



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: Food Safety & Consumer Protection
Area 20

Date: 10/1/2012
Agency ID: 20
NE Cert No: 20120119
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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Administration
P.O. Box 94947
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Agriculture Laboratories
3703 South 14th Street
Lincoln, NE 68502-5399
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P.O. Box 94987
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Weights and Measures
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Lincoln, NE 68509-4757
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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
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

Agency ID: 20
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 Area 20
 , -

NE Cert No: 20120119
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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_0.2 lb	NSL-WK2	0.0085514 g	0.018 g	0.0000658 g	A
17648	2	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0082964 g	0.018 g	0.0000658 g	A
17648	3	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0042723 g	0.0091 g	0.0000597 g	A
17648	4	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0017042 g	0.0045 g	0.0000368 g	A
17648	5	0	0.02 lb	AT106_0.05 lb	NSL-WK6	0.0003757 g	0.0018 g	0.0000290 g	A
17648	6	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	0.0003247 g	0.0018 g	0.0000290 g	A
17648	7	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0004022 g	0.0015 g	0.0000104 g	A
17648	8	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	0.0007283 g	0.0012 g	0.0000091 g	A
17648	9	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0000991 g	0.00087 g	0.0000066 g	A
17648	10	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	0.0001545 g	0.00087 g	0.0000066 g	A
17648	11	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	0.0002763 g	0.0007 g	0.0000064 g	A
2189	1	0	1000 lb	XP604KM_1K lb	C24	-27.2207401 g	45 g	2.1083219 g	A
2190	1	0	1000 lb	XP604KM_1K lb	C24	13.1792599 g	45 g	2.1083219 g	A
2191	1	0	1000 lb	XP604KM_1K lb	C24	24.2792599 g	45 g	2.1083219 g	A
2192	1	0	1000 lb	XP604KM_1K lb	C24	27.3792599 g	45 g	2.1083219 g	A
2193	1	0	1000 lb	XP604KM_1K lb	C24	-21.6207401 g	45 g	2.1083219 g	A
2194	1	0	1000 lb	XP604KM_1K lb	C24	25.9792599 g	45 g	2.1083219 g	A
2195	1	0	1000 lb	XP604KM_1K lb	C24	-2.4207401 g	45 g	2.1083219 g	A
2196	1	0	1000 lb	XP604KM_1K lb	C24	0.2792599 g	45 g	2.1083219 g	A
2197	1	0	1000 lb	XP604KM_1K lb	C24	10.4792599 g	45 g	2.1083219 g	A
2198	1	0	1000 lb	XP604KM_1K lb	C24	-23.4207401 g	45 g	2.1083219 g	A
A-1	1	0	1000 lb	XP604KM_1K lb	C24	0.3792599 g	45 g	2.1083219 g	A
A-10	1	0	1000 lb	XP604KM_1K lb	C24	-1.0207401 g	45 g	2.1083219 g	A
A-14	1	0	1000 lb	XP604KM_1K lb	C24	23.2792599 g	45 g	2.1083219 g	A
A-17	1	0	1000 lb	XP604KM_1K lb	C24	-35.4207401 g	45 g	2.1083219 g	A
A-18	1	0	1000 lb	XP604KM_1K lb	C24	19.4792599 g	45 g	2.1083219 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.

Agency ID: 20
 Agency: Food Safety & Consumer Protection
 Area 20

NE Cert No: 20120119
 Date: 10/1/2012
 P.O. No:
 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-20	1	0	1000 lb	XP604KM_1K lb	C24	1.6792599 g	45 g	2.1083219 g	A
A-3	1	0	1000 lb	XP604KM_1K lb	C24	-17.0207401 g	45 g	2.1083219 g	A
A-4	1	0	1000 lb	XP604KM_1K lb	C24	-9.6207401 g	45 g	2.1083219 g	A
A5C-13	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.3069199 g	2.3 g	0.0496968 g	A
A5C-20	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.0269199 g	2.3 g	0.0496968 g	A
A-7	1	0	1000 lb	XP604KM_1K lb	C24	-25.0207401 g	45 g	2.1083219 g	A
A-8	1	0	1000 lb	XP604KM_1K lb	C24	19.2792599 g	45 g	2.1083219 g	A
A-9	1	0	1000 lb	XP604KM_1K lb	C24	-27.3207401 g	45 g	2.1083219 g	A
WM25-1	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4247793 g	1.1 g	0.0365186 g	A
WM25-10	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.4397793 g	1.1 g	0.0365186 g	R
WM25-10	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5847793 g	1.1 g	0.0365186 g	A
WM25-11	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0547793 g	1.1 g	0.0365186 g	A
WM25-12	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9297793 g	1.1 g	0.0365186 g	A
WM25-13	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2402207 g	1.1 g	0.0365186 g	A
WM25-14	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4747793 g	1.1 g	0.0365186 g	A
WM25-15	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6897793 g	1.1 g	0.0365186 g	A
WM25-16	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5147793 g	1.1 g	0.0365186 g	A
WM25-17	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1052207 g	1.1 g	0.0365186 g	A
WM25-18	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8547793 g	1.1 g	0.0365186 g	A
WM25-19	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4747793 g	1.1 g	0.0365186 g	A
WM25-1S	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6797793 g	1.1 g	0.0365186 g	A
WM25-2	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1747793 g	1.1 g	0.0365186 g	A
WM25-20	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1902207 g	1.1 g	0.0365186 g	A
WM25-3	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.4347793 g	1.1 g	0.0365186 g	R
WM25-3	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.0647793 g	1.1 g	0.0365186 g	A
WM25-4	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.9247793 g	1.1 g	0.0365186 g	R
WM25-4	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1547793 g	1.1 g	0.0365186 g	A
WM25-5	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.3097793 g	1.1 g	0.0365186 g	R
WM25-5	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.7202207 g	1.1 g	0.0365186 g	A
WM25-6	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2447793 g	1.1 g	0.0365186 g	R
WM25-6	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2547793 g	1.1 g	0.0365186 g	A
WM25-7	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1947793 g	1.1 g	0.0365186 g	R
WM25-7	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3847793 g	1.1 g	0.0365186 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
WM25-8	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0147793 g	1.1 g	0.0365186 g	A
WM-2-89-4	1	0	1 kg	CC1201_1 kg	1kgd	-0.0015284 g	0.1 g	0.0003612 g	A
WM-2-89-4	2	0	500 g	CC1201_1 kg	500gd	-0.0056706 g	0.07 g	0.0003567 g	A
WM-2-89-4	3	0	200 g	CC1201_1 kg	200gd	0.0020214 g	0.04 g	0.0003554 g	A
WM-2-89-4	4	0	200 g*	CC1201_1 kg	200gd	-0.0054786 g	0.04 g	0.0003554 g	A
WM-2-89-4	5	0	100 g	AT106_100g	100gv	0.0130825 g	0.02 g	0.0000563 g	A
WM-2-89-4	6	0	50 g	AT106_50g	50gv	-0.0061502 g	0.01 g	0.0000191 g	A
WM-2-89-4	7	0	20 g	AT106_20g	20gv	0.0012246 g	0.004 g	0.0000090 g	A
WM-2-89-4	8	0	20 g*	AT106_20g	20gv	0.0013746 g	0.004 g	0.0000090 g	A
WM-2-89-4	9	0	10 g	AT106_10g	10gv	-0.0010028 g	0.002 g	0.0000105 g	A
WM-2-89-4	10	0	5 g	CCE6_5 gm	5gv	0.0000267 g	0.0015 g	0.0000083 g	A
WM-2-89-4	11	0	2 g	CCE6_5 gm	2gv	0.0005287 g	0.0011 g	0.0000044 g	A
WM-2-89-4	12	0	2 g*	CCE6_5 gm	2gv	0.0005403 g	0.0011 g	0.0000044 g	A
WM-2-89-4	13	0	1 g	CCE6_1 gm	1gv	-0.0002613 g	0.0009 g	0.0000031 g	A
WM-2-89-4	14	0	500 mg	CCE6_1 gm	500mgv	0.0003052 g	0.00072 g	0.0000030 g	A
WM-2-89-4	15	0	200 mg	CCE6_1 gm	200mgv	0.0003349 g	0.00054 g	0.0000029 g	A
WM-2-89-4	16	0	200 mg*	CCE6_1 gm	200mgv	0.0002900 g	0.00054 g	0.0000029 g	A
WM-2-89-4	17	0	100 mg	CCE6_100 mg	100mgv	-0.0000585 g	0.00043 g	0.0000044 g	A
WM-2D86	1	0	5 lb	CC10000S_5lb	NSL-5-1	-0.0814534 g	0.23 g	0.0016827 g	A
WM-2D86	2	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1082534 g	0.23 g	0.0016827 g	A
WM-2D86	3	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1007534 g	0.23 g	0.0016827 g	A
WM-2D86	4	0	5 lb	CC10000S_5lb	NSL-5-1	-0.0434534 g	0.23 g	0.0016827 g	A
WM-2D86	5	0	5 lb	CC10000S_5lb	NSL-5-1	-0.0584534 g	0.23 g	0.0016827 g	A
WM-2D86	6	0	1 lb	CC1201_1 lb	NSL-1-1	0.0112555 g	0.07 g	0.0004385 g	A
WM-2D86	7	0	1 lb	CC1201_1 lb	NSL-1-1	0.0349555 g	0.07 g	0.0004385 g	A
WM-2D86	8	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0233445 g	0.07 g	0.0004385 g	A
WM-2D86	9	0	1 lb	CC1201_1 lb	NSL-1-1	0.0037555 g	0.07 g	0.0004385 g	A
WM-2D86	10	0	1 lb	CC1201_1 lb	NSL-1-1	-0.0265445 g	0.07 g	0.0004385 g	A
WM-2D86	11	0	8 oz	CC1201_8 oz	NSL-8-1	0.0018207 g	0.045 g	0.0003804 g	A
WM-2D86	12	0	4 oz	CC1201_8 oz	NSL-Z	0.0003721 g	0.023 g	0.0003643 g	A
WM-2D86	13	0	2 oz	AT106_0.2 lb	NSL-Y	-0.0023438 g	0.011 g	0.0000612 g	A
WM-2D86	14	0	1 oz	AT106_0.2 lb	2A9-1oz	0.0022349 g	0.0054 g	0.0003667 g	A
WM-2D86	15	0	0.5 oz	AT106_0.05 lb	2A9-1.2oz	0.0006159 g	0.0028 g	0.0003638 g	A

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WM-2D86	16	0	0.25 oz	AT106_0.05 lb	2A9-1.4oz	-0.0009835 g	0.0017 g	0.0000276 g	A
WM-2D86	17	0	0.125 oz	AT106_0.05 lb	2A9-1.8oz	0.0001664 g	0.0013 g	0.0000232 g	A
WM-C-A1	1	0	50 lb	KA30-3_50lb	NSL-50-1	2.7669199 g	2.3 g	0.0496968 g	R
WM-C-A1	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.4119199 g	2.3 g	0.0496968 g	A
WM-C-A10	1	0	50 lb	KA30-3_50lb	NSL-50-1	3.3119199 g	2.3 g	0.0496968 g	R
WM-C-A10	1	1	50 lb	KA30-3_50lb	NSL-50-1	1.0669199 g	2.3 g	0.0496968 g	A
WM-C-A2	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.8719199 g	2.3 g	0.0496968 g	A
WM-C-A3	1	0	50 lb	KA30-3_50lb	NSL-50-1	2.5919199 g	2.3 g	0.0496968 g	R
WM-C-A3	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.6369199 g	2.3 g	0.0496968 g	A
WM-C-A5	1	0	50 lb	KA30-3_50lb	NSL-50-1	3.0569199 g	2.3 g	0.0496968 g	R
WM-C-A5	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.5369199 g	2.3 g	0.0496968 g	A
WM-C-A9	1	0	50 lb	KA30-3_50lb	NSL-50-1	2.9969199 g	2.3 g	0.0496968 g	R
WM-C-A9	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.3169199 g	2.3 g	0.0496968 g	A
WM-OPI-C81	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.7119199 g	2.3 g	0.0496968 g	A
WM-OPI-C85	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.6569199 g	2.3 g	0.0496968 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.