



The Australian Experience with CSITC Round Trials

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CSIRO MATERIALS SCIENCE AND ENGINEERING
www.csiro.au



Current Classing Facilities

- Auscott Limited Classing Office - Sydney
- Australian Classing Services (ACS) - Wee Waa
- Proclass Pty Ltd - Goondiwindi
- Queensland Cotton
- 1st Class Pty Ltd – Goondiwindi

- 14 Qualified Cotton Classers
- Total HVI Instruments – 24
- 15 x HVI 1000 (3 classing facilities 100% HVI 1000)
- 8 x HVI 900A
- 1 X HVI 900SA

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Check Testing

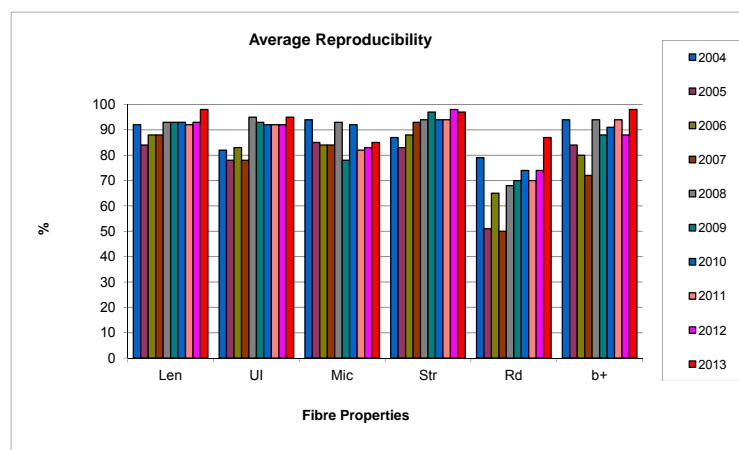
- Domestic (CCAA)
Classing members must participate in the Cotton Classers of Australia Association check-testing program.
- International (CSITC)
Classing members must participate in the CSITC Round Trials, with participation in the second and third annual Round Trials compulsory and participation in the first and fourth annual Round Trial optional.

Australia is the only country that collects the results of its instruments for analysis as an industry.

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CCAA



CCAA; Length +/- 0.02 inches, Uniformity Index +/- 1.0 %, Micronaire +/- 0.1 units, Strength +/- 2.0 gpt, Rd +/- 1.0 units and b+ +/- 0.6 units.

A reproducibility of $\geq 80\%$ is considered to be good.

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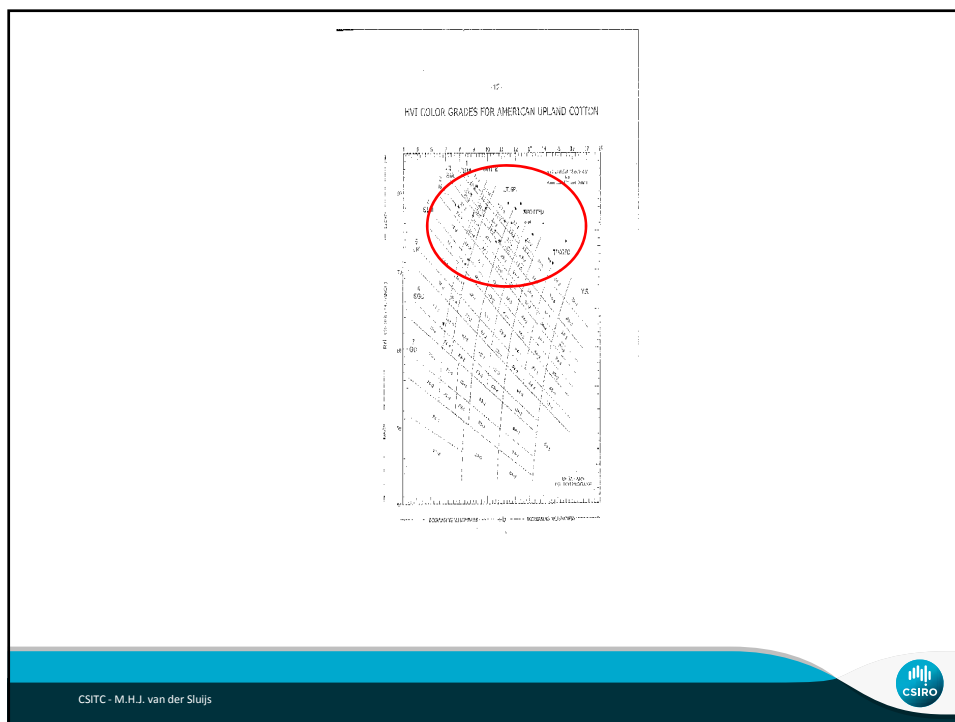
CSITC 2011-13

	Average for 2011 - 2	Average for 2011 - 3	Average for 2011 - 4	Average for 2012 - 1	Average for 2012 - 2	Average for 2012 - 3	Average for 2012 - 4	Average for 2013 - 1	Average for 2013 - 2	Average for 2013 - 3	Average for 2013 - 4
Overall	0.62	0.56	0.59	0.57	0.51	0.53	0.58	0.52	0.70	0.61	0.50
Micronaire	0.61	0.66	0.67	0.67	0.54	0.58	0.82	0.54	1.04	0.81	0.57
Strength	0.62	0.54	0.54	0.50	0.47	0.46	0.55	0.47	0.52	0.50	0.48
Length	0.60	0.51	0.59	0.55	0.42	0.43	0.50	0.45	0.56	0.54	0.46
Uniformity	0.47	0.41	0.50	0.50	0.45	0.37	0.40	0.49	0.48	0.49	0.43
Rd	0.68	0.56	0.57	0.53	0.55	0.59	0.45	0.56	0.67	0.62	0.47
-sb	0.72	0.70	0.62	0.62	0.63	0.74	0.72	0.62	0.95	0.68	0.60
Number of Facilities	78	79	80	66	67	83	92	76	84	90	93
Number of HVT's	123	136	137	105	112	143	160	114	129	148	151

	Average for 2011 - 2	Average for 2011 - 3	Average for 2011 - 4	Average for 2012 - 1	Average for 2012 - 2	Average for 2012 - 3	Average for 2012 - 4	Average for 2013 - 1	Average for 2013 - 2	Average for 2013 - 3	Average for 2013 - 4
Overall	0.81	0.72	0.54	0.50	0.45	0.39	0.56	0.30	0.41	0.39	0.39
Micronaire	0.55	0.45	0.30	0.57	0.64	0.44	0.56	0.20	0.42	0.23	0.48
Strength	0.70	0.59	0.37	0.74	0.31	0.26	0.66	0.45	0.37	0.61	0.47
Length	0.79	0.73	0.55	0.35	0.27	0.41	0.63	0.18	0.43	0.40	0.34
Uniformity	0.36	0.46	0.42	0.22	0.25	0.25	0.45	0.39	0.28	0.34	0.17
Rd	1.07	1.02	0.66	0.42	0.61	0.55	0.42	0.19	0.47	0.42	0.40
-sb	1.58	1.06	0.93	0.69	0.61	0.46	0.52	0.42	0.48	0.35	0.36
Number of Facilities	3	3	1	1	2	3	2	1	4	4	2
Number of HVT's	10	10	2	2	7	8	5	2	12	7	6

Strength, +/- 1.5 g/tex, Length, +/- 0.02, Length Uniformity, +/- 1.0, Micronaire, +/- 0.1, Rd, +/- 1.5 and +b, +/- 0.5.

A score of zero would be perfect and a value less than one would signify that the instrument is within tolerance.



Comparison CSITC/CCAA

Comparison CSITC 2011- 1 to 2013-4 vs. CCAA Check Tests 2013

	Rd Rank Avg	+b Rank Avg	Rd Avg	+b Avg
CCAA	0.36	0.45	78.8	7.6
CSITC	0.57	0.68	76.3	11.4
Diff	-0.21	-0.23	2.5	-3.8

Tolerances - 1.5 units Rd and .5 +b

As can be seen above +b on CSITC average is much higher than CCAA. We believe that freshly ginned samples should be used for CSITC trials. Freshly ginned samples from uniform bales should not make any difference to other property rankings but Rd & +b would improve. Maybe we can ask Australian industry to donate bales if required.

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Thank you

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