



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
202 N. Washington
Oconto, NE 68860-

Date: 8/31/2010
Agency ID: 35
NE Cert No: 20100115
P.O. No:

Submitted By: Derek Eggleston

Electronic Copy Page 1

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance Class</u>
50 lb	A5C-4	1	F
1000 lb	B10	1	F
1000 lb	B11	1	F
1000 lb	B12	1	F
1000 lb	B13	1	F
1000 lb	B14	1	F
1000 lb	B17	1	F
1000 lb	B18	1	F
1000 lb	B19	1	F
1000 lb	B2	1	F
1000 lb	B20	1	F
1000 lb	B21	1	F
1000 lb	B22	1	F
1000 lb	B23	1	F
1000 lb	B3	1	F
1000 lb	B4	1	F
1000 lb	B5	1	F
1000 lb	B6	1	F
1000 lb	B7	1	F
1000 lb	B8	1	F
1000 lb	B9	1	F
50 lb	B-C-1	1	F
50 lb	B-C-10	1	F
50 lb	B-C-11	1	F
50 lb	B-C-12	1	F

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FAX: (402) 471-6876

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Page 2

<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance Class</u>
50 lb	B-C-2	1	F
50 lb	B-C-3	1	F
50 lb	B-C-4	1	F
50 lb	B-C-5	1	F
50 lb	B-C-6	1	F
50 lb	B-C-7	1	F
50 lb	B-C-8	1	F
50 lb	B-C-9	1	F
2 kg	K2	1	F
1000 lb	OA20	1	F
25 lb	OPI-D1	1	F
1 kg	WM-2-89-3	1	F
500 g	WM-2-89-3	2	F
200 g	WM-2-89-3	3	F
200 g*	WM-2-89-3	4	F
100 g	WM-2-89-3	5	F
50 g	WM-2-89-3	6	F
20 g	WM-2-89-3	7	F
20 g*	WM-2-89-3	8	F
10 g	WM-2-89-3	9	F
5 g	WM-2-89-3	10	F
2 g*	WM-2-89-3	12	F
1 g	WM-2-89-3	13	F
500 mg	WM-2-89-3	14	F
200 mg	WM-2-89-3	15	F
200 mg*	WM-2-89-3	16	F
100 mg	WM-2-89-3	17	F
5 lb	WM-2B86	1	F
5 lb	WM-2B86	2	F
5 lb	WM-2B86	3	F
5 lb	WM-2B86	4	F
5 lb	WM-2B86	5	F
1 lb	WM-2B86	6	F
1 lb	WM-2B86	7	F
1 lb	WM-2B86	8	F
1 lb	WM-2B86	9	F

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Page 3


Denomination	Serial Number	Weight Number	Tolerance Class	
1 lb	WM-2B86	10	F	
8 oz	WM-2B86	11	F	
4 oz	WM-2B86	12	F	
4 oz	WM-2B86	13	F	
2 oz	WM-2B86	14	F	
1 oz	WM-2B86	15	F	
0.5 oz	WM-2B86	16	F	Condemned
0.25 oz	WM-2B86	17	F	
0.125 oz	WM-2B86	18	F	
50 lb	WM50-12	1	F	
50 lb	WM50-16	1	F	
50 lb	WM50-52	1	F	
50 lb	WM50-53	1	F	
50 lb	WM50-7	1	F	
25 lb	WM-D15	1	F	
25 lb	WM-D21	1	F	
25 lb	WM-D22	1	F	
25 lb	WM-D23	1	F	
25 lb	WM-D24	1	F	
25 lb	WM-D25	1	F	
25 lb	WM-D26	1	F	
25 lb	WM-D28	1	F	
25 lb	WM-D29	1	F	
25 lb	WM-D44	1	F	
25 lb	WM-OPI-D3	1	F	

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

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3721 West Cuming Street
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SOP 8 - Modified Substitution Test Results

Form No.: NE04LF9-R00

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Page 1 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
A5C-4	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.3098491 g	2.3 g	0.0518742 g	R
A5C-4	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.2001509 g	2.3 g	0.0518742 g	A
B10	1	0	1000 lb	KC500-1	C24	-67.5925817 g	45 g	2.5855327 g	R
B10	1	1	1000 lb	KC500-1	C24	25.8074183 g	45 g	2.5855327 g	A
B11	1	0	1000 lb	KC500-1	C24	-84.3925817 g	45 g	2.5855327 g	R
B11	1	1	1000 lb	KC500-1	C24	6.6074183 g	45 g	2.5855327 g	A
B12	1	0	1000 lb	KC500-1	C24	-131.6925817 g	45 g	2.5855327 g	R
B12	1	1	1000 lb	KC500-1	C24	32.3074183 g	45 g	2.5855327 g	A
B13	1	0	1000 lb	KC500-1	C24	-84.5925817 g	45 g	2.5855327 g	R
B13	1	1	1000 lb	KC500-1	C24	9.3074183 g	45 g	2.5855327 g	A
B14	1	0	1000 lb	KC500-1	C24	-26.3925817 g	45 g	2.5855327 g	A
B17	1	0	1000 lb	KC500-1	C24	-87.3925817 g	45 g	2.5855327 g	R
B17	1	1	1000 lb	KC500-1	C24	13.5074183 g	45 g	2.5855327 g	A
B18	1	0	1000 lb	KC500-1	C24	-60.0925817 g	45 g	2.5855327 g	R
B18	1	1	1000 lb	KC500-1	C24	23.8074183 g	45 g	2.5855327 g	A
B19	1	0	1000 lb	KC500-1	C24	-59.5925817 g	45 g	2.5855327 g	R
B19	1	1	1000 lb	KC500-1	C24	21.0074183 g	45 g	2.5855327 g	A
B2	1	0	1000 lb	KC500-1	C24	-126.4925817 g	45 g	2.5855327 g	R
B2	1	1	1000 lb	KC500-1	C24	31.8074183 g	45 g	2.5855327 g	A
B20	1	0	1000 lb	KC500-1	C24	-79.6925817 g	45 g	2.5855327 g	R
B20	1	1	1000 lb	KC500-1	C24	17.4074183 g	45 g	2.5855327 g	A
B21	1	0	1000 lb	KC500-1	C24	-76.7925817 g	45 g	2.5855327 g	R
B21	1	1	1000 lb	KC500-1	C24	24.6074183 g	45 g	2.5855327 g	A
B22	1	0	1000 lb	KC500-1	C24	-86.2925817 g	45 g	2.5855327 g	R
B22	1	1	1000 lb	KC500-1	C24	23.3074183 g	45 g	2.5855327 g	A
B23	1	0	1000 lb	KC500-1	C24	-52.1925817 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.

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Page 2 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
B23	1	1	1000 lb	KC500-1	C24	37.1074183 g	45 g	2.5855327 g	A
B3	1	0	1000 lb	KC500-1	C24	-110.5925817 g	45 g	2.5855327 g	R
B3	1	1	1000 lb	KC500-1	C24	24.0074183 g	45 g	2.5855327 g	A
B4	1	0	1000 lb	KC500-1	C24	-90.9925817 g	45 g	2.5855327 g	R
B4	1	1	1000 lb	KC500-1	C24	28.4074183 g	45 g	2.5855327 g	A
B5	1	0	1000 lb	KC500-1	C24	-31.8925817 g	45 g	2.5855327 g	A
B6	1	0	1000 lb	KC500-1	C24	-41.6925817 g	45 g	2.5855327 g	A
B6	1	1	1000 lb	KC500-1	C24	24.4074183 g	45 g	2.5855327 g	A
B7	1	0	1000 lb	KC500-1	C24	-78.9925817 g	45 g	2.5855327 g	R
B7	1	1	1000 lb	KC500-1	C24	33.3074183 g	45 g	2.5855327 g	A
B8	1	0	1000 lb	KC500-1	C24	-51.6925817 g	45 g	2.5855327 g	R
B8	1	1	1000 lb	KC500-1	C24	22.2074183 g	45 g	2.5855327 g	A
B9	1	0	1000 lb	KC500-1	C24	-34.2925817 g	45 g	2.5855327 g	A
B9	1	1	1000 lb	KC500-1	C24	28.2074183 g	45 g	2.5855327 g	A
B-C-1	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.4298491 g	2.3 g	0.0518742 g	R
B-C-1	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.5201509 g	2.3 g	0.0518742 g	A
B-C-10	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.8448491 g	2.3 g	0.0518742 g	A
B-C-11	1	0	50 lb	KA30-3_50lb	NSL-50-1	-1.3698491 g	2.3 g	0.0518742 g	A
B-C-12	1	0	50 lb	KA30-3_50lb	NSL-50-1	0.2851509 g	2.3 g	0.0518742 g	A
B-C-2	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.0548491 g	2.3 g	0.0518742 g	A
B-C-2	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.8601509 g	2.3 g	0.0518742 g	A
B-C-3	1	0	50 lb	KA30-3_50lb	NSL-50-1	-1.9098491 g	2.3 g	0.0518742 g	A
B-C-3	1	1	50 lb	KA30-3_50lb	NSL-50-1	-0.0548491 g	2.3 g	0.0518742 g	A
B-C-4	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.1498491 g	2.3 g	0.0518742 g	A
B-C-4	1	1	50 lb	KA30-3_50lb	NSL-50-1	-0.3498491 g	2.3 g	0.0518742 g	A
B-C-5	1	0	50 lb	KA30-3_50lb	NSL-50-1	3.3151509 g	2.3 g	0.0518742 g	R
B-C-5	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.4551509 g	2.3 g	0.0518742 g	A
B-C-6	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.8198491 g	2.3 g	0.0518742 g	A
B-C-7	1	0	50 lb	KA30-3_50lb	NSL-50-1	-1.0498491 g	2.3 g	0.0518742 g	A
B-C-8	1	0	50 lb	KA30-3_50lb	NSL-50-1	-4.2348491 g	2.3 g	0.0518742 g	R
B-C-8	1	1	50 lb	KA30-3_50lb	NSL-50-1	-0.0498491 g	2.3 g	0.0518742 g	A
B-C-9	1	0	50 lb	KA30-3_50lb	NSL-50-1	1.5401509 g	2.3 g	0.0518742 g	A
K2	1	0	2 kg	CC1000S-2 kg	2kgd	-0.1718774 g	0.2 g	0.0011048 g	A

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Page 3 of 4

Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
OA20	1	0	1000 lb	KC500-1	C24	-57.5925817 g	45 g	2.5855327 g	R
OA20	1	1	1000 lb	KC500-1	C24	27.3074183 g	45 g	2.5855327 g	A
OPI-D1	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.4468098 g	1.1 g	0.0329709 g	R
OPI-D1	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5618098 g	1.1 g	0.0329709 g	A
WM-2-89-3	1	0	1 kg	CC1201-kg	1kgd	0.0534716 g	0.1 g	0.0004024 g	A
WM-2-89-3	2	0	500 g	CC1201-kg	500gd	0.0405294 g	0.07 g	0.0003983 g	A
WM-2-89-3	3	0	200 g	CC1201-kg	200gd	0.0226214 g	0.04 g	0.0003971 g	A
WM-2-89-3	4	0	200 g*	CC1201-kg	200gd	0.0211214 g	0.04 g	0.0003971 g	A
WM-2-89-3	5	0	100 g	AT106-gm	100gv	0.0002825 g	0.02 g	0.0000366 g	A
WM-2-89-3	6	0	50 g	AT106-gm	50gv	0.0062238 g	0.01 g	0.0000332 g	A
WM-2-89-3	7	0	20 g	AT106-gm	20gv	0.0001206 g	0.004 g	0.0000320 g	A
WM-2-89-3	8	0	20 g*	AT106-gm	20gv	-0.0008604 g	0.004 g	0.0000320 g	A
WM-2-89-3	9	0	10 g	AT106-gm	10gv	0.0009372 g	0.002 g	0.0000321 g	A
WM-2-89-3	10	0	5 g	UMT5/6-gm	5gv	-0.0004699 g	0.0015 g	0.0000089 g	A
WM-2-89-3	12	0	2 g*	UMT5/6-gm	2gv	0.0006260 g	0.0011 g	0.0000084 g	A
WM-2-89-3	13	0	1 g	UMT5/6-gm	1gv	0.0005303 g	0.0009 g	0.0000083 g	A
WM-2-89-3	14	0	500 mg	UMT5/6-gm	500mgv	0.0005195 g	0.00072 g	0.0000083 g	A
WM-2-89-3	15	0	200 mg	UMT5/6-gm	200mgv	0.0003280 g	0.00054 g	0.0000083 g	A
WM-2-89-3	16	0	200 mg*	UMT5/6-gm	200mgv	0.0003770 g	0.00054 g	0.0000083 g	A
WM-2-89-3	17	0	100 mg	UMT5/6-gm	100mgv	-0.0000871 g	0.00043 g	0.0000083 g	A
WM-2B86	1	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0246297 g	0.23 g	0.0016699 g	A
WM-2B86	2	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0046297 g	0.23 g	0.0016699 g	A
WM-2B86	3	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0584297 g	0.23 g	0.0016699 g	A
WM-2B86	4	0	5 lb	CC1000S-5 lb	NSL-5-1	-0.0178297 g	0.23 g	0.0016699 g	A
WM-2B86	5	0	5 lb	CC1000S-5 lb	NSL-5-1	0.0038703 g	0.23 g	0.0016699 g	A
WM-2B86	6	0	1 lb	CC1201-lb	NSL-1-1	-0.0081241 g	0.07 g	0.0007427 g	A
WM-2B86	7	0	1 lb	CC1201-lb	NSL-1-1	-0.0117241 g	0.07 g	0.0007427 g	A
WM-2B86	8	0	1 lb	CC1201-lb	NSL-1-1	0.0100759 g	0.07 g	0.0007427 g	A
WM-2B86	9	0	1 lb	CC1201-lb	NSL-1-1	-0.0108241 g	0.07 g	0.0007427 g	A
WM-2B86	10	0	1 lb	CC1201-lb	NSL-1-1	-0.0052241 g	0.07 g	0.0007427 g	A
WM-2B86	11	0	8 oz	CC1201-lb	NSL-8-1	-0.0022265 g	0.045 g	0.0007356 g	A
WM-2B86	12	0	4 oz	CC1201-lb	NSL-Z	-0.0183040 g	0.023 g	0.0007272 g	A
WM-2B86	13	0	4 oz	CC1201-lb	NSL-Z	0.0094960 g	0.023 g	0.0007272 g	A

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WM-2B86	14	0	2 oz	AT106-lb	NSL-Y	0.0028172 g	0.011 g	0.0000616 g	A
WM-2B86	15	0	1 oz	AT106-lb	2A9-1oz	0.0000429 g	0.0054 g	0.0003667 g	A
WM-2B86	16	0	0.5 oz	AT106-lb	2A9-1.2oz	g	0.0028 g	0.0003666 g	R
WM-2B86	17	0	0.25 oz	AT106-lb	2A9-1.4oz	-0.0000105 g	0.0017 g	0.0000532 g	A
WM-2B86	18	0	0.125 oz	AT106-lb	2A9-1.8oz	0.0002298 g	0.0013 g	0.0000510 g	A
WM50-12	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.4598491 g	2.3 g	0.0518742 g	A
WM50-16	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.5998491 g	2.3 g	0.0518742 g	A
WM50-52	1	0	50 lb	KA30-3_50lb	NSL-50-1	-0.7298491 g	2.3 g	0.0518742 g	A
WM50-53	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.5548491 g	2.3 g	0.0518742 g	R
WM50-53	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.2451509 g	2.3 g	0.0518742 g	A
WM50-7	1	0	50 lb	KA30-3_50lb	NSL-50-1	-2.3548491 g	2.3 g	0.0518742 g	R
WM50-7	1	1	50 lb	KA30-3_50lb	NSL-50-1	0.3401509 g	2.3 g	0.0518742 g	A
WM-D15	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2668098 g	1.1 g	0.0329709 g	R
WM-D15	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1068098 g	1.1 g	0.0329709 g	A
WM-D21	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.5468098 g	1.1 g	0.0329709 g	R
WM-D21	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2468098 g	1.1 g	0.0329709 g	A
WM-D22	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4968098 g	1.1 g	0.0329709 g	A
WM-D23	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2668098 g	1.1 g	0.0329709 g	R
WM-D23	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3318098 g	1.1 g	0.0329709 g	A
WM-D24	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9868098 g	1.1 g	0.0329709 g	A
WM-D25	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.5768098 g	1.1 g	0.0329709 g	R
WM-D25	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.5618098 g	1.1 g	0.0329709 g	A
WM-D26	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2068098 g	1.1 g	0.0329709 g	R
WM-D26	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.6068098 g	1.1 g	0.0329709 g	A
WM-D28	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1618098 g	1.1 g	0.0329709 g	R
WM-D28	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3218098 g	1.1 g	0.0329709 g	A
WM-D29	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.6668098 g	1.1 g	0.0329709 g	A
WM-D44	1	0	25 lb	KA30-3_25lb	NSL-25-1	2.8068098 g	1.1 g	0.0329709 g	R
WM-D44	1	1	25 lb	KA30-3_25lb	NSL-25-1	-0.0131902 g	1.1 g	0.0329709 g	A
WM-OPI-D3	1	0	25 lb	KA30-3_25lb	NSL-25-1	2.3168098 g	1.1 g	0.0329709 g	R
WM-OPI-D3	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.4768098 g	1.1 g	0.0329709 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.