

14th CSITC ROUND TRIAL COMPLETED

The fourteenth Round Trial under the auspices of the Task Force on Commercial Standardization of Instrument Testing of Cotton (CSITC RT 2010-2) was conducted from March to June 2010. Seventy testing laboratories with 93 instruments participated.

The typical inter-laboratory variations achieved by instrument testing, given as standard deviations, were:

CSITC RT 2010-2

Property	Standard Deviation based on Single Tests	Standard Deviation based on 30 Tests/Sample
Micronaire	0.08 mic	0.06 mic
Strength	1.19 g/tex	0.96 g/tex
Length	0.018 inches	0.012 inches
Length Unif.	0.8 units	0.6 units
Color Rd	1.08 units	1.02 units
Color +b	0.42 units	0.37 units

Laboratories are given an overall ranking, as well as rankings for performance on each of the six parameters. Results for each test center are confidential. Rankings are based on the results of each lab in coming closest to the mean (average) values for all laboratories participating in the Round Trial on all six parameters.

The range of scores for the combined properties among the 93 instruments was 0.27 to 1.78 (a score of zero would be perfect), and the median overall evaluation of combined properties was 0.47.

Results for the six properties over the 13 round trials have been consistent overall.