



Dave Heineman
Governor

State of Nebraska

DEPARTMENT OF AGRICULTURE
GREGORY A. IBACH
Director

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524

CERTIFICATION FOR STANDARDS OF MEASUREMENT

Agency: Dept of Ag. - Weights & Measures
5340 West Aurora
Lincoln, NE 68524-

Date: 1/11/2011
Agency ID: 20
NE Cert No: 20110003
P.O. No:

Submitted By: Joel Lavicky

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
0.2 lb	17648	1	F	A
0.2 lb*	17648	2	F	A
0.1 lb	17648	3	F	A
0.05 lb	17648	4	F	A
0.02 lb	17648	5	F	A
0.02 lb*	17648	6	F	A
0.01 lb	17648	7	F	A
0.005 lb	17648	8	F	A
0.002 lb	17648	9	F	A
0.002 lb*	17648	10	F	A
0.001 lb	17648	11	F	A
1000 lb	2189	1	F	A
1000 lb	2190	1	F	A
1000 lb	2191	1	F	A
1000 lb	2192	1	F	A
1000 lb	2193	1	F	A
1000 lb	2194	1	F	A
1000 lb	2195	1	F	A
1000 lb	2196	1	F	A
1000 lb	2197	1	F	A
1000 lb	2198	1	F	A
1000 lb	A-1	1	F	A
1000 lb	A-10	1	F	A
1000 lb	A-14	1	F	A
1000 lb	A-17	1	F	A

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
1000 lb	A-18	1	F	A
1000 lb	A-20	1	F	A
1000 lb	A-3	1	F	A
1000 lb	A-4	1	F	A
50 lb	A5C-13	1	F	A
50 lb	A5C-20	1	F	A
1000 lb	A-7	1	F	A
1000 lb	A-8	1	F	A
1000 lb	A-9	1	F	A
25 lb	WM25-1	1	F	A
25 lb	WM25-10	1	F	A
25 lb	WM25-11	1	F	A
25 lb	WM25-12	1	F	A
25 lb	WM25-13	1	F	A
25 lb	WM25-14	1	F	A
25 lb	WM25-15	1	F	A
25 lb	WM25-16	1	F	A
25 lb	WM25-17	1	F	A
25 lb	WM25-18	1	F	A
25 lb	WM25-19	1	F	A
25 lb	WM25-1S	1	F	A
25 lb	WM25-2	1	F	A
25 lb	WM25-20	1	F	A
25 lb	WM25-3	1	F	A
25 lb	WM25-4	1	F	A
25 lb	WM25-5	1	F	A
25 lb	WM25-6	1	F	A
25 lb	WM25-7	1	F	A
25 lb	WM25-8	1	F	A
1 kg	WM-2-89-4	1	F	A
500 g	WM-2-89-4	2	F	A
200 g	WM-2-89-4	3	F	A
200 g*	WM-2-89-4	4	F	A
100 g	WM-2-89-4	5	F	A
50 g	WM-2-89-4	6	F	A
20 g	WM-2-89-4	7	F	A

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
20 g*	WM-2-89-4	8	F	A
10 g	WM-2-89-4	9	F	A
5 g	WM-2-89-4	10	F	A
2 g	WM-2-89-4	11	F	A
2 g*	WM-2-89-4	12	F	A
1 g	WM-2-89-4	13	F	A
500 mg	WM-2-89-4	14	F	A
200 mg	WM-2-89-4	15	F	A
200 mg*	WM-2-89-4	16	F	A
100 mg	WM-2-89-4	17	F	A
5 lb	WM-2D86	1	F	A
5 lb	WM-2D86	2	F	A
5 lb	WM-2D86	3	F	A
5 lb	WM-2D86	4	F	A
5 lb	WM-2D86	5	F	A
1 lb	WM-2D86	6	F	A
1 lb	WM-2D86	7	F	A
1 lb	WM-2D86	8	F	A
1 lb	WM-2D86	9	F	A
1 lb	WM-2D86	10	F	A
8 oz	WM-2D86	11	F	A
4 oz	WM-2D86	12	F	A
2 oz	WM-2D86	13	F	A
1 oz	WM-2D86	14	F	A
0.5 oz	WM-2D86	15	F	A
0.25 oz	WM-2D86	16	F	A
0.125 oz	WM-2D86	17	F	A
50 lb	WM-C-A1	1	F	A
50 lb	WM-C-A10	1	F	A
50 lb	WM-C-A2	1	F	A
50 lb	WM-C-A3	1	F	A
50 lb	WM-C-A5	1	F	A
50 lb	WM-C-A9	1	F	A
50 lb	WM-OPI-C81	1	F	A
50 lb	WM-OPI-C85	1	F	A

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These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards and Technology. These field standards also meet the required specifications.

The reference standards used are traceable to the National Institute of Standards and Technology (NIST). Our traceability is maintained through control charts, regional inter-comparisons and periodic recertifications. This certificate is issued by the Nebraska Department of Agriculture / Division of Weights and Measures. Reproduction of this certificate must include the entire document (including all attached papers).

- See 'Test Results' attached
 See report/letter attached



Craig E. Olsen
Nebraska State Metrologist

Nebraska Standards Laboratory
3721 West Cuming Street
Lincoln, NE 68524
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
17648	1	0	0.2 lb	AT106-lb	NSL-WK2	0.0088979 g	0.018 g	0.0000645 g	A
17648	2	0	0.2 lb*	AT106-lb	NSL-WK2	0.0090749 g	0.018 g	0.0000645 g	A
17648	3	0	0.1 lb	AT106-lb	NSL-WK3	0.0044457 g	0.0091 g	0.0000583 g	A
17648	4	0	0.05 lb	AT106-lb	NSL-WK4	0.0018081 g	0.0045 g	0.0000569 g	A
17648	5	0	0.02 lb	AT106-lb	NSL-WK6	0.0004264 g	0.0018 g	0.0000538 g	A
17648	6	0	0.02 lb*	AT106-lb	NSL-WK6	0.0003924 g	0.0018 g	0.0000538 g	A
17648	7	0	0.01 lb	UMT5/6-lb	NSL-WK7	0.0005265 g	0.0015 g	0.0000136 g	A
17648	8	0	0.005 lb	UMT5/6-lb	NSL-WK8	0.0008574 g	0.0012 g	0.0000127 g	A
17648	9	0	0.002 lb	UMT5/6-lb	NSL-WK10	0.0001646 g	0.00087 g	0.0000120 g	A
17648	10	0	0.002 lb*	UMT5/6-lb	NSL-WK10	0.0002183 g	0.00087 g	0.0000120 g	A
17648	11	0	0.001 lb	UMT5/6-lb	NSL-WK11	0.0003389 g	0.0007 g	0.0000119 g	A
2189	1	0	1000 lb	KC500-1	C24	-19.9925817 g	45 g	2.5855327 g	A
2190	1	0	1000 lb	KC500-1	C24	-48.5925817 g	45 g	2.5855327 g	R
2190	1	1	1000 lb	KC500-1	C24	24.8074183 g	45 g	2.5855327 g	A
2191	1	0	1000 lb	KC500-1	C24	9.7074183 g	45 g	2.5855327 g	A
2192	1	0	1000 lb	KC500-1	C24	-35.8925817 g	45 g	2.5855327 g	A
2192	1	1	1000 lb	KC500-1	C24	26.9074183 g	45 g	2.5855327 g	A
2193	1	0	1000 lb	KC500-1	C24	-3.0925817 g	45 g	2.5855327 g	A
2194	1	0	1000 lb	KC500-1	C24	-61.3925817 g	45 g	2.5855327 g	R
2194	1	1	1000 lb	KC500-1	C24	13.5074183 g	45 g	2.5855327 g	A
2195	1	0	1000 lb	KC500-1	C24	10.2074183 g	45 g	2.5855327 g	A
2196	1	0	1000 lb	KC500-1	C24	-4.7925817 g	45 g	2.5855327 g	A
2197	1	0	1000 lb	KC500-1	C24	-60.7925817 g	45 g	2.5855327 g	R
2197	1	1	1000 lb	KC500-1	C24	20.6074183 g	45 g	2.5855327 g	A
2198	1	0	1000 lb	KC500-1	C24	-17.6925817 g	45 g	2.5855327 g	A
A-1	1	0	1000 lb	KC500-1	C24	-59.8925817 g	45 g	2.5855327 g	R

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.

Agency ID: 20
 Agency: Dept of Ag. - Weights & Measures
 5340 West Aurora
 Lincoln, NE 68524-

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 Observer: CEO

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
A-1	1	1	1000 lb	KC500-1	C24	27.7074183 g	45 g	2.5855327 g	A
A-10	1	0	1000 lb	KC500-1	C24	3.5074183 g	45 g	2.5855327 g	A
A-14	1	0	1000 lb	KC500-1	C24	15.3074183 g	45 g	2.5855327 g	A
A-17	1	0	1000 lb	KC500-1	C24	-76.1925817 g	45 g	2.5855327 g	R
A-17	1	1	1000 lb	KC500-1	C24	16.4074183 g	45 g	2.5855327 g	A
A-18	1	0	1000 lb	KC500-1	C24	-21.1925817 g	45 g	2.5855327 g	A
A-20	1	0	1000 lb	KC500-1	C24	9.7074183 g	45 g	2.5855327 g	A
A-3	1	0	1000 lb	KC500-1	C24	-34.3925817 g	45 g	2.5855327 g	A
A-4	1	0	1000 lb	KC500-1	C24	-49.1925817 g	45 g	2.5855327 g	R
A-4	1	1	1000 lb	KC500-1	C24	22.8074183 g	45 g	2.5855327 g	A
A5C-13	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.8498491 g	2.3 g	0.0518742 g	A
A5C-20	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.2448491 g	2.3 g	0.0518742 g	A
A-7	1	0	1000 lb	KC500-1	C24	-29.8925817 g	45 g	2.5855327 g	A
A-8	1	0	1000 lb	KC500-1	C24	9.7074183 g	45 g	2.5855327 g	A
A-9	1	0	1000 lb	KC500-1	C24	-12.3925817 g	45 g	2.5855327 g	A
WM25-1	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.9681902 g	1.1 g	0.0329709 g	A
WM25-10	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7868098 g	1.1 g	0.0329709 g	A
WM25-11	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6331902 g	1.1 g	0.0329709 g	A
WM25-12	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1681902 g	1.1 g	0.0329709 g	A
WM25-13	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1281902 g	1.1 g	0.0329709 g	A
WM25-14	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4981902 g	1.1 g	0.0329709 g	A
WM25-15	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1431902 g	1.1 g	0.0329709 g	A
WM25-16	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8831902 g	1.1 g	0.0329709 g	A
WM25-17	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0981902 g	1.1 g	0.0329709 g	A
WM25-18	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1918098 g	1.1 g	0.0329709 g	A
WM25-19	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5081902 g	1.1 g	0.0329709 g	A
WM25-1S	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0481902 g	1.1 g	0.0329709 g	A
WM25-2	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4281902 g	1.1 g	0.0329709 g	A
WM25-20	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2131902 g	1.1 g	0.0329709 g	A
WM25-3	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4868098 g	1.1 g	0.0329709 g	A
WM25-4	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5268098 g	1.1 g	0.0329709 g	A
WM25-5	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5168098 g	1.1 g	0.0329709 g	A
WM25-6	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0931902 g	1.1 g	0.0329709 g	A

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM25-7	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.4531902 g	1.1 g	0.0329709 g	R
WM25-7	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4618098 g	1.1 g	0.0329709 g	A
WM25-8	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3381902 g	1.1 g	0.0329709 g	A
WM-2-89-4	1	0	1 kg	CC1201-kg	1kgd	-0.0008284 g	0.1 g	0.0004024 g	A
WM-2-89-4	2	0	500 g	CC1201-kg	500gd	-0.0029706 g	0.07 g	0.0003983 g	A
WM-2-89-4	3	0	200 g	CC1201-kg	200gd	0.0025214 g	0.04 g	0.0003971 g	A
WM-2-89-4	4	0	200 g*	CC1201-kg	200gd	-0.0048786 g	0.04 g	0.0003971 g	A
WM-2-89-4	5	0	100 g	AT106-gm	100gv	0.0136575 g	0.02 g	0.0000366 g	A
WM-2-89-4	6	0	50 g	AT106-gm	50gv	-0.0058212 g	0.01 g	0.0000332 g	A
WM-2-89-4	7	0	20 g	AT106-gm	20gv	0.0014486 g	0.004 g	0.0000320 g	A
WM-2-89-4	8	0	20 g*	AT106-gm	20gv	0.0015466 g	0.004 g	0.0000320 g	A
WM-2-89-4	9	0	10 g	AT106-gm	10gv	-0.0008778 g	0.002 g	0.0000321 g	A
WM-2-89-4	10	0	5 g	UMT5/6-gm	5gv	0.0000853 g	0.0015 g	0.0000089 g	A
WM-2-89-4	11	0	2 g	UMT5/6-gm	2gv	0.0005381 g	0.0011 g	0.0000084 g	A
WM-2-89-4	12	0	2 g*	UMT5/6-gm	2gv	0.0005487 g	0.0011 g	0.0000084 g	A
WM-2-89-4	13	0	1 g	UMT5/6-gm	1gv	-0.0002541 g	0.0009 g	0.0000083 g	A
WM-2-89-4	14	0	500 mg	UMT5/6-gm	500mgv	0.0003062 g	0.00072 g	0.0000083 g	A
WM-2-89-4	15	0	200 mg	UMT5/6-gm	200mgv	0.0003359 g	0.00054 g	0.0000083 g	A
WM-2-89-4	16	0	200 mg*	UMT5/6-gm	200mgv	0.0002924 g	0.00054 g	0.0000083 g	A
WM-2-89-4	17	0	100 mg	UMT5/6-gm	100mgv	-0.0000526 g	0.00043 g	0.0000083 g	A
WM-2D86	1	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0771297 g	0.23 g	0.0016699 g	A
WM-2D86	2	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0972297 g	0.23 g	0.0016699 g	A
WM-2D86	3	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0955297 g	0.23 g	0.0016699 g	A
WM-2D86	4	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0373297 g	0.23 g	0.0016699 g	A
WM-2D86	5	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0514297 g	0.23 g	0.0016699 g	A
WM-2D86	6	0	1 lb	CC1201-lb	NSL-1-1	0.0140759 g	0.07 g	0.0007427 g	A
WM-2D86	7	0	1 lb	CC1201-lb	NSL-1-1	0.0376759 g	0.07 g	0.0007427 g	A
WM-2D86	8	0	1 lb	CC1201-lb	NSL-1-1	-0.0219241 g	0.07 g	0.0007427 g	A
WM-2D86	9	0	1 lb	CC1201-lb	NSL-1-1	0.0062759 g	0.07 g	0.0007427 g	A
WM-2D86	10	0	1 lb	CC1201-lb	NSL-1-1	-0.0251241 g	0.07 g	0.0007427 g	A
WM-2D86	11	0	8 oz	CC1201-lb	NSL-8-1	0.0021735 g	0.045 g	0.0007356 g	A
WM-2D86	12	0	4 oz	CC1201-lb	NSL-Z	0.0007960 g	0.023 g	0.0007272 g	A
WM-2D86	13	0	2 oz	AT106-lb	NSL-Y	-0.0020928 g	0.011 g	0.0000616 g	A

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WM-2D86	14	0	1 oz	AT106-lb	2A9-1oz	0.0024469 g	0.0054 g	0.0003667 g	A
WM-2D86	15	0	0.5 oz	AT106-lb	2A9-1.2oz	0.0007529 g	0.0028 g	0.0003666 g	A
WM-2D86	16	0	0.25 oz	AT106-lb	2A9-1.4oz	-0.0008645 g	0.0017 g	0.0000532 g	A
WM-2D86	17	0	0.125 oz	AT106-lb	2A9-1.8oz	0.0002255 g	0.0013 g	0.0000510 g	A
WM-C-A1	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.2651509 g	2.3 g	0.0518742 g	A
WM-C-A10	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.3101509 g	2.3 g	0.0518742 g	A
WM-C-A2	1	0	50 lb	KA30-3_50lb	NSL-50-1	2.0401509 g	2.3 g	0.0518742 g	A
WM-C-A3	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.5551509 g	2.3 g	0.0518742 g	A
WM-C-A5	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.4251509 g	2.3 g	0.0518742 g	A
WM-C-A9	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.7851509 g	2.3 g	0.0518742 g	A
WM-OPI-C81	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.7298491 g	2.3 g	0.0518742 g	A
WM-OPI-C85	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.1548491 g	2.3 g	0.0518742 g	R
WM-OPI-C85	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.2651509 g	2.3 g	0.0518742 g	A

Retest number - 0 indicates "as received" error / 1 indicates "adjusted to" error

The uncertainty of measurement is determined using the uncertainty of the reference standard(s), standard deviation of the process, environmental factors and bias using a RSS calculation. Uncertainty values are calculated using a K factor of 2.

"As received" values for weights may not be a true "as found" value because these weights could have been cleaned and/or repainted prior to submission to this lab. Due to handling, storage and/or environmental factors; the reported values are valid only while test items are within our control. No calibration period or interval is given with this report. We can not guarantee accuracy of results beyond the controls of our laboratory.