1350		
99	520	520		
13	-1135	-1135		
21	-845	-845		
2	-1300	-1300		
45	-460	-460		
97	-1830	-1830		
32	-2530	115		
25	-1330	-1330		
98	5	5		
33	-3660	175		
48	-215	-215		
46	-1565	-1565		
10	-265	-265		


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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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Nominal=50 lb	As	As	Tolerance-mg	Uncertainty-mg (K=2)
	Received (mg)	Left (mg)	2300	130
Serial Number				
28	-275	-275		
3	230	230		
32	-885	-885		
5	-3080	410		
36	-2220	1080		
24	-675	-675		



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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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.

Nominal=20 kg	As	As	Tolerance-mg	Uncertainty-mg (K=2)
	Received (mg)	Left (mg)	2000	130
Serial Number				
—	735	735		



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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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NOMINAL=25 lb	As Received (mg)	As Left (mg)	Tolerance-mg 1100	Uncertainty-mg/k=2 75
Serial Number				
1PJG	-815	-815		
1PKG	-525	-525		
1PK7	255	255		
1PJY	-820	-820		
1PKH	85	85		
1PJ3	5	5		
1PJW	-210	-210		
1PJZ	115	115		
1PJG	95	95		
1PKE	-90	-90		
1PKK	-595	-595		
1PJS	455	455		
1PKL	-500	-500		
54	515	515		
1RJF	-915	215		
1PKD	165	165		
1PK8	50	50		
1PJ0	-440	-440		
1PJE	230	230		
1PXE	-1290	460		
1PJX	40	40		
1PKG	-380	-380		
1PJF	-710	-710		
1PK6	10	10		
1PJ9	-290	-290		
56	-470	-470		
1PJ1	350	350		
1PJH	-1585	155		
2	495	495		
1PK9	-530	-530		
1PK5	-960	270		
1PJD	-410	-410		
1PJ8	-250	-250		
1PJM	-150	-150		


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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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NOMINAL=25 lb	As	As	Tolerance-mg	Uncertainty-mg/k=2
	Received (mg)	Left (mg)	1100	75
Serial Number				
1PJW	-370	-370		
1PKJ	-360	-360		
1PK4	-310	-310		
1PJN	800	800		



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Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	50%

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NOMINAL=20 lb	As	As	Tolerance-mg	Uncertainty-mg/k=2
Serial Number	Received (mg)	Left (mg)	910	75
57	-785	-785		



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Submitted by:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	081500C	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
5 lb	9	29.8	230	3.0
2 lb	5	14.2	91	5.5
2 lb	6	30.2	91	5.5
1 lb	4	12.3	70	2.7
0.5 lb	3	3.8	45	2.4
0.2 lb	1	8.78	18	0.32
0.2 lb	2	8.23	18	0.32
0.1 lb		8.59	9.1	0.08
0.05 lb		2.39	4.5	0.13
0.02 lb		1.44	1.8	0.15
0.02 lb		0.91	1.8	0.15
0.01 lb		Missing		
0.005 lb		0.697	1.2	0.040
0.002 lb		0.51	0.87	0.12
0.002 lb		0.66	0.87	0.12
0.001 lb		0.02	0.7	0.15



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Pierre, SD 57501

Submitted by:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	081500B	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
10 lb		-113.900	450	4.46582681
10 lb	1	-133.900	450	4.46582681
5 lb		27.800	230	2.96719164
1 lb	1	-4.720	70	2.70880224
1 lb	2	-0.720	70	2.70880224
1 lb	3	6.280	70	2.70880224
1 lb	4	-20.720	70	2.70880224
1 lb	5	14.280	70	2.70880224
4 oz	1	7.420	23	0.1769484
4 oz	2	10.660	23	0.1769484
4 oz	3	0.040	23	0.1769484
1 oz	1	1.291	5.4	0.06370359
1 oz	2	2.441	5.4	0.06370359
1 oz	3	1.841	5.4	0.06370359
1/2 oz		1.350	2.8	0.12422926
1/2 oz		0.230	2.8	0.12422926
1/4 oz		0.760	1.7	0.05701921
1/4 oz		0.000	1.7	0.05701921


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Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	081910A	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
10 lb		125.1	450	4.5
10 lb		134.1	450	4.5
5 lb		82.8	230	3.0
2 lb		34.2	91	5.5
2 lb		28.2	91	5.5
1 lb		10.3	70	2.7
0.5 lb		10.8	45	2.4
0.2 lb		0.50	18	0.32
0.2 lb		3.16	18	0.32
0.1 lb		2.903	9.1	0.082
0.05 lb		1.35	4.5	0.13
0.02 lb		0.52	1.8	0.15
0.02 lb		0.51	1.8	0.15
0.01 lb		0.660	1.5	0.083
0.005 lb		0.417	1.2	0.040
0.002 lb		0.21	0.87	0.12
0.002 lb		0.30	0.87	0.12
0.001 lb		0.33	0.7	0.15
200 g		0.00	40	0.99



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Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	20BD	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
5 kg		133.8	500	2.5
2 kg		86.9	200	2.1
2 kg		92.9	200	2.1
1 kg		54.5	100	1.8
500 g		26.9	70	1.7
200 g		14.69	40	0.99
200 g		13.66	40	0.99
100 g		2.02	20	0.14
50 g		3.106	10	0.078
20 g		1.049	4.0	0.036
20 g		0.779	4.0	0.036
10 g		0.710	2.0	0.057
5 g		0.202	1.5	0.029
2 g		0.461	1.1	0.035
2 g		0.341	1.1	0.035
1 g		-0.445	0.90	0.028



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Weight Kit Serial No:	080602B	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
2 kg	1	88.9	200	2.1
2 kg	2	91.9	200	2.1
2 kg	3	80.9	200	2.1
2 kg	4	88.9	200	2.1
2 kg	5	75.9	200	2.1
1 kg		42.5	100	1.8
500 g	1	35.9	70	1.7
500 g	2	30.9	70	1.7
500 g	3	15.9	70	1.7
500 g	4	29.9	70	1.7
500 g	5	29.9	70	1.7
200 g		10.95	40	0.99
200 g		8.93	40	0.99
100 g		8.91	20	0.14
50 g		4.286	10	0.078
20 g		1.219	4.0	0.036
20 g		1.799	4.0	0.036
10 g		0.950	2.0	0.057
5 g		0.862	1.5	0.029
2 g		-0.010	1.1	0.035
2 g		0.481	1.1	0.035
1 g		Missing		



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SOUTH DAKOTA WEIGHTS AND MEASURES / METROLOGY LAB

Lab: 1500 N. Garfield-E. Truck Bypass Phone: 605-773-3170

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Submitted by:	K-SCALE	Report Number:	M3158
Mailing Address:	1701 W MADISON	Date Received:	08/16/10
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/16-19/2010
Weight Kit Serial No:	01AY	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.7
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	49%

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

Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
2 kg		99.9	200	2.1
1 kg		43.5	100	1.8
500 g		33.9	70	1.7
200 g		16.09	40	0.99
200 g		15.31	40	0.99
100 g		7.29	20	0.14
50 g		3.346	10	0.078
20 g		1.169	4.0	0.036
20 g		1.039	4.0	0.036
10 g		Missing		
5 g		0.442	1.5	0.029
2 g		0.171	1.1	0.035
2 g		0.311	1.1	0.035
1 g		-0.545	0.90	0.028



 Brad Stover, Metrologist

08/23/2010

 Date of Report