

CSITC Task Force Contributions

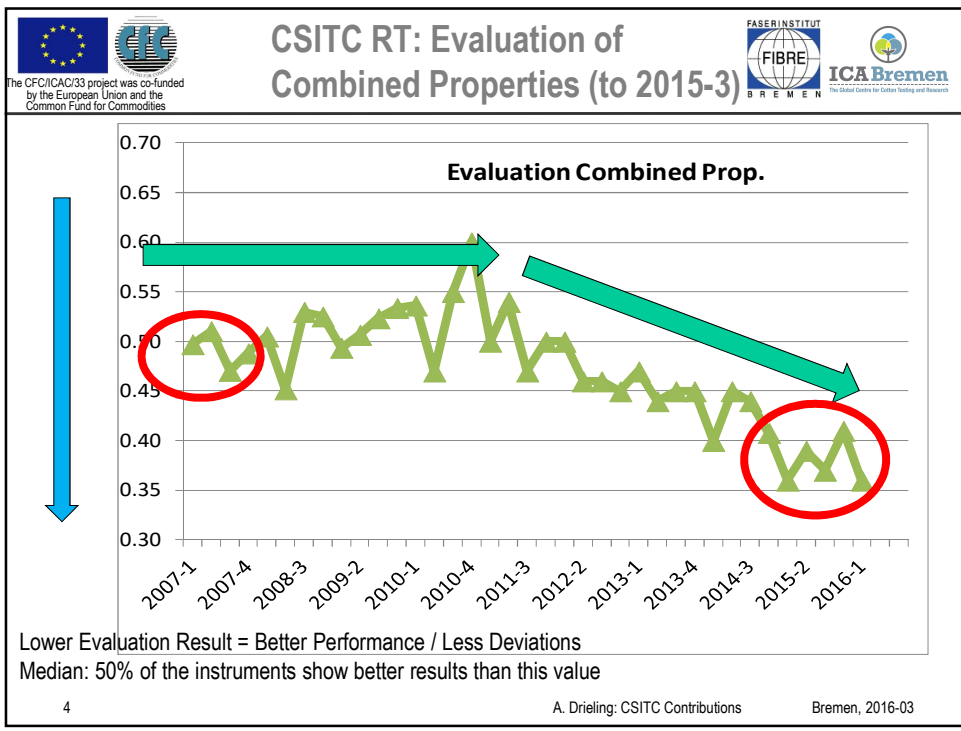
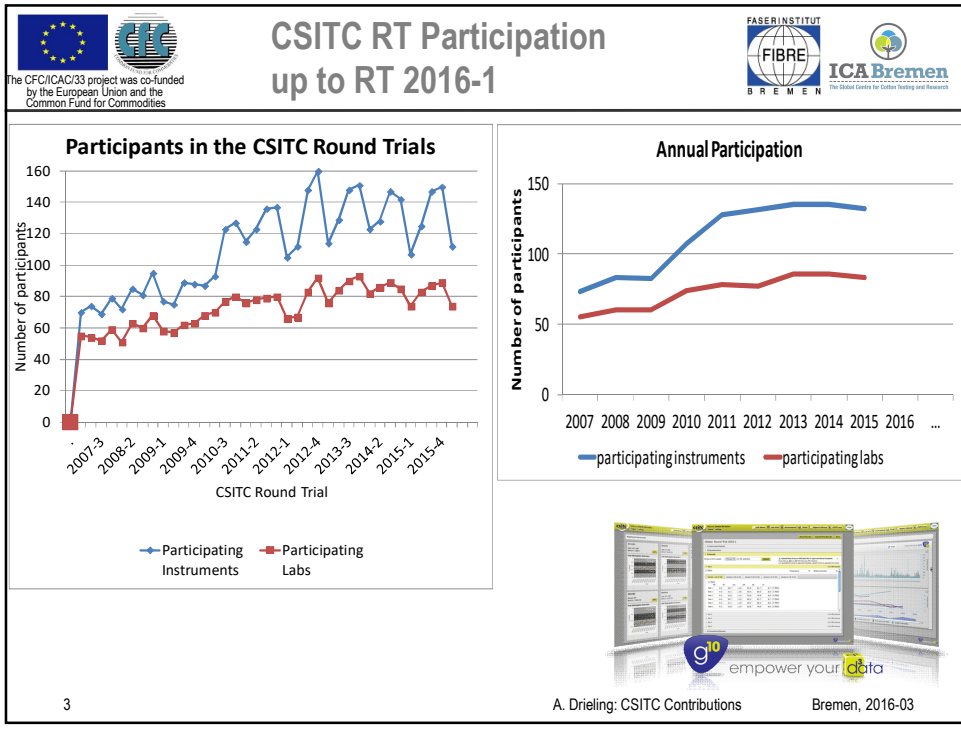
Axel Drieling
Bremen Fibre Institute (FIBRE) /
ICA Bremen



24th Meeting of the CSITC Task Force
Bremen, Germany, March 16, 2016



Report on CSITC RT Results



Evaluations for Each Property

	Number of Participants		Median Evaluations						
	Instruments	Labs	World: Median Evaluation Combined Prop.	Evaluation Micronal	Evaluation Strength	Evaluation Length	Evaluation Uniformi	Evaluation Color R	Evaluation Color +I
Scale Value				0.10	1.50	0.02	1.00	1.50	0.50
min	69	51	0.36	0.37	0.30	0.32	0.29	0.23	0.27
max	160	93	0.60	0.64	0.64	0.52	0.49	0.71	0.74
AV 2007-16	112.0	73.2	0.47	0.48	0.42	0.39	0.36	0.44	0.45
AV 2007-11	94.8	65.5	0.51	0.51	0.47	0.41	0.37	0.50	0.49
AV 2012-15	133.5	82.9	0.43	0.44	0.37	0.37	0.35	0.37	0.42
AV 2015	132.3	83.3	0.38	0.38	0.33	0.38	0.33	0.28	0.37
.	.	.	-25%	-25%	-30%	-9%	-11%	-44%	-23%
2015-1	107	74	0.36	0.37	0.32	0.38	0.33	0.34	0.30
2015-2	125	83	0.39	0.38	0.33	0.41	0.38	0.23	0.43
2015-3	147	87	0.37	0.37	0.30	0.36	0.32	0.31	0.34
2015-4	150	89	0.41	0.41	0.36	0.35	0.30	0.25	0.42
2016-1	112	74	0.36	0.39	0.35	0.33	0.31	0.25	0.29
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Trash Measurements in Instrument Evaluation



The CFCE/CAC/33 project was co-funded by the European Union and the Common Fund for Commodities

Instrument Evaluation – Evaluated Parameters



Performance of Instrument: GL163-001-01							
		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	3.195	31.025	1.0744	80.238	77.091	12.003
	Cotton 2	4.521	29.343	1.1073	81.333	74.802	7.426
	Cotton 3	4.203	33.180	1.2202	83.496	76.323	12.746
	Cotton 4	3.292	29.302	1.1207	81.383	71.226	14.186
Instrument Average of All Days	Cotton 1	3.170	31.030	1.0673	80.107	77.537	11.720
	Cotton 2	4.483	29.583	1.0973	80.847	75.003	7.163
	Cotton 3	4.160	33.093	1.2140	83.617	76.970	12.490
	Cotton 4	3.223	29.473	1.1213	81.327	71.937	14.187
Distance to Reference	Cotton 1	-0.025	0.005	-0.0070	-0.131	0.446	-0.283
	Cotton 2	-0.038	0.241	-0.0100	-0.487	0.202	-0.263
	Cotton 3	-0.043	-0.087	-0.0062	0.120	0.647	-0.256
	Cotton 4	-0.069	0.171	0.0006	-0.057	0.711	0.001
Mean Absolute Distance to Reference		0.044	0.126	0.0060	0.199	0.501	0.201
Scale Factor		0.10	1.50	0.02	1.00	1.50	0.50
Summary Evaluation for Each Property		0.44	0.08	0.30	0.20	0.33	0.40
Relevance of Property		1.00	1.00	1.00	1.00	1.00	1.00
Summary Evaluation of All Properties		0.29					

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Instrument Evaluation- Optional Parameters




Performance of Instrument: GL163-001-01					
		Maturity	SFI	Trash Count	Trash Area
Round Trial Average	Cotton 1	82.490	10.927	21.3254	0.176
	Cotton 2	86.680	9.832	17.6316	0.169
	Cotton 3	85.609	7.196	13.5892	0.118
	Cotton 4	82.994	9.474	18.7196	0.157
Instrument Average of All Days	Cotton 1	81.033	11.573	7.0000	0.250
	Cotton 2	84.967	11.200	7.4000	0.313
	Cotton 3	83.167	7.583	3.5000	0.203
	Cotton 4	82.000	9.923	5.4000	0.230
Distance to Round Trial Average	Cotton 1	-1.457	0.646	-14.3254	0.074
	Cotton 2	-1.714	1.368	-10.2316	0.145
	Cotton 3	-2.442	0.387	-10.0892	0.085
	Cotton 4	-0.994	0.449	-13.3196	0.073


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 Instrument Evaluation – Evaluated Parameters							
Performance of Instrument: GL163-001-01							
		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	3.195	31.025	1.0744	80.238	77.091	12.003
	Cotton 2	4.521	29.343	1.1073	81.333	74.802	7.426
	Cotton 3	4.203	33.180	1.2202	83.496	76.323	12.746
	Cotton 4	3.292	29.302	1.1207	81.383	71.226	14.186
Instrument Average of All Days	Cotton 1	3.170	31.030	1.0673	80.107	77.537	11.720
	Cotton 2	4.483	29.583	1.0973	80.847	75.003	7.163
	Cotton 3	4.160	33.093	1.2140	83.617	76.970	12.490
	Cotton 4	3.223	29.473	1.1213	81.327	71.937	14.187
Distance to Reference	Cotton 1	-0.025	0.005	-0.0070	-0.131	0.446	-0.283
	Cotton 2	-0.038	0.241	-0.0100	-0.487	0.202	-0.263
	Cotton 3	-0.043	-0.087	-0.0062	0.120	0.647	-0.256
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Scale Factor		0.10	1.50	0.02	1.00	1.50	0.50
Summary Evaluation for Each Property		0.44	0.08	0.30	0.20	0.33	0.40
Relevance of Property		1.00	1.00	1.00	1.00	1.00	1.00
Summary Evaluation of All Properties		0.29					

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 Lab Evaluation Based on Trash USDA	
<p>Reproducibility tolerances used at USDA</p> <ul style="list-style-type: none"> • Particle Count Tolerance = Particle Count * 0.22 + 3.2 • Percent Area Tolerance = Percent Area * 0.235 + 0.031 	
<p>Proposed by CSITC Task Force in Mumbai 2015 for adapting evaluation results to other parameters</p> <ul style="list-style-type: none"> • Particle Count Tolerance = 1.5 x USDA = Particle Count * 0.33 + 4.8 • Percent Area Tolerance = 1.5 x USDA = Percent Area * 0.3525 + 0.0465 	

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Proposal for Evaluation Table

Performance of Instrument: GL163-001-01					
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Distance to Round Trial Average	Cotton 1	-1.457	0.646	-14.3254	0.074
	Cotton 2	-1.714	1.368	-10.2316	0.145
	Cotton 3	-2.442	0.387	-10.0892	0.085
	Cotton 4	-0.994	0.449	-13.3196	0.073
Scale Values	Cotton 1			11.84	0.1085
	Cotton 2			10.62	0.1060
	Cotton 3			9.28	0.0881
	Cotton 4			10.98	0.1020
Evaluation by property and sample	Cotton 1			1.2102	0.6834
	Cotton 2			0.9636	1.3649
	Cotton 3			1.0867	0.9680
	Cotton 4			1.2134	0.7114
Summary Evaluation for Each Property				1.12	0.93
Summary Evaluation for all Properties		These parameters are not included			

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