



Receipt Date: June 9, 2015
Test Date: June 20, 2015
Report Date: June 20, 2015

State Test No.: 334390
Set Serial No.: Fargo weight set #2
Barcode: 201683

Calibration Report

NORTH COUNTRY BUSINESS PRODUCTS
4626 AMBER VALLEY PARKWAY
FARGO, ND 58104

Contact: CARIE LINDEMANN
Phone: 701-277-3231
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/decimals
Manufacturer: Troemner
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.5°C
Pressure: 730.3 mmHg
Relative Humidity: 50. %

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5 lb		-15	-15	F	F	10.
5 lb		-25	-25	F	F	10.
5 lb		-15	-15	F	F	10.
5 lb		-14	-14	F	F	10.
5 lb		-10	-10	F	F	10.
1 lb		2	2	F	F	6.
1 lb		3	3	F	F	6.
1 lb		-1	-1	F	F	6.
1 lb		4	4	F	F	6.
1 lb		0	0	F	F	6.
0.5 lb		2.30	2.30	F	F	6.
0.2 lb		8.35	8.35	F	F	0.07
0.2 lb		10.98	10.98	F	F	0.07
0.1 lb		-1.91	-1.91	F	F	0.07
0.05 lb		2.87	2.87	F	F	0.07
0.02 lb		0.46	0.46	F	F	0.07
0.02 lb		-0.70	-0.70	F	F	0.07
0.01 lb		0.66	0.66	F	F	0.07
0.005 lb		0.21	0.21	F	F	0.07
0.002 lb		0.34	0.34	F	F	0.07
0.002 lb		0.46	0.46	F	F	0.07
0.001 lb		0.40	0.40	F	F	0.07

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/cm³ density and an air density of 1.2 mg/cm³. 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 SI through NIST. 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.

Heidi Jones
Heidi Jones
Laboratory Administrator

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Reviewed by:
Pete Whebbe
Pete Whebbe
Metrologist



Receipt Date: April 10, 2015
Test Date: April 28, 2015
Report Date: April 28, 2015

State Test No.: 334119
Set Serial No.: None
Barcode: 201261

Calibration Report

NORTH COUNTRY BUSINESS PRODUCTS
2127 S. MINNESOTA AVE. #205
SIOUX FALLS, SD 56619
Contact: CAROL BRAUN
Phone: 218-722-3528
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/decimals
Manufacturer: Rice Lake
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.1°C
Pressure: 740.8 mmHg
Relative Humidity: 52. %

Southern Falls

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5 lb		103	103	F	F	10.
5 lb		75	75	F	F	10.
5 lb		64	64	F	F	10.
5 lb		69	69	F	F	10.
5 lb		71	71	F	F	10.
1 lb		23	23	F	F	6.
1 lb		21	21	F	F	6.
1 lb		20	20	F	F	6.
1 lb		25	25	F	F	6.
1 lb		27	27	F	F	6.
0.5 lb		23	23	F	F	6.
0.2 lb		11.72	11.72	F	F	0.07
0.2 lb		2.86	2.86	F	F	0.07
0.1 lb		1.12	1.12	F	F	0.07
0.05 lb		1.57	1.57	F	F	0.07
0.02 lb		0.22	0.22	F	F	0.07
0.02 lb		0.43	0.43	F	F	0.07
0.005 lb		0.15	0.15	F	F	0.07
0.002 lb		0.36	0.36	F	F	0.07
0.002 lb		0.15	0.15	F	F	0.07
0.001 lb		-0.05	-0.05	F	F	0.07

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/cm³ density and an air density of 1.2 mg/cm³. 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 SI through NIST. 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.

Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager



Receipt Date: April 13, 2015
Test Date: April 30, 2015
Report Date: April 30, 2015

State Test No.: 334129
Set Serial No.: None
Barcode: 201687

Calibration Report

NORTH COUNTRY BUSINESS PRODUCTS
541 S. AIRPORT RD.
BISMARCK, ND 58504
Contact: CAROL BRAUN
Phone: 218-722-3528
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/decimals
Manufacturer: Rice Lake
ASTM E617 Type: 1 & II
Equipment ID#: None
Condition: Good
Temperature: 20.7°C
Pressure: 738.9 mmHg
Relative Humidity: 45. %

Bismarck

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5 lb		-11	-11	F	F	10.
5 lb		3	3	F	F	10.
5 lb		20	20	F	F	10.
5 lb		9	9	F	F	10.
5 lb		-3	-3	F	F	10.
1 lb		9	9	F	F	6.
1 lb		2	2	F	F	6.
1 lb		24	24	F	F	6.
1 lb		6	6	F	F	6.
1 lb		20	20	F	F	6.
0.5 lb		13	13	F	F	6.
0.2 lb		6.60	6.60	F	F	0.07
0.2 lb		8.23	8.23	F	F	0.07
0.1 lb		3.24	3.24	F	F	0.07
0.05 lb		1.45	1.45	F	F	0.07
0.02 lb		0.38	0.38	F	F	0.07
0.02 lb		0.45	0.45	F	F	0.07
0.01 lb		0.49	0.49	F	F	0.07
0.005 lb		0.73	0.73	F	F	0.07
0.002 lb		0.49	0.49	F	F	0.07
0.002 lb		0.49	0.49	F	F	0.07
0.001 lb		0.48	0.48	F	F	0.07

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

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Heidi Jones
Heidi Jones
Laboratory Administrator

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager



Receipt Date: May 8, 2015
Test Date: June 4, 2015
Report Date: June 4, 2015

State Test No.: 334240
Set Serial No.: Fargo Weight Set #1
Barcode: 201693

Calibration Report

NORTH COUNTRY BUSINESS PRODUCTS
4626 AMBER VALLEY PARKWAY
FARGO, ND 58104

Contact: CARIE LINDEMANN
Phone: 701-277-3231
PO Number: NONE
SOP: 12
Technician ID: 09

Item(s) Submitted: 30 lb kit w/decimals
Manufacturer: Rice Lake
ASTM E617 Type: I & II
Equipment ID#: None
Condition: Good
Temperature: 20.1°C
Pressure: 737.4 mmHg
Relative Humidity: 53. %

Fargo

Nominal Value	Serial No.	Correction (mg)		NIST HB105-1 Class		Unc. (mg) (k=2)
		As Found	As Left	As Found	As Left	
5 lb		63	63	F	F	10.
5 lb		59	59	F	F	10.
5 lb		64	64	F	F	10.
5 lb		63	63	F	F	10.
5 lb		59	59	F	F	10.
1 lb		3	3	F	F	6.
1 lb		4	4	F	F	6.
1 lb		19	19	F	F	6.
1 lb		14	14	F	F	6.
1 lb		6	6	F	F	6.
0.5 lb		16	16	F	F	6.
0.2 lb		4.66	4.66	F	F	0.07
0.2 lb		4.91	4.91	F	F	0.07
0.1 lb		3.03	3.03	F	F	0.07
0.05 lb		1.33	1.33	F	F	0.07
0.02 lb		0.43	0.43	F	F	0.07
0.02 lb		0.33	0.33	F	F	0.07
0.01 lb		0.13	0.13	F	F	0.07
0.005 lb		0.80	0.80	F	F	0.07
0.002 lb		0.15	0.15	F	F	0.07
0.002 lb		0.13	0.13	F	F	0.07
0.001 lb		0.31	0.31	F	F	0.07

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

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Laboratory Administrator

Reviewed by:
Mark Nicollet
Mark Nicollet
Quality Manager