



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Secretary Randy Romanski
Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2024

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

State Test No.: W23-210
Item(s) Submitted: Weight Cart
Manufacturer: B-Tek
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-8 (2019)
Kit Serial #:
Balance ID#: 11
Procedure Used: NISTIR 6969 (2019), SOP 33
Temperature: 20.7 °C
Relative Humidity: 52.9 %
Pressure: 736.7 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (lb)		NIST 105-8 Tolerance:		Uncertainty (lb)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
4000	lb	15399B	-0.27	-0.27	Pass	Pass	0.17	2.01

The following standard(s) were used: 2500 lb: 18987-10, 1000 lb: 392, 500 lb: 90499
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Paul Masterson
Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection

Secretary Randy Romanski

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 10
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 21.1 °C
Relative Humidity: 53.8 %
Pressure: 736.6 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
1000	lb	1	13,900	13,900	Pass	Pass	5,900	2.00
1000	lb	4	-52,500	13,500	Fail	Pass	5,900	2.00
1000	lb	12	-46,100	7,600	Fail	Pass	5,900	2.00
1000	lb	6	-64,600	28,600	Fail	Pass	5,900	2.00
1000	lb	9	-42,400	14,200	Fail	Pass	5,900	2.00
1000	lb	8	-34,100	-34,100	Pass	Pass	5,900	2.00
1000	lb	3	-3,600	-3,600	Pass	Pass	5,900	2.00
1000	lb	2	-26,600	-26,600	Pass	Pass	5,900	2.00
1000	lb	11	-24,700	-24,700	Pass	Pass	5,900	2.00
1000	lb	10	-6,300	-6,300	Pass	Pass	5,900	2.00
1000	lb	13	-54,600	17,100	Fail	Pass	5,900	2.00
1000	lb	15	-25,200	-25,200	Pass	Pass	5,900	2.00
1000	lb	5	-24,600	-24,600	Pass	Pass	5,900	2.00
1000	lb	14	-58,100	-14,400	Fail	Pass	5,900	2.00
1000	lb	7	-32,200	-32,200	Pass	Pass	5,900	2.00

The following standard(s) were used: 1000 lb: 392

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Justin Lien

Justin Lien, Laboratory Director

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Good, Acceptable for Calibration
Tolerance Class: ASTM E617-18, Class 6

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 51.8 %
Pressure: 736.7 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		ASTM E617-18, Class 6		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
10	lb	510	1,051	-24	Fail	Pass	53	2.01
10	lb	110	2,322	13	Fail	Pass	53	2.01

The following standard(s) were used: 10 lb: W10

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Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 23, 2023
Date Due: June 19, 2024

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 8
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.1 °C
Relative Humidity: 53.5 %
Pressure: 741.0 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
50	lb	104	570	570	Pass	Pass	270	2.01
50	lb	105	1,110	1,110	Pass	Pass	270	2.01
50	lb	107	1,400	1,400	Pass	Pass	270	2.01
50	lb	103	-190	-190	Pass	Pass	270	2.01
50	lb	101	870	870	Pass	Pass	270	2.01
50	lb	109	500	500	Pass	Pass	270	2.01
50	lb	100	2,060	80	Fail	Pass	270	2.01
50	lb	106	730	730	Pass	Pass	270	2.01
50	lb	108	2,330	40	Fail	Pass	270	2.01
50	lb	102	2,170	40	Fail	Pass	270	2.01

The following standard(s) were used: 50 lb: W50LB

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Date Received: June 19, 2023
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Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 8
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.1 °C
Relative Humidity: 53.5 %
Pressure: 741.0 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
50	lb	606	800	800	Pass	Pass	270	2.01
50	lb	609	70	70	Pass	Pass	270	2.01
50	lb	602	-310	-310	Pass	Pass	270	2.01
50	lb	608	1,010	1,010	Pass	Pass	270	2.01
50	lb	605	910	910	Pass	Pass	270	2.01
50	lb	600	1,510	1,510	Pass	Pass	270	2.01
50	lb	601	240	240	Pass	Pass	270	2.01
50	lb	604	-230	-230	Pass	Pass	270	2.01
50	lb	607	1,490	1,490	Pass	Pass	270	2.01
50	lb	603	1,740	1,740	Pass	Pass	270	2.01
50	lb	213	30	30	Pass	Pass	270	2.01
50	lb	216	3,760	120	Fail	Pass	270	2.01
50	lb	201	1,060	1,060	Pass	Pass	270	2.01
50	lb	206	1,200	1,200	Pass	Pass	270	2.01
50	lb	305	270	270	Pass	Pass	270	2.01
50	lb	219	-300	-300	Pass	Pass	270	2.01
50	lb	217	760	760	Pass	Pass	270	2.01
50	lb	204	1,010	1,010	Pass	Pass	270	2.01
50	lb	202	110	110	Pass	Pass	270	2.01
50	lb	302	-2,590	70	Fail	Pass	270	2.01
50	lb	211	1,780	1,780	Pass	Pass	270	2.01
50	lb	210	1,680	1,680	Pass	Pass	270	2.01
50	lb	209	390	390	Pass	Pass	270	2.01
50	lb	200	1,610	1,610	Pass	Pass	270	2.01
50	lb	304	-3,360	80	Fail	Pass	270	2.01
50	lb	215	2,430	60	Fail	Pass	270	2.01
50	lb	212	900	900	Pass	Pass	270	2.01
50	lb	208	450	450	Pass	Pass	270	2.01
50	lb	307	-2,590	80	Fail	Pass	270	2.01

s Weight may have been in tolerance, but was adjusted because the seal was bad or missing, and needed to be replaced.

The following standard(s) were used: 50 lb: W50LB, 25 lb: W25LB

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Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director



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Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 8
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.1 °C
Relative Humidity: 53.5 %
Pressure: 741.0 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
50	lb	207	-1,320	-1,320	Pass	Pass	270	2.01
50	lb	508	-1,640	-1,640	Pass	Pass	270	2.01
50	lb	214	2,680	100	Fail	Pass	270	2.01
50	lb	203	700	700	Pass	Pass	270	2.01
50	lb	308	1,150	1,150	Pass	Pass	270	2.01
50	lb	218	1,860	1,860	Pass	Pass	270	2.01
50	lb	205	-60	-60	Pass	Pass	270	2.01
50	lb	301	-710	-710	Pass	Pass	270	2.01
50	lb	504	-2,170	60	Fail	Pass	270	2.01
50	lb	503	-2,090	70	Fail	Pass	270	2.01
50	lb	300	2,090	80	Fail	Pass	270	2.01
50	lb	309	-400	-400	Pass	Pass	270	2.01
50	lb	303	840	840	Pass	Pass	270	2.01
50	lb	306	-1,690	-1,690	Pass	Pass	270	2.01
50	lb	503	510	510	Pass	Pass	270	2.01
50	lb	500	-2,180	70	Fail	Pass	270	2.01
50	lb	507	-260	-260	Pass	Pass	270	2.01
50	lb	502	-360	-360	Pass	Pass	270	2.01
50	lb	410	1,200	1,200	Pass	Pass	270	2.01
50	lb	401	720	720	Pass	Pass	270	2.01
50	lb	416	1,050	1,050	Pass	Pass	270	2.01
50	lb	412	-700	-700	Pass	Pass	270	2.01
50	lb	312	-680	-680	Pass	Pass	270	2.01
50	lb	310	-220	-220	Pass	Pass	270	2.01
50	lb	403	1,440	1,440	Pass	Pass	270	2.01
50	lb	419	280	280	Pass	Pass	270	2.01
50	lb	402	-1,330	-1,330	Pass	Pass	270	2.01
50	lb	415	-930	-930	Pass	Pass	270	2.01
50	lb	413	760	760	Pass	Pass	270	2.01

* Weight may have been in tolerance, but was adjusted because the seal was bad or missing, and needed to be replaced.

The following standard(s) were used: 50 lb; W50LB, 25 lb; W25LB

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Paul Masterson
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Justin Lien
Justin Lien, Laboratory Director

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Cast Weight
Manufacturer: Various
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Balance ID#: 8
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.1 °C
Relative Humidity: 53.5 %
Pressure: 741.0 mmHg

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
50	lb	417	230	230	Pass	Pass	270	2.01
s 50	lb	414	50	100	Pass	Pass	270	2.01
50	lb	411	1,570	1,570	Pass	Pass	270	2.01
50	lb	313	940	940	Pass	Pass	270	2.01
50	lb	314	1,690	1,690	Pass	Pass	270	2.01
50	lb	418	30	30	Pass	Pass	270	2.01
50	lb	408	-220	-220	Pass	Pass	270	2.01
50	lb	319	-1,680	-1,680	Pass	Pass	270	2.01
50	lb	311	950	950	Pass	Pass	270	2.01
50	lb	501	-3,220	70	Fail	Pass	270	2.01
50	lb	509	-4,960	60	Fail	Pass	270	2.01
50	lb	506	-2,160	60	Fail	Pass	270	2.01
50	lb	316	1,440	1,440	Pass	Pass	270	2.01
50	lb	315	770	770	Pass	Pass	270	2.01
50	lb	400	-860	-860	Pass	Pass	270	2.01
50	lb	407	-920	-920	Pass	Pass	270	2.01
50	lb	406	10	10	Pass	Pass	270	2.01
50	lb	317	140	140	Pass	Pass	270	2.01
50	lb	318	-5,090	-40	Fail	Pass	270	2.01
50	lb	405	-1,440	-1,440	Pass	Pass	270	2.01
50	lb	409	830	830	Pass	Pass	270	2.01
50	lb	404	-230	-230	Pass	Pass	270	2.01
50	lb	OJAX	190	-20	Pass	Pass	270	2.01
25	lb	225	350	350	Pass	Pass	140	2.01
25	lb	425	420	420	Pass	Pass	140	2.01
25	lb	525	720	720	Pass	Pass	140	2.01
25	lb	625	-3,970	50	Fail	Pass	140	2.01
25	lb	626	-1,000	60	Fail	Pass	140	2.01
25	lb	627	-160	-160	Pass	Pass	140	2.01

a. Weight may have been in tolerance, but was adjusted because the seal was bad or missing, and needed to be replaced.

The following standard(s) were used: 50 lb: W50LB, 25 lb: W25LB

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Paul Masterson
Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director



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Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-1
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 50.0 %
Pressure: 741.0 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5000	g		10	10	Pass	Pass	59	2.01
5000	g	*	44	44	Pass	Pass	59	2.01
5000	g	**	37	37	Pass	Pass	59	2.01

The following standard(s) were used: Metric Weight Set WS-2

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Justin Lien, Laboratory Director

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Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK2
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.6 %
Pressure: 736.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5000	g	*	80	80	Pass	Pass	59	2.01
5000	g	**	68	68	Pass	Pass	59	2.01
5000	g	***	119	119	Pass	Pass	59	2.01

The following standard(s) were used: Metric Weight Set WS-2

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Date Received: June 19, 2023
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Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-3
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.6 °C
Relative Humidity: 53.5 %
Pressure: 736.3 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5000	g		2	2	Pass	Pass	59	2.01
5000	g	*	-25	-25	Pass	Pass	59	2.01
5000	g	**	-22	-22	Pass	Pass	59	2.01

The following standard(s) were used: Metric Weight Set WS-2

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Date Due: June 19, 2025

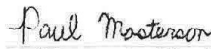
State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-4
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 49.9 %
Pressure: 736.3 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5000	g	*	113	113	Pass	Pass	59	2.01
5000	g	**	71	71	Pass	Pass	59	2.01
5000	g	***	175	175	Pass	Pass	59	2.01

The following standard(s) were used: Metric Weight Set WS-2

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Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Troemner
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-5
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.4 %
Pressure: 736.6 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb	1	-2	-2	Pass	Pass	27	2.01
5	lb	2	-17	-17	Pass	Pass	27	2.01
5	lb	3	0	0	Pass	Pass	27	2.01
5	lb	4	50	50	Pass	Pass	27	2.01
5	lb	5	28	28	Pass	Pass	27	2.01
5	lb	6	42	42	Pass	Pass	27	2.01

The following standard(s) were used: 5 lb: W5

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Troemner
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-6
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.4 %
Pressure: 736.6 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb	1	58	58	Pass	Pass	27	2.01
5	lb	2	6	6	Pass	Pass	27	2.01
5	lb	3	0	0	Pass	Pass	27	2.01
5	lb	4	-1	-1	Pass	Pass	27	2.01
5	lb	5	8	8	Pass	Pass	27	2.01
5	lb	6	-4	-4	Pass	Pass	27	2.01

The following standard(s) were used: 5 lb: W5

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Troemner
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: MSM WS-1
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.4 %
Pressure: 736.6 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb	1	49	49	Pass	Pass	27	2.01
5	lb	2	29	29	Pass	Pass	27	2.01
5	lb	3	12	12	Pass	Pass	27	2.01
5	lb	4	9	9	Pass	Pass	27	2.01
5	lb	5	26	26	Pass	Pass	27	2.01
5	lb	6	14	14	Pass	Pass	27	2.01

The following standard(s) were used: 5 lb: W5

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-7
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 50.8 %
Pressure: 740.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
10	lb		41	41	Pass	Pass	53	2.01
10	lb	*	34	34	Pass	Pass	53	2.01
5	lb		40	40	Pass	Pass	27	2.01
2	lb		27	27	Pass	Pass	11	2.01
2	lb	*	13	13	Pass	Pass	11	2.01
1	lb		15.3	15.3	Pass	Pass	8.3	2.01
8	oz		7.2	7.2	Pass	Pass	5.4	2.01
4	oz		4.8	4.8	Pass	Pass	2.8	2.03
2	oz		0.5	0.5	Pass	Pass	1.3	2.03
1	oz		-0.12	-0.12	Pass	Pass	0.65	2.03
1/2	oz		0.72	0.72	Pass	Pass	0.34	2.03
1/4	oz		0.19	0.19	Pass	Pass	0.21	2.03
1/8	oz		0.13	0.13	Pass	Pass	0.16	2.03
1/16	oz		0.09	0.09	Pass	Pass	0.13	2.03
1/32	oz		0.3	0.3	Pass	Pass	0.11	2.04
1/32	oz	*	0.33	0.33	Pass	Pass	0.11	2.04

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: Rk8
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.5 %
Pressure: 736.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
1000	g	*	-2	-2	Pass	Pass	12	2.01
1000	g	**	2	2	Pass	Pass	12	2.01
400	g		3.1	3.1	Pass	Pass	9.8	2.50
400	g	*	-4.9	-4.9	Pass	Pass	9.8	2.50
400	g	**	-5.9	-5.9	Pass	Pass	9.8	2.50
400	g	***	4.1	4.1	Pass	Pass	9.8	2.50
100	g		0.3	0.3	Pass	Pass	2.4	2.03
100	g	*	0.7	0.7	Pass	Pass	2.4	2.03
100	g	**	-0.5	-0.5	Pass	Pass	2.4	2.03
100	g	***	1.1	1.1	Pass	Pass	2.4	2.03
100	g	8*	-8.8	-8.8	Pass	Pass	2.4	2.03
50	g		2.8	2.8	Pass	Pass	1.2	2.03
20	g		-0.31	-0.31	Pass	Pass	0.48	2.03
20	g	*	-0.3	-0.3	Pass	Pass	0.48	2.03
10	g		0.45	0.45	Pass	Pass	0.25	2.05
5	g		0.33	0.33	Pass	Pass	0.18	2.03
2	g		0.47	0.47	Pass	Pass	0.14	2.03
2	g	*	0.41	0.41	Pass	Pass	0.14	2.03
1	g		0.25	0.25	Pass	Pass	0.11	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-9
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.7 °C
Relative Humidity: 53.6 %
Pressure: 740.5 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
10	lb		11	11	Pass	Pass	53	2.01
5	lb		2	2	Pass	Pass	27	2.01
2	lb		-2	-2	Pass	Pass	11	2.01
2	lb	*	6	6	Pass	Pass	11	2.01
1	lb		26.3	26.3	Pass	Pass	8.3	2.01
8	oz		9.2	9.2	Pass	Pass	5.4	2.01
0.2	lb		2.7	2.7	Pass	Pass	2.1	2.03
0.2	lb	*	3.6	3.6	Pass	Pass	2.1	2.03
0.1	lb		3.9	3.9	Pass	Pass	1.1	2.04
0.05	lb		-1.66	-1.66	Pass	Pass	0.54	2.03
0.02	lb		0.81	0.81	Pass	Pass	0.22	2.03
0.01	lb		0.78	0.78	Pass	Pass	0.18	2.03
0.005	lb		0.34	0.34	Pass	Pass	0.15	2.03
0.002	lb		0.22	0.22	Pass	Pass	0.11	2.03
0.002	lb	*	0.14	0.14	Pass	Pass	0.11	2.03
0.001	lb		0.057	0.057	Pass	Pass	0.092	2.03

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK10
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 49.3 %
Pressure: 741.1 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb		13	13	Pass	Pass	27	2.01
2	lb	*	9	9	Pass	Pass	11	2.01
2	lb	**	24	24	Pass	Pass	11	2.01
1	lb		11.3	11.3	Pass	Pass	8.3	2.01
0.5	lb		11.2	11.2	Pass	Pass	5.4	2.01
0.2	lb		9.3	9.3	Pass	Pass	2.1	2.03
0.2	lb	*	7	7	Pass	Pass	2.1	2.03
0.1	lb		2.3	2.3	Pass	Pass	1.1	2.04
0.05	lb		2.33	2.33	Pass	Pass	0.54	2.03
0.02	lb		0.27	0.27	Pass	Pass	0.22	2.03
0.02	lb	*	-0.4	-0.4	Pass	Pass	0.22	2.03
0.01	lb		0.92	0.92	Pass	Pass	0.18	2.03
0.005	lb		0.43	0.43	Pass	Pass	0.15	2.03
0.002	lb		0.4	0.4	Pass	Pass	0.11	2.03
0.002	lb	*	0.43	0.43	Pass	Pass	0.11	2.03
0.001	lb		0.537	0.537	Pass	Pass	0.092	2.03

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Calibration Certificate

Date Received: August 03, 2023
Date of Calibration: August 08, 2023
Date Issued: August 08, 2023
Date Due: August 08, 2025

State Test No.: W23-248
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK-11
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 53.1 %
Pressure: 736.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1912

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g		78	78	Pass	Pass	24	2.01
1000	g		22	22	Pass	Pass	12	2.01
500	g		6.8	6.8	Pass	Pass	8.4	2.01
200	g		4.5	4.5	Pass	Pass	4.8	2.03
200	g	*	4.5	4.5	Pass	Pass	4.8	2.03
100	g		-2	-2	Pass	Pass	2.4	2.03
50	g		3.3	3.3	Pass	Pass	1.2	2.03
20	g		0.23	0.23	Pass	Pass	0.48	2.03
20	g	*	0.53	0.53	Pass	Pass	0.48	2.03
10	g		0.32	0.32	Pass	Pass	0.25	2.05
5	g		0.2	0.2	Pass	Pass	0.18	2.03
2	g		0.36	0.36	Pass	Pass	0.14	2.03
2	g	*	0.19	0.19	Pass	Pass	0.14	2.03
1	g		-0.08	-0.08	Pass	Pass	0.11	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 08JN
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 53.4 %
Pressure: 736.8 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g		94	94	Pass	Pass	24	2.01
1000	g		51	51	Pass	Pass	12	2.01
500	g		27.8	27.8	Pass	Pass	8.4	2.01
200	g		17.3	17.3	Pass	Pass	4.8	2.03
200	g	*	18	18	Pass	Pass	4.8	2.03
100	g		7.6	7.6	Pass	Pass	2.4	2.03
50	g		0.6	0.6	Pass	Pass	1.2	2.03
20	g		1.81	1.81	Pass	Pass	0.48	2.03
20	g	*	1.99	1.99	Pass	Pass	0.48	2.03
10	g		0.88	0.88	Pass	Pass	0.25	2.05
5	g		0.65	0.65	Pass	Pass	0.18	2.03
2	g		0.41	0.41	Pass	Pass	0.14	2.03
2	g	*	0.47	0.47	Pass	Pass	0.14	2.03
1	g		0.4	0.4	Pass	Pass	0.11	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 013E
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 52.5 %
Pressure: 736.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g		94	94	Pass	Pass	24	2.01
1000	g		39	39	Pass	Pass	12	2.01
1000	g	*	2	2	Pass	Pass	12	2.01
1000	g	**	3	3	Pass	Pass	12	2.01
500	g		44.8	44.8	Pass	Pass	8.4	2.01
200	g		16.9	16.9	Pass	Pass	4.8	2.03
200	g	*	16.5	16.5	Pass	Pass	4.8	2.03
100	g		6.7	6.7	Pass	Pass	2.4	2.03
50	g		2.6	2.6	Pass	Pass	1.2	2.03
20	g		0.43	0.43	Pass	Pass	0.48	2.03
20	g	*	0.95	0.95	Pass	Pass	0.48	2.03
10	g		0.8	0.8	Pass	Pass	0.25	2.05
5	g		0.62	0.62	Pass	Pass	0.18	2.03
2	g		0.38	0.38	Pass	Pass	0.14	2.03
2	g	*	0.35	0.35	Pass	Pass	0.14	2.03
1	g		0.17	0.17	Pass	Pass	0.11	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: OOWO
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.4 °C
Relative Humidity: 53.0 %
Pressure: 736.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
2000	g		68	68	Pass	Pass	24	2.01
1000	g		8	8	Pass	Pass	12	2.01
500	g		7.8	7.8	Pass	Pass	8.4	2.01
200	g		14.5	14.5	Pass	Pass	4.8	2.03
200	g	*	14.5	14.5	Pass	Pass	4.8	2.03
100	g		8.5	8.5	Pass	Pass	2.4	2.03
50	g		3	3	Pass	Pass	1.2	2.03
20	g		0.78	0.78	Pass	Pass	0.48	2.03
20	g	*	0.97	0.97	Pass	Pass	0.48	2.03
10	g		0.24	0.24	Pass	Pass	0.25	2.05
5	g		0.32	0.32	Pass	Pass	0.18	2.03
2	g		0.26	0.26	Pass	Pass	0.14	2.03
2	g	*	0.29	0.29	Pass	Pass	0.14	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: OOWP
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 49.3 %
Pressure: 741.1 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb		-9	-9	Pass	Pass	27	2.01
2	lb		42	42	Pass	Pass	11	2.01
2	lb	*	31	31	Pass	Pass	11	2.01
1	lb		32.3	32.3	Pass	Pass	8.3	2.01
0.5	lb		21.2	21.2	Pass	Pass	5.4	2.01
0.2	lb		8.1	8.1	Pass	Pass	2.1	2.03
0.2	lb	*	6.4	6.4	Pass	Pass	2.1	2.03
0.1	lb		3.7	3.7	Pass	Pass	1.1	2.04
0.05	lb		1.71	1.71	Pass	Pass	0.54	2.03
0.02	lb		0.36	0.36	Pass	Pass	0.22	2.03
0.02	lb	*	0.31	0.31	Pass	Pass	0.22	2.03
0.01	lb		0.84	0.84	Pass	Pass	0.18	2.03
0.005	lb		0.96	0.96	Pass	Pass	0.15	2.03
0.002	lb		0.13	0.13	Pass	Pass	0.11	2.03
0.002	lb	*	0.18	0.18	Pass	Pass	0.11	2.03
0.001	lb		0.407	0.407	Pass	Pass	0.092	2.03

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Paul Masterson

Paul Masterson, Lead Metrologist

Page 2 of 2

Justin Lien

Justin Lien, Laboratory Director

3601 Gallcon Run • Madison, WI 53718 • (608) 224-4910



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection

Secretary Randy Romanski

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 08JM
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 49.3 %
Pressure: 741.1 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
5	lb		83	83	Pass	Pass	27	2.01
2	lb		34	34	Pass	Pass	11	2.01
2	lb	*	44	44	Pass	Pass	11	2.01
1	lb		29.3	29.3	Pass	Pass	8.3	2.01
0.5	lb		24.2	24.2	Pass	Pass	5.4	2.01
0.2	lb		8.1	8.1	Pass	Pass	2.1	2.03
0.2	lb	*	7.9	7.9	Pass	Pass	2.1	2.03
0.1	lb		4.8	4.8	Pass	Pass	1.1	2.04
0.05	lb		2.13	2.13	Pass	Pass	0.54	2.03
0.02	lb		0.12	0.12	Pass	Pass	0.22	2.03
0.02	lb	*	0.12	0.12	Pass	Pass	0.22	2.03
0.01	lb		0.86	0.86	Pass	Pass	0.18	2.03
0.005	lb		0.64	0.64	Pass	Pass	0.15	2.03
0.002	lb		0.29	0.29	Pass	Pass	0.11	2.03
0.002	lb	*	0.44	0.44	Pass	Pass	0.11	2.03
0.001	lb		0.027	0.027	Pass	Pass	0.092	2.03

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Secretary Randy Romanski
Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 20, 2023
Date Issued: June 22, 2023
Date Due: June 20, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: TRKWS7
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 50.3 %
Pressure: 740.7 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
10	lb		39	39	Pass	Pass	53	2.01
10	lb	*	-32	-32	Pass	Pass	53	2.01
5	lb		129	129	Pass	Pass	27	2.01
1	lb		-1.7	-1.7	Pass	Pass	8.3	2.01
1	lb	*	7.3	7.3	Pass	Pass	8.3	2.01
1	lb	**	8.3	8.3	Pass	Pass	8.3	2.01
1	lb	***	8.3	8.3	Pass	Pass	8.3	2.01
1	lb	****	4.3	4.3	Pass	Pass	8.3	2.01
4	oz		11	11	Pass	Pass	2.8	2.03
4	oz	*	7.6	7.6	Pass	Pass	2.8	2.03
4	oz	**	0.3	0.3	Pass	Pass	2.8	2.03
1	oz		3.02	3.02	Pass	Pass	0.65	2.03
1	oz	*	3.9	3.9	Pass	Pass	0.65	2.03
1	oz	**	3	3	Pass	Pass	0.65	2.03
1/2	oz		1.19	1.19	Pass	Pass	0.34	2.03
1/2	oz	*	2.1	2.1	Pass	Pass	0.34	2.03
1/4	oz		0.2	0.2	Pass	Pass	0.21	2.03

The following standard(s) were used: Avoirdupois Weight Set WS-1

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Justin Lien, Laboratory Director



State of Wisconsin
Governor Tony Evers

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Secretary Randy Romanski

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: June 19, 2023
Date of Calibration: June 19, 2023
Date Issued: June 21, 2023
Date Due: June 19, 2025

State Test No.: W23-210
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: RK1000S
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.5 °C
Relative Humidity: 54.7 %
Pressure: 736.4 mmHg

Customer: MIDWEST SCALE COMPANY
Address: 3445 LONERGAN DR
ROCKFORD, IL 61109
Contact: JIM OLEJARSKI
Phone: (815) 968-3731
PO Number: 1900

Nominal Mass	Mass Unit	Serial No.	Conventional Mass Correction (mg)		NIST HB 105-1 (1990), Class F		Uncertainty (mg)	Coverage Factor (k)
			As Found	As Left	As Found	As Left		
1000	g	F162	1	1	Pass	Pass	12	2.01
1000	g	F163	0	0	Pass	Pass	12	2.01
1000	g	F164	1	1	Pass	Pass	12	2.01
1000	g	F165	1	1	Pass	Pass	12	2.01
400	g	F158	1.1	1.1	Pass	Pass	9.8	2.50
400	g	F159	0.1	0.1	Pass	Pass	9.8	2.50
400	g	F160	0.1	0.1	Pass	Pass	9.8	2.50
400	g	F161	1.1	1.1	Pass	Pass	9.8	2.50
100	g	F153	0.3	0.3	Pass	Pass	2.4	2.03
100	g	F154	0.2	0.2	Pass	Pass	2.4	2.03
100	g	F155	0.2	0.2	Pass	Pass	2.4	2.03
100	g	F156	0.2	0.2	Pass	Pass	2.4	2.03
100	g	F157	0.3	0.3	Pass	Pass	2.4	2.03

The following standard(s) were used: Metric Weight Set WS-2

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Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director

Traceable Certificate Number: 3576926
Contractor: MIDWEST SCALE COMPANY
 3445 LONERGAN DR
 ROCKFORD, IL 61109

Purchase Order Number: 1899
Client: MIDWEST SCALE COMPANY
 3445 LONERGAN DR
 ROCKFORD, IL 61109

Date Received: 07 Jul 2023
Date Calibrated: 12 Jul 2023 to 13 Jul 2023
Recalibration Date: 12 Jul 2025
NIST Certificate Number: 684Q/O-0000036452-22

If there are two NIST numbers, one or both may apply
Calibrated By: 17
Procedure: WI05-0095 Rev. D
Condition of Weights: Acceptable for Calibration
Description of Weights: 1 g to 100 g Polished Weights, ASTM Class 1, S/N 5E13
Comments:



Key Notes

- Finish ✱ Indicates the weight does not meet the finish requirements
- Material ⊕ Indicates the weight does not meet the material requirements
- New Wt ◇ Indicates new weight
- Missing Wt ▲ Indicates replaced missing weight with new weight
- Damaged Wt ✱ Indicates replaced damaged weight
- Replaced OOT ★ Indicates replaced out of tolerance weight
- OOT ⊗ Indicates correction plus or minus Uncertainty greater than or equal to MPE
- Magnetic Wt ★★ Indicates replaced magnetic weight
- Design ⊗ Indicates the weight does not meet the design or shape requirements
- Repainted 🗑 Indicates the weight was repainted after As Found obtained
- Other ⊕ See comments above

Cleaning Levels

- A Dusted with brush or cloth
- B Spot cleaned with ethyl alcohol
- C Full surface cleaned with ethyl alcohol
- D Spot cleaned with non-alcohol solvent followed by ethyl alcohol
- E Full surface cleaned with non-alcohol solvent followed by ethyl alcohol
- F No cleaning performed

Material Abbreviations

AL	Aluminum	TA	Tantalum
SS	Stainless Steel	BR	Brass
CI	Cast Iron	PL	Platinum
IR	Iron	NS	Nickel Silver
MS	Mild Steel	OR	Other/Unknown

Check with your local state agency for certification of compliance on Legal-for-Trade items. The weight accuracy class is referenced in the Description of Weights. Unless otherwise noted, the weights calibrated meet the requirements of the accuracy class. Results relate only to weights calibrated. The Surface Finishes of weights are evaluated visually. Weights are screened for magnetism using work instruction WI05-0035 when they are new, when requested by the customer or when weights are suspected of not meeting specifications. Density if measured is measured using OIML R111-1 (2004) method A2. Conventional Mass is reported based on a reference density of 8.0 g/cm³. The Uncertainty of Measurement is included in the determination of Maximum Permissible Error (MPE) Pass/Fail Criteria. The specifications for Maximum Permissible Error (MPE) can be found in NIST Handbook 105-1 (2019), NIST Handbook 105-1 (1990), ASTM E617-18 or OIML R111-1 (2004), manufacturer specifications or customer specifications.

The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and the Guide to the expression of uncertainty in measurement, with coverage factor (k=2), to express the expanded uncertainty with an approximate 95.45% confidence level. This report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any government agency. This document and all data within, shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems.

Mike Arrigoni
 Mike Arrigoni, Lab Supervisor

13 Jul 2023
 Issued Date:



Prepared By:
Rice Lake Weighing Systems ● PN 64784 ● 12/21
 230 West Coleman Street ● Rice Lake, WI 54868 ● USA
 TEL: 715-234-9171 ● FAX: 715-234-6967
 Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>
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RICE LAKE Certificate of Weight Calibration

ISO/IEC 17025 & ANSI/NCSL-Z540-1-1994 ACCREDITED
 Temperature Range: 21.66 °C to 21.72 °C
 Pressure Range: 727.72 mmHg to 728.89 mmHg
 Relative Humidity Range: 52 % to 54 %

Traceable Certificate Number: 3576926
 Client: MIDWEST SCALE COMPANY
 Date Calibrated: 12 Jul 2023 to 13 Jul 2023

As Left Data (As Found Data is undifferentiated from As Left Data unless listed in As Found Data table)

Nominal Value	Unique ID	True Mass (Same UOM as Nom.)	True Mass Corr. (mg)	Conv. Mass (same UOM as Nom.)	Conv. Mass Corr. (mg)	(=2) Unc. (± mg)	MPE (± mg)	MPE Pass (Y=Pass, N=Fail)	Assumed Density (g/cm ³)	Assumed Material	Const. Type	Balance Used	Reference Standard Set Used	Air Density (mg/cm ³)	Clean Level
1 g 5E13		1.0000132	0.0132	1.0000122	0.0122	0.0013	0.034	Y	7.95	SS	I	2022Q	L595Q	1.1427	A
2 g 5E13		2.0000134	0.0134	2.0000115	0.0115	0.0015	0.034	Y	7.95	SS	II	2022Q	L595Q	1.1427	A
2 g 5E13		2.0000242	0.0242	2.0000223	0.0223	0.0015	0.034	Y	7.95	SS	II	2022Q	L595Q	1.1427	A
5 g 5E13		5.0000220	0.0220	5.0000172	0.0172	0.0033	0.034	Y	7.95	SS	II	2022Q	L595Q	1.1427	A
10 g 5E13		10.0000256	0.0256	10.0000162	0.0162	0.0064	0.050	Y	7.95	SS	II	2060Q	U520Q	1.1404	A
20 g 5E13		20.0000305	0.0305	20.0000116	0.0116	0.0073	0.074	Y	7.95	SS	II	2060Q	U520Q	1.1404	A
20 g 5E13		20.0000342	0.0342	20.0000154	0.0154	0.0073	0.074	Y	7.95	SS	II	2060Q	U520Q	1.1404	A
50 g 5E13		50.0000047	0.047	50.0000000	0.000	0.015	0.12	Y	7.95	SS	II	2060Q	U520Q	1.1404	A
100 g 5E13		100.0000076	0.076	99.9999981	-0.019	0.028	0.25	Y	7.95	SS	II	2060Q	U520Q	1.1404	A

Certificate Of Calibration

Certificate #: 417188

CUSTOMER:
MIDWEST SCALE CO.
3445 LONERGAN DRIVE
ROCKFORD, IL 61109
PO: PENDING

INSPECTION FACILITY:
CMM CALIBRATION AND SERVICES
3419 LONERGAN DRIVE
ROCKFORD, IL 61109
PHONE: 815-874-2153
WEB: WWW.CMMCAL.COM

Equipment Information

Equipment ID: 130388707
Description: THERMOMETER, DIGITAL
Manufacturer: CONTROL COMPANY
Temp./RH: 68 F/31
Cal. Interval: 12 MONTHS
Calibration Date: 1/23/2023
Uncertainty: 4 TO 1 OR GREATER
Calibration Site: LAB

Serial Number: 130388707
Model Number: 4351
Unit of Measure: °F
Performed By: J LOWE
As Left Results: PASS
Calibration Due: 1/23/2024
Procedure: 20.002
Item Location: UNKNOWN

<u>Seq.</u>	<u>Description</u>	<u>Standard</u>	<u>Tolerance -</u>	<u>Tolerance +</u>	<u>As Found</u>	<u>As Left</u>
1	° F	69.0	68.0	70.0	69.2	69.2

Masters Used:

	<u>Description</u>	<u>Model</u>	<u>Due Date</u>	<u>Traceability:</u>
	H2O	DISTILLED H2O	7/31/2023	AWC306 C101
TH06	THERMOMETER, FLUKE 52 II	52 II	2/28/2023	324850
TH801	TEMPERATURE & HUMIDITY DATA LOGGER	MX1101	1/6/2025	1638268

Notes:

new battery

This is to certify the equipment referenced has been calibrated and verified to meet the defined specifications. This calibration was performed using equipment with results that are traceable through the National Institute of Standards and Technology (NIST) and/or to the international system of units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration process. The expanded uncertainties are a coverage factor of K=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from CMM Calibration and Services. Decisions are based on data from measurements made, procedures used, professional experience, and not the effect of the uncertainty on the assessment of compliance. If not included, the uncertainty of calibrations are available upon request. CMM Calibration and Services is accredited to ISO/IEC 17025 by Perry Johnson Laboratory Accreditation certificate # L21-239. CMM Calibration and Services shall in no event, nor for any cause whatsoever, be liable for any amount exceeding the cost of this certificate.



Approved By:

Certificate Of Calibration

Certificate #: 417190

CUSTOMER:

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ROCKFORD, IL 61109
PO: PENDING

INSPECTION FACILITY:

CMM CALIBRATION AND SERVICES
3419 LONERGAN DRIVE
ROCKFORD, IL 61109
PHONE: 815-874-2153
WEB: WWW.CMMCAL.COM

Equipment Information

Equipment ID: 72297473
Description: THERMOMETER, DIGITAL
Manufacturer: CONTROL COMPANY
Temp./RH: 68 F/31
Cal. Interval: 12 MONTHS
Calibration Date: 1/23/2023
Uncertainty: 4 TO 1 OR GREATER
Calibration Site: LAB

Serial Number: 72297473
Model Number: 4351CC
Unit of Measure: °F
Performed By: J LOWE
As Left Results: PASS
Calibration Due: 1/23/2024
Procedure: 20.002
Item Location: UNKNOWN

Seq.	Description	Standard	Tolerance -	Tolerance +	As Found	As Left
1	° F	69.0	68.0	70.0	69.0	69.0

Masters Used:

Description	Model	Due Date	Traceability:
H2O	DISTILLED H2O	7/31/2023	AWC306 C101
TH09	TEMPERATURE & HUMIDITY METER	6/30/2023	1638268
TH801	TEMPERATURE & HUMIDITY DATA LOGGER	1/6/2025	1638268

Notes:

Replaced batteries.

This is to certify the equipment referenced has been calibrated and verified to meet the defined specifications. This calibration was performed using equipment with results that are traceable through the National Institute of Standards and Technology (NIST) and/or to the international system of units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration process. The expanded uncertainties are a coverage factor of K=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from CMM Calibration and Services. Decisions are based on data from measurements made, procedures used, professional experience, and not the effect of the uncertainty on the assessment of compliance. If not included, the uncertainty of calibrations are available upon request. CMM Calibration and Services is accredited to ISO/IEC 17025 by Perry Johnson Laboratory Accreditation certificate # L21-239. CMM Calibration and Services shall in no event, nor for any cause whatsoever, be liable for any amount exceeding the cost of this certificate.



Approved By:

Certificate Of Calibration

Certificate #: 417192

CUSTOMER:

MIDWEST SCALE CO.
3445 LONERGAN DRIVE
ROCKFORD, IL 61109
PO: PENDING

INSPECTION FACILITY:

CMM CALIBRATION AND SERVICES
3419 LONERGAN DRIVE
ROCKFORD, IL 61109
PHONE: 815-874-2153
WEB: WWW.CMMCAL.COM

Equipment Information

Equipment ID: 151902122
Description: TEMPERATURE & HUMIDITY MONITOR
Manufacturer: CONTROL COMPANY
Temp./RH: 68 F/31
Cal. Interval: 12 MONTHS
Calibration Date: 1/23/2023
Uncertainty: LISTED
Calibration Site: LAB

Serial Number: 151902122
Model Number: 4040
Unit of Measure: LISTED
Performed By: J LOWE
As Left Results: PASS
Calibration Due: 1/23/2024
Procedure: 20.01
Item Location: UNKNOWN

Seq.	Description	Standard	Tolerance -	Tolerance +	As Found	As Left
1	°F	69.10	67.30	70.90	70.60	70.60
2	Maximum Over 24 Hours (°F)	69.30	67.50	71.10	70.60	70.60
3	Minimum Over 24 Hours (°F)	68.00	67.20	69.80	69.50	69.50
4	% RH	28.0	23.0	32.0	26.0	26.0

Masters Used:

I.D.	Description	Model	Due Date	Traceability:
TH801	TEMPERATURE & HUMIDITY DATA LOGGER	MX1101	1/6/2025	1638268

Notes:

This is to certify the equipment referenced has been calibrated and verified to meet the defined specifications. This calibration was performed using equipment with results that are traceable through the National Institute of Standards and Technology (NIST) and/or to the international system of units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration process. The expanded uncertainties are a coverage factor of K=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from CMM Calibration and Services. Decisions are based on data from measurements made, procedures used, professional experience, and not the effect of the uncertainty on the assessment of compliance. If not included, the uncertainty of calibrations are available upon request. CMM Calibration and Services is accredited to ISO/IEC 17025 by Perry Johnson Laboratory Accreditation certificate # L21-239. CMM Calibration and Services shall in no event, nor for any cause whatsoever, be liable for any amount exceeding the cost of this certificate.



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Certificate Of Calibration

Certificate #: 417196

CUSTOMER:

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ROCKFORD, IL 61109
PO: PENDING

INSPECTION FACILITY:

CMM CALIBRATION AND SERVICES
3419 LONERGAN DRIVE
ROCKFORD, IL 61109
PHONE: 815-874-2153
WEB: WWW.CMMCAL.COM

Equipment Information

Equipment ID: 192528402
Description: TEMPERATURE & HUMIDITY MONITOR
Manufacturer: CONTROL COMPANY
Temp./RH: 68 F/31
Cal. Interval: 12 MONTHS
Calibration Date: 1/23/2023
Uncertainty: SEE NOTES
Calibration Site: LAB

Serial Number: 192528402
Model Number: 4040
Unit of Measure: LISTED
Performed By: J LOWE
As Left Results: PASS
Calibration Due: 1/23/2024
Procedure: 20.01
Item Location: QUALITY

Seq.	Description	Standard	Tolerance -	Tolerance +	As Found	As Left
1	°F	69.10	67.30	70.90	69.00	69.00
2	Maximum Over 24 Hours (°F)	69.30	67.50	71.10	70.10	70.10
3	Minimum Over 24 Hours (°F)	68.00	67.20	69.80	68.90	68.90
4	% RH	28.0	23.0	32.0	30.0	30.0

Masters Used:

I.D.	Description	Model	Due Date	Traceability:
TH801	TEMPERATURE & HUMIDITY DATA LOGGER	MX1101	1/6/2025	1638268

Notes:

This is to certify the equipment referenced has been calibrated and verified to meet the defined specifications. This calibration was performed using equipment with results that are traceable through the National Institute of Standards and Technology (NIST) and/or to the international system of units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration process. The expanded uncertainties are a coverage factor of K=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from CMM Calibration and Services. Decisions are based on data from measurements made, procedures used, professional experience, and not the effect of the uncertainty on the assessment of compliance. If not included, the uncertainty of calibrations are available upon request. CMM Calibration and Services is accredited to ISO/IEC 17025 by Perry Johnson Laboratory Accreditation certificate # L21-239. CMM Calibration and Services shall in no event, nor for any cause whatsoever, be liable for any amount exceeding the cost of this certificate.



Approved By: