



Certificate of Calibration

STATE TEST NO: OR-26-032-F

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Calibration Items: Sixteen – 1000 lb, Eighteen – 50 lb, & Two – 25 lb Weights
Manufacturer: Toledo & Unknown
Construction: Cast Iron Grip Handle
Serial No.: See Page 2 & Page 3
Tolerance: NIST Handbook 105-1 Class F (1990)
Date of receipt: January 20, 2026

Submitted by:
Western Scale
PO Box 9333
Yakima, WA 98909

Method and Traceability:

The procedure used by the laboratory is NIST SOP 8 Modified Substitution (2019). Standards used for comparison (1000 lb Working A & Set R4) are traceable to the International System of Units (SI) through traceable comparisons of standards to national standards at the National Institute of Standards and Technology (reports on file) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and traceability within the level of uncertainty reported by this laboratory. The state test number identified above is the unique report number to be used in referencing measurement traceability for artifacts identified in this report only.

Magnetism, Density, & Surface Finish: The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.

Uncertainty Statement:

The uncertainty conforms to the JCGM Guide to the Expressions of Uncertainty in Measurement. Uncertainty as reported is based on a coverage factor k=2 for a level of confidence of approximately 95 percent. Uncertainty components include the uncertainty of the standard, the standard deviation of the measurement process, a component of uncertainty for comparator drift, a component of uncertainty for the comparator resolution sensitivity, and a component of uncertainty for the stability of the standard. The user must consider the corrections and uncertainties as reported to determine the overall system uncertainty in use. When issuing statements of compliance, the laboratory uses Oregon procedure SAP 25 and considers the uncertainty of measurement as part of the evaluation.

Environmental Conditions During Calibration

Laboratory temperature was maintained between 18 °C and 27 °C with a maximum variance of ± 5 °C / 12 h and ± 3 °C / h . Humidity was maintained between 40 % and 60 % ± 20 % / 4 h relative humidity.

Condition of items on receipt: Items were received in good condition.

Result: All weights were found to be within or were adjusted to NIST Handbook 105-1 Class F (1990) tolerance.


Ray Nekuda
Metrologist
Weights and Measures Laboratory
635 Capitol St NE, Ste 100
Salem, OR 97301
Phone: (503) 510-2310

1-23-2026
Date:

Cal Date: January 21 & 22, 2026

Company: Western Scale
 Address: PO Box 9333
 Yakima, WA 98909

Tested at: W&M Hawthorne Facility
 151 Hawthorne Ave NE
 Salem, OR 97301

Test No.: OR-26-032-F
 Manufacturer(s): Toledo & Unknown

Set Serial Number: Not Applicable
 Item(s) Description: Cast Iron Weights
 Tolerance: NIST Class F
 Date Received: January 20, 2026
 Date Tested: January 21 & 22, 2026

Contact: Stetson Tippet
 Phone No.: 509-966-6570

Nominal Value	Serial No. or ID	NIST Class F Tolerance (g)	As Found Error (g)	As Left Error (g)	Expanded Uncertainty (g)	k
1000 lb	WS61	45	-6.6	-6.6	8.4	2
1000 lb	WS65	45	-13.1	-13.1	8.4	2
1000 lb	WS64	45	8.9	8.9	8.4	2
1000 lb	WS60	45	-4.6	-4.6	8.4	2
1000 lb	WS82	45	14.4	14.4	8.4	2
1000 lb	WS87	45	21.4	21.4	8.4	2
1000 lb	WS84	45	16.9	16.9	8.4	2
1000 lb	WS86	45	27.4	27.4	8.4	2
1000 lb	WS83	45	11.4	11.4	8.4	2
1000 lb	WS85	45	10.4	10.4	8.4	2
1000 lb	WS88	45	12.9	12.9	8.4	2
1000 lb	WS81	45	26.9	26.9	8.4	2
1000 lb	WS63	45	-7.6	-7.6	8.4	2
1000 lb	WS59	45	-16.6	-16.6	8.4	2
1000 lb	WS62	45	5.4	5.4	8.4	2
1000 lb	WS66	45	-3.1	-3.1	8.4	2

**If weights were prepared, repaired, or conditioned before calibration, the reported "as found" values will not reflect the actual calibration values before removal from service.

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 Yakima, WA 98909

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Nominal Value	Serial No. or ID	NIST Class F Tolerance (g)	As Found Error (g)	As Left Error (g)	Expanded Uncertainty (g)	k
50 lb	WS14	2.3	3.31	-0.02	0.28	2
50 lb	WS4	2.3	2.10	-0.07	0.28	2
50 lb	WS19	2.3	2.26	-0.06	0.28	2
50 lb	WS13	2.3	2.79	-0.10	0.28	2
50 lb	WS17	2.3	2.49	-0.07	0.28	2
50 lb	WS30	2.3	1.43	1.43	0.28	2
50 lb	WS8	2.3	2.45	-0.04	0.28	2
50 lb	WS5	2.3	3.65	0.17	0.28	2
50 lb	WS20	2.3	2.04	0.12	0.28	2
50 lb	WS18	2.3	1.91	1.91	0.28	2
50 lb	WS16	2.3	2.55	0.13	0.28	2
50 lb	WS11	2.3	1.63	1.63	0.28	2
50 lb	WS12	2.3	3.40	0.12	0.28	2
50 lb	WS34	2.3	0.96	0.96	0.28	2
50 lb	WS2	2.3	4.72	0.06	0.28	2
50 lb	WS15	2.3	3.45	0.02	0.28	2
50 lb	WS1	2.3	1.62	1.62	0.28	2
50 lb	WS9	2.3	3.06	0.08	0.28	2
25 lb	WS51	1.1	0.28	0.28	0.14	2
25 lb	WS52	1.1	0.60	0.60	0.14	2

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