OREGON DEPARTMENT OF AGRICULTURE

Certificate of Calibration

STATE TEST NO: OR-26-024-F

Calibration Items:	Metric Weight Kit
Manufacturer:	Toledo, Ohaus, & Unknown
Construction:	Stainless Steel & Brass Cylinders
Serial No.:	WS70
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 (Set P1 & Set R5) 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 fair 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 20, 2026

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

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

Tested at: W&M Capitol St Facility
635 Capitol St NE
Salem, OR 97301

Test No.: OR-26-024-F
Manufacturer(s): Toledo, Ohaus, & Unknown
Set Serial Number: WS70
Item(s) Description: Metric Weight Kit
Tolerance: NIST Class F
Date Received: January 20, 2026
Date Tested: January 20, 2026

Nominal Value	Serial No. or ID	NIST Class F Tolerance (g)	As Found Error (g)	As Left Error (g)	Expanded Uncertainty (g)	k
5 kg	plain	0.5	0.055	0.055	0.059	2
5 kg	one dot	0.5	0.083	0.083	0.059	2
1 kg	plain	0.1	0.010	0.010	0.012	2
1 kg	one dot	0.1	0.014	0.014	0.012	2
1 kg	two dots	0.1	0.021	0.021	0.012	2
500 g	plain	0.07	0.0068	0.0068	0.0084	2
500 g	one dot	0.07	0.0249	0.0249	0.0084	2
250 g	plain	0.05	-0.0047	-0.0047	0.0061	2
200 g	plain	0.04	0.0021	0.0021	0.0048	2
200 g	Ohaus	0.04	-0.0161	-0.0161	0.0048	2
100 g	plain	0.02	-0.0057	-0.0057	0.0024	2
50 g	plain	0.01	0.0021	0.0021	0.0012	2
25 g	plain	0.0055	-0.00547	0.00033	0.00070	2
20 g	plain	0.004	0.00047	0.00047	0.00052	2
20 g	Ohaus	0.004	-0.00043	-0.00043	0.00052	2
10 g	plain	0.002	0.00026	0.00026	0.00031	2
5 g	plain	0.0015	0.00010	0.00010	0.00018	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.