



International Cotton Advisory Committee



CSITC Global - Round Trial 2016 - 2 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section One: Result Distribution

Content:

Mandatory Parameters

- Summary Table
- Distribution Graphs

Optional Parameters

- Summary Table
- Distribution Graphs

Executed By:

Faserinstitut Bremen e.V., Bremen, Germany*

USDA-AMS, Memphis, TN, USA

System Provided by:

Generation 10 Limited



This report is an outcome of the Project CFC/ICAC/33 – CSITC, which benefitted from support from the Common Fund for Commodities and the European Union, partners in Commodity Development.



* Faserinstitut Bremen are a Cooperation Partner with ICA Bremen

Global - Round Trial 2016 - 2

Inter-Instrument Averages, Inter-Instrument Variations, Typical within-instrument Variations

Micronaire							
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	
Average of Instruments (Grubbs)		3.992	3.672	4.577	3.604		
Reference Values for Evaluation		3.992	3.672	4.577	3.604		
Number Of Instruments		115	115	115	115	115	
Inter-Instrument Variation	SD	0.055	0.064	0.045	0.066	0.058	
	based on 30 tests	CV %	1.4	1.7	1.0	1.8	1.5
	SD	0.060	0.071	0.051	0.070	0.063	
	based on 6 tests	CV %	1.5	1.9	1.1	1.9	1.6
Typical within-instrument Variation (Median)	SD	0.070	0.086	0.064	0.079	0.075	
	based on single tests	CV %	1.8	2.3	1.4	2.2	1.9
	between different days with each 6 tests	SD	0.025	0.025	0.022	0.025	0.024
	CV %	0.6	0.7	0.5	0.7	0.6	
	between single tests on one day	SD	0.034	0.039	0.034	0.034	0.035
	CV %	0.8	1.0	0.8	1.0	0.9	
	between all tests on different days	SD	0.041	0.047	0.041	0.043	0.043
	CV %	1.0	1.3	0.9	1.2	1.1	

Strength							
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	
Average of Instruments (Grubbs)		33.865	22.401	26.915	26.196		
Reference Values for Evaluation		33.865	22.401	26.915	26.196		
Number Of Instruments		114	114	113	113	114	
Inter-Instrument Variation	SD	0.765	0.618	0.576	0.702	0.665	
	based on 30 tests	CV %	2.3	2.8	2.1	2.7	2.5
	SD	0.885	0.699	0.665	0.765	0.753	
	based on 6 tests	CV %	2.6	3.1	2.5	2.9	2.8
Typical within-instrument Variation (Median)	SD	1.016	0.878	0.803	0.926	0.906	
	based on single tests	CV %	3.0	3.9	3.0	3.5	3.4
	between different days with each 6 tests	SD	0.361	0.315	0.277	0.295	0.312
	CV %	1.1	1.4	1.0	1.1	1.2	
	between single tests on one day	SD	0.564	0.547	0.472	0.542	0.531
	CV %	1.7	2.4	1.8	2.1	2.0	
	between all tests on different days	SD	0.658	0.609	0.542	0.614	0.606
	CV %	1.9	2.7	2.0	2.3	2.3	

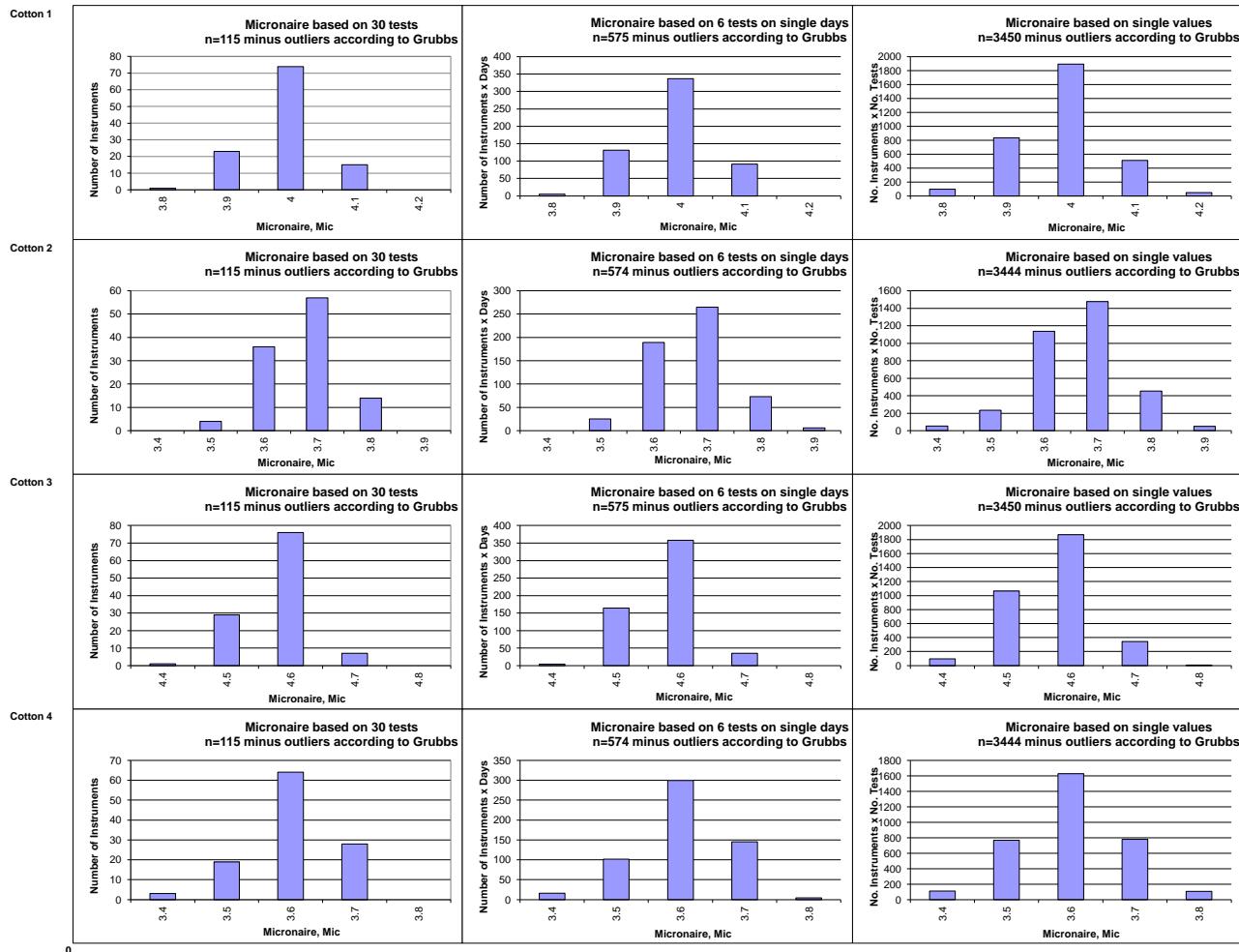
Length							
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	
Average of Instruments (Grubbs)		1.1884	0.9783	1.0311	1.0869		
Reference Values for Evaluation		1.1884	0.9783	1.0311	1.0869		
Number Of Instruments		115	115	115	115	115	
Inter-Instrument Variation	SD	0.0097	0.0121	0.0128	0.0114	0.0115	
	based on 30 tests	CV %	0.8	1.2	1.2	1.0	1.1
	SD	0.0107	0.0135	0.0148	0.0128	0.0130	
	based on 6 tests	CV %	0.9	1.4	1.4	1.2	1.2
Typical within-instrument Variation (Median)	SD	0.0142	0.0168	0.0167	0.0164	0.0160	
	based on single tests	CV %	1.2	1.7	1.6	1.5	1.5
	between different days with each 6 tests	SD	0.0050	0.0060	0.0055	0.0054	0.0055
	CV %	0.4	0.6	0.5	0.5	0.5	
	between single tests on one day	SD	0.0096	0.0108	0.0092	0.0112	0.0102
	CV %	0.8	1.1	0.9	1.0	1.0	
	between all tests on different days	SD	0.0105	0.0122	0.0107	0.0123	0.0114
	CV %	0.9	1.2	1.0	1.1	1.1	

Uniformity						
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)		84.087	77.809	80.443	79.805	
Reference Values for Evaluation		84.087	77.809	80.443	79.805	
Number Of Instruments		114	114	114	114	114
Inter-Instrument Variation	SD	0.351	0.480	0.474	0.730	0.509
	based on 30 tests	CV %	0.4	0.6	0.6	0.9 0.6
	SD	0.466	0.579	0.580	0.793	0.605
	based on 6 tests	CV %	0.6	0.7	0.7	1.0 0.8
Typical within-instrument Variation (Median)	SD	0.626	0.851	0.756	0.969	0.800
	based on single tests	CV %	0.7	1.1	0.9	1.2 1.0
	between different days	SD	0.244	0.310	0.287	0.286 0.282
	with each 6 tests	CV %	0.3	0.4	0.4	0.4 0.4
	SD	0.449	0.591	0.518	0.580	0.535
	between single tests on one day	CV %	0.5	0.8	0.6	0.7 0.7
	SD	0.522	0.660	0.585	0.663	0.607
	between all tests on different days	CV %	0.6	0.8	0.7	0.8 0.8

Color Rd						
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)		75.705	76.761	77.456	73.790	
Reference Values for Evaluation		75.705	76.761	77.456	73.790	
Number Of Instruments		113	113	113	113	113
Inter-Instrument Variation	SD	0.608	0.547	0.509	0.565	0.557
	based on 30 tests	CV %	0.8	0.7	0.7	0.8 0.7
	SD	0.621	0.580	0.521	0.566	0.572
	based on 6 tests	CV %	0.8	0.8	0.7	0.8 0.8
Typical within-instrument Variation (Median)	SD	0.653	0.624	0.556	0.707	0.635
	based on single tests	CV %	0.9	0.8	0.7	1.0 0.8
	between different days	SD	0.136	0.218	0.153	0.163 0.168
	with each 6 tests	CV %	0.2	0.3	0.2	0.2 0.2
	SD	0.159	0.208	0.162	0.158	0.172
	between single tests on one day	CV %	0.2	0.3	0.2	0.2 0.2
	SD	0.241	0.318	0.240	0.237	0.259
	between all tests on different days	CV %	0.3	0.4	0.3	0.3 0.3

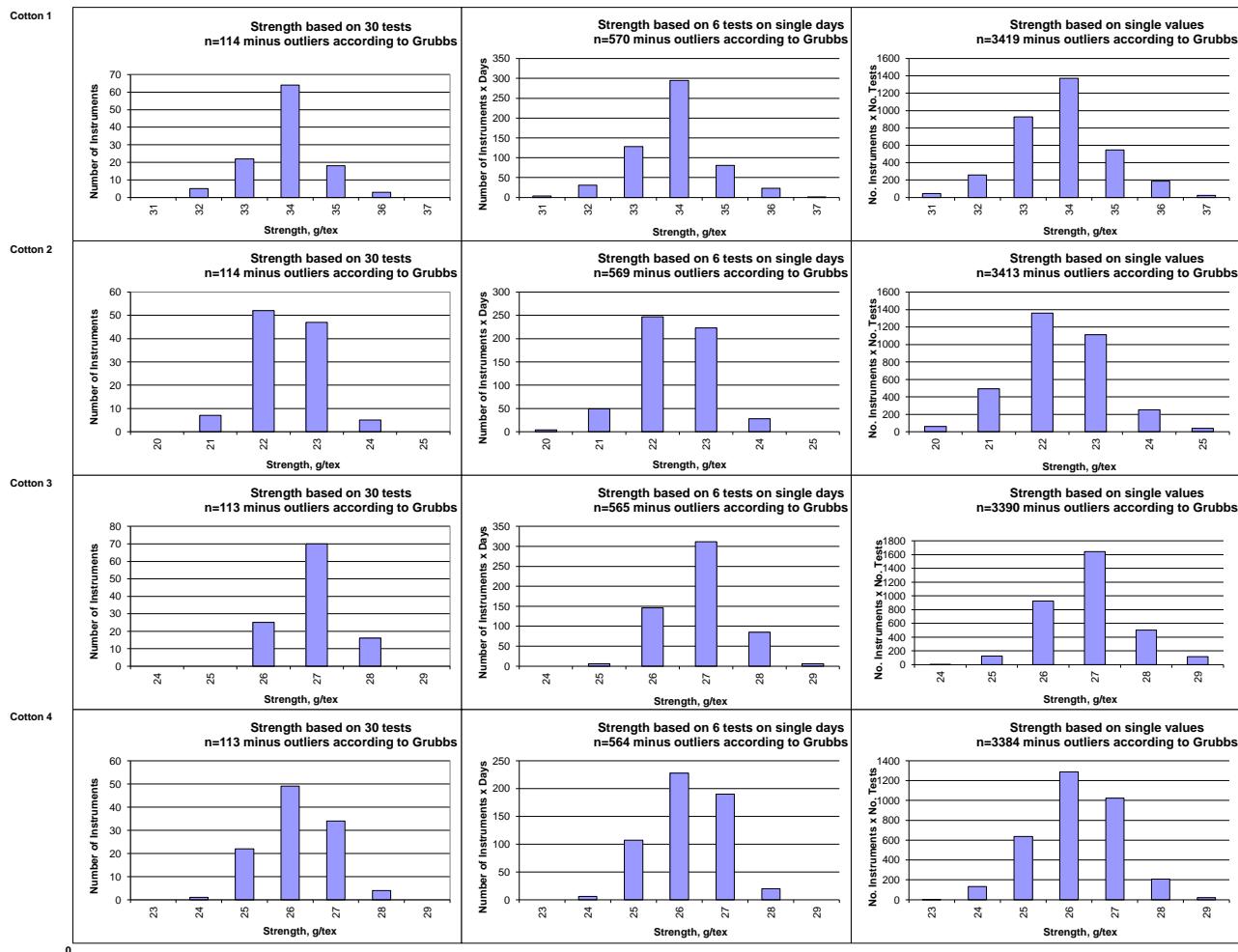
Color +b						
		Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)		12.931	9.066	8.619	15.605	
Reference Values for Evaluation		12.931	9.066	8.619	15.605	
Number Of Instruments		113	113	113	113	113
Inter-Instrument Variation	SD	0.312	0.195	0.177	0.379	0.266
	based on 30 tests	CV %	2.4	2.1	2.1	2.4 2.3
	SD	0.340	0.222	0.189	0.406	0.289
	based on 6 tests	CV %	2.6	2.4	2.2	2.6 2.5
Typical within-instrument Variation (Median)	SD	0.360	0.257	0.227	0.416	0.315
	based on single tests	CV %	2.8	2.8	2.6	2.7 2.7
	between different days	SD	0.104	0.095	0.087	0.108 0.098
	with each 6 tests	CV %	0.8	1.0	1.0	0.7 0.9
	SD	0.121	0.100	0.085	0.118	0.106
	between single tests on one day	CV %	0.9	1.1	1.0	0.8 0.9
	SD	0.174	0.142	0.117	0.171	0.151
	between all tests on different days	CV %	1.3	1.6	1.4	1.1 1.3

Test Result Distributions
Micronaire



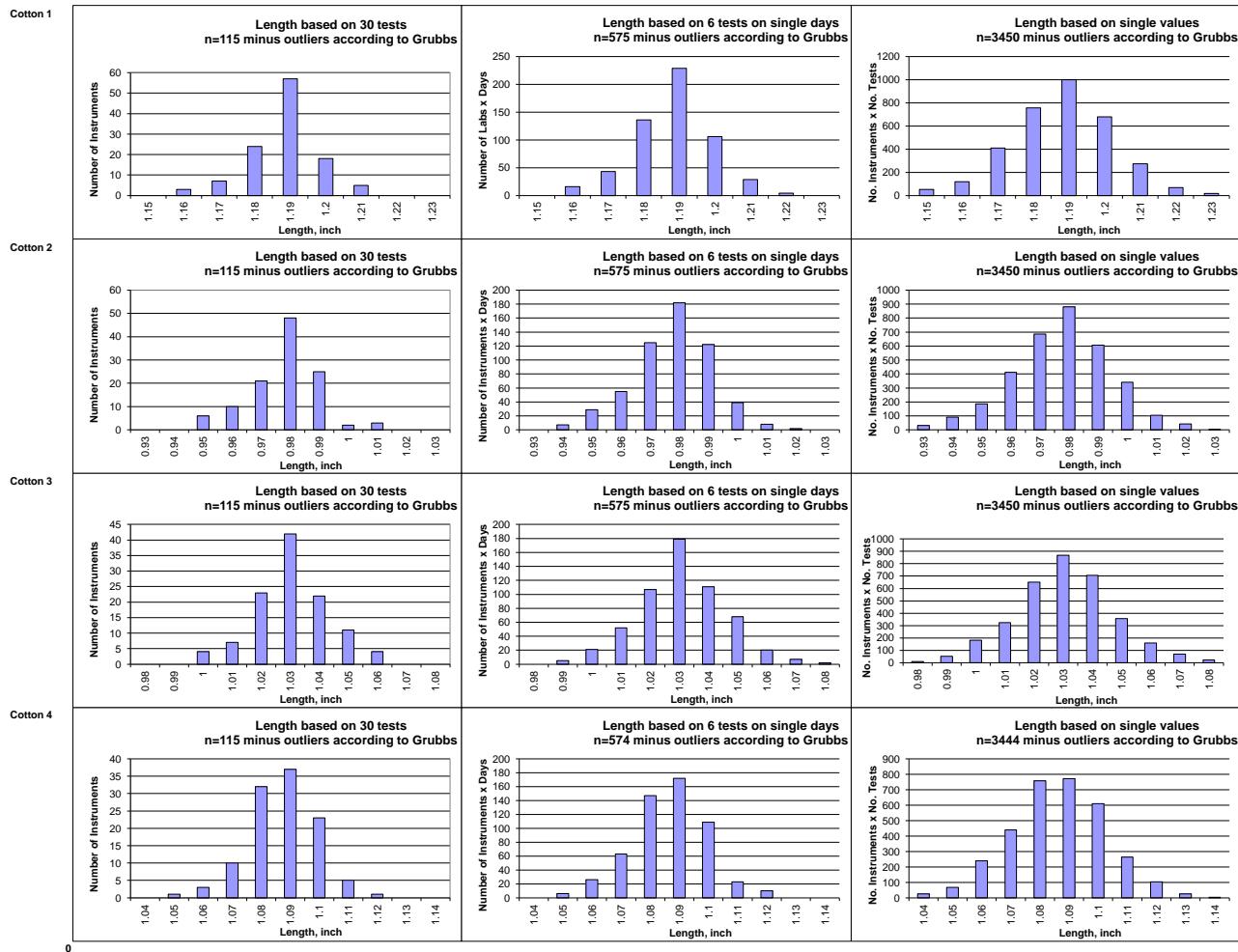
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(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



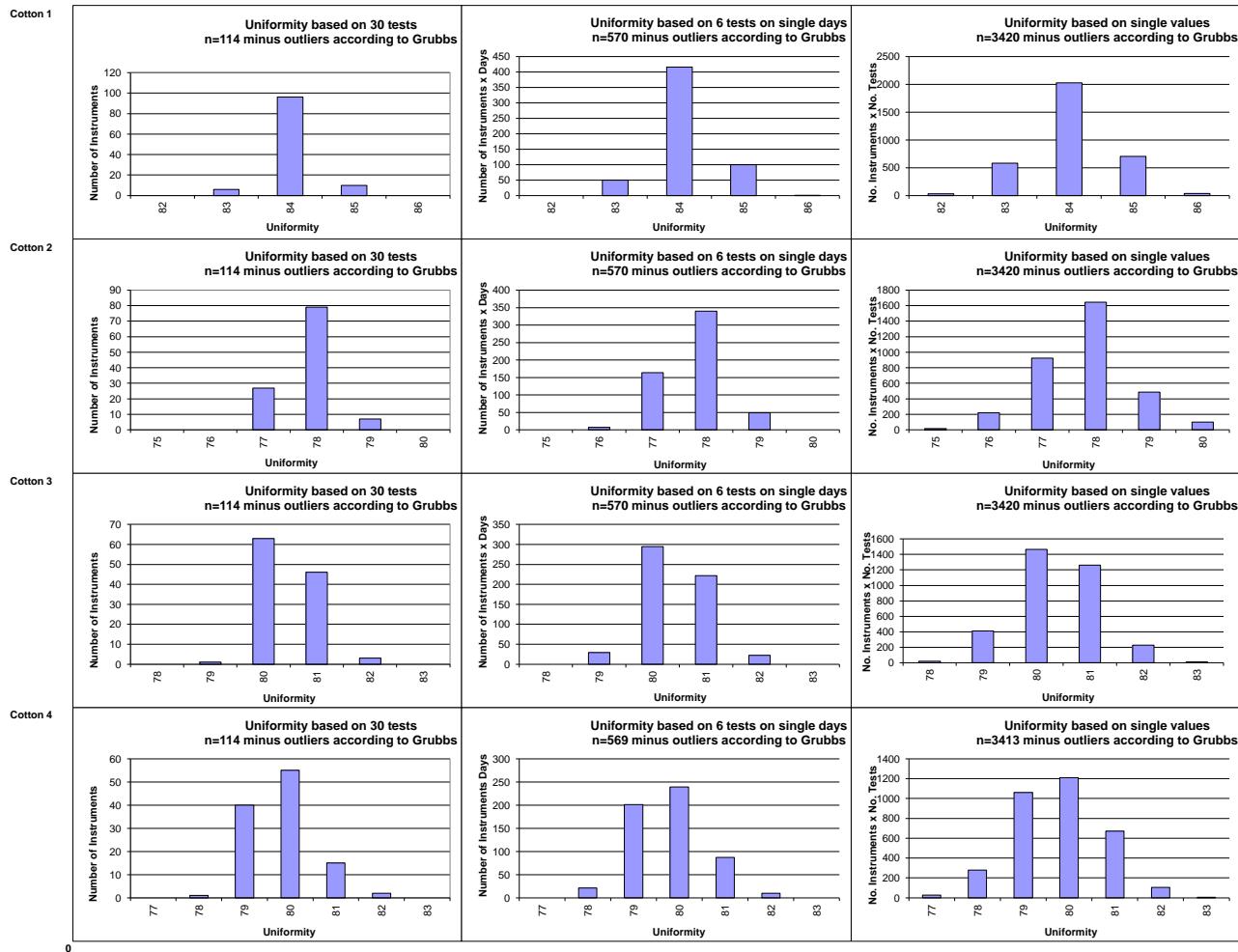
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Test Result Distributions
Length



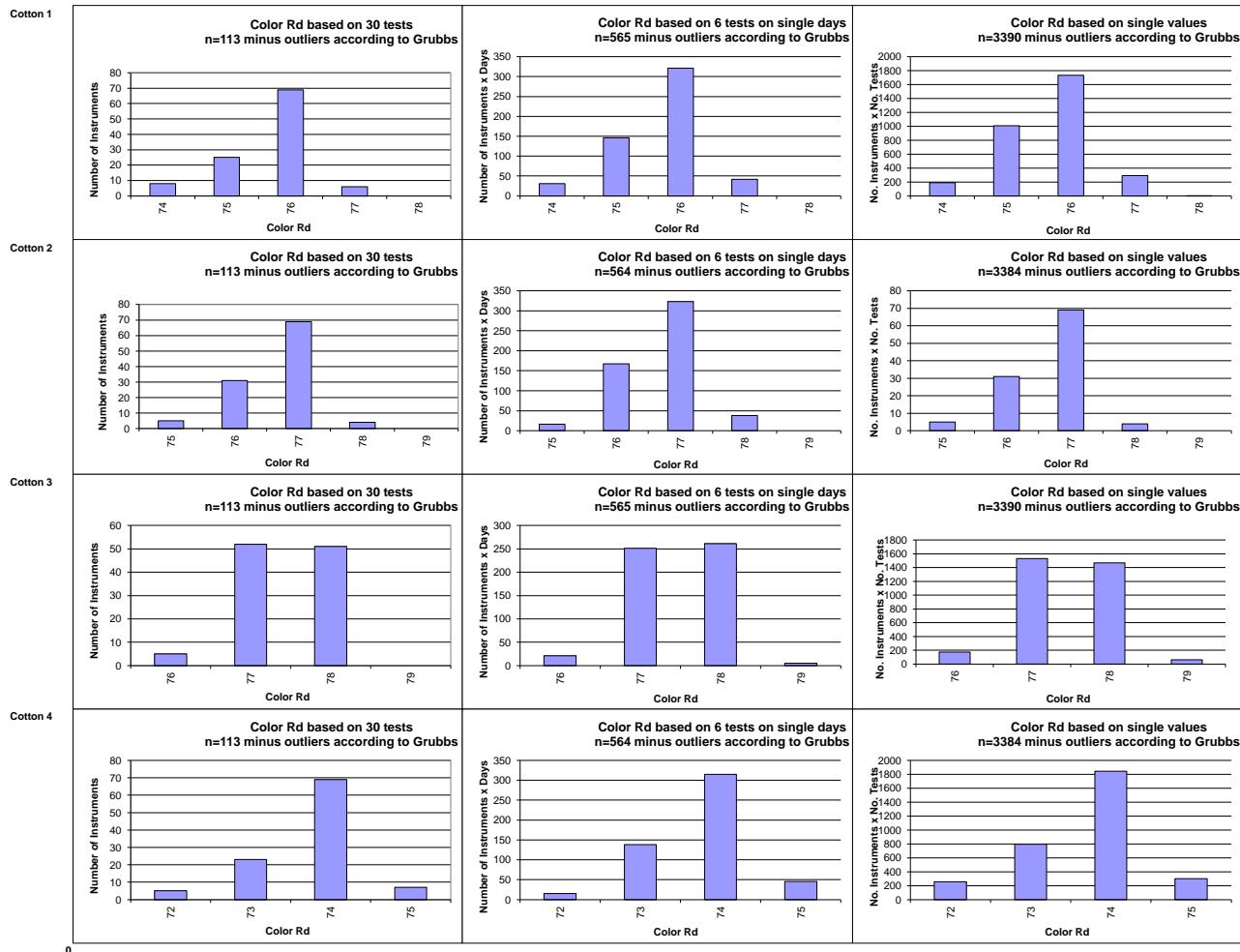
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Test Result Distributions
Uniformity



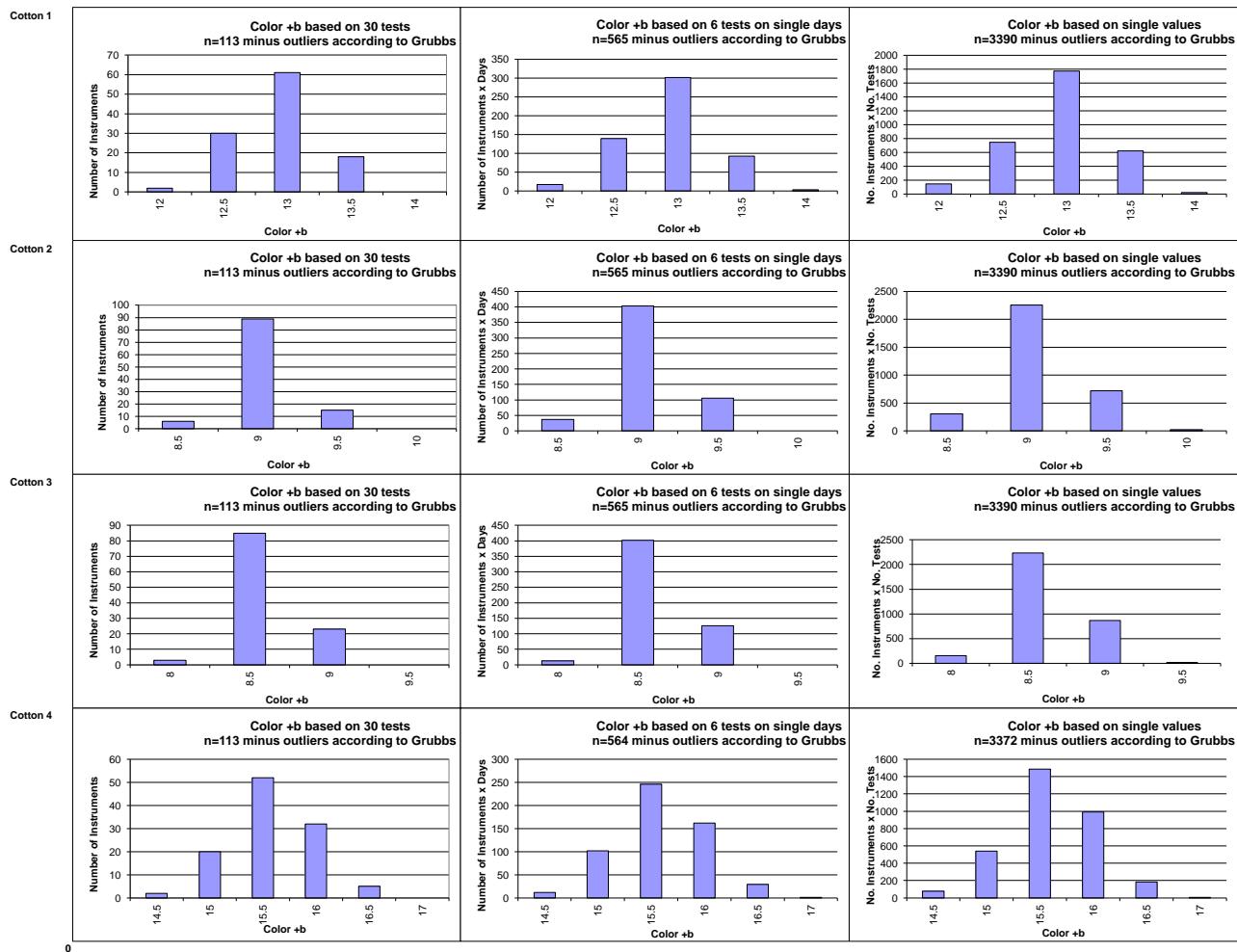
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(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color Rd



(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color +b



(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Optional Parameters

Inter-Instrument Averages, Inter-Instrument Variations, Typical within-instrument Variations

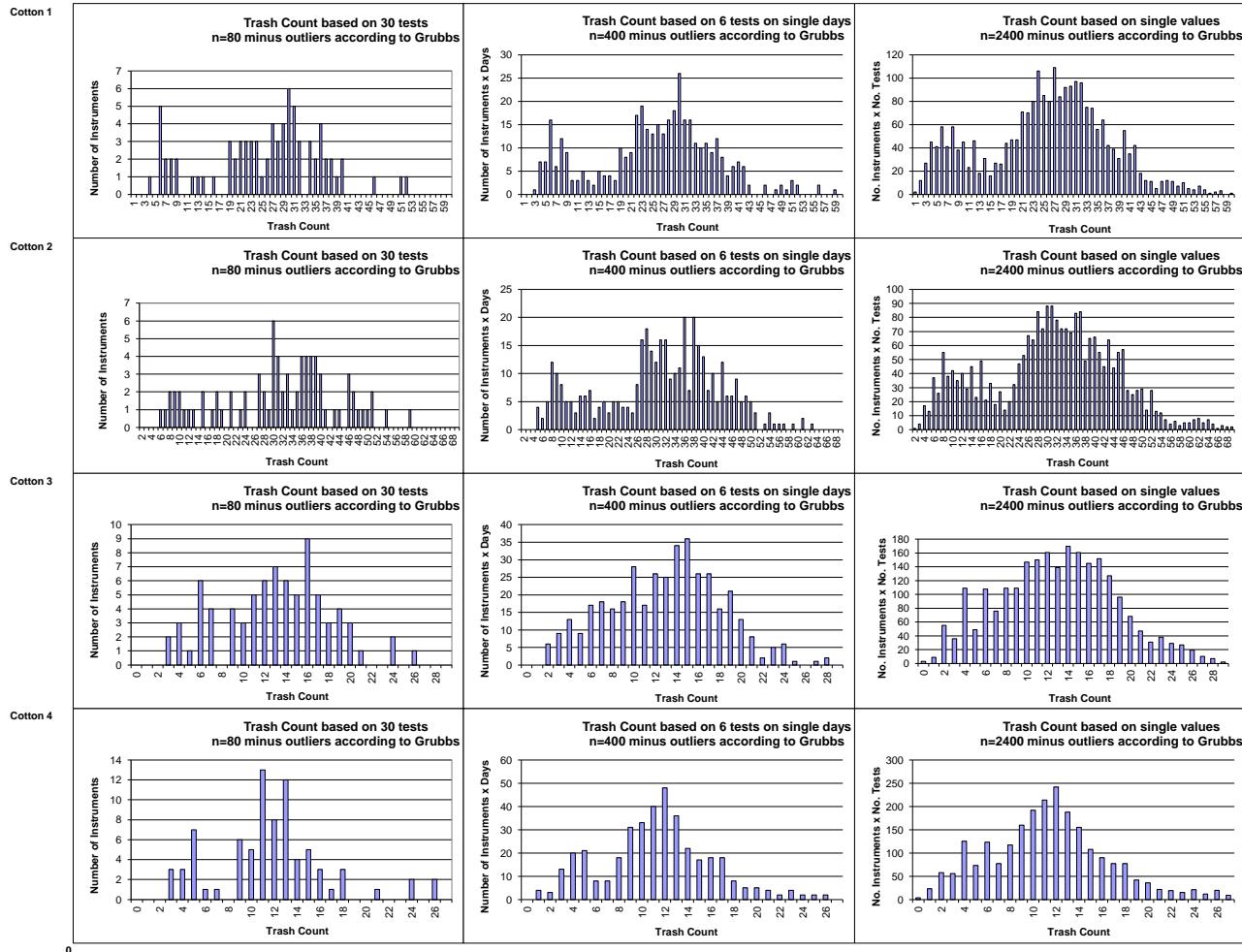
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			25.68	31.18	13.03	11.77	
Reference Values for Evaluation			25.68	31.18	13.03	11.77	
Number Of Instruments			80	80	80	80	80
Inter-Instrument Variation	SD	10.87	12.56	5.07	5.02	8.38	
	based on 30 tests	CV %	42.3	40.3	38.9	42.6	41.0
	SD	11.18	12.60	5.27	4.81	8.46	
	based on 6 tests	CV %	43.5	40.4	40.5	40.8	41.3
Typical within-instrument Variation (Median)	SD	11.53	13.33	5.68	5.20	8.93	
	based on single tests	CV %	44.9	42.7	43.6	44.2	43.8
	between different days with each 6 tests	SD	1.97	2.22	1.54	1.43	1.79
		CV %	7.7	7.1	11.8	12.1	9.7
	between single tests on one day	SD	2.80	2.96	1.73	1.69	2.29
		CV %	10.9	9.5	13.2	14.4	12.0
	between all tests on different days	SD	3.75	4.12	2.62	2.38	3.22
		CV %	14.6	13.2	20.1	20.2	17.0

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.192	0.271	0.144	0.117	
Reference Values for Evaluation			0.192	0.271	0.144	0.117	
Number Of Instruments			80	80	80	80	80
Inter-Instrument Variation	SD	0.058	0.081	0.044	0.033	0.054	
	based on 30 tests	CV %	30.5	29.8	30.3	28.4	29.7
	SD	0.064	0.081	0.048	0.038	0.058	
	based on 6 tests	CV %	33.3	29.8	33.4	32.8	32.3
Typical within-instrument Variation (Median)	SD	0.067	0.094	0.056	0.042	0.065	
	based on single tests	CV %	35.0	34.8	39.1	36.4	36.3
	between different days with each 6 tests	SD	0.021	0.033	0.019	0.018	0.023
		CV %	11.0	12.2	12.9	15.8	13.0
	between single tests on one day	SD	0.028	0.039	0.029	0.022	0.030
		CV %	14.7	14.5	20.0	18.7	17.0
	between all tests on different days	SD	0.040	0.057	0.038	0.032	0.042
		CV %	20.8	21.1	26.6	27.2	23.9

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			85.02	83.67	86.56	82.79	
Reference Values for Evaluation			85.02	83.67	86.56	82.79	
Number Of Instruments			85	85	85	85	85
Inter-Instrument Variation	SD	2.06	2.75	1.52	2.22	2.14	
	based on 30 tests	CV %	2.4	3.3	1.8	2.7	2.5
	SD	2.12	2.75	1.55	0.91	1.83	
	based on 6 tests	CV %	2.5	3.3	1.8	1.1	2.2
Typical within-instrument Variation (Median)	SD	2.06	2.77	1.58	1.17	1.89	
	based on single tests	CV %	2.4	3.3	1.8	1.4	2.2
	between different days with each 6 tests	SD	0.17	0.15	0.15	0.22	0.17
		CV %	0.2	0.2	0.2	0.3	0.2
	between single tests on one day	SD	0.24	0.21	0.19	0.27	0.23
		CV %	0.3	0.3	0.2	0.3	0.3
	between all tests on different days	SD	0.41	0.38	0.35	0.45	0.40
		CV %	0.5	0.5	0.4	0.5	0.5

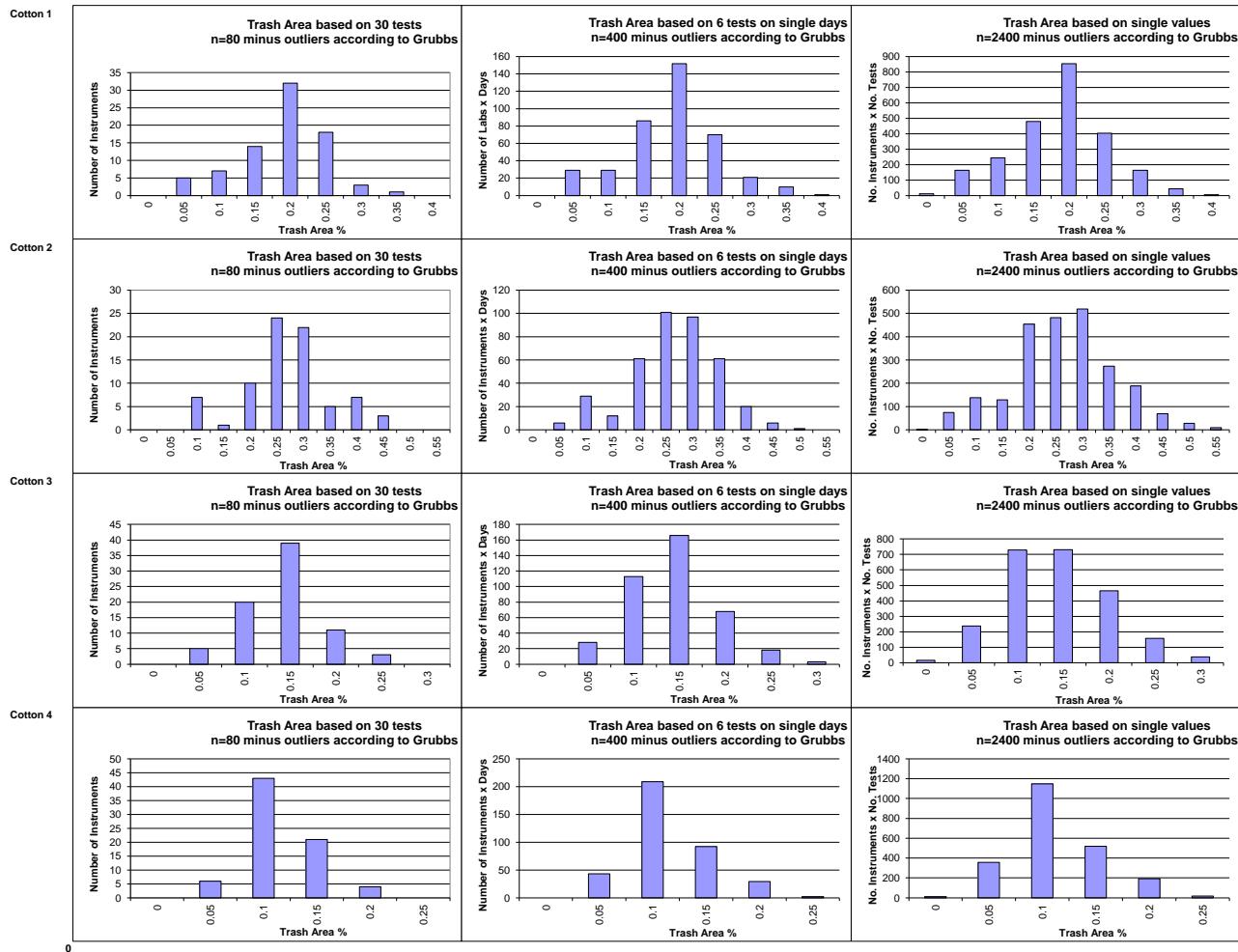
SFI							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			7.42	15.43	11.45	11.83	
Reference Values for Evaluation			7.42	15.43	11.45	11.83	
Number Of Instruments			91	92	92	92	92
Inter-Instrument Variation		SD	0.47	1.88	1.03	1.18	1.14
	based on 30 tests	CV %	6.4	12.2	9.0	10.0	9.4
		SD	0.51	1.96	1.15	1.24	1.22
	based on 6 tests	CV %	6.8	12.7	10.1	10.5	10.0
Typical within-instrument Variation (Median)		SD	0.58	2.10	1.30	1.37	1.34
	based on single tests	CV %	7.8	13.6	11.3	11.6	11.1
	between different days	SD	0.15	0.43	0.33	0.35	0.32
	with each 6 tests	CV %	2.0	2.8	2.9	3.0	2.7
	between single tests on one day	SD	0.29	0.75	0.57	0.55	0.54
		CV %	3.9	4.8	5.0	4.6	4.6
	between all tests on different days	SD	0.33	0.82	0.64	0.66	0.61
		CV %	4.4	5.3	5.6	5.5	5.2

Test Result Distributions
Trash Count



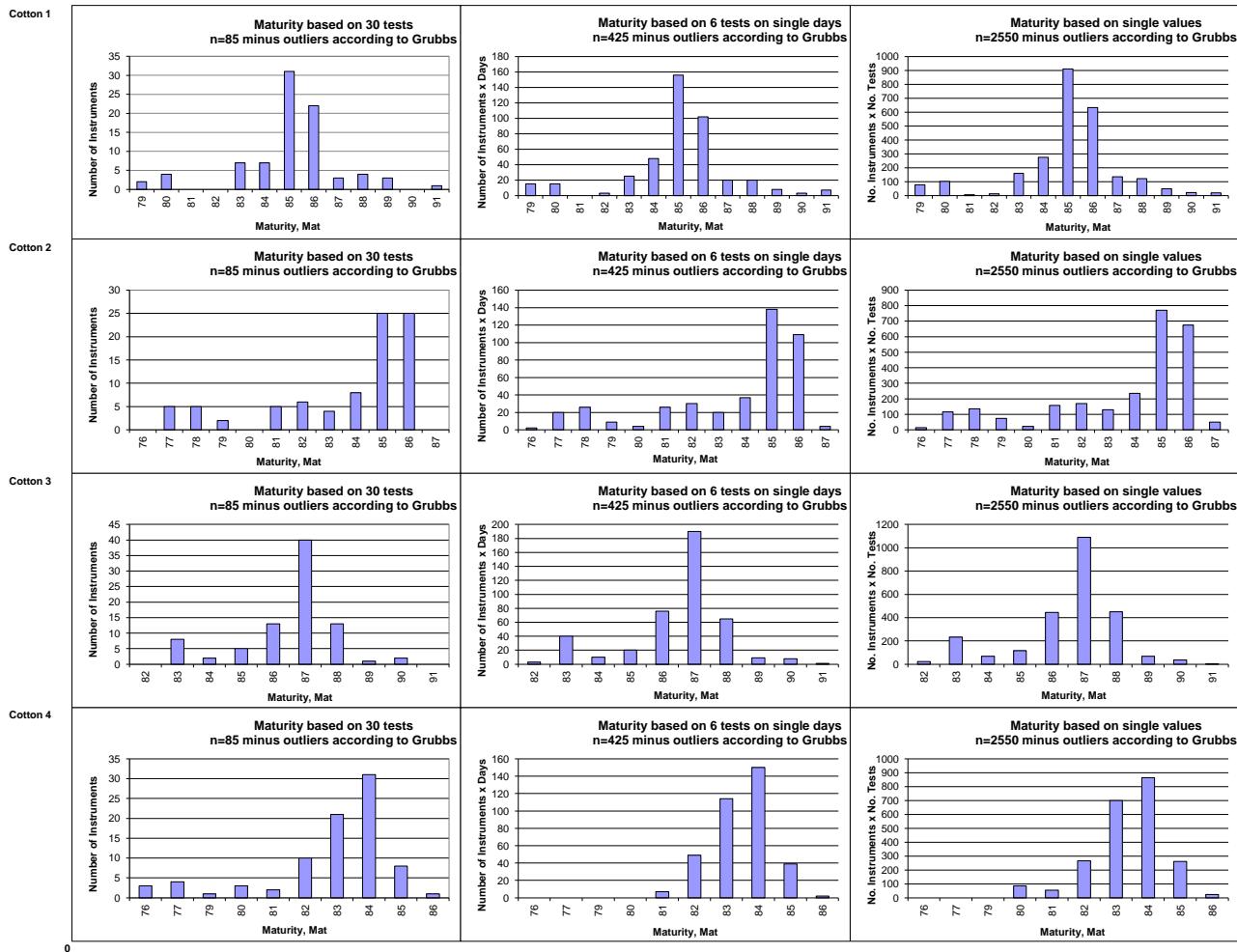
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Trash Area



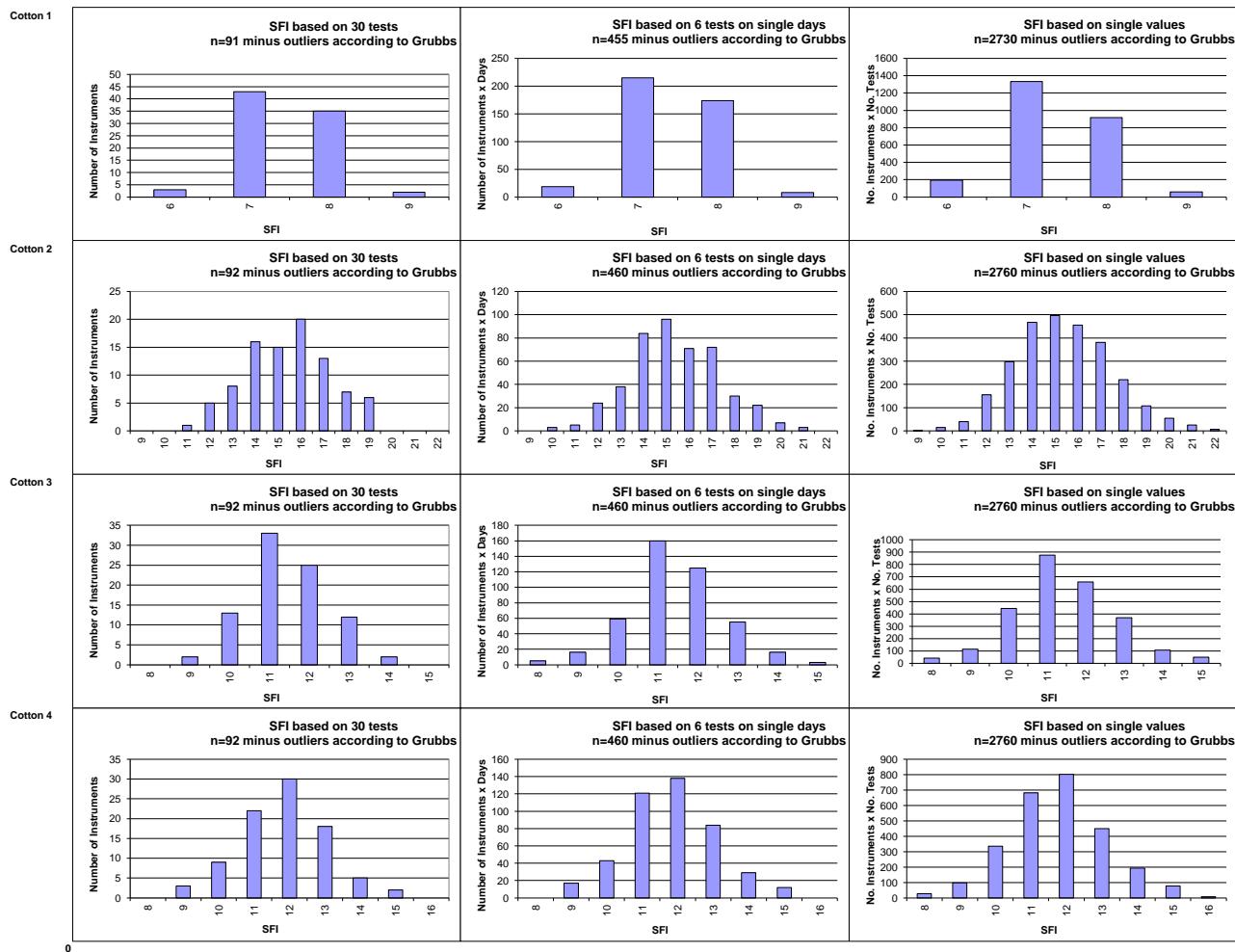
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Maturity



(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
SFI



(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)



International Cotton Advisory Committee



CSITC Global - Round Trial 2016 - 2 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section Two: Instrument Evaluation

Content:

- Evaluation of Combined Parameters
- Evaluation of Single Parameters

Executed By:

Faserinstitut Bremen e.V., Bremen, Germany*

USDA-AMS, Memphis, TN, USA

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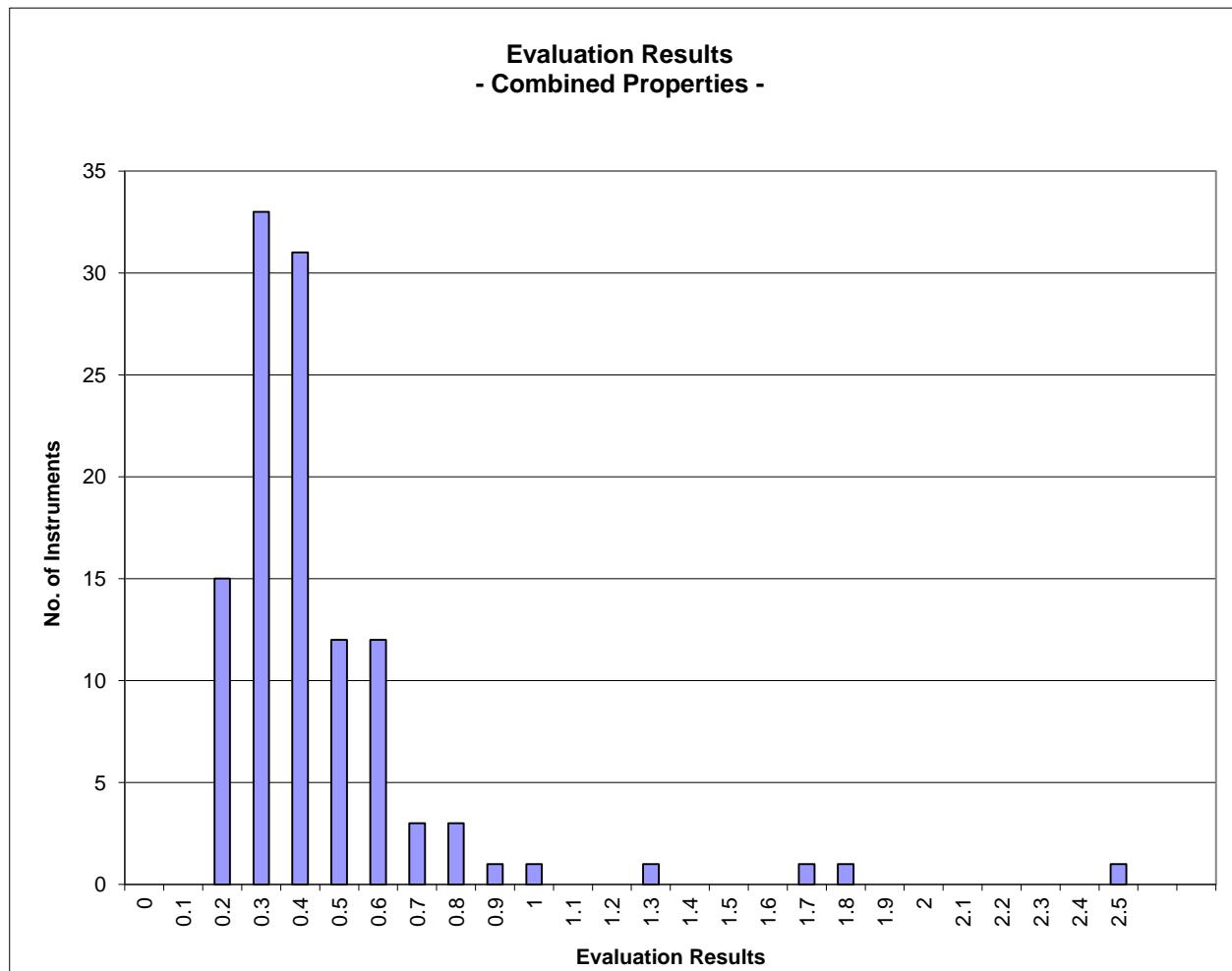
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Instrument Evaluation**- Graph of Combined Properties -**

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2016 - 2

		Evaluation Combined Prop.
Statistics	Average	0.45
	Median	0.36
	Best Instrument	0.20
	Worst Instrument	2.48



x-Axis shows midpoints of classes

The evaluation results are entered based on the unrounded values
(classes are defined as > lower limit and <= upper limit)

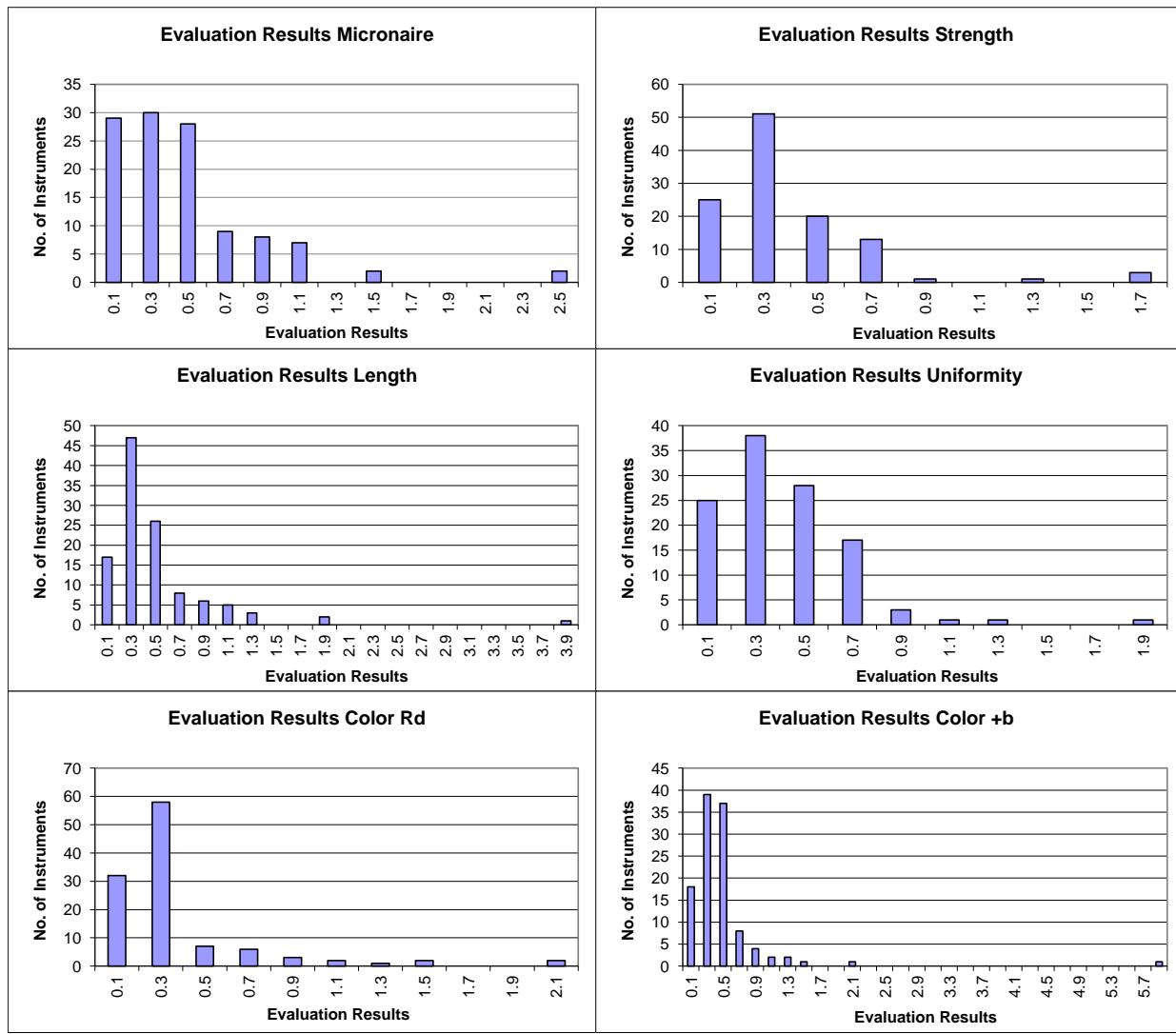
Instrument Evaluation

- Graph of Single Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2016 - 2

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics							
Average	0.49	0.38	0.49	0.42	0.37	0.49	
Median	0.38	0.30	0.37	0.38	0.25	0.40	
Best Instr.	0.05	0.07	0.04	0.07	0.07	0.05	
Worst Instr.	2.52	1.77	3.83	1.93	2.13	5.84	



x-Axis shows midpoints of classes

The evaluation results are entered based on the unrounded values



International Cotton Advisory Committee



CSITC Global - Round Trial 2016 - 2 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section Three: Within Limits Evaluation

Content:

- Based on Average of 30 Test Results
- Based on Single Test Results

Executed By:

Faserinstitut Bremen e.V., Bremen, Germany*

USDA-AMS, Memphis, TN, USA

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Within Limits Evaluation

Based on average of 30 test results for each sample

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20 units	2.0 g/tex	0.030 inch	2.0 %	1.5 units	0.5 units
Average % Results within Limits	98.0	96.7	97.4	99.1	93.1	89.4
Completely within limits	96.5	92.1	93.0	97.4	87.6	73.5
% of Instruments ≥75% within limits	98.3	97.4	98.3	99.1	92.9	90.3
% of Instruments ≥50% within limits	98.3	98.2	99.1	100.0	95.6	95.6

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL162-001-01	100	100	100	100	100	75
GL162-002-01	100	100	100	100	100	75
GL162-003-01	100	100	100	100	100	75
GL162-003-03	100	100	100	100	100	75
GL162-004-01	100	100	75	100	100	50
GL162-005-04	100	100	100	100	100	100
GL162-005-06	100	100	100	100	100	100
GL162-006-03	25	50	100	100	75	25
GL162-007-18	100	100	100	100	100	100
GL162-007-20	100	100	100	100	100	100
GL162-009-01	100	100	100	100	100	100
GL162-010-01	100	100	100	100	100	100
GL162-011-01	100	100	100	100	100	100
GL162-014-01	100	100	75	100	100	75
GL162-014-02	100	100	100	100	75	100
GL162-014-05	100	100	100	100	100	100
GL162-014-07	100	100	100	100	100	100
GL162-015-01	100	100	100	100	100	75
GL162-016-01	100	100	100	100	100	100
GL162-017-01	0	100	100	100	50	100
GL162-018-02	100	75	100	100	100	100
GL162-018-03	100	100	100	100	100	100
GL162-020-01	100	100	100	100	100	100
GL162-021-02	100	100	100	100	100	100
GL162-022-01	100	75	100	100	100	50
GL162-024-02	100	100	100	100	100	100
GL162-025-01	100	100	100	100	100	100
GL162-026-01	100	100	100	100	100	100
GL162-028-01	100	100	75	100	50	100
GL162-029-01	100	100	100	100	100	100
GL162-029-04	100	100	100	100	100	100
GL162-029-05	100	100	100	100	100	100
GL162-031-03	100	100	100	100	100	100
GL162-031-07	100	100	75	100	100	50

GL162-031-08	100	100	100	100	100	100
GL162-031-09	100	100	100	100	100	100
GL162-031-10	100	100	100	100	100	100
GL162-031-11	100	100	100	100	100	100
GL162-031-12	100	100	100	100	100	100
GL162-031-13	100	100	100	100	100	100
GL162-031-14	100	100	100	100	100	100
GL162-032-01	100	100	100	100	100	100
GL162-032-02	100	100	100	100	100	100
GL162-033-01	100	100	100	100	100	100
GL162-035-01	100	100	100	100	100	100
GL162-037-01	100	100	100	100	100	100
GL162-037-02	100	100	100	100	100	100
GL162-038-01	100	75	100	100	100	100
GL162-039-02	100	100	100	75	100	100
GL162-041-01	100	100	100	100	100	75
GL162-043-01	100	100	100	100	25	50
GL162-043-02	100	100	100	100	100	100
GL162-043-03	100	100	100	100	100	100
GL162-045-01	100	100	100	100	100	100
GL162-047-01	100	100	100	100	100	100
GL162-047-02	100	100	100	100	100	100
GL162-048-01	100	100	75	100	0	0
GL162-050-01	100	100	100	100	100	100
GL162-050-02	100	100	100	100	100	75
GL162-050-03	100	100	100	100	100	75
GL162-050-04	100	100	100	100	100	100
GL162-051-01	100	100	100	100	100	100
GL162-052-01	100	75	100	100	50	100
GL162-054-01	100	100	100	100	100	100
GL162-056-01	100	100	100	100	100	100
GL162-060-01	100	100	100	100	75	0
GL162-062-01	100	100	100	100	100	100
GL162-063-01	100	100	100	100	100	100
GL162-065-01	100	75	75	100	0	100
GL162-067-01	100	100	100	100	100	75
GL162-068-04	100	100	100	100	100	100
GL162-069-06	100	100	100	100	100	75
GL162-070-04	75		0			
GL162-071-01	100	100	100	100	100	100
GL162-072-03	100	100	100	100	100	100
GL162-073-02	100	100	100	100	100	75
GL162-074-03	100	100	100	100	100	75
GL162-075-01	100	100	100	100	100	100
GL162-075-02	100	100	100	100	100	100
GL162-076-01	100	100	100	100	100	100
GL162-076-02	100	100	100	100	100	100
GL162-076-03	100	100	100	100	100	100
GL162-076-04	100	100	100	100	100	100
GL162-077-01	100	100	100	100	100	75
GL162-077-02	100	100	100	100	100	100
GL162-078-01	100	100	100	100	100	75
GL162-078-02	100	100	100	100	100	100
GL162-079-01	100	100	100	100	100	100
GL162-079-02	100	100	100	100	100	100

GL162-080-01	100	100	100	100	100	75
GL162-080-02	100	100	100	100	75	50
GL162-081-02	100	100	100	100	100	100
GL162-081-06	100	100	100	100	100	100
GL162-082-01	75	25	50	50		
GL162-083-01	100	100	100	100	100	100
GL162-084-27	100	100	100	75	100	25
GL162-086-06	100	100	100	100	100	100
GL162-086-07	100	100	100	100	100	100
GL162-086-08	100	100	100	100	100	100
GL162-087-62	100	100	100	100	100	100
GL162-087-63	100	100	100	100	100	100
GL162-088-01	100	100	100	100	100	50
GL162-089-04	100	100	100	100	100	100
GL162-089-05	100	100	100	100	100	100
GL162-090-04	100	100	100	100	100	100
GL162-094-02	100	100	100	100	100	100
GL162-094-04	100	100	100	100	0	25
GL162-094-07	100	75	100	100	75	100
GL162-094-08	100	100	100	100	100	100
GL162-095-01	100	100	100	100	100	75
GL162-096-01	100	100	100	100	100	75
GL162-096-02	100	100	100	100	100	75
GL162-097-01	100	0	100	100	0	100
GL162-098-03	100	100	100	100	100	100
GL162-100-01	100	100	100	100	75	100

Within Limits Evaluation

Based on Single Test Results

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20 units	2.0 g/tex	0.030 inch	2.0 %	1.5 units	0.5 units
Average % Results within Limits	97.3	94.4	94.0	97.1	92.7	86.3
% of Instruments 100% within limits	70.4	36.8	32.2	44.7	64.6	23.9
% of Instruments ≥95% within limits	91.3	68.4	73.9	83.3	82.3	47.8
% of Instruments ≥75% within limits	97.4	96.5	94.8	99.1	89.4	80.5
% of Instruments ≥65% within limits	98.3	96.5	98.3	99.1	91.2	89.4
% of Instruments ≥50% within limits	98.3	98.2	99.1	100.0	93.8	93.8

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL162-001-01	100	100	99	99	100	73
GL162-002-01	100	83	93	96	100	82
GL162-003-01	100	100	100	94	100	75
GL162-003-03	100	100	99	100	100	84
GL162-004-01	100	91	76	93	96	47
GL162-005-04	100	100	100	100	100	100
GL162-005-06	95	100	100	100	100	100
GL162-006-03	17	56	81	88	62	22
GL162-007-18	100	99	99	100	100	91
GL162-007-20	100	99	99	100	100	100
GL162-009-01	100	100	99	100	98	78
GL162-010-01	100	100	99	100	100	100
GL162-011-01	100	100	99	99	100	100
GL162-014-01	100	100	83	100	100	89
GL162-014-02	99	100	72	100	78	95
GL162-014-05	98	99	79	100	100	93
GL162-014-07	100	99	78	100	99	94
GL162-015-01	100	100	92	93	99	79
GL162-016-01	100	98	100	100	100	85
GL162-017-01	13	94	92	97	59	88
GL162-018-02	100	89	100	99	100	91
GL162-018-03	100	93	100	99	99	94
GL162-020-01	100	91	100	100	100	98
GL162-021-02	100	100	97	100	100	100
GL162-022-01	100	55	88	93	92	59
GL162-024-02	100	100	98	100	83	98
GL162-025-01	99	100	84	83	100	99
GL162-026-01	100	99	100	99	98	99
GL162-028-01	97	100	70	97	35	99
GL162-029-01	94	100	100	100	100	100

GL162-029-04	100	100	99	100	100	100
GL162-029-05	99	100	100	99	100	100
GL162-031-03	100	99	100	100	100	100
GL162-031-07	100	99	82	94	96	65
GL162-031-08	98	94	93	99	100	98
GL162-031-09	100	98	100	99	100	100
GL162-031-10	100	93	98	100	100	93
GL162-031-11	98	89	100	100	98	94
GL162-031-12	98	90	80	96	99	96
GL162-031-13	100	99	100	99	100	100
GL162-031-14	100	89	100	99	100	100
GL162-032-01	100	100	100	100	100	96
GL162-032-02	99	100	100	98	100	98
GL162-033-01	98	98	98	98	100	97
GL162-035-01	100	99	99	98	100	98
GL162-037-01	94	100	99	100	100	83
GL162-037-02	94	100	99	100	100	83
GL162-038-01	100	87	97	96	100	99
GL162-039-02	98	89	98	83	100	79
GL162-041-01	100	100	100	99	100	92
GL162-043-01	100	93	99	99	48	50
GL162-043-02	100	95	96	94	100	90
GL162-043-03	100	96	99	97	100	100
GL162-045-01	100	100	84	92	100	93
GL162-047-01	100	100	100	100	100	93
GL162-047-02	100	100	100	100	100	93
GL162-048-01	92	90	69	81	4	0
GL162-050-01	100	100	97	99	98	93
GL162-050-02	100	100	95	93	100	77
GL162-050-03	100	100	98	100	100	77
GL162-050-04	100	100	100	100	100	88
GL162-051-01	100	91	100	100	94	97
GL162-052-01	100	77	98	97	46	94
GL162-054-01	100	100	100	100	100	92
GL162-056-01	100	89	100	99	100	93
GL162-060-01	98	85	98	100	82	25
GL162-062-01	100	93	78	94	100	66
GL162-063-01	100	93	100	100	100	99
GL162-065-01	97	87	68	80	35	91
GL162-067-01	100	88	87	88	83	53
GL162-068-04	100	86	98	98	98	100
GL162-069-06	97	96	94	91	96	73
GL162-070-04	83		23			
GL162-071-01	100	100	100	100	100	97
GL162-072-03	100	98	99	98	100	97
GL162-073-02	94	98	92	95	99	71
GL162-074-03	100	93	96	98	100	82
GL162-075-01	100	99	100	99	100	98
GL162-075-02	100	91	98	99	100	95
GL162-076-01	99	99	100	100	100	100
GL162-076-02	100	99	98	100	100	100
GL162-076-03	100	98	99	100	100	100
GL162-076-04	100	99	98	100	100	97
GL162-077-01	100	97	100	98	100	74
GL162-077-02	98	99	100	99	100	98

GL162-078-01	100	99	98	100	93	73
GL162-078-02	100	98	98	100	100	88
GL162-079-01	100	100	100	100	100	100
GL162-079-02	100	100	100	100	100	100
GL162-080-01	100	99	95	98	98	63
GL162-080-02	100	100	96	100	50	33
GL162-081-02	100	100	100	100	100	100
GL162-081-06	100	100	100	100	100	100
GL162-082-01	75	25	51	52		
GL162-083-01	100	100	100	100	100	97
GL162-084-27	99	98	92	83	100	26
GL162-086-06	98	90	96	100	100	98
GL162-086-07	100	87	96	99	100	100
GL162-086-08	100	95	93	96	98	98
GL162-087-62	100	97	100	100	99	100
GL162-087-63	99	97	96	100	93	100
GL162-088-01	99	91	96	97	98	59
GL162-089-04	99	93	94	99	100	74
GL162-089-05	100	98	98	100	100	85
GL162-090-04	100	100	95	93	100	90
GL162-094-02	97	100	99	98	97	97
GL162-094-04	99	92	83	98	27	26
GL162-094-07	100	83	93	100	74	96
GL162-094-08	100	98	79	96	100	100
GL162-095-01	100	98	97	100	100	88
GL162-096-01	100	100	97	99	95	73
GL162-096-02	100	100	97	99	95	73
GL162-097-01	74	28	98	99	17	97
GL162-098-03	100	98	98	99	100	100
GL162-100-01	100	99	100	100	68	88