



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
Lincoln, NE -

Date: 10/7/2013
Agency ID: 20
NE Cert No: 20130106
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>
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
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

Department of Agriculture, 301 Centennial Mall South
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Administration
P.O. Box 94947
Lincoln, NE 68509-4947
(402) 471-2341
FAX: (402) 471-6876

Agriculture Laboratories
3703 South 14th Street
Lincoln, NE 68502-5399
(402) 471-2176
FAX: (402) 471-0091

Bureau of Animal Industry
P.O. Box 94987
Lincoln, NE 68509-4787
(402) 471-2351
FAX: (402) 471-6893

Bureau of Dairies & Foods
P.O. Box 95064
Lincoln, NE 68509-5064
(402) 471-2536
FAX: (402) 471-2759

Bureau of Plant Industry
P.O. Box 94956
Lincoln, NE 68509-4756
(402) 471-2394
FAX: (402) 471-6892

Weights and Measures
P.O. Box 94757
Lincoln, NE 68509-4757
(402) 471-4292
FAX: (402) 471-2759

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
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
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-5A03	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>
5 lb	WM-5A03	2	F	A
5 lb	WM-5A03	3	F	A
5 lb	WM-5A03	4	F	A
5 lb	WM-5A03	5	F	A
1 lb	WM-5A03	6	F	A
1 lb	WM-5A03	7	F	A
1 lb	WM-5A03	8	F	A
1 lb	WM-5A03	9	F	A
1 lb	WM-5A03	10	F	A
0.5 lb	WM-5A03	11	F	A
0.2 lb	WM-5A03	12	F	A
0.2 lb*	WM-5A03	13	F	A
0.1 lb	WM-5A03	14	F	A
0.05 lb	WM-5A03	15	F	A
0.02 lb	WM-5A03	16	F	A
0.02 lb*	WM-5A03	17	F	A
0.01 lb	WM-5A03	18	F	A
0.005 lb	WM-5A03	19	F	A
0.002 lb	WM-5A03	20	F	A
0.002 lb*	WM-5A03	21	F	A
0.001 lb	WM-5A03	22	F	A
4 oz	WM-5A03	23	F	A
2 oz	WM-5A03	24	F	A
1 oz	WM-5A03	25	F	A
0.5 oz	WM-5A03	26	F	A
0.25 oz	WM-5A03	27	F	A
0.125 oz	WM-5A03	28	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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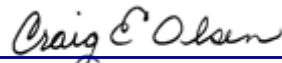
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These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards and Technology. These field standards also meet the required 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
(402) 471-2087

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
2189	1	0	1000 lb	XP604KM_1K lb	C24	-30.4201000 g	45 g	2.5186590 g	A
2190	1	0	1000 lb	XP604KM_1K lb	C24	18.3799000 g	45 g	2.5186590 g	A
2191	1	0	1000 lb	XP604KM_1K lb	C24	28.8799000 g	45 g	2.5186590 g	A
2192	1	0	1000 lb	XP604KM_1K lb	C24	21.5799000 g	45 g	2.5186590 g	A
2193	1	0	1000 lb	XP604KM_1K lb	C24	-22.2201000 g	45 g	2.5186590 g	A
2194	1	0	1000 lb	XP604KM_1K lb	C24	24.1799000 g	45 g	2.5186590 g	A
2195	1	0	1000 lb	XP604KM_1K lb	C24	7.7799000 g	45 g	2.5186590 g	A
2196	1	0	1000 lb	XP604KM_1K lb	C24	-10.4201000 g	45 g	2.5186590 g	A
2197	1	0	1000 lb	XP604KM_1K lb	C24	13.2799000 g	45 g	2.5186590 g	A
2198	1	0	1000 lb	XP604KM_1K lb	C24	-21.3201000 g	45 g	2.5186590 g	A
A-1	1	0	1000 lb	XP604KM_1K lb	C24	14.5799000 g	45 g	2.5186590 g	A
A-10	1	0	1000 lb	XP604KM_1K lb	C24	-7.9201000 g	45 g	2.5186590 g	A
A-14	1	0	1000 lb	XP604KM_1K lb	C24	14.1799000 g	45 g	2.5186590 g	A
A-17	1	0	1000 lb	XP604KM_1K lb	C24	11.7799000 g	45 g	2.5186590 g	A
A-18	1	0	1000 lb	XP604KM_1K lb	C24	18.2799000 g	45 g	2.5186590 g	A
A-20	1	0	1000 lb	XP604KM_1K lb	C24	7.9799000 g	45 g	2.5186590 g	A
A-3	1	0	1000 lb	XP604KM_1K lb	C24	6.5799000 g	45 g	2.5186590 g	A
A-4	1	0	1000 lb	XP604KM_1K lb	C24	-18.3201000 g	45 g	2.5186590 g	A
A5C-13	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.5725192 g	2.3 g	0.0458730 g	A
A5C-20	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.7425192 g	2.3 g	0.0458730 g	A
A-7	1	0	1000 lb	XP604KM_1K lb	C24	-20.5201000 g	45 g	2.5186590 g	A
A-8	1	0	1000 lb	XP604KM_1K lb	C24	50.3799000 g	45 g	2.5186590 g	R
A-8	1	1	1000 lb	XP604KM_1K lb	C24	7.4799000 g	45 g	2.5186590 g	A
A-9	1	0	1000 lb	XP604KM_1K lb	C24	-30.1201000 g	45 g	2.5186590 g	A
WM25-1	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6953931 g	1.1 g	0.0357391 g	A
WM25-10	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1903931 g	1.1 g	0.0357391 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
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 Area 20
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NE Cert No: 20130106
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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM25-10	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.7596069 g	1.1 g	0.0357391 g	A
WM25-11	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3903931 g	1.1 g	0.0357391 g	A
WM25-12	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.7303931 g	1.1 g	0.0357391 g	R
WM25-12	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1296069 g	1.1 g	0.0357391 g	A
WM25-13	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.1303931 g	1.1 g	0.0357391 g	A
WM25-14	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0653931 g	1.1 g	0.0357391 g	A
WM25-14	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.0646069 g	1.1 g	0.0357391 g	A
WM25-15	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9253931 g	1.1 g	0.0357391 g	A
WM25-16	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2953931 g	1.1 g	0.0357391 g	R
WM25-16	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5903931 g	1.1 g	0.0357391 g	A
WM25-17	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1346069 g	1.1 g	0.0357391 g	A
WM25-18	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.3803931 g	1.1 g	0.0357391 g	R
WM25-18	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.2596069 g	1.1 g	0.0357391 g	A
WM25-19	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1253931 g	1.1 g	0.0357391 g	R
WM25-19	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.1296069 g	1.1 g	0.0357391 g	A
WM25-1S	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0803931 g	1.1 g	0.0357391 g	A
WM25-2	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3053931 g	1.1 g	0.0357391 g	A
WM25-20	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5153931 g	1.1 g	0.0357391 g	A
WM25-3	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.3303931 g	1.1 g	0.0357391 g	A
WM25-4	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6103931 g	1.1 g	0.0357391 g	A
WM25-5	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.5896069 g	1.1 g	0.0357391 g	A
WM25-6	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4403931 g	1.1 g	0.0357391 g	A
WM25-7	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0953931 g	1.1 g	0.0357391 g	A
WM25-7	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1853931 g	1.1 g	0.0357391 g	A
WM25-8	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4553931 g	1.1 g	0.0357391 g	A
WM-2-89-4	1	0	1 kg	CC1201_1 kg	1kgd	-0.0019874 g	0.1 g	0.0005088 g	A
WM-2-89-4	2	0	500 g	CC1201_1 kg	500gd	-0.0070706 g	0.07 g	0.0003530 g	A
WM-2-89-4	3	0	200 g	CC1201_1 kg	200gd	0.0017756 g	0.04 g	0.0003774 g	A
WM-2-89-4	4	0	200 g*	CC1201_1 kg	200gd	-0.0056244 g	0.04 g	0.0003774 g	A
WM-2-89-4	5	0	100 g	AT106_100g	100gv	0.0129137 g	0.02 g	0.0000284 g	A
WM-2-89-4	6	0	50 g	AT106_50g	50gv	-0.0062125 g	0.01 g	0.0000247 g	A
WM-2-89-4	7	0	20 g	AT106_20g	20gv	0.0011827 g	0.004 g	0.0000166 g	A
WM-2-89-4	8	0	20 g*	AT106_20g	20gv	0.0013347 g	0.004 g	0.0000166 g	A

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

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WM-2-89-4	9	0	10 g	AT106_10g	10gv	-0.0010163 g	0.002 g	0.0000221 g	A
WM-2-89-4	10	0	5 g	CCE6_5 gm	5gv	0.0000126 g	0.0015 g	0.0000062 g	A
WM-2-89-4	11	0	2 g	CCE6_5 gm	2gv	0.0005174 g	0.0011 g	0.0000062 g	A
WM-2-89-4	12	0	2 g*	CCE6_5 gm	2gv	0.0005303 g	0.0011 g	0.0000062 g	A
WM-2-89-4	13	0	1 g	CCE6_1 gm	1gv	-0.0002685 g	0.0009 g	0.0000045 g	A
WM-2-89-4	14	0	500 mg	CCE6_1 gm	500mgv	0.0002953 g	0.00072 g	0.0000041 g	A
WM-2-89-4	15	0	200 mg	CCE6_1 gm	200mgv	0.0003264 g	0.00054 g	0.0000039 g	A
WM-2-89-4	16	0	200 mg*	CCE6_1 gm	200mgv	0.0002838 g	0.00054 g	0.0000039 g	A
WM-2-89-4	17	0	100 mg	CCE6_100 mg	100mgv	-0.0000637 g	0.00043 g	0.0000066 g	A
WM-5A03	1	0	5 lb	CC10000S_5lb	NSL-5-1	0.0667299 g	0.23 g	0.0011945 g	A
WM-5A03	2	0	5 lb	CC10000S_5lb	NSL-5-1	0.0747299 g	0.23 g	0.0011945 g	A
WM-5A03	3	0	5 lb	CC10000S_5lb	NSL-5-1	0.0914299 g	0.23 g	0.0011945 g	A
WM-5A03	4	0	5 lb	CC10000S_5lb	NSL-5-1	0.0775299 g	0.23 g	0.0011945 g	A
WM-5A03	5	0	5 lb	CC10000S_5lb	NSL-5-1	0.0734299 g	0.23 g	0.0011945 g	A
WM-5A03	6	0	1 lb	CC1201_1 lb	NSL-1-1	0.0337168 g	0.07 g	0.0007899 g	A
WM-5A03	7	0	1 lb	CC1201_1 lb	NSL-1-1	0.0240168 g	0.07 g	0.0007899 g	A
WM-5A03	8	0	1 lb	CC1201_1 lb	NSL-1-1	0.0230168 g	0.07 g	0.0007899 g	A
WM-5A03	9	0	1 lb	CC1201_1 lb	NSL-1-1	0.0240168 g	0.07 g	0.0007899 g	A
WM-5A03	10	0	1 lb	CC1201_1 lb	NSL-1-1	0.0246168 g	0.07 g	0.0007899 g	A
WM-5A03	11	0	0.5 lb	CC1201_8 oz	NSL-8-1	0.0231222 g	0.045 g	0.0008099 g	A
WM-5A03	12	0	0.2 lb	AT106_0.2 lb	NSL-WK2	0.0066544 g	0.018 g	0.0000444 g	A
WM-5A03	13	0	0.2 lb*	AT106_0.2 lb	NSL-WK2	0.0063104 g	0.018 g	0.0000444 g	A
WM-5A03	14	0	0.1 lb	AT106_0.2 lb	NSL-WK3	0.0025007 g	0.0091 g	0.0000379 g	A
WM-5A03	15	0	0.05 lb	AT106_0.05 lb	NSL-WK4	0.0014342 g	0.0045 g	0.0000359 g	A
WM-5A03	16	0	0.02 lb	AT106_0.05 lb	NSL-WK6	-0.0000006 g	0.0018 g	0.0000279 g	A
WM-5A03	17	0	0.02 lb*	AT106_0.05 lb	NSL-WK6	0.0004844 g	0.0018 g	0.0000279 g	A
WM-5A03	18	0	0.01 lb	CCE6_0.01 lb	NSL-WK7	0.0001671 g	0.0015 g	0.0000158 g	A
WM-5A03	19	0	0.005 lb	CCE6_0.01 lb	NSL-WK8	0.0003665 g	0.0012 g	0.0000057 g	A
WM-5A03	20	0	0.002 lb	CCE6_0.01 lb	NSL-WK10	0.0003445 g	0.00087 g	0.0000052 g	A
WM-5A03	21	0	0.002 lb*	CCE6_0.01 lb	NSL-WK10	0.0003164 g	0.00087 g	0.0000052 g	A
WM-5A03	22	0	0.001 lb	CCE6_0.01 lb	NSL-WK11	0.0001227 g	0.0007 g	0.0000052 g	A
WM-C-A1	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.2625192 g	2.3 g	0.0458730 g	A
WM-C-A10	1	0	50 lb	KA30-3_50lb	NSL-50-1	2.0175192 g	2.3 g	0.0458730 g	A

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WM-C-A2	1	0	50 lb	KA30-3_50lb	NSL-50-1	3.6375192 g	2.3 g	0.0458730 g	R
WM-C-A2	1	1	50 lb	KA30-3_50lb	NSL-50-1	-0.0974808 g	2.3 g	0.0458730 g	A
WM-C-A3	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.8075192 g	2.3 g	0.0458730 g	A
WM-C-A5	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.5675192 g	2.3 g	0.0458730 g	A
WM-C-A9	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.4925192 g	2.3 g	0.0458730 g	A
WM-OPI-C81	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.0424808 g	2.3 g	0.0458730 g	A
WM-OPI-C85	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.0725192 g	2.3 g	0.0458730 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.