State of Wisconsin
Governor Tony Evers

Department of Agriculture, Trade and Consumer Protection
Secretary Randy Romanski

Wisconsin Weights and Measures Laboratory

Calibration Certificate

for calibration work performed for:

FOX VALLEY INDUSTRIAL SCALE

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

Date Received:	April 07, 2025	State Test No.:	W25-133
Date of Calibration:	April 08, 2025		
Date Issued:	April 09, 2025		
Date Due:	April 08, 2027		

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 E617-23 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: Avoirdupois Weight Set WS-1, Metric Weight Set WS-2

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Paul Masterson

Paul Masterson, Lead Metrologist

Justin Lien, Laboratory Director

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

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Customer:	FOX VALLEY INDUSTRIAL SCALE
Address:	109 FORD DR STE D NEW LENOX, IL 60451
Contact:	WENDY ECKBERG
Phone:	(815) 463-1209
PO Number:	AD018

State Test No.:	W25-133
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:	20.5 °C
Relative Humidity:	53.2 %
Pressure:	741.5 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		
10	lb		135	135	Pass	Pass	54	2.06
10	lb	*	140	140	Pass	Pass	54	2.06
5	lb		27	27	Pass	Pass	28	2.05
1	lb	1	15.5	15.5	Pass	Pass	8.5	2.05
1	lb	2	0.5	0.5	Pass	Pass	8.5	2.05
1	lb	3	9.5	9.5	Pass	Pass	8.5	2.05
1	lb	4	32.5	32.5	Pass	Pass	8.5	2.05
1	lb	5	15.5	15.5	Pass	Pass	8.5	2.05
4	oz		5.6	5.6	Pass	Pass	2.8	2.06
4	oz	*	5.6	5.6	Pass	Pass	2.8	2.06
4	oz	**	5.4	5.4	Pass	Pass	2.8	2.06
1	oz		1.18	1.18	Pass	Pass	0.65	2.05
1	oz	**	1.46	1.46	Pass	Pass	0.65	2.05
1/2	oz		0.75	0.75	Pass	Pass	0.34	2.06
1/2	oz	*	0.52	0.52	Pass	Pass	0.34	2.06
100	g		5.3	5.3	Pass	Pass	2.4	2.06
50	g		3.3	3.3	Pass	Pass	1.2	2.06
20	g		1.09	1.09	Pass	Pass	0.48	2.06
10	g		0.69	0.69	Pass	Pass	0.24	2.06
5	g		0.53	0.53	Pass	Pass	0.18	2.06
2	g		0.39	0.39	Pass	Pass	0.14	2.06
500	mg		0.005	0.005	Pass	Pass	0.089	2.09
200	mg		0.24	0.24	Pass	Pass	0.067	2.10
200	mg	*	0.263	0.263	Pass	Pass	0.067	2.10

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