



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Rice Lake Weighing Systems**

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**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 105001-0**

*NVLAP Code:* 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

**MECHANICAL**

*NVLAP Code:* 20/M08

Mass - Metric

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) in mg <sup>note 1</sup></b>	<b>Remarks</b>
30 kg	24	Echelon I
20 kg	3.8	Echelon I
10 kg	0.61	Echelon I
5 kg	0.31	Echelon I
3 kg	0.19	Echelon I
2 kg	0.10	Echelon I
1 kg	0.043	Echelon I
500 g	0.027	Echelon I
300 g	0.023	Echelon I
200 g	0.019	Echelon I
100 g	0.023	Echelon I
50 g	0.012	Echelon I
30 g	0.0081	Echelon I
20 g	0.0063	Echelon I
10 g	0.0059	Echelon I

2011-04-01 through 2012-03-31

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*



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5 g	0.0031	Echelon I
3 g	0.0020	Echelon I
2 g	0.0015	Echelon I
1 g	0.0013	Echelon I
500 mg	0.0011	Echelon I
300 mg	0.00094	Echelon I
200 mg	0.00092	Echelon I
100 mg	0.0011	Echelon I
50 mg	0.00074	Echelon I
30 mg	0.00060	Echelon I
20 mg	0.00055	Echelon I
10 mg	0.00063	Echelon I
5 mg	0.00038	Echelon I
3 mg	0.00034	Echelon I
2 mg	0.00032	Echelon I
1 mg	0.00035	Echelon I

### Mass-Avoirdupois

50 lb	12	Echelon I
30 lb	6.8	Echelon I
25 lb	5.0	Echelon I
20 lb	0.60	Echelon I
10 lb	0.37	Echelon I
5 lb	0.17	Echelon I
3 lb	0.11	Echelon I
2 lb	0.083	Echelon I
1 lb	0.050	Echelon I
0.5 lb	0.026	Echelon I
0.3 lb	0.018	Echelon I
0.2 lb	0.014	Echelon I
0.1 lb	0.014	Echelon I
0.05 lb	0.0071	Echelon I
0.03 lb	0.0048	Echelon I

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## CALIBRATION LABORATORIES

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0.02 lb	0.0035	Echelon I
0.01 lb	0.0033	Echelon I
0.005 lb	0.0017	Echelon I
0.003 lb	0.0010	Echelon I
0.002 lb	0.00074	Echelon I
0.001 lb	0.00055	Echelon I
4 oz	0.024	Echelon I
2 oz	0.016	Echelon I
1 oz	0.020	Echelon I
½ oz	0.010	Echelon I
¼ oz	0.0055	Echelon I
1/8 oz	0.0034	Echelon I
1/16 oz	0.0031	Echelon I
1/32 oz	0.0016	Echelon I

### Mass-Metric

50 kg	52	Echelon II
30 kg	8.4	Echelon II
20 kg	3.8	Echelon II
10 kg	0.61	Echelon II
5 kg	0.31	Echelon II
3 kg	0.19	Echelon II
2 kg	0.10	Echelon II
1 kg	0.043	Echelon II
500 g	0.027	Echelon II
300 g	0.023	Echelon II
200 g	0.019	Echelon II
100 g	0.023	Echelon II
50 g	0.012	Echelon II
30 g	0.0081	Echelon II
20 g	0.0063	Echelon II
10 g	0.0059	Echelon II
5 g	0.0031	Echelon II

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## CALIBRATION LABORATORIES

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3 g	0.0020	Echelon II
2 g	0.0015	Echelon II
1 g	0.0013	Echelon II
500 mg	0.0011	Echelon II
300 mg	0.00094	Echelon II
200 mg	0.00092	Echelon II
100 mg	0.0011	Echelon II
50 mg	0.00074	Echelon II
30 mg	0.00060	Echelon II
20 mg	0.00055	Echelon II
10 mg	0.00063	Echelon II
5 mg	0.00038	Echelon II
3 mg	0.00034	Echelon II
2 mg	0.00032	Echelon II
1 mg	0.00035	Echelon II

### Mass-Avoirdupois

50 lb	12	Echelon II
30 lb	6.8	Echelon II
25 lb	5.0	Echelon II
20 lb	0.60	Echelon II
10 lb	0.37	Echelon II
5 lb	0.17	Echelon II
3 lb	0.11	Echelon II
2 lb	0.083	Echelon II
1 lb	0.050	Echelon II
0.5 lb	0.026	Echelon II
0.3 lb	0.018	Echelon II
0.2 lb	0.014	Echelon II
0.1 lb	0.014	Echelon II
0.05 lb	0.0071	Echelon II
0.03 lb	0.0048	Echelon II
0.02 lb	0.0035	Echelon II

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**CALIBRATION LABORATORIES**

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0.01 lb	0.0033	Echelon II
0.005 lb	0.0017	Echelon II
0.003 lb	0.0010	Echelon II
0.002 lb	0.00074	Echelon II
0.001 lb	0.00055	Echelon II
4 oz	0.024	Echelon II
2 oz	0.016	Echelon II
1 oz	0.020	Echelon II
½ oz	0.0010	Echelon II
¼ oz	0.0055	Echelon II
1/8 oz	0.0034	Echelon II
1/16 oz	0.0031	Echelon II
1/32 oz	0.0016	Echelon II

Mass-Metric

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) <sup>note 1 1</sup></b>	<b>Remarks</b>
1000 kg	21 g	Echelon III
500 kg	7.6 g	Echelon III
250 kg	3.4 g	Echelon III
200 kg	1.7 g	Echelon III
100 kg	1.9 g	Echelon III
50 kg	86 mg	Echelon III
30 kg	12 mg	Echelon III
20 kg	11 mg	Echelon III
10 kg	1.4 mg	Echelon III
5 kg	1.0 mg	Echelon III
3 kg	0.75 mg	Echelon III
2 kg	0.67 mg	Echelon III
1 kg	0.11 mg	Echelon III
500 g	0.090 mg	Echelon III
300 g	0.060 mg	Echelon III
200 g	0.051 mg	Echelon III
100 g	0.033 mg	Echelon III

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50 g	0.021 mg	Echelon III
30 g	0.014 mg	Echelon III
20 g	0.010 mg	Echelon III
10 g	0.010 mg	Echelon III
5 g	0.0036 mg	Echelon III
3 g	0.0023 mg	Echelon III
2 g	0.0018 mg	Echelon III
1 g	0.0014 mg	Echelon III
500 mg	0.0011 mg	Echelon III
300 mg	0.0010 mg	Echelon III
200 mg	0.0010 mg	Echelon III
100 mg	0.0010 mg	Echelon III
50 mg	0.00094 mg	Echelon III
30 mg	0.00074 mg	Echelon III
20 mg	0.00075 mg	Echelon III
10 mg	0.00085 mg	Echelon III
5 mg	0.00072 mg	Echelon III
3 mg	0.00061 mg	Echelon III
2 mg	0.00066 mg	Echelon III
1 mg	0.00064 mg	Echelon III

Mass-Avoirdupois

3000 lb	26 g	Echelon III
2500 lb	14 g	Echelon III
2000 lb	11 g	Echelon III
1000 lb	6.2 g	Echelon III
500 lb	2.6 g	Echelon III
250 lb	2.6 g	Echelon III
200 lb	1.3 g	Echelon III
100 lb	86 mg	Echelon III
50 lb	9.2 mg	Echelon III
30 lb	7.9 mg	Echelon III
25 lb	6.5 mg	Echelon III

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## CALIBRATION LABORATORIES

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20 lb	1.3 mg	Echelon III
10 lb	0.67 mg	Echelon III
5 lb	0.31 mg	Echelon III
4 lb	0.21 mg	Echelon III
3 lb	0.19 mg	Echelon III
2 lb	0.11 mg	Echelon III
1 lb	0.073 mg	Echelon III
0.5 lb	0.046 mg	Echelon III
0.3 lb	0.039 mg	Echelon III
0.2 lb	0.017 mg	Echelon III
0.1 lb	0.015 mg	Echelon III
0.05 lb	0.0087 mg	Echelon III
0.03 lb	0.0073 mg	Echelon III
0.02 lb	0.0064 mg	Echelon III
0.01 lb	0.0034 mg	Echelon III
0.005 lb	0.0017 mg	Echelon III
0.003 lb	0.0011 mg	Echelon III
0.002 lb	0.00084 mg	Echelon III
0.001 lb	0.00066 mg	Echelon III
4 oz	0.040 mg	Echelon III
2 oz	0.018 mg	Echelon III
1 oz	0.022 mg	Echelon III
0.5 oz	0.012 mg	Echelon III
0.25 oz	0.0076 mg	Echelon III
0.125 oz	0.0030 mg	Echelon III
0.0625 oz	0.0022 mg	Echelon III
0.03125 oz	0.0018 mg	Echelon III

1. Represents an expanded uncertainty using a coverage factor,  $k = 2$ , at an approximate level of confidence of 95 %.

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