

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

~ **Certificate of Measurement Traceability** ~  
for

**North Carolina**

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

**2008 - 2009**

**The State standards are traceable to NIST and the laboratory  
has demonstrated\* measurement proficiency through training  
and interlaboratory comparisons.**



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

Chief, Weights and Measures Division  
Title

January 1, 2008  
Effective Date



**\*Demonstrated  
Areas of Proficiency**

**Mass**

Echelon I	30 kg - 1 mg 50 lb - 0.001 lb
Echelon II	250 kg - 1 mg 2500 lb - 0.001 lb 4 oz - 0.03125 oz
Echelon III	500 kg - 1 mg 6000 lb - 0.001 lb 4 oz - 0.03125 oz

**Volume**

Gravimetric, I	20 L - 5 L 100 gal - 1 gill
Small Volume Prover (SVP)	30 gal - 15 gal
Volume transfer, II	20 L 7500 gal - 1 gal

**Length**

Steel tapes	30 m - 0.1 m 112 ft - 1 ft
Rigid rules	60 in - 1 in

**Temperature**

Echelon III	
Echelon IV	
LIG	- 30 °C - 230 °C
PRT	- 30 °C - 230 °C

**Grain Moisture**

13 % - 23 %