



**SOUTH DAKOTA DEPARTMENT OF
PUBLIC SAFETY**

Inspection Program
Office of Weights & Measures

SOUTH DAKOTA OFFICE OF WEIGHTS AND MEASURES METROLOGY LAB

REPORT OF TEST # 3017

DATE OF REPORT: 08/24/2009

DATE RECEIVED: 08/18/2009

DATE OF TEST: 08/18-20/2009

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 West Madison St


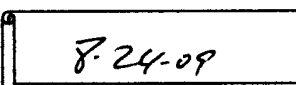
City, State, Zip: SIOUX FALLS, SD 57104

Phone: 605-334-8003

S/A Number: 90

Standards Submitted:

2-3000 lb WEIGHT CARTS
24-1000 lb TEST WEIGHTS
39-50 lb TEST WEIGHTS
43-25 lb TEST WEIGHTS
1-20 lb TEST WEIGHT
1-20 kg TEST WEIGHT
5-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

Test Report for Weight Carts

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Manufacturer:	NA	Condition of Cart:	POOR
Serial Number:	NA	Temperature (F):	70.5
Test Method Used:	SOP 33/ Double Sub.	Humidity:	48%
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.

As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
-8.25	0.13	0.14

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

Test Report for Weight Carts

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Manufacturer:	DUNBAR	Condition of Cart:	FAIR
Serial Number:	11111885	Temperature (F):	70.5
Test Method Used:	SOP 33/ Double Sub.	Humidity:	58%
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.

As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
-2.25	-0.21	0.14

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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Lab: 1600 N. Garfield-E. Truck Bypass Phone: 605-773-3170

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Pierre, SD 57501

Test Report for 1000 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIoux FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	FAIR
Manufacturer:	NA	Temperature (F):	70.0
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	58%

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	0.035	0.035
	02	0.040	0.040
	03	0.009	0.009
	04	-0.009	-0.009
	05	-0.025	-0.025
	06	0.048	0.048
	07	-0.028	-0.028
	08	-0.036	-0.036
	09	0.147	-0.010
	10	0.029	0.029
	11	0.032	0.032
	12	-0.015	-0.015
	13	-0.001	-0.001
	14	-0.026	-0.026
	15	0.023	0.023
	16	-0.034	-0.034
	17	0.080	-0.014
	18	0.002	0.002
	19	-0.018	-0.018
	20	0.004	0.004
	21	-0.004	-0.004
	23	0.185	-0.007
	24	0.013	-0.001
	26	0.127	0.015



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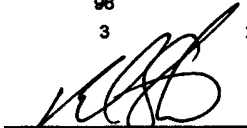
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Test Report for 50 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP & MODIFIED SUB	Humidity:	51%

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	245
46	2425	135		
20	125	125		
44	-490	-490		
28	335	335		
10	970	970		
34	635	635		
15	540	540		
99	790	790		
32	1685	1685		
2	-925	-925		
8	-1295	-1295		
7	-1830	-1830		
43	880	880		
4	395	395		
40	1375	1375		
36	-840	-840		
24	260	260		
29	-1340	-1340		
38	395	395		
17	845	845		
31	125	125		
13	-2275	-135		
78	1065	1065		
22	995	995		
14	945	945		
16	-690	-690		
51	245	245		
21	-10	-10		
18	410	410		
45	685	685		
11	-1360	-1360		
98	1190	1190		
3	2625	965		


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

Pierre, SD 57501

Test Report for 50 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	51%

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=80 lb	As Received (mg)	As Left (mg)	Tolerance-mg 2300	Uncertainty-mg (K=2) 245
Serial Number				
50	2940	80		
1	-270	-270		
25	1345	1345		
6	1200	1200		
19	1440	1440		
9	SHOULDER BROKE			


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Test Report for 50 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	51%

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Nominal=50 lb	As Received (mg)	As Left (mg)	Tolerance-mg	Uncertainty-mg (K=2)
Serial Number			2000	245
20 KG	835	835		


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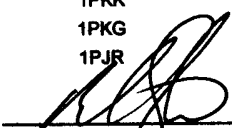
Pierre, SD 57501

Test Report for 25 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	51%

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NOMINAL=25 lb	As Received (mg)	As Left (mg)	Tolerance-mg 1100	Uncertainty-mg/k=2 110
Serial Number				
1PK5	1405	-50		
1PH	400	400		
1PJN	-5	-5		
1PJA	-95	-95		
1PKN	1430	840		
1PJD	-340	-340		
1PKD	1535	60		
1PK	-190	-190		
1PK8	1280	610		
1PJY	-295	-295		
54	900	900		
1PK2	-595	-595		
1PK9	-105	-105		
1PJN	840	840		
1PI8	790	790		
1PJI	685	685		
1PJ6	295	295		
1PK8	465	465		
1PKP	265	265		
1PJH	430	430		
1PK7	1800	765		
1PK4	1125	415		
1PJW	1250	500		
1PJ8	235	235		
1PK0	730	730		
1PJZ	1325	375		
2	750	750		
1P1	510	510		
1PJP	450	450		
1PJT	-90	-90		
1PUH	-185	-185		
1PKK	-230	-230		
1PKG	-15	-15		
1PJR	-330	-330		



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Test Report for 25 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	51%

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NOMINAL=25 lb	As	As	Tolerance-mg	Uncertainty-mg/k=2
	Received (mg)	Left (mg)	1100	110
Serial Number				
1RJQ	20	20		
1PKL	-305	-305		
1PJJ	310	310		
56	-295	-295		
1PJF	-245	-245		
1PKC	820	820		
1HJF	-115	-115		
1PK5	20	20		
1P	1045	305		
1PJH	4855	70		



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Test Report for 20 # Test Weights

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	NA	Condition of Weights:	GOOD
Manufacturer:	NA	Temperature (F):	70.2
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	51%

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NOMINAL=25 lb	As	As	Tolerance-mg	Uncertainty-mg/k=2
Serial Number	Received (mg)	Left (mg)	910	110
57	545	545		



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

Pierre, SD 57501

TEST REPORT FOR WEIGHT KITS

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	20BD	Condition of Weights:	good
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.8
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	53%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
5 kg		135.80	500	2.52
2 kg		86.90	200	2.14
2 kg		92.90	200	2.14
1 kg		54.48	100	1.77
500 g		28.86	70	1.70
200 g		14.487	40	0.986
200 g		13.647	40	0.986
100 g		1.821	20	0.136
50 g		2.826	10	0.078
20 g		1.009	4.00	0.036
20 g		0.799	4.00	0.036
10 g		0.710	2.00	0.057
5 g		0.192	1.50	0.029
2 g		0.481	1.10	0.035
2 g		0.371	1.10	0.035
1 g		-0.405	0.9	0.028


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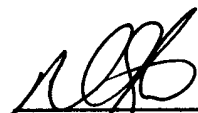
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TEST REPORT FOR WEIGHT KITS

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	01AY	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.8
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	53%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
2 kg		97.90	200	2.14
1 kg		43.48	100	1.77
500 g		35.86	70	1.70
200 g		15.887	40	0.986
200 g		15.127	40	0.986
100 g		7.131	20	0.136
50 g		3.276	10	0.078
20 g		1.149	4	0.036
20 g		1.039	4	0.036
10 g	MISSING			
5 g		0.402	1.5	0.029
2 g		0.161	1.1	0.035
2 g		0.331	1.1	0.035
1 g		-0.535	0.9	0.028



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Office: 118 West Capitol Avenue Phone: 605-773-3897

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TEST REPORT FOR WEIGHT KITS

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	080602B	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.6
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	53%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
2 kg	1	89.90	200	2.14
2 kg	2	91.90	200	2.14
2 kg	3	80.90	200	2.14
2 kg	4	89.90	200	2.14
2 kg	5	75.90	200	2.14
1 kg		45.48	100	1.77
500 g	1	36.86	70	1.70
500 g	2	33.86	70	1.70
500 g	3	17.86	70	1.70
500 g	4	32.86	70	1.70
500 g	5	33.86	70	1.70
200 g		11.027	40	0.988
200 g	.	8.897	40	0.988
100 g		8.771	20	0.136
50 g		4.256	10	0.078
20 g		1.229	4	0.036
20 g	.	1.819	4	0.036
10 g		0.960	2	0.057
5 g		0.922	1.5	0.029
2 g		0.561	1.1	0.035
2 g	.	0.031	1.1	0.035
1 g		-1.045	0.9	0.028


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City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	081500B	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.4
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	54%

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Nominal	Identifier	Cx (mg)	Tolerance/mg	Uncertainty-mg/k=2
10 lb	ks	-116.90	450	4.54
10 lb	ks1	-137.90	450	4.54
5 lb		26.80	230	3.10
1 lb	ks1	-5.72	70	2.75
1 lb	ks2	0.28	70	2.75
1 lb	ks3	6.28	70	2.75
1 lb	ks4	-19.72	70	2.75
1 lb	ks5	16.28	70	2.75
4 oz	ks1	7.220	23	0.174
4 oz	ks2	10.290	23	0.174
4 oz	ks3	-0.060	23	0.174
1 oz	1	1.241	5.4	0.065
1 oz	2	2.391	5.4	0.065
1 oz	3	1.781	5.4	0.065
1/2 oz		1.350	2.8	0.120
1/2 oz	.	0.280	2.8	0.120
1/4 oz		0.760	1.7	0.056
1/4 oz	.	0.000	1.7	0.056


Brad Stover, Metrologist

08/24/2009
Date of Report

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

Phone:605-773-3697
Fax:605-773-6631
www.state.sd.us/dps/wm

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

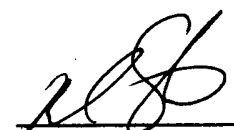
Pierre, SD 57501

TEST REPORT FOR WEIGHT KITS

Submitted by:	K-SCALE	Report Number:	3017
Mailing Address:	1701 West Madison St	Date Received:	08/18/09
City, State, Zip:	SIOUX FALLS, SD 57104	Date tested:	08/18-20/2009
Weight Kit Serial No:	081500C	Condition of Weights:	GOOD
Kit Manufacturer:	RICE LAKE	Temperature (F):	70.4
Test Method Used:	SOP 8/ MODIFIED SUB	Humidity:	54%

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
5 lb	9	30.80	230	3.10
2 lb	5	12.22	91	5.87
2 lb	6	29.22	91	5.87
1 lb	4	11.28	70	2.75
0.5 lb	3	3.78	45	2.36
0.2 lb	.	8.84	18	0.30
0.2 lb	.	8.24	18	0.30
0.1 lb	.	8.82	9.1	0.09
0.05 lb	.	2.44	4.5	0.12
0.02 lb	.	1.481	1.8	0.150
0.02 lb	.	0.921	1.8	0.150
0.01 lb	missing	.	.	.
0.005 lb	.	0.757	1.2	0.040
0.002 lb	.	0.535	0.87	0.110
0.002 lb	.	0.645	0.87	0.110
0.001 lb	.	0.042	0.7	0.136


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