



APPLICATION FOR REGISTRATION AS A REGISTERED SERVICE COMPANY
 Public Service Commission
 SFN 51277 (2/2014)



TYPE OR PRINT - AN INCOMPLETE OR ILLEGIBLE APPLICATION WILL BE REJECTED

Name of Company <i>FAIRBANKS SCALES</i>	Email Address <i>Denver@fairbanks.com</i>	Application Date <i>2/24/16</i>	
Mailing Address <i>4850 Broadway</i>	City <i>Denver</i>	State <i>CO</i>	Zip Code <i>80216</i>
Telephone Number <i>303-709-5691</i>	Cell Phone Number <i>770-839-1792</i>	Fax Number <i>303-296-0269</i>	

Select below all device types your company will certify:

Scales (include maximum capacity, if applicable)	Liquid (include maximum flow rate, if applicable)
<input checked="" type="checkbox"/> 1. Rail <input checked="" type="checkbox"/> 2. Truck <input checked="" type="checkbox"/> 3. Livestock <input checked="" type="checkbox"/> 4. Hopper: Max. Capacity: _____ <input type="checkbox"/> 5. Belt <input checked="" type="checkbox"/> 6. Over 30 lbs.: Max. Capacity: _____ <input type="checkbox"/> 7. 30 lbs. or less <input type="checkbox"/> 8. Class II (indicate on your calibration report which weight kit is Class II certified) <input type="checkbox"/> 9. Other: Please List:	<input type="checkbox"/> 1. Retail Fuel (less than 20 gal. per minute) <input type="checkbox"/> 2. High Flow Retail Fuel (20 gal. per minute or greater) <input type="checkbox"/> 3. Vehicle Tank: Max. Flow Rate: _____ <input type="checkbox"/> 4. Stationary Bulk (fuel or oil): Max. Flow Rate: _____ <input type="checkbox"/> 5. LPG <input type="checkbox"/> 6. Stationary LPG <input type="checkbox"/> 7. Fertilizer: Max. Flow Rate: _____ <input type="checkbox"/> 8. Chemical <input type="checkbox"/> 9. Anhydrous <input type="checkbox"/> 10. Loading Rack <input type="checkbox"/> 11. Other: Please List:

List below all persons employed by your company as a North Dakota Registered Service Person and the device types they are registered to certify (attach a separate sheet to list additional employees):

Permit No.	Employee	Device Types Registered to Certify (list using device type numbers from above)
<i>e.g. 1001</i>	<i>e.g. John Doe</i>	<i>e.g. Scales - 2, 3, 6, 8; e.g. Liquid - 1, 2, 6</i>
	<i>Mark Conway</i>	<i>1, 2, 3, 4, 7</i>
	<i>Glen Meyer</i>	<i>1, 2, 3, 4, 7</i>

Continued on Page 2



List below all field standards (attach current calibration reports):


Additional Application Items (initial where appropriate):

Standardized Test Report	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in report filed previously
Tested and Approved Sticker	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in sticker filed previously
Photocopy of Crimped Lead Wire Seal	<input type="checkbox"/> Copy enclosed
	<input type="checkbox"/> No change in crimped lead wire seal filed previously

Public Company Listing:

Include my company information on your registered service company list for public contact.
 Yes No

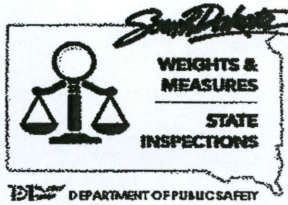
I am MANK CONWAY, and have authority to represent this company.
By signing this application, I declare that I have examined this form and accompanying documentation, and to the best of my knowledge and belief, the facts stated and documentation provided is true, correct, and complete.



Signature

Send Completed Application and Related Documents To:

Public Service Commission
600 E Boulevard Ave Dept 408
Bismarck ND 58505-0480
Telephone: (701) 328-2400
Fax: (701) 328-2410



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

REPORT OF CALIBRATION

LAB TEST NUMBER: MP3417
DATE OF REPORT: 01/19/2016
DATE RECEIVED: 01/18/2016
DATE OF TEST: 01/19/2016



Submitted By: Fairbanks Scale
Contact: Glen Meyer
Mailing Address: 4850 Broadway
City, State, Zip: Denver, CO 80216
Phone: 605-310-3738
S/A Number: 55

Standards Submitted:

- 18 - 1000 lb weights
- 1 - 3000 lb cart
- 10 - 50 lb test weights
- 1 - 21 piece avoirdupois kit
- 1 - 20 piece metric kit

Uncertainty Statement: The combined standard uncertainty includes the standard uncertainty reported for the standard and the standard uncertainty for the measurement process. The combined standard uncertainty is multiplied by a coverage factor k to provide an expanded uncertainty which defines an interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the 1995 ISO/IEC Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application.

Traceability statement:

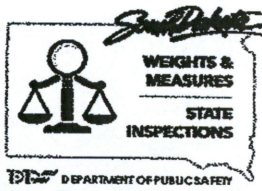
The Standards of the SD Metrology Laboratory used for comparison are traceable to the International System of Units (SI) through the National Institute of Standards and Technology. The laboratory test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

This document does not represent or imply endorsement by NIST Office of Weights and Measures or any agency of the State and/or national governments. The reported test values relate only to the observations made at the time and conditions of the test. This report may not be reproduced, except in full without the written approval of this laboratory. The client must not use this document to claim product endorsement by this laboratory.


Ron Peterson, Metrologist



01/20/16
Date



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield -- E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by:	Fairbanks Scale	Report Number:	MP3417
Mailing Address:	4850 Broadway	Date Received:	01/18/16
City, State, Zip:	Denver, CO 80216	Date tested:	01/19/16
Manufacturer:	Kanawha	Condition of Cart:	GOOD
Serial Number:	020315K/ 15A05-03	Temperature (c):	20.0
Test Method Used:	SOP 33 Calibrations of Weight Carts, Sep 2014	Humidity:	40.0%
Nominal (lb):	3000	Pressure (mm/Hg):	717.2
Tolerance (lb):	1.00		

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory.

NOTE: Fuel level must be at 2.0. Cart was heavy but there was not enough weight in the adjustment cavity to bring cart within tolerance. Please remove weight from cart prior to calibration in 2017.

As Found (lb)	As Left (lb)	Uncertainty-lb. (K=2)
4.04	-0.21	0.22

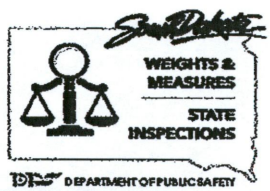
The weight cart was allowed to come to environmental equilibrium in the laboratory prior to calibration. The weight cart was adjusted, as needed and noted above, as close as possible to zero error. All fluid levels must be maintained as close to reference levels as possible during use. Any maintenance, repairs or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, etc. will require calibration of the weight cart prior to subsequent use.

Test equipment used include recently calibrated weights and a Sartorius PR 6246/33 load cell.

The above weight cart was compared with standards of the State of South Dakota, which are traceable the National Institute of Standards and Technology(NIST) Weights and Measures Division. The assigned test number provides documented evidence for measurement traceability.


 Ron Peterson, Metrologist

01/19/2016
 Date of Report



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by: Fairbanks Scale Report Number: MP3417
 Mailing Address: 4850 Broadway Date Received: 01/18/16
 City, State, Zip: Denver, CO 80216 Date tested: 01/19/16
 Artifacts Submitted: 18 - 1000 lb test weights Condition of Weights: FAIR
 Temperature (c): 21.5
 Test Method Used: SOP 8/ MODIFIED SUB, Sep 2014 Humidity: 47.5
 Equipment Used: Russell Balance/ Vaisala PTU301 Pressure (mm/Hg): 719.2

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab 1000 lb and/or 500 lb Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
1000 lb	1	0.012 lb 5.3 g		45 g	6.8 g	2.03
1000 lb	2	-0.027 lb -12.3 g		45 g	6.8 g	2.03
1000 lb	3	-0.047 lb -21.3 g		45 g	6.8 g	2.03
1000 lb	4	0.002 lb 1.0 g		45 g	6.8 g	2.03
1000 lb	5	-0.044 lb -20.1 g		45 g	6.8 g	2.03
1000 lb	6	-0.031 lb -14.2 g		45 g	6.8 g	2.03
1000 lb	7	-0.070 lb -31.7 g	0.000 lb 0.2 g	45 g	6.8 g	2.03
1000 lb	8	-0.031 lb -14.1 g		45 g	6.8 g	2.03
1000 lb	9	-0.014 lb -6.2 g		45 g	6.8 g	2.03
1000 lb	11	-0.053 lb -23.9 g	0.002 lb 0.7 g	45 g	6.8 g	2.03
1000 lb	12	-0.048 lb -21.6 g		45 g	6.8 g	2.03
1000 lb	13	0.004 lb 2.0 g		45 g	6.8 g	2.03
1000 lb	15	-0.019 lb -8.4 g		45 g	6.8 g	2.03
1000 lb	16	-0.028 lb -12.5 g		45 g	6.8 g	2.03
1000 lb	17	-0.034 lb -15.6 g		45 g	6.8 g	2.03
1000 lb	61-4-80	-0.008 lb -3.4 g		45 g	6.8 g	2.03
1000 lb	61-4-85	-0.022 lb -9.8 g		45 g	6.8 g	2.03
1000 lb	61-4-88	0.014 lb 6.4 g		45 g	6.8 g	2.03

Ron Peterson, Metrologist

01/19/2016
 Date of Report



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield - E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by: Fairbanks Scale **Report Number:** MP3417
Mailing Address: 4850 Broadway **Date Received:** 01/18/16
City, State, Zip: Denver, CO 80216 **Date tested:**
Artifacts Submitted: 50 lb test weights **Condition of Weights:** GOOD
Temperature (c): 21.3
Test Method Used: SOP 8/ MODIFIED SUB, Sep 2014 **Humidity:** 44.3%
Equipment Used: Mettler KA-30/ Vaisala PTU301 **Pressure (mm/Hg):** 707.1

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.

Standards Used: SD Lab Working Standards.

The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.

A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Serial Number	Correction As Found	Correction As Left	Tolerance	Uncertainty	K
50 lb	FWS-D-31	-964 mg		2300 mg	284 mg	2.04
50 lb	614-317	2181 mg	81 mg	2300 mg	284 mg	2.04
50 lb	1	976 mg		2300 mg	284 mg	2.04
50 lb	FWS-D-11	-1199 mg		2300 mg	284 mg	2.04
50 lb	FWS-D-24	-369 mg		2300 mg	284 mg	2.04
50 lb	FM-D-76	-1584 mg	-44 mg	2300 mg	284 mg	2.04
50 lb	FWS-D-22	-979 mg		2300 mg	284 mg	2.04
50 lb	614-304	-409 mg		2300 mg	284 mg	2.04
50 lb	CSS-D-21	-1259 mg		2300 mg	284 mg	2.04
50 lb	FWS-D-4	-129 mg		2300 mg	284 mg	2.04

Ron Peterson, Metrologist

01/19/2016
 Date of Report



South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab
 Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
 Office: 118 West Capitol Avenue Phone: 605-773-3697
 Pierre SD 57501

Submitted by:	Fairbanks Scale	Report Number:	MP3417
Mailing Address:	4850 Broadway	Date Received:	01/18/16
City, State, Zip:	Denver, CO 80216	Date tested:	01/19/16
Artifacts Submitted	21 piece avoirdupois kit	Condition of Weights:	GOOD
	SN 020805A	Temperature (c):	20.6
Test Method Used:	SOP 8/ MODIFIED SUB, Sep 2014	Humidity:	47.7
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Pressure (mm/Hg):	717.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
 Standards Used: SD Lab Working Standards.
 The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.
 A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
5 lb	1	77 mg		230 mg	28 mg	2.05
5 lb	2	56 mg		230 mg	28 mg	2.05
5 lb	3	85 mg		230 mg	28 mg	2.05
5 lb	4	27 mg		230 mg	28 mg	2.05
5 lb	5	70 mg		230 mg	28 mg	2.05
1 lb	1	21.6 mg		70 mg	8.5 mg	2.05
1 lb	2	19.6 mg		70 mg	8.5 mg	2.05
1 lb	4	17.6 mg		70 mg	8.5 mg	2.05
1 lb	5	40.6 mg		70 mg	8.5 mg	2.05
0.5 lb		12.1 mg		45 mg	5.5 mg	2.05
0.2 lb		4.4 mg		18 mg	2.2 mg	2.06
0.2 lb	.	4.2 mg		18 mg	2.2 mg	2.06
0.1 lb		3.9 mg		9.1 mg	1.1 mg	2.06
0.05 lb		1.32 mg		4.5 mg	0.55 mg	2.06
0.02 lb		0.51 mg		1.8 mg	0.22 mg	2.06
0.02 lb	.	0.64 mg		1.8 mg	0.22 mg	2.06
0.01 lb		0.66 mg		1.5 mg	0.19 mg	2.06
0.005 lb		0.77 mg		1.2 mg	0.18 mg	2.06
0.002 lb		0.30 mg		0.87 mg	0.11 mg	2.06
0.002 lb	.	0.47 mg		0.87 mg	0.11 mg	2.06
0.001 lb		0.32 mg		0.7 mg	0.10 mg	2.06

Ron Peterson, Metrologist

01/19/2016
 Date of Report



**South Dakota Department of Public Safety
Office of Weights and Measures
Metrology Lab**

Lab: 1500 N Garfield – E. Truck Bypass Phone: 605-773-3170
Office: 118 West Capitol Avenue Phone: 605-773-3697
Pierre SD 57501

Submitted by:	Fairbanks Scale	Report Number:	MP3417
Mailing Address:	4850 Broadway	Date Received:	01/18/16
City, State, Zip:	Denver, CO 80216	Date tested:	01/19/16
Artifacts Submitted	20 piece Metric kit	Condition of Weights:	GOOD
	SN 12AG	Temperature (c):	20.6
Test Method Used:	SOP 8/ MODIFIED SUB, Sep 2014	Humidity:	47.7
Equipment Used:	Mettler AX 205 DR/ Mettler PR503/ Vaisala PTU301	Pressure (mm/Hg):	717.5

Treatment of artifacts prior to testing: Thermal equilibrium was obtained by placing the artifacts in the lab overnight.
Standards Used: SD Lab Working Standards.
The values reported below relate only to those observations made at the time and conditions of the test. This test report, so numbered, may not be reproduced, except in full, without approval of the laboratory. These weights were not screened for magnetism and effects of magnetism is not included in the uncertainties.
A weight with an "As Found" and "As Left" correction was adjusted.

Nominal	Identifier	Correction As Found	Correction As Left	Tolerance Class F	Uncertainty	k
500 g		3 mg	0.7 mg	70 mg	8.6 mg	2.06
200 g		9 mg	0.4 mg	40 mg	5.0 mg	2.06
200 g		17 mg	0.4 mg	40 mg	5.0 mg	2.06
100 g		4.5 mg	0.1 mg	20 mg	2.4 mg	2.06
50 g		3.4 mg	0.0 mg	10 mg	1.2 mg	2.06
20 g		1.6 mg	0.0 mg	4 mg	0.49 mg	2.05
20 g		1.4 mg	0.0 mg	4 mg	0.49 mg	2.05
10 g		0.4 mg	0.0 mg	2 mg	0.25 mg	2.05
5 g		-0.1 mg	0.0 mg	1.5 mg	0.39 mg	2.06
2 g		0.0 mg	0.0 mg	1.1 mg	0.14 mg	2.06
2 g		0.4 mg	0.0 mg	1.1 mg	0.14 mg	2.06
1 g		0.16 mg	0.0 mg	0.9 mg	0.12 mg	2.06
500 mg		0.18 mg	0.0 mg	0.72 mg	0.09 mg	2.06
200 mg		0.10 mg	0.0 mg	0.54 mg	0.08 mg	2.06
200 mg		0.10 mg	0.0 mg	0.54 mg	0.08 mg	2.06
100 mg		0.05 mg	0.0 mg	0.43 mg	0.08 mg	2.06
50 mg		0.20 mg	0.0 mg	0.35 mg	0.06 mg	2.07
20 mg		0.11 mg	0.0 mg	0.26 mg	0.09 mg	2.06
20 mg		0.12 mg	0.0 mg	0.26 mg	0.09 mg	2.06
10 mg		0.06 mg	0.0 mg	0.21 mg	0.07 mg	2.06

Ron Peterson, Metrologist

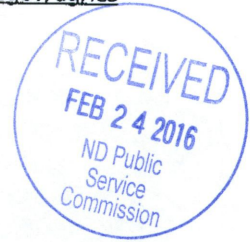
01/19/2016
Date of Report



COLORADO
 Department of Agriculture
 Inspection & Consumer Services Division

Metrology Laboratory
 3125 Wyandot Street
 Denver, CO 80211-3824
 P 303.867.4270 F 303.477.4248
www.colorado.gov/ag/ics

CALIBRATION CERTIFICATE # 15-067



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date February 20, 2015
Calibration Date February 12, 2015
 This certificate expires at 12:01 A.M. on February 12, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Calibration Due See table
Serial Number(s) See table
Manufacturer See table
Description Class F, 1000 lb, 500 lb and 50 lb cast iron weights
Condition Received Good
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 8, Weighing by Modified Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

Kate Smetana, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	18.1	°C	19.8	°C
Barometric Pressure:	628.0	mmHg	634.4	mmHg
Relative Humidity:	44.9	%	47.0	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)
 1 ounce (avoirdupois) (oz) = 0.02834952 kilogram (kg)
 MS Invoice # 1531



CALIBRATION CERTIFICATE # 15-115B




Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date March 13, 2015
Calibration Date March 11 - 12, 2015
Calibration Due This certificate expires at 12:01 A.M. on March 12, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Serial Number(s) M-0096
Manufacturer Rice Lake
Description Class F, 31.11 x 0.001 lb weight set
Condition Received Good
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 7, Weighing by Single Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration


 Diane Wise, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	20.9	°C	21.3	°C
Barometric Pressure:	629.1	mmHg	632.4	mmHg
Relative Humidity:	42.9	%	48.7	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)

MS Invoice # 1560



COLORADO

Department of Agriculture

Inspection & Consumer Services Division

Metrology Laboratory

3125 Wyandot Street

Denver, CO 80211-3824

P 303.867.4270 F 303.477.4248

www.colorado.gov/ag/ics

CALIBRATION CERTIFICATE # 15-115A



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date March 13, 2015
Calibration Date March 11 - 12, 2015
 This certificate expires at 12:01 A.M. on March 12, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Calibration Due
Serial Number(s) See table on page 2
Manufacturer See table on page 2
Description 3000 lb gasoline powered weight cart; Class F, 1000 lb and 50 lb cast iron weights
Condition Received The weights were cleaned and painted.
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 8, Weighing by Modified Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

Diane Wise, Metrologist
 Authorized Signatory

Kate Smetana, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	18.5	°C	20.3	°C
Barometric Pressure:	629.9	mmHg	632.4	mmHg
Relative Humidity:	42.5	%	48.7	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)

MS Invoice # 1560



CALIBRATION CERTIFICATE # 15-149A



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date April 15, 2015
Calibration Date April 9 to April 10, 2015
Calibration Due This certificate expires at 12:01 A.M. on April 10, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Serial Number(s) See table on page 2
Manufacturer See table on page 2
Description 3000 lb gasoline powered weight cart
Condition Received Class F, 2500 lb, 1000 lb and 50 lb cast iron weights
Procedure Used Cleaned and painted
 National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 8, Weighing by Modified Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

Diane Wise, Metrologist
 Authorized Signatory

Kate Smetana, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	18.5	°C	20.2	°C
Barometric Pressure:	628.4	mmHg	629.6	mmHg
Relative Humidity:	44.0	%	48.1	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)

MS Invoice # 1602



CALIBRATION CERTIFICATE # 15-149B



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date April 15, 2015
Calibration Date April 8, 2015
Calibration Due This certificate expires at 12:01 A.M. on April 10, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Serial Number(s) 3K0005A
Manufacturer unmarked
Description Class F, 8 oz stainless steel fuel compensation weights
Condition Received Good
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 7, Weighing by Single Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

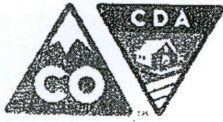
Diane Wise, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	20.0	°C	20.1	°C
Barometric Pressure:	619.6	mmHg	619.7	mmHg
Relative Humidity:	41.2	%	41.2	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)
 1 ounce (avoirdupois) (oz) = 0.02834952 kilogram (kg)

MS Invoice # 1602



CALIBRATION CERTIFICATE # 15-149C



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date April 15, 2015
Calibration Date April 8, 2015
Calibration Due This certificate expires at 12:01 A.M. on April 10, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Serial Number(s) FM-K-22
Manufacturer Rice Lake
Description Class F, 31 lb x 1/32 oz Weight Set
Condition Received Owner removed 0.5 lb to 0.001 lb weights and added 8 oz to 1/32 oz weights
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 7, Weighing by Single Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

Diane Wise, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	19.9	°C	20.6	°C
Barometric Pressure:	617.0	mmHg	620.2	mmHg
Relative Humidity:	41.2	%	46.4	%

Conversion Factors from NIST Special Publication 811:2008, *Guide for the Use of the International System of Units (SI)*
 1 pound (avoirdupois) (lb) = 0.45359237 kilogram (kg)
 1 ounce (avoirdupois) (oz) = 0.02834952 kilogram (kg)

MS Invoice # 1602



CALIBRATION CERTIFICATE # 15-149D



Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date April 15, 2015
Calibration Date April 8, 2015
Calibration Due This certificate expires at 12:01 A.M. on April 10, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Serial Number(s) FM-K-23
Manufacturer Rice Lake
Description Class F, 5 kg to 2 kg weight set
Condition Received Good
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 7, Weighing by Single Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration

Diane Wise
 Diane Wise, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	20.3	°C	20.9	°C
Barometric Pressure:	620.7	mmHg	620.9	mmHg
Relative Humidity:	41.0	%	44.5	%

MS Invoice # 1602



CALIBRATION CERTIFICATE # 15-149E



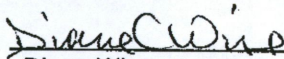
Customer Name Fairbanks Scales
Customer Address 4850 Broadway, Denver CO 80216-6344
Submitted By Mark Conway
Certificate Date April 15, 2015
Calibration Date April 8, 2015
 This certificate expires at 12:01 A.M. on April 10, 2016, per State of Colorado Revised Statute Title 35 Article 14 Section 123:2009.
Calibration Due
Serial Number(s) 20602
Manufacturer Rice Lake
Description Class F, 1110 g x 1 g weight set
Condition Received Good
Procedure Used National Institute of Standards and Technology (NIST) NISTIR 6969:2012 SOP 7, Weighing by Single Substitution

Traceability This certificate has been issued under the authority of the Commissioner of the Colorado Department of Agriculture, Inspection and Consumer Services Division, pursuant to the State of Colorado Revised Statute Title 35 Article 14:2009. Standards used for comparison are traceable to the International System of Units (SI) through standards at NIST, by way of the certificate number above.

Uncertainty The combined standard uncertainty of the measurements is multiplied by the coverage factor *k* listed in the table on page 2 (based on available degrees of freedom) to give an expanded uncertainty which defines an interval having a level of confidence of 95.45 %. The expanded uncertainty presented in this report was calculated according to the BIPM JCGM 100:2008 *Evaluation of measurement data – Guide to the expression of uncertainty in measurement* (GUM 1995 with 2010 minor corrections). Uncertainty components evaluated may include, but are not limited to, standard deviation of the process, mass standard uncertainties, the uncertainty for magnitude of the air buoyancy correction and/or for any uncorrected errors associated with air buoyancy corrections, uncertainties associated with densities of the standards and test items, and a component to account for any observed deviations from mass standard values that are less than surveillance limits.

Magnetism None of the weights used for this calibration have been tested for magnetic properties, and no magnetism components are included in the uncertainty budget.

Metrologist(s) performing calibration


 Diane Wise, Metrologist
 Authorized Signatory

Environmental Conditions at Time of Calibration

	minimum	units	maximum	units
Temperature:	19.8	°C	20.5	°C
Barometric Pressure:	616.7	mmHg	617.4	mmHg
Relative Humidity:	42.4	%	48.0	%

MS Invoice # 1602



Nominal Value		Conventional Mass		Tolerance	Uncertainty	
g	ID	mg		± mg	± mg	k
500		29.1		70	2.5	2.02
200		12.1		40	1.3	2.02
200	•	8.3		40	1.3	2.02
100		6.43		20	0.48	2.02
50		5.18		10	0.26	2.02
20		0.52		4	0.15	2.02
20	•	1.22		4	0.15	2.02
10		0.645		2	0.057	2.01
5		0.141		1.5	0.040	2.01
2		0.487		1.1	0.033	2.01
2	•	0.177		1.1	0.033	2.01
1		0.388		0.90	0.024	2.01

Supplemental Information:

All items were left "as found", no adjustments were made. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

005843 to 005845

END OF DOCUMENT



Nominal Value		Conventional Mass				
g	ID	Correction	Tolerance	Uncertainty		
		mg	± mg	± mg	k	
5 000		6	500	23	2.02	
5 000	•	6	500	23	2.02	
2 000		2.2	200	9.4	2.03	
2 000	•	5.4	200	9.4	2.03	

Supplemental Information:

All items were left "as found", no adjustments were made. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

005843 to 005845

END OF DOCUMENT



Nominal Value (lb)	ID	Conventional Mass		Tolerance ± mg	Uncertainty ± mg	k
		Correction mg				
10		113		450	21	2.02
10	•	109		450	21	2.02
5		52		230	11	2.03
2		26.6		91	4.3	2.02
2	•	26.2		91	4.3	2.02
1		15.4		70	2.3	2.02
(oz)						
8		14.0		45	1.4	2.02
4		9.39		23	0.56	2.02
2		4.27		11	0.29	2.02
1		1.76		5.4	0.18	2.02
1/2		1.21		2.8	0.14	2.02
1/4		0.725		1.7	0.046	2.01
1/8		0.556		1.3	0.036	2.01
1/16		0.485		1.1	0.033	2.01
1/32		0.224		0.87	0.024	2.01
1/32	•	0.444		0.87	0.024	2.01

Supplemental Information:

All items were left "as found", no adjustments were made. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

09514

END OF DOCUMENT



Nominal Value		Conventional Mass			
(oz)	ID	Correction mg	Tolerance \pm mg	Uncertainty \pm mg	<i>k</i>
8	1	13.8	45	1.4	2.02
8	2	9.6	45	1.4	2.02
8	3	15.4	45	1.4	2.02
8	4	8.6	45	1.4	2.02
8	5	17.4	45	1.4	2.02
8	6	19.2	45	1.4	2.02
8	7	13.6	45	1.4	2.02
8	8	13.0	45	1.4	2.02
8	9	13.4	45	1.4	2.02
8	10	9.2	45	1.4	2.02
8	11	6.0	45	1.4	2.02
8	12	17.0	45	1.4	2.02

Supplemental Information:

All items were left "as found", no adjustments were made. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

09514

END OF DOCUMENT

CO Dept. of Agriculture, Metrology Laboratory
 Calibration Certificate # 15-149A
 Fairbanks Scales
 Certificate Date: April 15, 2015



Serial Number	Manufacturer	Nominal Value (lb)	Conventional Mass Correction		Tolerance ± (lb)	Uncertainty ± (lb)	k
			As Found (lb)	As Left (lb)			
3K0005	Summit	3000	1.77	0.02	1.00	0.19	2.28
			g	g	± g	± g	
FBS-09	unmarked	2500		21	113	37	2.28
FBS-10	unmarked	2500		32	113	37	2.28
FW-04	unmarked	2500	109	0	113	37	2.28
FWSB 2	unmarked	2500		- 2	113	37	2.28
1	Fairbanks Morse	1000	59.0	1.8	45	7.0	2.06
3	Fairbanks Morse	1000	132.6	- 3.6	45	7.0	2.06
10	Fairbanks Morse	1000	40.6	1.0	45	7.0	2.06
008	Fairbanks Morse	1000		1.9	45	7.0	2.06
1	Fairbanks	50		1.53	2.3	0.30	2.06
6	Fairbanks	50	2.48	0.19	2.3	0.30	2.06
CSC-D-30	Rice Lake	50		0.54	2.3	0.30	2.06
CSS-D-28	Rice Lake	50		1.96	2.3	0.30	2.06
D-0135	Webb	50	3.40	- 0.01	2.3	0.30	2.06
FM-D-204	Fairbanks	50	2.38	- 0.64	2.3	0.30	2.06
FM-D-245	Fairbanks	50		1.34	2.3	0.30	2.06
FM-D-257	Fairbanks	50	2.67	0.33	2.3	0.30	2.06
FS28	Fairbanks	50		1.84	2.3	0.30	2.06
FS-D-1	Rice Lake	50	2.13	0.36	2.3	0.30	2.06
FS-D-14	Rice Lake	50		1.91	2.3	0.30	2.06
FS-D-16	Rice Lake	50	2.88	0.21	2.3	0.30	2.06
FW-044	Fairbanks	50		1.72	2.3	0.30	2.06
FW-D-81	Rice Lake	50		1.41	2.3	0.30	2.06
FWS-D-17	Fairbanks	50		1.82	2.3	0.30	2.06
FWS-D-25	Rice Lake	50	2.96	- 0.14	2.3	0.30	2.06
FWS-D-34	Rice Lake	50		1.94	2.3	0.30	2.06
FWS-D-41	Fairbanks	50		1.60	2.3	0.30	2.06
MPC-D-010	Fairbanks	50		1.65	2.3	0.30	2.06
MPC-D-33	Rice Lake	50		1.74	2.3	0.30	2.06

Supplemental Information:

All items were left "as found", except as listed in the "As Found" column. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

The weight cart was adjusted to meet the tolerances stated in NIST Handbook 105-8:2003, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weight Carts)*, and is approved for use in the State of Colorado.

Standards used for testing

CO-V-1, B-001, CO-C-1, CO-DSTD-1

END OF DOCUMENT



Serial Number	Manufacturer	Nominal Value (lb)	Conventional Mass Correction		Tolerance ± (lb)	Uncertainty ± (lb)	k
			As Found (lb)	As Left (lb)			
061798	Kanawha	3000	- 0.58	0.02	1.00	0.19	2.28
			g	g	± g	± g	
1	Fairbanks	1000		6.5	45	7.0	2.06
2	Fairbanks	1000		- 10.6	45	7.0	2.06
3	Fairbanks	1000		- 15.6	45	7.0	2.06
4	Fairbanks	1000		2.8	45	7.0	2.06
6	Fairbanks	1000		- 14.2	45	7.0	2.06
7	Fairbanks	1000		- 30.3	45	7.0	2.06
8	Fairbanks	1000		- 11.7	45	7.0	2.06
9	Fairbanks	1000		- 5.1	45	7.0	2.06
11	Fairbanks	1000		- 22.6	45	7.0	2.06
12	Fairbanks	1000		- 23.8	45	7.0	2.06
13	Fairbanks	1000		3.1	45	7.0	2.06
15	Fairbanks	1000		- 6.3	45	7.0	2.06
16	Fairbanks	1000		- 10.7	45	7.0	2.06
17	Fairbanks	1000		- 14.3	45	7.0	2.06
51480	Fairbanks	1000		- 7.8	45	7.0	2.06
10	Fairbanks	50	3.90	0.04	2.3	0.30	2.06
614 309	Fairbanks	50		0.52	2.3	0.30	2.06
9 D-0132	Webb	50		1.48	2.3	0.30	2.06
CSS-D-26	unmarked	50		- 0.59	2.3	0.30	2.06
FM-D-260	Fairbanks	50	2.57	0.30	2.3	0.30	2.06
FWS-D-16	Fairbanks	50		0.06	2.3	0.30	2.06

Supplemental Information:

All items were left "as found", except as listed in the "As Found" column. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

- CO-V-1
- B-001
- CO-C-1
- CO-DSTD-1

END OF DOCUMENT



Nominal Value (lb)		Conventional Mass Correction mg		Tolerance \pm mg	Uncertainty \pm mg	<i>k</i>
	ID					
10	1	130		450	21	2.02
10	2	173		450	21	2.02
5	B	104		230	11	2.03
2	1	39.8		91	4.3	2.02
2	2	42.8		91	4.3	2.02
1		18.6		70	2.3	2.02
0.5		14.0		45	1.4	2.02
0.2		7.78		18	0.44	2.02
0.2	•	7.96		18	0.44	2.02
0.1		1.92		9.1	0.24	2.02
0.05		1.54		4.5	0.16	2.02
0.02		0.589		1.8	0.053	2.01
0.02	•	0.359		1.8	0.053	2.01
0.01		0.011		1.5	0.039	2.01
0.005		- 0.612		1.2	0.033	2.01
0.002		0.178		0.87	0.024	2.01
0.002	•	0.338		0.87	0.024	2.01
0.001		- 0.076		0.70	0.024	2.01

Supplemental Information:

All items were left "as found", except as listed in the "As Found" column. The item(s) were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado.

Standards used for testing

09514
 34775

END OF DOCUMENT

CO Dept. of Agriculture, Metrology Laboratory

Calibration Certificate # 15-067

Fairbanks Scales

Certificate Date: February 20, 2015



Serial Number	Manufacturer	Nominal Value (lb)	Conventional Mass Correction		Tolerance ± g	Uncertainty ± g	k
			As Found g	As Left g			
614 80	Fairbanks Morse	1000		- 6.6	45	7.0	2.06
614 88	Fairbanks Morse	1000		4.3	45	7.0	2.06
614 89	Fairbanks Morse	1000		4.4	45	7.0	2.06
FM-B-039 14	Fairbanks Morse	1000		- 6.5	45	7.0	2.06
FM-B-064 5	Fairbanks Morse	1000		- 23.5	45	7.0	2.06
FW-B10	Fairbanks Morse	500	- 33.8	- 1.0	23	5.36	2.12
FW-B12	Fairbanks Morse	500	- 51.1	CONDEMNED			
FW-B17	Fairbanks Morse	500	- 30.2	- 2.1	23	5.36	2.12
FW-B18	Fairbanks Morse	500		- 2.2	23	5.36	2.12
FW-B19	Fairbanks Morse	500	- 37.8	0.9	23	5.36	2.12
FW-B3	Fairbanks Morse	500	- 24.7	CONDEMNED			
FW-B6	Fairbanks Morse	500	- 20.6	CONDEMNED			
3	Fairbanks Morse	50		- 1.17	2.3	0.30	2.06
35091	HRS CO	50	- 1.90	- 0.04	2.3	0.30	2.06
614 300	Fairbanks Morse	50	- 2.75	- 0.08	2.3	0.30	2.06
614 301	Fairbanks Morse	50	- 2.79	0.18	2.3	0.30	2.06
CSS-D-27	Rice Lake	50	- 2.11	- 0.30	2.3	0.30	2.06
F-108	Fairbanks Morse	50	- 1.96	CONDEMNED			
FB3	Fairbanks Morse	50		0.75	2.3	0.30	2.06
FM-D-192	Fairbanks Morse	50		- 1.26	2.3	0.30	2.06
FM-D-260	Fairbanks Morse	50	- 2.26	0.25	2.3	0.30	2.06
FWS-D-36	Fairbanks Morse	50		- 1.26	2.3	0.30	2.06
FWS-D-43	Rice Lake	50		- 0.83	2.3	0.30	2.06

Supplemental Information:

All items were left "as found", except as listed in the "As Found" column. The items except those marked "CONDEMNED" were found at time of test, or adjusted, to meet the specifications and tolerances stated in NIST Handbook 105-1:1990, *Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (Field Standard Weights (NIST Class F))*, and are approved for use in the State of Colorado. Those marked "CONDEMNED" were found to be out of tolerance and not adjustable. They are not approved for commercial use in the State of Colorado

END OF DOCUMENT