



State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection

Wisconsin Weights and Measures Laboratory

Calibration Certificate

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX, IL 60451-3669
(815) 463-1209

Date Received:	March 25, 2021	State Test No.:	W21-112
Date of Calibration:	March 25, 2021		
Date Issued:	March 29, 2021		
Date Due:	March 25, 2023		

Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration certificate. The laboratory test number identified above is the unique test number to be used in referencing measurement traceability for the artifacts identified in this certificate. The State Standards are traceable to the SI unit for mass, the kilogram.

Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

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

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 6W2C
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 22.6 °C
Relative Humidity: 47.2 %
Pressure: 737.1 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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		66	66	Pass	Pass	24	2.01
1000	g		30	30	Pass	Pass	12	2.01
500	g		18.8	18.8	Pass	Pass	8.4	2.01
200	g		9.7	9.7	Pass	Pass	4.7	2.02
200	g	*	9.2	9.2	Pass	Pass	4.7	2.02
100	g		6.5	6.5	Pass	Pass	2.4	2.02
50	g		3.3	3.3	Pass	Pass	1.2	2.02
20	g		1.02	1.02	Pass	Pass	0.48	2.02
20	g	*	0.84	0.84	Pass	Pass	0.48	2.02
10	g		0.39	0.39	Pass	Pass	0.24	2.02
5	g		0.7	0.7	Pass	Pass	0.18	2.02
2	g		0.51	0.51	Pass	Pass	0.13	2.02
2	g	*	0.47	0.47	Pass	Pass	0.13	2.02
1	g		0.18	0.18	Pass	Pass	0.11	2.02
0.5	g		0.346	0.346	Pass	Pass	0.086	2.02
0.2	g		0.267	0.267	Pass	Pass	0.064	2.02
0.2	g	*	0.274	0.274	Pass	Pass	0.064	2.02
0.1	g		0.172	0.172	Pass	Pass	0.051	2.02
0.05	g		0.113	0.113	Pass	Pass	0.042	2.02
0.02	g		0.101	0.101	Pass	Pass	0.031	2.03
0.01	g		0.08	0.08	Pass	Pass	0.025	2.02
0.005	g		0.07	0.07	Pass	Pass	0.02	2.03

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

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Paul Masterson

Paul Masterson, Lead Metrologist

Justin Lien

Justin Lien, Laboratory Director



State of Wisconsin
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for calibration work performed for:
FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
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Date Received:	March 25, 2021	State Test No.:	W21-112
Date of Calibration:	March 25, 2021		
Date Issued:	March 29, 2021		
Date Due:	March 25, 2022		

Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

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Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

The following standard(s) were used: 2500 lb: 18987-10, 500 lb: 90499

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Paul Masterson, Lead Metrologist

Justin Lien, Laboratory Director



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Calibration Certificate

Date Received: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2022

State Test No.: W21-112
Item(s) Submitted: Weight Cart
Manufacturer: Dunbar
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-8 (2019)

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

Balance ID#: 11
Procedure Used: NISTIR 6969 (2019), SOP 33
Temperature: 20.3 °C
Relative Humidity: 45.3 %
Pressure: 735.4 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		
3000	lb	082108C	4.064	0.03	Fail	Pass	0.048	2.12

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

Justin Lien
Justin Lien, Laboratory Director



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Date Received:	March 25, 2021	State Test No.:	W21-112
Date of Calibration:	March 25, 2021		
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Date Due:	March 25, 2023		

Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration certificate. The laboratory test number identified above is the unique test number to be used in referencing measurement traceability for the artifacts identified in this certificate. The State Standards are traceable to the SI unit for mass, the kilogram.

Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

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

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Paul Masterson

Paul Masterson, Lead Metrologist

Justin Lien

Justin Lien, Laboratory Director



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Department of Agriculture, Trade and Consumer Protection

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 25, 2021
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Date Issued: March 29, 2021
Date Due: March 25, 2023


State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 2TJ
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 22.2 °C
Relative Humidity: 54.4 %
Pressure: 736.7 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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	2TJY	98	98	Pass	Pass	24	2.01
1000	g	2TJW	46	46	Pass	Pass	12	2.01
500	g	2TJU	19.8	19.8	Pass	Pass	8.4	2.01
200	g	M2	9.6	9.6	Pass	Pass	4.7	2.02
100	g	2TJS	4.3	4.3	Pass	Pass	2.4	2.02
50	g	2TJQ	4.4	4.4	Pass	Pass	1.2	2.02
20	g		0.96	0.96	Pass	Pass	0.48	2.02

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

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Paul Masterson, Lead Metrologist


Justin Lien, Laboratory Director



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Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

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Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

The following standard(s) were used: 8 oz: (0.5 lb W1)

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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: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 082108C Kit
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 22.0 °C
Relative Humidity: 53.7 %
Pressure: 736.5 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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		
8	oz	1	13.2	13.2	Pass	Pass	5.4	2.01
8	oz	2	7.2	7.2	Pass	Pass	5.4	2.01
8	oz	3	12.2	12.2	Pass	Pass	5.4	2.01
8	oz	4	18.2	18.2	Pass	Pass	5.4	2.01
8	oz	5	15.2	15.2	Pass	Pass	5.4	2.01
8	oz	6	7.2	7.2	Pass	Pass	5.4	2.01
8	oz	7	14.2	14.2	Pass	Pass	5.4	2.01
8	oz	8	17.2	17.2	Pass	Pass	5.4	2.01
8	oz	9	11.2	11.2	Pass	Pass	5.4	2.01
8	oz	10	13.2	13.2	Pass	Pass	5.4	2.01
8	oz	11	7.2	7.2	Pass	Pass	5.4	2.01
8	oz	12	15.2	15.2	Pass	Pass	5.4	2.01

The following standard(s) were used: 8 oz: (0.5 lb W1)

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Justin Lien

Justin Lien, Laboratory Director



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Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

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Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|Correction| > (Tolerance - Uncertainty)$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|Correction| > (0.95 * Tolerance - Uncertainty)$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

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

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Paul Masterson
Paul Masterson, Lead Metrologist

Justin Lien
Justin Lien, Laboratory Director



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Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: 38C7
Balance ID#: 7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 22.0 °C
Relative Humidity: 54.2 %
Pressure: 736.5 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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		74	74	Pass	Pass	24	2.01
2000	g	*	64	64	Pass	Pass	24	2.01
1000	g		25	25	Pass	Pass	12	2.01

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

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Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration certificate. The laboratory test number identified above is the unique test number to be used in referencing measurement traceability for the artifacts identified in this certificate. The State Standards are traceable to the SI unit for mass, the kilogram.

Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

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

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: S 910
Balance ID#: 6&7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 23.0 °C
Relative Humidity: 57.5 %
Pressure: 736.6 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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		135	135	Pass	Pass	53	2.02
10	lb	*	162	162	Pass	Pass	53	2.02
5	lb		58	58	Pass	Pass	27	2.01
1	lb		23.3	23.3	Pass	Pass	8.3	2.01
1	lb	*	16.3	16.3	Pass	Pass	8.3	2.01
1	lb	**	26.3	26.3	Pass	Pass	8.3	2.01
1	lb	***	20.3	20.3	Pass	Pass	8.3	2.01
1	lb	****	15.3	15.3	Pass	Pass	8.3	2.01
4	oz		6.4	6.4	Pass	Pass	2.7	2.02
4	oz	*	7.1	7.1	Pass	Pass	2.7	2.02
4	oz	**	11.1	11.1	Pass	Pass	2.7	2.02
1	oz		1.68	1.68	Pass	Pass	0.64	2.02
1	oz	*	1.86	1.86	Pass	Pass	0.64	2.02
1	oz	**	1.8	1.8	Pass	Pass	0.64	2.02
1/2	oz		0.49	0.49	Pass	Pass	0.33	2.02
1/4	oz		0.58	0.58	Pass	Pass	0.2	2.02

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

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

for calibration work performed for:
FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX, IL 60451-3669
(815) 463-1209

Date Received:	March 25, 2021	State Test No.:	W21-112
Date of Calibration:	March 25, 2021		
Date Issued:	March 29, 2021		
Date Due:	March 25, 2023		

Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration certificate. The laboratory test number identified above is the unique test number to be used in referencing measurement traceability for the artifacts identified in this certificate. The State Standards are traceable to the SI unit for mass, the kilogram.

Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Weight Kit
Manufacturer: Rice Lake
Condition: Good, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F
Kit Serial #: S-909
Balance ID#: 3,6,7
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 22.8 °C
Relative Humidity: 50.8 %
Pressure: 737.2 mmHg

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

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		136	136	Pass	Pass	53	2.02
10	lb	*	146	146	Pass	Pass	53	2.02
5	lb		32	32	Pass	Pass	27	2.01
1	lb	1	20.3	20.3	Pass	Pass	8.3	2.01
1	lb	2	0.3	0.3	Pass	Pass	8.3	2.01
1	lb	3	8.3	8.3	Pass	Pass	8.3	2.01
1	lb	4	31.3	31.3	Pass	Pass	8.3	2.01
1	lb	5	15.3	15.3	Pass	Pass	8.3	2.01
4	oz		5.6	5.6	Pass	Pass	2.7	2.02
4	oz	*	5.8	5.8	Pass	Pass	2.7	2.02
4	oz	**	5.6	5.6	Pass	Pass	2.7	2.02
1	oz		1.25	1.25	Pass	Pass	0.64	2.02
1	oz	*	1.66	1.66	Pass	Pass	0.64	2.02
1	oz	**	1.62	1.62	Pass	Pass	0.64	2.02
1/2	oz		0.78	0.78	Pass	Pass	0.33	2.02
1/2	oz	*	0.6	0.6	Pass	Pass	0.33	2.02
100	g		5.3	5.3	Pass	Pass	2.4	2.02
50	g		3.6	3.6	Pass	Pass	1.2	2.02
20	g	*	1.08	1.08	Pass	Pass	0.48	2.02
10	g		0.66	0.66	Pass	Pass	0.24	2.02
5	g		0.51	0.51	Pass	Pass	0.18	2.02
2	g		0.4	0.4	Pass	Pass	0.13	2.02
2	g	*	0.68	0.68	Pass	Pass	0.13	2.02
1	g		0.2	0.2	Pass	Pass	0.11	2.02
0.5	g		0.006	0.006	Pass	Pass	0.086	2.02
0.2	g		0.239	0.239	Pass	Pass	0.064	2.02
0.2	g	*	0.261	0.261	Pass	Pass	0.064	2.02
0.01	g		0.068	0.068	Pass	Pass	0.025	2.02

The following standard(s) were used: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

for calibration work performed for:
FOX VALLEY INDUSTRIAL SCALE, INC.

109 FORD DR STE D
NEW LENOX, IL 60451-3669
(815) 463-1209

Date Received:	March 25, 2021	State Test No.:	W21-112
Date of Calibration:	March 25, 2021		
Date Issued:	March 29, 2021		
Date Due:	March 25, 2023		

Uncertainty Statement

For the mass standards used in this calibration, some uncertainty components were assessed through a Type A evaluation, the method for assessing uncertainty by a statistical analysis of measured quantity values obtained under defined measurement conditions. In addition, other components were assessed from a Type B evaluation of standard uncertainty, based on scientific judgement using all of the relevant information available. The combined standard uncertainty was multiplied by a statistically determined coverage factor to provide an expanded uncertainty. The expanded uncertainty defines an interval having a level of confidence of approximately 95 percent, assuming normal distribution. The expanded uncertainty presented in this report is consistent with the ISO/IEC Guide to the Expression of Uncertainty in Measurement using the Root Sum Squares method (JCGM 100:2008).

Traceability Statement

The standards used by the Wisconsin State laboratory demonstrate an unbroken traceable chain to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory maintains documented calibration intervals and uses documented procedures, all under the performance of trained personnel who demonstrate suitable measurement assurance for the information listed in this calibration certificate. The laboratory test number identified above is the unique test number to be used in referencing measurement traceability for the artifacts identified in this certificate. The State Standards are traceable to the SI unit for mass, the kilogram.

Conformity Statement

These results relate only to the items calibrated in this certificate. Field standards and weight carts are calibrated based on guidance described in NIST Handbook 105-1 (2019) and NIST Handbook 105-8 (2019), respectively, using NISTIR 6969: Selected Laboratory Measurement Practices and Procedures to Support Basic Mass Calibrations (2019). Field standards calibrated to NIST Class F, ASTM 5, and ASTM 6 tolerances are usable for testing class III, III L, and IIII weighing devices, following NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices. Field standards calibrated to NIST Class F, ASTM 5, or ASTM 6 tolerances are not suitable for testing class I and class II weighing devices, which must be tested with field standards of higher precision than NIST Class F, ASTM 5, or ASTM 6. Weights calibrated to ASTM 7 tolerances by this laboratory cannot be used for testing commercial weighing devices. Field standards calibrated to ASTM Standard Specification E617-18 are not checked for density [Stainless steel weights are assumed 8.0 grams per cubic centimeter], or for magnetism.

Decision Rule

All calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (\text{Tolerance} - \text{Uncertainty})$ are considered to have failed to meet the applicable tolerance. It is the decision rule of the Wisconsin State laboratory that all calibrated weights and weight carts that are determined to have a mass correction such that: $|\text{Correction}| > (0.95 * \text{Tolerance} - \text{Uncertainty})$ will be adjusted to be closer to zero mass correction, even if the mass correction of the weights and weight carts originally met the applicable tolerance. Customers may request exceptions to this decision rule.

The following standard(s) were used: 1000 lb: 392, 25 lb: W25LB

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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

Wisconsin Weights and Measures Laboratory

Calibration Certificate

Date Received: March 25, 2021
Date of Calibration: March 25, 2021
Date Issued: March 29, 2021
Date Due: March 25, 2023

State Test No.: W21-112
Item(s) Submitted: Cast Weight
Manufacturer: Rice Lake
Condition: Fair, Acceptable for Calibration
Tolerance Class: NIST HB 105-1 (1990), Class F

Customer: FOX VALLEY INDUSTRIAL SCALE, INC.
Address: 109 FORD DR STE D
NEW LENOX, IL 60451-3669
Contact: JAMES HOLMAN
Phone: (815) 463-1209
PO Number: WC069

Balance ID#: 8&10
Procedure Used: NISTIR 6969 (2019), SOP 8
Temperature: 20.6 °C
Relative Humidity: 46.9 %
Pressure: 736.5 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	100	58,900	1,100	Fail	Pass	5,800	2.01
1000	lb	102	49,700	500	Fail	Pass	5,800	2.01
1000	lb	100	44,600	1,700	Fail	Pass	5,800	2.01
1000	lb	101	52,800	200	Fail	Pass	5,800	2.01
1000	lb	110	50,200	300	Fail	Pass	5,800	2.01
1000	lb	105	47,700	100	Fail	Pass	5,800	2.01
1000	lb	104	60,200	200	Fail	Pass	5,800	2.01
1000	lb	109	55,900	700	Fail	Pass	5,800	2.01
1000	lb	107	49,900	600	Fail	Pass	5,800	2.01
1000	lb	103	52,400	600	Fail	Pass	5,800	2.01
1000	lb	106	58,100	200	Fail	Pass	5,800	2.01
1000	lb	108	47,300	300	Fail	Pass	5,800	2.01
25	lb	00	-1,060	40	Fail	Pass	140	2.03
25	lb	3	2,490	20	Fail	Pass	140	2.03

The following standard(s) were used: 1000 lb: 392, 25 lb: W25LB

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Paul Masterson

Paul Masterson, Lead Metrologist

Justin Lien

Justin Lien, Laboratory Director