



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
27102 Van Dorn Street
Palmyra, NE 68418-

Date: 11/2/2010
Agency ID: 45
NE Cert No: 20100148
P.O. No:

Submitted By: Jeff Lampmann

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Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
5 gal	0247	1	VL	A
5 gal	0248	1	VL	A
5 gal	0249	1	VL	A
0.3 lb	11570	1	F	A
0.2 lb	11570	2	F	A
0.1 lb	11570	3	F	A
0.05 lb	11570	4	F	A
0.03 lb	11570	5	F	A
0.02 lb	11570	6	F	A
0.01 lb	11570	7	F	A
0.005 lb	11570	8	F	A
0.003 lb	11570	9	F	A
0.002 lb	11570	10	F	A
0.001 lb	11570	11	F	A
0.001 lb*	11570	12	F	A
2 lb	11-OPI-85	1	F	A
2 lb	11-OPI-85	2	F	A
2 lb	11-OPI-85	3	F	A
2 lb	11-OPI-85	4	F	A
2 lb	11-OPI-85	5	F	A
2 lb	11-OPI-85	6	F	A
2 lb	11-OPI-85	7	F	A
2 lb	11-OPI-85	8	F	A
2 lb	11-OPI-85	9	F	A
2 lb	11-OPI-85	10	F	A

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Weights and Measures
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<u>Denomination</u>	<u>Serial Number</u>	<u>Weight Number</u>	<u>Tolerance</u>	<u>Accept/Reject</u>
2 lb	11-OPI-85	11	F	A
2 lb	11-OPI-85	12	F	A
2 lb	11-OPI-85	13	F	A
2 lb	11-OPI-85	14	F	A
1 lb	11-OPI-85	15	F	A
1 lb	11-OPI-85	16	F	A
8 oz	11-OPI-85	17	F	A
4 oz	11-OPI-85	18	F	A
2 oz	11-OPI-85	19	F	A
1 oz	11-OPI-85	20	F	A
0.5 oz	11-OPI-85	21	F	A
0.25 oz	11-OPI-85	22	F	A
0.125 oz	11-OPI-85	23	F	A
0.0625 oz	11-OPI-85	24	F	A
0.0625 oz*	11-OPI-85	25	F	A
5 gal	4393-5-E	1	VL	A
5 gal	4393-5-F	1	VL	A
0.2 lb	N-99-B	1	F	A
0.2 lb*	N-99-B	2	F	A
0.1 lb	N-99-B	3	F	A
0.05 lb	N-99-B	4	F	A
0.02 lb	N-99-B	5	F	A
0.02 lb*	N-99-B	6	F	A
0.01 lb	N-99-B	7	F	A
0.005 lb	N-99-B	8	F	A
0.002 lb	N-99-B	9	F	A
0.002 lb*	N-99-B	10	F	A
0.001 lb	N-99-B	11	F	A
25 lb	NE-21	1	F	A
25 lb	NE-22	1	F	A
25 lb	NE-24	1	F	A
25 lb	NE-25	1	F	A
25 lb	NE-26	1	F	A
25 lb	NE-30	1	F	A
25 lb	NE-31	1	F	A
25 lb	NE-32	1	F	A

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Denomination	Serial Number	Weight Number	Tolerance	Accept/Reject
25 lb	NE-33	1	F	A
25 lb	NE-34	1	F	A
25 lb	NE-35	1	F	A
25 lb	NE-36	1	F	A
25 lb	NE-37	1	F	A
25 lb	NE-40	1	F	A
25 lb	WM25-114	1	F	A
25 lb	WM25-116	1	F	A
25 lb	WM25-117	1	F	A
25 lb	WM25-119	1	F	A
25 lb	WM25-121	1	F	A
25 lb	WM25-122	1	F	A
25 lb	WM25-124	1	F	A
25 lb	WM25-127	1	F	A
25 lb	WM25-131	1	F	A
25 lb	WM25-42	1	F	A
25 lb	WM25-43	1	F	A
25 lb	WM25-44	1	F	A

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

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
11570	1	0	0.3 lb	CC1201-lb	NSL-WK1	0.0098900 g	0.027 g	0.0007302 g	A
11570	2	0	0.2 lb	AT106-lb	NSL-WK2	0.0075929 g	0.018 g	0.0000645 g	A
11570	3	0	0.1 lb	AT106-lb	NSL-WK3	-0.0039723 g	0.0091 g	0.0000583 g	A
11570	4	0	0.05 lb	AT106-lb	NSL-WK4	0.0016321 g	0.0045 g	0.0000569 g	A
11570	5	0	0.03 lb	AT106-lb	NSL-WK5	0.0012303 g	0.0027 g	0.0000525 g	A
11570	6	0	0.02 lb	AT106-lb	NSL-WK6	0.0003054 g	0.0018 g	0.0000538 g	A
11570	7	0	0.01 lb	UMT5/6-lb	NSL-WK7	0.0005741 g	0.0015 g	0.0000136 g	A
11570	8	0	0.005 lb	UMT5/6-lb	NSL-WK8	0.0005513 g	0.0012 g	0.0000127 g	A
11570	9	0	0.003 lb	UMT5/6-lb	NSL-WK9	0.0004040 g	0.00099 g	0.0000124 g	A
11570	10	0	0.002 lb	UMT5/6-lb	NSL-WK10	0.0005479 g	0.00087 g	0.0000120 g	A
11570	11	0	0.001 lb	UMT5/6-lb	NSL-WK11	0.0003818 g	0.0007 g	0.0000119 g	A
11570	12	0	0.001 lb*	UMT5/6-lb	NSL-WK11	0.0004725 g	0.0007 g	0.0000119 g	A
11-OPI-85	1	0	2 lb	CC1201-lb	NSL-2-1	0.0490819 g	0.091 g	0.0007758 g	A
11-OPI-85	2	0	2 lb	CC1201-lb	NSL-2-1	-0.0844181 g	0.091 g	0.0007758 g	A
11-OPI-85	3	0	2 lb	CC1201-lb	NSL-2-1	-0.0812181 g	0.091 g	0.0007758 g	A
11-OPI-85	4	0	2 lb	CC1201-lb	NSL-2-1	-0.0879181 g	0.091 g	0.0007758 g	A
11-OPI-85	5	0	2 lb	CC1201-lb	NSL-2-1	-0.0761181 g	0.091 g	0.0007758 g	A
11-OPI-85	6	0	2 lb	CC1201-lb	NSL-2-1	-0.0518181 g	0.091 g	0.0007758 g	A
11-OPI-85	7	0	2 lb	CC1201-lb	NSL-2-1	-0.0484181 g	0.091 g	0.0007758 g	A
11-OPI-85	8	0	2 lb	CC1201-lb	NSL-2-1	-0.0708181 g	0.091 g	0.0007758 g	A
11-OPI-85	9	0	2 lb	CC1201-lb	NSL-2-1	-0.0681181 g	0.091 g	0.0007758 g	A
11-OPI-85	10	0	2 lb	CC1201-lb	NSL-2-1	-0.0512181 g	0.091 g	0.0007758 g	A
11-OPI-85	11	0	2 lb	CC1201-lb	NSL-2-1	-0.0821181 g	0.091 g	0.0007758 g	A
11-OPI-85	12	0	2 lb	CC1201-lb	NSL-2-1	-0.0790181 g	0.091 g	0.0007758 g	A
11-OPI-85	13	0	2 lb	CC1201-lb	NSL-2-1	-0.0762181 g	0.091 g	0.0007758 g	A
11-OPI-85	14	0	2 lb	CC1201-lb	NSL-2-1	-0.0784181 g	0.091 g	0.0007758 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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 27102 Van Dorn Street
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 Observer: CEO

Submitted By: Jeff Lampmann

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Serial Number	Wt. No.	Retest No.	Denom.	Comparator used	Standard Used	Error of test weight	Tolerance	Uncertainty	Accepted or Rejected
11-OPI-85	15	0	1 lb	CC1201-lb	NSL-1-1	-0.0468241 g	0.07 g	0.0007427 g	A
11-OPI-85	16	0	1 lb	CC1201-lb	NSL-1-1	-0.0483241 g	0.07 g	0.0007427 g	A
11-OPI-85	17	0	8 oz	CC1201-lb	NSL-8-1	-0.0287265 g	0.045 g	0.0007356 g	A
11-OPI-85	18	0	4 oz	CC1201-lb	NSL-Z	-0.0196040 g	0.023 g	0.0007272 g	A
11-OPI-85	19	0	2 oz	AT106-lb	NSL-Y	-0.0098508 g	0.011 g	0.0000616 g	A
11-OPI-85	20	0	1 oz	AT106-lb	2A9-1oz	0.0004959 g	0.0054 g	0.0003667 g	A
11-OPI-85	21	0	0.5 oz	AT106-lb	2A9-1.2oz	0.0009419 g	0.0028 g	0.0003666 g	A
11-OPI-85	22	0	0.25 oz	AT106-lb	2A9-1.4oz	0.0007025 g	0.0017 g	0.0000532 g	A
11-OPI-85	23	0	0.125 oz	UMT5/6-lb	2A9-1.8oz	0.0002570 g	0.0013 g	0.0000127 g	A
11-OPI-85	24	0	0.0625 oz	UMT5/6-lb	2A9-1.16oz	0.0001135 g	0.0011 g	0.0000127 g	A
11-OPI-85	25	0	0.0625 oz*	UMT5/6-lb	2A9-1.16oz	0.0004466 g	0.0011 g	0.0000127 g	A
N-99-B	1	0	0.2 lb	AT106-lb	NSL-WK2	0.0082419 g	0.018 g	0.0000645 g	A
N-99-B	2	0	0.2 lb*	AT106-lb	NSL-WK2	0.0083599 g	0.018 g	0.0000645 g	A
N-99-B	3	0	0.1 lb	AT106-lb	NSL-WK3	0.0036267 g	0.0091 g	0.0000583 g	A
N-99-B	4	0	0.05 lb	AT106-lb	NSL-WK4	0.0000301 g	0.0045 g	0.0000569 g	A
N-99-B	5	0	0.02 lb	AT106-lb	NSL-WK6	-0.0006536 g	0.0018 g	0.0000538 g	A
N-99-B	6	0	0.02 lb*	AT106-lb	NSL-WK6	-0.0003076 g	0.0018 g	0.0000538 g	A
N-99-B	7	0	0.01 lb	UMT5/6-lb	NSL-WK7	0.0001741 g	0.0015 g	0.0000136 g	A
N-99-B	8	0	0.005 lb	UMT5/6-lb	NSL-WK8	0.0003088 g	0.0012 g	0.0000127 g	A
N-99-B	9	0	0.002 lb	UMT5/6-lb	NSL-WK10	-0.0002139 g	0.00087 g	0.0000120 g	A
N-99-B	10	0	0.002 lb*	UMT5/6-lb	NSL-WK10	-0.0003134 g	0.00087 g	0.0000120 g	A
N-99-B	11	0	0.001 lb	UMT5/6-lb	NSL-WK11	-0.0002384 g	0.0007 g	0.0000119 g	A
NE-21	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0581902 g	1.1 g	0.0329709 g	A
NE-22	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2631902 g	1.1 g	0.0329709 g	A
NE-24	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3731902 g	1.1 g	0.0329709 g	A
NE-25	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.0018098 g	1.1 g	0.0329709 g	A
NE-26	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1081902 g	1.1 g	0.0329709 g	A
NE-30	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.6231902 g	1.1 g	0.0329709 g	A
NE-31	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2631902 g	1.1 g	0.0329709 g	A
NE-32	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3381902 g	1.1 g	0.0329709 g	A
NE-33	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3831902 g	1.1 g	0.0329709 g	A
NE-34	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.1631902 g	1.1 g	0.0329709 g	A
NE-35	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0131902 g	1.1 g	0.0329709 g	A

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NE-36	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.0031902 g	1.1 g	0.0329709 g	A
NE-37	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.3581902 g	1.1 g	0.0329709 g	A
NE-40	1	0	25 lb	KA30-3_25lb	NSL-25-1	-0.2131902 g	1.1 g	0.0329709 g	A
WM25-114	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9618098 g	1.1 g	0.0329709 g	A
WM25-116	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8218098 g	1.1 g	0.0329709 g	A
WM25-117	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.1768098 g	1.1 g	0.0329709 g	R
WM25-117	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.3518098 g	1.1 g	0.0329709 g	A
WM25-119	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.5068098 g	1.1 g	0.0329709 g	A
WM25-121	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2818098 g	1.1 g	0.0329709 g	R
WM25-121	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1518098 g	1.1 g	0.0329709 g	A
WM25-122	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2568098 g	1.1 g	0.0329709 g	R
WM25-122	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.0618098 g	1.1 g	0.0329709 g	A
WM25-124	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.4818098 g	1.1 g	0.0329709 g	A
WM25-127	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.8018098 g	1.1 g	0.0329709 g	A
WM25-131	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.2768098 g	1.1 g	0.0329709 g	R
WM25-131	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.2218098 g	1.1 g	0.0329709 g	A
WM25-42	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.9068098 g	1.1 g	0.0329709 g	A
WM25-43	1	0	25 lb	KA30-3_25lb	NSL-25-1	1.0518098 g	1.1 g	0.0329709 g	A
WM25-43	1	1	25 lb	KA30-3_25lb	NSL-25-1	0.1018098 g	1.1 g	0.0329709 g	A
WM25-44	1	0	25 lb	KA30-3_25lb	NSL-25-1	0.7468098 g	1.1 g	0.0329709 g	A

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