



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 10

Date: 11/15/2011
Agency ID: 10
NE Cert No: 20110132
P.O. No:

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Submitted By: Eugene Haase

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance Class</u>
50 lb	A5C-14	1	F
50 lb	A5C-5	1	F
50 lb	C-C1	1	F
50 lb	C-C10	1	F
50 lb	C-C13	1	F
50 lb	C-C14	1	F
50 lb	C-C15	1	F
50 lb	C-C16	1	F
50 lb	C-C17	1	F
50 lb	C-C18	1	F
50 lb	C-C19	1	F
50 lb	C-C2	1	F
50 lb	C-C3	1	F
50 lb	C-C4	1	F
50 lb	C-C6	1	F
50 lb	C-C8	1	F
2 kg	K1	1	F
50 lb	OPI-C62	1	F
50 lb	OPI-C89	1	F
25 lb	WM25-24	1	F
1 kg	WM-2-89-5	1	F
500 g	WM-2-89-5	2	F
200 g	WM-2-89-5	3	F
200 g*	WM-2-89-5	4	F
100 g	WM-2-89-5	5	F

Department of Agriculture, 301 Centennial Mall South
Web Site: www.agr.ne.gov

Administration
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Weights and Measures
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Submitted By: Eugene Haase

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance Class</u>
50 g	WM-2-89-5	6	F
20 g	WM-2-89-5	7	F
20 g*	WM-2-89-5	8	F
10 g	WM-2-89-5	9	F
5 g	WM-2-89-5	10	F
2 g	WM-2-89-5	11	F
2 g*	WM-2-89-5	12	F
1 g	WM-2-89-5	13	F
500 mg	WM-2-89-5	14	F
200 mg	WM-2-89-5	15	F
200 mg*	WM-2-89-5	16	F
100 mg	WM-2-89-5	17	F
5 lb	WM-2C86	1	F
5 lb	WM-2C86	2	F
5 lb	WM-2C86	3	F
5 lb	WM-2C86	4	F
5 lb	WM-2C86	5	F
1 lb	WM-2C86	6	F
1 lb	WM-2C86	7	F
1 lb	WM-2C86	8	F
1 lb	WM-2C86	9	F
1 lb	WM-2C86	10	F
8 oz	WM-2C86	11	F
4 oz	WM-2C86	12	F
2 oz	WM-2C86	13	F
1 oz	WM-2C86	14	F
0.5 oz	WM-2C86	15	F
0.25 oz	WM-2C86	16	F
0.125 oz	WM-2C86	17	F
0.0625 oz	WM-2C86	18	F
50 lb	WM50-42	1	F
50 lb	WM50-71	1	F
25 lb	WM-D51	1	F
25 lb	WM-D52	1	F
25 lb	WM-D53	1	F
25 lb	WM-D54	1	F

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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance Class</u>
25 lb	WM-D55	1	F
25 lb	WM-D56	1	F
25 lb	WM-D57	1	F
25 lb	WM-D58	1	F
25 lb	WM-D59	1	F
25 lb	WM-D60	1	F
25 lb	WM-D61	1	F
1000 lb	WME1	1	F
1000 lb	WME10	1	F
1000 lb	WME11	1	F
1000 lb	WME12	1	F
1000 lb	WME13	1	F
1000 lb	WME14	1	F
1000 lb	WME15	1	F
1000 lb	WME17	1	F
1000 lb	WME19	1	F
1000 lb	WME2	1	F
1000 lb	WME20	1	F
1000 lb	WME21	1	F
1000 lb	WME22	1	F
1000 lb	WME23	1	F
1000 lb	WME24	1	F
1000 lb	WME3	1	F
1000 lb	WME4	1	F
1000 lb	WME5	1	F
1000 lb	WME6	1	F
1000 lb	WME7	1	F
1000 lb	WME9	1	F

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Area 10

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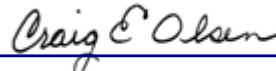
Denomination	Serial Number	Weight Number	Tolerance Class
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These field standards have been compared with our reference standards and found to be within the tolerances for their class, or condemned, as prescribed by the National Institute of Standards 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.

See 'Test Results' attached

See report/letter attached



Craig E. Olsen

Nebraska State Metrologist

Department of Agriculture, 301 Centennial Mall South

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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

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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
A5C-14	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.4551509 g	2.3 g	0.0504424 g	A
A5C-5	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.8801509 g	2.3 g	0.0504424 g	A
C-C1	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.7998491 g	2.3 g	0.0504424 g	R
C-C1	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.7701509 g	2.3 g	0.0504424 g	A
C-C10	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.1248491 g	2.3 g	0.0504424 g	A
C-C10	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.8751509 g	2.3 g	0.0504424 g	A
C-C13	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.0801509 g	2.3 g	0.0504424 g	A
C-C14	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.0051509 g	2.3 g	0.0504424 g	A
C-C15	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.0648491 g	2.3 g	0.0504424 g	A
C-C16	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.0298491 g	2.3 g	0.0504424 g	R
C-C16	1	1	50 lb	KA30-3_50lb	NSL-50-1	1.1551509 g	2.3 g	0.0504424 g	A
C-C17	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.5498491 g	2.3 g	0.0504424 g	R
C-C17	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.3701509 g	2.3 g	0.0504424 g	A
C-C18	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.0498491 g	2.3 g	0.0504424 g	R
C-C18	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.0451509 g	2.3 g	0.0504424 g	A
C-C19	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.4998491 g	2.3 g	0.0504424 g	R
C-C19	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.4001509 g	2.3 g	0.0504424 g	A
C-C2	1	0	50 lb	KA30-3_50lb	NSL-50-1	-4.8398491 g	2.3 g	0.0504424 g	R
C-C2	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.0401509 g	2.3 g	0.0504424 g	A
C-C3	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.8998491 g	2.3 g	0.0504424 g	R
C-C3	1	1	50 lb	KA30-3_50lb	NSL-50-1	1.2851509 g	2.3 g	0.0504424 g	A
C-C4	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.4348491 g	2.3 g	0.0504424 g	A
C-C6	1	0	50 lb	KA30-3_50lb	NSL-50-1	-4.2998491 g	2.3 g	0.0504424 g	R
C-C6	1	1	50 lb	KA30-3_50lb	NSL-50-1	1.1451509 g	2.3 g	0.0504424 g	A
C-C8	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.9998491 g	2.3 g	0.0504424 g	A
K1	1	0	2 kg	CC10000S_2kg	2kgd	-0.0281774 g	0.2 g	0.0010723 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: 10
 Agency: Food Safety & Consumer Protection
 Area 10

NE Cert No: 20110132
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 P.O. No:
 Observer: CEO

Submitted By: Eugene Haase

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
OPI-C62	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.6448491 g	2.3 g	0.0504424 g	R
OPI-C62	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.1301509 g	2.3 g	0.0504424 g	A
OPI-C89	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.5748491 g	2.3 g	0.0504424 g	R
OPI-C89	1	1	50 lb	KA30-3_50lb	NSL-50-1	1.3251509 g	2.3 g	0.0504424 g	A
WM25-24	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8018098 g	1.1 g	0.0343044 g	A
WM-2-89-5	1	0	1 kg	CC1201_kg	1kgd	0.0682716 g	0.1 g	0.0002927 g	A
WM-2-89-5	2	0	500 g	CC1201_kg	500gd	0.0373294 g	0.07 g	0.0002870 g	A
WM-2-89-5	3	0	200 g	CC1201_kg	200gd	0.0151214 g	0.04 g	0.0002855 g	A
WM-2-89-5	4	0	200 g*	CC1201_kg	200gd	0.0081214 g	0.04 g	0.0002855 g	A
WM-2-89-5	5	0	100 g	AT106_gm	100gv	-0.0059785 g	0.02 g	0.0000275 g	A
WM-2-89-5	6	0	50 g	AT106_gm	50gv	-0.0025392 g	0.01 g	0.0000227 g	A
WM-2-89-5	7	0	20 g	AT106_gm	20gv	-0.0004814 g	0.004 g	0.0000210 g	A
WM-2-89-5	8	0	20 g*	AT106_gm	20gv	-0.0004514 g	0.004 g	0.0000210 g	A
WM-2-89-5	9	0	10 g	AT106_gm	10gv	0.0003212 g	0.002 g	0.0000210 g	A
WM-2-89-5	10	0	5 g	CCE6_gm	5gv	-0.0003751 g	0.0015 g	0.0000075 g	A
WM-2-89-5	11	0	2 g	CCE6_gm	2gv	-0.0003249 g	0.0011 g	0.0000027 g	A
WM-2-89-5	12	0	2 g*	CCE6_gm	2gv	0.0006101 g	0.0011 g	0.0000027 g	A
WM-2-89-5	13	0	1 g	CCE6_gm	1gv	0.0001326 g	0.0009 g	0.0000026 g	A
WM-2-89-5	14	0	500 mg	CCE6_gm	500mgv	0.0004016 g	0.00072 g	0.0000025 g	A
WM-2-89-5	15	0	200 mg	CCE6_gm	200mgv	0.0000023 g	0.00054 g	0.0000024 g	A
WM-2-89-5	16	0	200 mg*	CCE6_gm	200mgv	0.0003614 g	0.00054 g	0.0000024 g	A
WM-2-89-5	17	0	100 mg	CCE6_gm	100mgv	-0.0000995 g	0.00043 g	0.0000025 g	A
WM-2C86	1	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1222297 g	0.23 g	0.0016486 g	A
WM-2C86	2	0	5 lb	CC10000S_5lb	NSL-5-1	-0.0972297 g	0.23 g	0.0016486 g	A
WM-2C86	3	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1191297 g	0.23 g	0.0016486 g	A
WM-2C86	4	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1330297 g	0.23 g	0.0016486 g	A
WM-2C86	5	0	5 lb	CC10000S_5lb	NSL-5-1	-0.1365297 g	0.23 g	0.0016486 g	A
WM-2C86	6	0	1 lb	CC1201_lb	NSL-1-1	-0.0179727 g	0.07 g	0.0022464 g	A
WM-2C86	7	0	1 lb	CC1201_lb	NSL-1-1	0.0047273 g	0.07 g	0.0022464 g	A
WM-2C86	8	0	1 lb	CC1201_lb	NSL-1-1	-0.0035727 g	0.07 g	0.0022464 g	A
WM-2C86	9	0	1 lb	CC1201_lb	NSL-1-1	0.0151273 g	0.07 g	0.0022464 g	A
WM-2C86	10	0	1 lb	CC1201_lb	NSL-1-1	0.0093273 g	0.07 g	0.0022464 g	A
WM-2C86	11	0	8 oz	CC1201_lb	NSL-8-1	0.0047329 g	0.045 g	0.0022441 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.

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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-2C86	12	0	4 oz	CC1201_lb	NSL-Z	0.0051960 g	0.023 g	0.0022413 g	A
WM-2C86	13	0	2 oz	AT106_lb	NSL-Y	0.0040332 g	0.011 g	0.0000637 g	A
WM-2C86	14	0	1 oz	AT106_lb	2A9-1oz	0.0004529 g	0.0054 g	0.0003671 g	A
WM-2C86	15	0	0.5 oz	AT106_lb	2A9-1.2oz	0.0008049 g	0.0028 g	0.0003670 g	A
WM-2C86	16	0	0.25 oz	AT106_lb	2A9-1.4oz	-0.0000735 g	0.0017 g	0.0000557 g	A
WM-2C86	17	0	0.125 oz	CCE6_lb	2A9-1.8oz	-0.0004009 g	0.0013 g	0.0000092 g	A
WM-2C86	18	0	0.0625 oz	CCE6_lb	2A9-1.16oz	0.0003942 g	0.0011 g	0.0000092 g	A
WM50-42	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.0148491 g	2.3 g	0.0504424 g	R
WM50-42	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.7651509 g	2.3 g	0.0504424 g	A
WM50-71	1	0	50 lb	KA30-3_50lb	NSL-50-1	-3.9398491 g	2.3 g	0.0504424 g	R
WM50-71	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.1901509 g	2.3 g	0.0504424 g	A
WM-D51	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0081902 g	1.1 g	0.0343044 g	A
WM-D52	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7618098 g	1.1 g	0.0343044 g	A
WM-D53	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0218098 g	1.1 g	0.0343044 g	A
WM-D54	1	0	25 lb	KA30-3_25lb	NSL-25-1	-1.0781902 g	1.1 g	0.0343044 g	A
WM-D54	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3018098 g	1.1 g	0.0343044 g	A
WM-D55	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4018098 g	1.1 g	0.0343044 g	A
WM-D56	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0418098 g	1.1 g	0.0343044 g	A
WM-D57	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0218098 g	1.1 g	0.0343044 g	A
WM-D58	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.8381902 g	1.1 g	0.0343044 g	A
WM-D58	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3218098 g	1.1 g	0.0343044 g	A
WM-D59	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.4081902 g	1.1 g	0.0343044 g	A
WM-D60	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3081902 g	1.1 g	0.0343044 g	A
WM-D61	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0481902 g	1.1 g	0.0343044 g	A
WME1	1	0	1000 lb	XP604KM_1Klb	C24	3.2831000 g	45 g	1.3547985 g	A
WME10	1	0	1000 lb	XP604KM_1Klb	C24	-24.0169000 g	45 g	1.3547985 g	A
WME11	1	0	1000 lb	XP604KM_1Klb	C24	-32.0169000 g	45 g	1.3547985 g	A
WME12	1	0	1000 lb	XP604KM_1Klb	C24	0.8831000 g	45 g	1.3547985 g	A
WME13	1	0	1000 lb	XP604KM_1Klb	C24	-47.0169000 g	45 g	1.3547985 g	R
WME13	1	1	1000 lb	XP604KM_1Klb	C24	26.0831000 g	45 g	1.3547985 g	A
WME14	1	0	1000 lb	XP604KM_1Klb	C24	-24.9169000 g	45 g	1.3547985 g	A
WME15	1	0	1000 lb	XP604KM_1Klb	C24	-49.9169000 g	45 g	1.3547985 g	R
WME15	1	1	1000 lb	XP604KM_1Klb	C24	25.9831000 g	45 g	1.3547985 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: 10
 Agency: Food Safety & Consumer Protection
 Area 10

NE Cert No: 20110132
 Date: 11/15/2011
 P.O. No:
 Observer: CEO

Submitted By: Eugene Haase

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
WME17	1	0	1000 lb	XP604KM_1Klb	C24	-17.3169000 g	45 g	1.3547985 g	A
WME19	1	0	1000 lb	XP604KM_1Klb	C24	-15.1169000 g	45 g	1.3547985 g	A
WME2	1	0	1000 lb	XP604KM_1Klb	C24	-50.6169000 g	45 g	1.3547985 g	R
WME2	1	1	1000 lb	XP604KM_1Klb	C24	26.1831000 g	45 g	1.3547985 g	A
WME20	1	0	1000 lb	XP604KM_1Klb	C24	5.2831000 g	45 g	1.3547985 g	A
WME21	1	0	1000 lb	XP604KM_1Klb	C24	-6.3169000 g	45 g	1.3547985 g	A
WME22	1	0	1000 lb	XP604KM_1Klb	C24	-26.2169000 g	45 g	1.3547985 g	A
WME23	1	0	1000 lb	XP604KM_1Klb	C24	-51.0169000 g	45 g	1.3547985 g	R
WME23	1	1	1000 lb	XP604KM_1Klb	C24	25.2831000 g	45 g	1.3547985 g	A
WME24	1	0	1000 lb	XP604KM_1Klb	C24	-6.5169000 g	45 g	1.3547985 g	A
WME3	1	0	1000 lb	XP604KM_1Klb	C24	-9.4169000 g	45 g	1.3547985 g	A
WME4	1	0	1000 lb	XP604KM_1Klb	C24	-33.9169000 g	45 g	1.3547985 g	A
WME4	1	1	1000 lb	XP604KM_1Klb	C24	26.2831000 g	45 g	1.3547985 g	A
WME5	1	0	1000 lb	XP604KM_1Klb	C24	4.5831000 g	45 g	1.3547985 g	A
WME6	1	0	1000 lb	XP604KM_1Klb	C24	12.5831000 g	45 g	1.3547985 g	A
WME7	1	0	1000 lb	XP604KM_1Klb	C24	-45.3169000 g	45 g	1.3547985 g	R
WME7	1	1	1000 lb	XP604KM_1Klb	C24	28.1831000 g	45 g	1.3547985 g	A
WME9	1	0	1000 lb	XP604KM_1Klb	C24	-44.0169000 g	45 g	1.3547985 g	A
WME9	1	1	1000 lb	XP604KM_1Klb	C24	25.4831000 g	45 g	1.3547985 g	A

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