

Agency of Agriculture Food & Markets
Consumer Protection Section
116 State Street
Montpelier, VT 05620
agriculture.vermont.gov

Vermont Agriculture & Environmental Laboratory
Vermont Metrology Laboratory
163 Admin Drive
Randolph Center, VT 05061
802-828-2426

Vermont Metrology Laboratory
Calibration Certificate
3000 lb Weight Cart

Submitted by:

Advanced Scale
13 Delta Drive Unit 6
Londonderry, NH 03053-2372
603-626-0242

Calibration Date: October 27, 2025
Date Received: October 24, 2025
Calibration Due: Not Specified
Manufacturer: Kanawha Scales & Systems
Model: 3K
Serial Number: 092112K
Nominal Mass: 3000 lb

The weight cart described above has been compared to the standards of the State of Vermont by NISTIR 6969, SOP 33 (2019) with SOP 4 Modifications using the SXXS method, and have been found at time of test, or been adjusted, to meet the tolerance stated in NIST Handbook 105-8 Specifications and Tolerances for Field Standard Weight Carts (2019). Weights carts are considered within tolerance when the absolute value of the conventional mass correction plus the uncertainty is less than or equal to the specified tolerance. In this calculation no air buoyancy correction was made. Carts received in an out-of-tolerance condition show a "Conventional Mass as Submitted" value.

Calibration Results	
Conventional Mass:	2999.32 lb
Conventional Mass Correction:	-0.68 lb
Conventional Mass Correction:	-309 g
Uncertainty:	0.15 lb
Tolerance:	1.05 lb
Conventional Mass as Submitted:	

Environmental Conditions During Calibration
Temperature: 21.7 °C to 21.8 °C
Relative Humidity: 42.0 % to 42.3 %
Barometric Pressure: 770 mmHg to 770 mmHg

Technician: Dolan, Kuehne

Standards of the State of Vermont are traceable to the International System of Units (SI) and the National Institute of Standards and Technology (NIST). The Vermont laboratory is recognized by NIST under the Laboratory Metrology Program at Mass Echelon III. SI conversion - 1 lb is equal to 0.453 592 37 kg

The uncertainty shown is expressed as the sum of the following sources; (1) Type A, random uncertainties determined by the standard deviation of the measurement process, and (2) Type B, systematic uncertainties relative to the reference standard and procedure used. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor of 2.09 for an approximate 95 % confidence interval.

Digitally signed by Scott
Dolan
Date: 2025.10.27 12:39:49
-04'00'

Scott Dolan, Weights & Measures Specialist



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Vermont Metrology Laboratory
 Inspection Checklist
 3000 lb Weight Cart

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General Requirements	
Nominal Mass Marked:	<input checked="" type="checkbox"/>
Motor Type:	Gasoline Motor
Drain Tubes Within Body:	<input type="checkbox"/>
Drain Hole Present:	<input checked="" type="checkbox"/>
Fixed or Solid Railings:	<input checked="" type="checkbox"/>

Fluid Levels	Sealed
Engine oil: Middle of Drip	<input type="checkbox"/>
Hydraulic Fluid: Below Site	<input type="checkbox"/>
Battery Acid: Good	<input checked="" type="checkbox"/>
Fuel: Full	<input type="checkbox"/>

Control Functionality	
Service Break:	<input checked="" type="checkbox"/>
Parking Break:	<input checked="" type="checkbox"/>
Remote:	N/A

Adjustment Cavity	
Accessible:	<input checked="" type="checkbox"/>
Sealed:	<input checked="" type="checkbox"/>
Approximate Capacity:	150 lb

Tires	
Number of Axles:	2
Number of Tires:	4
Size of Tires:	21"
Sealed Wheel Bearings:	<input checked="" type="checkbox"/>

General Condition of Weight Cart
Cart is in generally good condition and has recently had paint touched up. Make sure to wipe off any excess grease when greasing fittings.

Any maintenance, repairs, replacement of parts, or damage to weight cart or its components will likely result in an out-of-tolerance condition; therefore, maintenance or replacement of components such as batteries, tires, filters, or other items listed on the checklist, require calibration of the weight cart prior to subsequent use.



End of Certificate

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