

**United States Department of Commerce
National Institute of Standards and Technology**

***Demonstrated
Areas of Proficiency**

Mass

Echelon I

30 kg - 1 mg

Echelon II

50 kg - 1 mg

1,000 lb - 0.001 lb

Echelon III

50 kg - 1 mg

2,500 lb - 0.001 lb

8 oz - 0.015625 oz

Railroad Test Cars

110,000 lb - 80,000 lb

Weight Carts

10,000 lb - 2,000 lb

Volume

Gravimetric, I

20 L - 1 mL

100 gal - 0.25 qt

Volume transfer, II

1,500 gal - 5 gal

100 gal - 25 gal LPG

Temperature

II 100 °C - 0 °C

**~ Certificate of Measurement Traceability ~
for**

Minnesota

**a participant in the NIST Weights and Measures
Measurement Assurance Program for the Year(s)**

2010 -2011

The State standards are traceable to NIST and the laboratory has demonstrated* measurement proficiency through training and interlaboratory comparisons compliant to NIST HB 143:2007 (ISO/IEC 17025:2005).



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Chief, Weights and Measures Division

Title

January 1, 2010 to December 31, 2011

Effective Date

