



old # case

Weights & Measures Metrology Laboratory  
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Receipt Date: December 19, 2011  
Test Date: December 21, 2011  
Report Date: December 21, 2011

State Test No.: 328672  
Set Serial No.: HSS-8-S

## Calibration Report

HAWKEYE STATE SCALE  
5040 BLAIRS FOREST WAY NE  
CEDAR RAPIDS, IOWA 52402  
Contact: JOHN FISHBECK  
Phone: 319-364-4173  
PO Number: none  
SOP: 12  
Technician ID: 02

Item(s) Submitted: Satin ss 30 lb kit with fractions  
Manufacturer: Rice Lake  
ASTM E617 Type: I & II  
Equipment ID#: None  
Condition: Good  
Temperature: 19.9°C  
Pressure: 734. mmHg  
Relative Humidity: 45. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
10 lb	1	-19.	-19.	F	F	13.
10 lb	--	142.	142.	F	F	13.
5 lb	--	-22.	-22.	F	F	9.
1 lb	1	-6.	-6.	F	F	4.2
1 lb	2	-3.	-3.	F	F	4.2
1 lb	3	-4.	-4.	F	F	4.2
1 lb	4	18.	18.	F	F	4.2
1 lb	5	-6.	-6.	F	F	4.2
4 oz	--	11.62	11.62	F	F	0.061
4 oz	--	6.88	6.88	F	F	0.061
4 oz	--	1.77	1.77	F	F	0.061
1 oz	--	3.85	3.85	F	F	0.06
1 oz	--	-5.42	-5.42	*	Removed	
1 oz	--	3.71	3.71	F	F	0.06
1/2 oz	--	0.77	0.77	F	F	0.06
1/2 oz	--	1.34	1.34	F	F	0.06
1/4 oz	--	0.95	0.95	F	F	0.06
1/4 oz	--	0.76	0.76	F	F	0.06

\* Weight(s) as found exceed NIST HB 105-1 Class F tolerance.

When used as a set these weights meet NIST HB 105-1 class F tolerances.

The resulting tolerance class of the weight is determined by combining the correction of the weight and the uncertainty of the measurement. The corrections given above correlate to a conventional mass scale versus 8.0 g/cm<sup>3</sup> density and an air density of 1.2 mg/cm<sup>3</sup>. The items listed above have been compared to the Standards of the State of Minnesota which are currently in control. These standards are traceable to the National Institute of Standards and Technology (NIST) through NIST Test Number 822/277846-09 and/or 822/263029-00. Calibration processes were monitored and found to be in control. Uncertainty calculations conform to NIST Technical Note 1297. Results apply to items identified in this report only.

Bruce Adams

*Bruce Adams*  
Metrologist

Reviewed by:

Nils Fleming

*Nils Fleming*  
Approved Signatory

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