


TMAP Calibration Report

A customer requesting a TMAP (Total Measurement Assurance Program) Calibration Report needing traceability to NIST is looking for actual weight readings, corrections and uncertainty values. To produce this document, a calibration laboratory must maintain a statistical measurement process acceptable by NIST. Also, depending on the weight class and the accuracy required, different standards and procedures need to be incorporated to make sure the level of uncertainty is appropriate for the item being tested. The Weight Calibration Report is in compliance with ISO International Standard 17025 and ANSI/NCSL Z540-1 requirements.

The special software used to produce the TMAP Calibration Report was developed specifically for Rice Lake Weighing Systems. These programs and procedures allow Rice Lake Weighing Systems to achieve and help maintain lower uncertainties.

The TMAP Calibration Report includes the following information:

- 1 Name and address of the calibration laboratory
- 2 Identification of the calibrated item and serial number, if applicable
- 3 Nominal mass value
- 4 As found condition of the weight
- 5 As left condition of the weight
- 6 A statement of the estimated value of uncertainty¹
- 7 Tolerance for the specific class
- 8 Your Traceable Report Number
- 9 NIST Certificate number
- 10 Environmental condition at time of test
- 11 Procedure used
- 12 NVLAP Accreditation logo
- 13 Calibration and due date of RLWS standards. This represents the date that RLWS standard is due for recalibration. This RLWS standard was used to check the performance of your weight. This date in no way reflects an expiration date of the certificate, nor does it infer or specify a recall date. The expiration of the certificate and the specification of a recall date are user assigned responsibilities under NIST H150-1.
- 14 Contractor name and address
- 15 Client name and address
- 16 Record of the weighing equipment
- 17 Assumed density of the weight being tested



ANSI/NCSL Z540-1-1994; Part 1 & ISO/IEC 17025 Compliant

TMAP Traceable Calibration REPORT

Contractor: **14** Rice Lake Weighing Systems
230 W Coleman St
Rice Lake, WI 54868

Purchase Order #: P021048
Client: **15** Rice Lake Weighing Systems
Address: 230 W Coleman St

City & State: Rice Lake, WI 54868
Date Received: 05 JUN 2008
Date Calibrated: 06 JUN 2008
Temperature Range: 21.27 to 21.44 °C
Pressure Range: **10** 717.4 to 718.5 mmHg
Relative Humidity Range: 47 to 50 %
Air Density: 1.1261 to 1.1281 mg/cm³
Traceable Report #: **8** SAMPLEIII
NIST Certificate #: 822/27280-1-06 822/274081-06 **9**
Tested By: 17
Procedure: **11** Modified Substitution (WI05-0023)

Primary Standard Calibration Date: 11/03/06 Due: 11/03/10
Description of Weights: **2** 1g-100g Salin Finish Kil, Class "F", S/N Z2LM
Although there are two NIST numbers, one or both may apply.

3 Nominal Value	4 As Found (mg)	5 As Left (mg)	6 Unc. K=2 (mg)	7 Tol. (mg)	16 Balance Used	13 Standard Set Used Calibrated/due MM-DD-YY/MM-DD-YY	17 Assumed Density (g/cm ³)
1 g	0.31	0.31	0.10	0.90	638Q	D563Q 04-02-08/10-02-08	7.84
2 g	0.174	0.174	0.087	1.12	638Q	D563Q 04-02-08/10-02-08	7.84
2 g	0.479	0.479	0.087	1.12	638Q	D563Q 04-02-08/10-02-08	7.84
5 g	0.180	0.180	0.086	1.5	638Q	D563Q 04-02-08/10-02-08	7.84
10 g	0.790	0.790	0.096	2.0	638Q	D563Q 04-02-08/10-02-08	7.84
20 g	1.63	1.63	0.31	4.0	1221Q	D563Q 04-02-08/10-02-08	7.84
20 g	0.83	0.83	0.31	4.0	1221Q	D563Q 04-02-08/10-02-08	7.84
50 g	2.20	2.20	0.32	10	1221Q	D563Q 04-02-08/10-02-08	7.84
100 g	7.02	7.02	0.33	20	1221Q	D563Q 04-02-08/10-02-08	7.84

1 This report contains data not covered by the NVLAP Accreditation if the box is checked.

Prepared By: _____ Check with your local state agency for certification of compliance on legal-for-trade items.

RICE LAKE WEIGHING SYSTEMS
230 West Coleman Street
Rice Lake, WI 54868 • USA
TEL: 715-234-9171 • FAX: 715-234-0967

NVLAP **12**
NVLAP Lab Code: 100021

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PN 64784 B/08

Refer to page 228 for Calibration Service Selection Guide.

¹ A reported value without all required parameters cannot be used in any link of traceability. Therefore, a calibration report without an uncertainty statement is useless.