

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

**\*Demonstrated  
Areas of Proficiency**

**Mass**

Echelon II

50 kg - 1 mg

1000 lb - 0.001 lb

Echelon III

50 kg - 1 mg

2500 lb - 0.001 lb

8 oz - 0.015625 oz

Railroad Test Cars

110 000 lb - 80 000 lb

**Volume**

Gravimetric, I

20 L - 1 mL

100 gal - 0.5 pt

Volume transfer, II

1500 gal - 5 gal

100 gal - 25 gal LPG

**~ Certificate of Measurement Traceability ~  
for**

**Minnesota**

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

**2009**

**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).**



*Carol T. Hockert,  
for the National Institute of Standards and Technology*

**Chief, Weights and Measures Division**

*Title*

**January 1, 2009 - December 31, 2009**

*Effective Date*

