



International Cotton Advisory Committee



CSITC

Global - Round Trial 2015 - 1

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.



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Global - Round Trial 2015 - 1

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

Micronaire							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			3.641	5.053	4.643	4.509	
Reference Values for Evaluation			3.641	5.053	4.643	4.509	
Number Of Instruments			106	106	106	106	106
Inter-Instrument Variation	based on 30 tests	SD	0.063	0.041	0.057	0.048	0.052
		CV %	1.7	0.8	1.2	1.1	1.2
		SD	0.068	0.050	0.062	0.053	0.058
	based on 6 tests	CV %	1.9	1.0	1.3	1.2	1.3
		SD	0.077	0.064	0.073	0.068	0.071
		CV %	2.1	1.3	1.6	1.5	1.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.025	0.025	0.023	0.023	0.024
		CV %	0.7	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.040	0.040	0.036	0.036	0.038
		CV %	1.1	0.8	0.8	0.8	0.9
	between all tests on different days	SD	0.047	0.050	0.046	0.044	0.047
		CV %	1.3	1.0	1.0	1.0	1.1

Strength							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			22.262	28.481	30.942	28.573	
Reference Values for Evaluation			22.262	28.481	30.942	28.573	
Number Of Instruments			107	107	107	107	107
Inter-Instrument Variation	based on 30 tests	SD	1.157	0.525	0.510	0.644	0.709
		CV %	5.2	1.8	1.6	2.3	2.7
		SD	1.219	0.720	0.657	0.716	0.828
	based on 6 tests	CV %	5.5	2.5	2.1	2.5	3.2
		SD	1.312	0.916	0.867	0.879	0.994
		CV %	5.9	3.2	2.8	3.1	3.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.340	0.323	0.348	0.365	0.344
		CV %	1.5	1.1	1.1	1.3	1.3
	between single tests on one day	SD	0.505	0.574	0.519	0.522	0.530
		CV %	2.3	2.0	1.7	1.8	1.9
	between all tests on different days	SD	0.611	0.639	0.603	0.623	0.619
		CV %	2.7	2.2	1.9	2.2	2.3

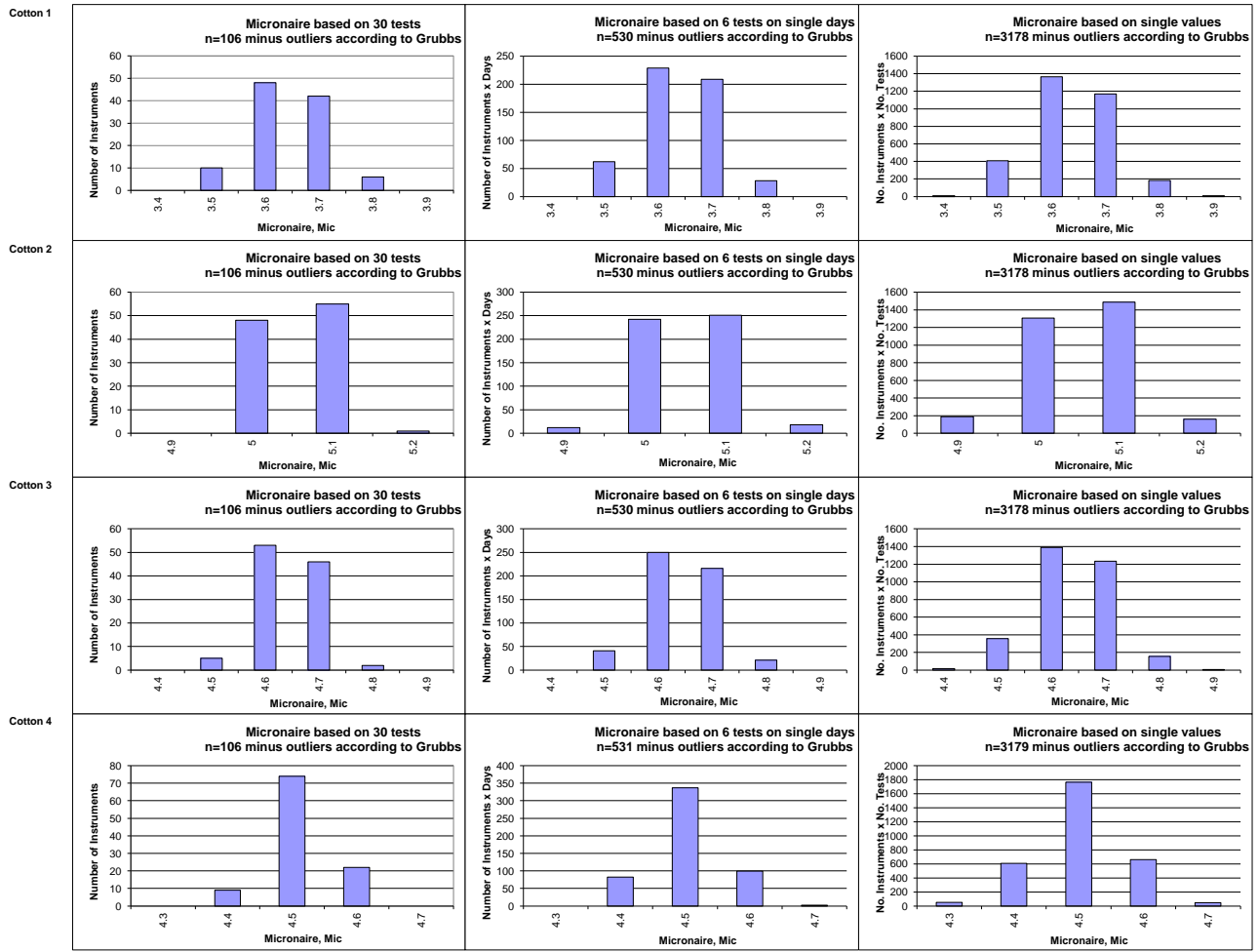
Length							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.9803	1.0502	1.1620	1.1377	
Reference Values for Evaluation			0.9803	1.0502	1.1620	1.1377	
Number Of Instruments			107	107	107	107	107
Inter-Instrument Variation	based on 30 tests	SD	0.0093	0.0095	0.0099	0.0100	0.0097
		CV %	0.9	0.9	0.9	0.9	0.9
		SD	0.0108	0.0107	0.0113	0.0112	0.0110
	based on 6 tests	CV %	1.1	1.0	1.0	1.0	1.0
		SD	0.0148	0.0147	0.0145	0.0147	0.0147
		CV %	1.5	1.4	1.2	1.3	1.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0052	0.0047	0.0047	0.0050	0.0049
		CV %	0.5	0.4	0.4	0.4	0.5
	between single tests on one day	SD	0.0109	0.0106	0.0089	0.0100	0.0101
		CV %	1.1	1.0	0.8	0.9	0.9
	between all tests on different days	SD	0.0119	0.0116	0.0105	0.0111	0.0113
		CV %	1.2	1.1	0.9	1.0	1.1

Uniformity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			77.956	81.141	82.690	81.259	
Reference Values for Evaluation			77.956	81.141	82.690	81.259	
Number Of Instruments			107	107	107	107	107
Inter-Instrument Variation	based on 30 tests	SD	0.647	0.370	0.398	0.500	0.479
		CV %	0.8	0.5	0.5	0.6	0.6
	based on 6 tests	SD	0.731	0.469	0.471	0.551	0.556
		CV %	0.9	0.6	0.6	0.7	0.7
	based on single tests	SD	0.931	0.685	0.635	0.721	0.743
		CV %	1.2	0.8	0.8	0.9	0.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.239	0.244	0.238	0.238	0.240
		CV %	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.562	0.486	0.454	0.488	0.497
		CV %	0.7	0.6	0.5	0.6	0.6
	between all tests on different days	SD	0.596	0.548	0.501	0.530	0.544
		CV %	0.8	0.7	0.6	0.7	0.7

Color Rd							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			76.356	78.263	79.646	67.639	
Reference Values for Evaluation			76.356	78.263	79.646	67.639	
Number Of Instruments			105	105	105	105	105
Inter-Instrument Variation	based on 30 tests	SD	0.497	0.554	0.544	0.389	0.496
		CV %	0.7	0.7	0.7	0.6	0.7
	based on 6 tests	SD	0.508	0.575	0.550	0.415	0.512
		CV %	0.7	0.7	0.7	0.6	0.7
	based on single tests	SD	0.585	0.625	0.596	0.538	0.586
		CV %	0.8	0.8	0.7	0.8	0.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.208	0.152	0.172	0.187	0.180
		CV %	0.3	0.2	0.2	0.3	0.2
	between single tests on one day	SD	0.270	0.212	0.193	0.205	0.220
		CV %	0.4	0.3	0.2	0.3	0.3
	between all tests on different days	SD	0.342	0.262	0.267	0.285	0.289
		CV %	0.4	0.3	0.3	0.4	0.4

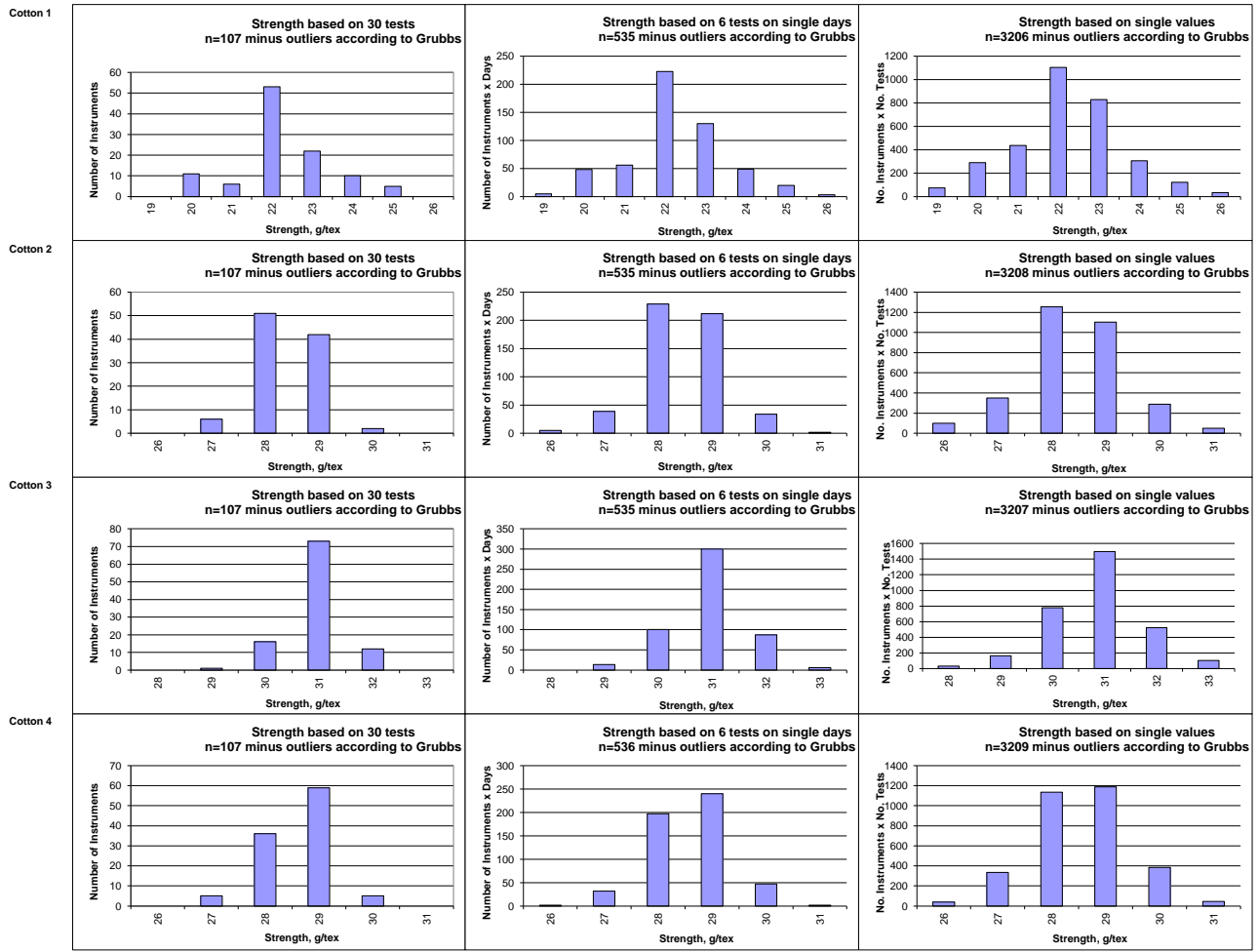
Color +b							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			9.068	8.436	9.409	7.768	
Reference Values for Evaluation			9.068	8.436	9.409	7.768	
Number Of Instruments			105	105	105	105	105
Inter-Instrument Variation	based on 30 tests	SD	0.243	0.240	0.183	0.277	0.236
		CV %	2.7	2.8	1.9	3.6	2.8
	based on 6 tests	SD	0.251	0.244	0.211	0.287	0.248
		CV %	2.8	2.9	2.2	3.7	2.9
	based on single tests	SD	0.264	0.269	0.248	0.311	0.273
		CV %	2.9	3.2	2.6	4.0	3.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.085	0.088	0.077	0.080	0.083
		CV %	0.9	1.0	0.8	1.0	1.0
	between single tests on one day	SD	0.104	0.097	0.097	0.091	0.097
		CV %	1.1	1.2	1.0	1.2	1.1
	between all tests on different days	SD	0.142	0.127	0.142	0.121	0.133
		CV %	1.6	1.5	1.5	1.6	1.5

Test Result Distributions
Micronaire



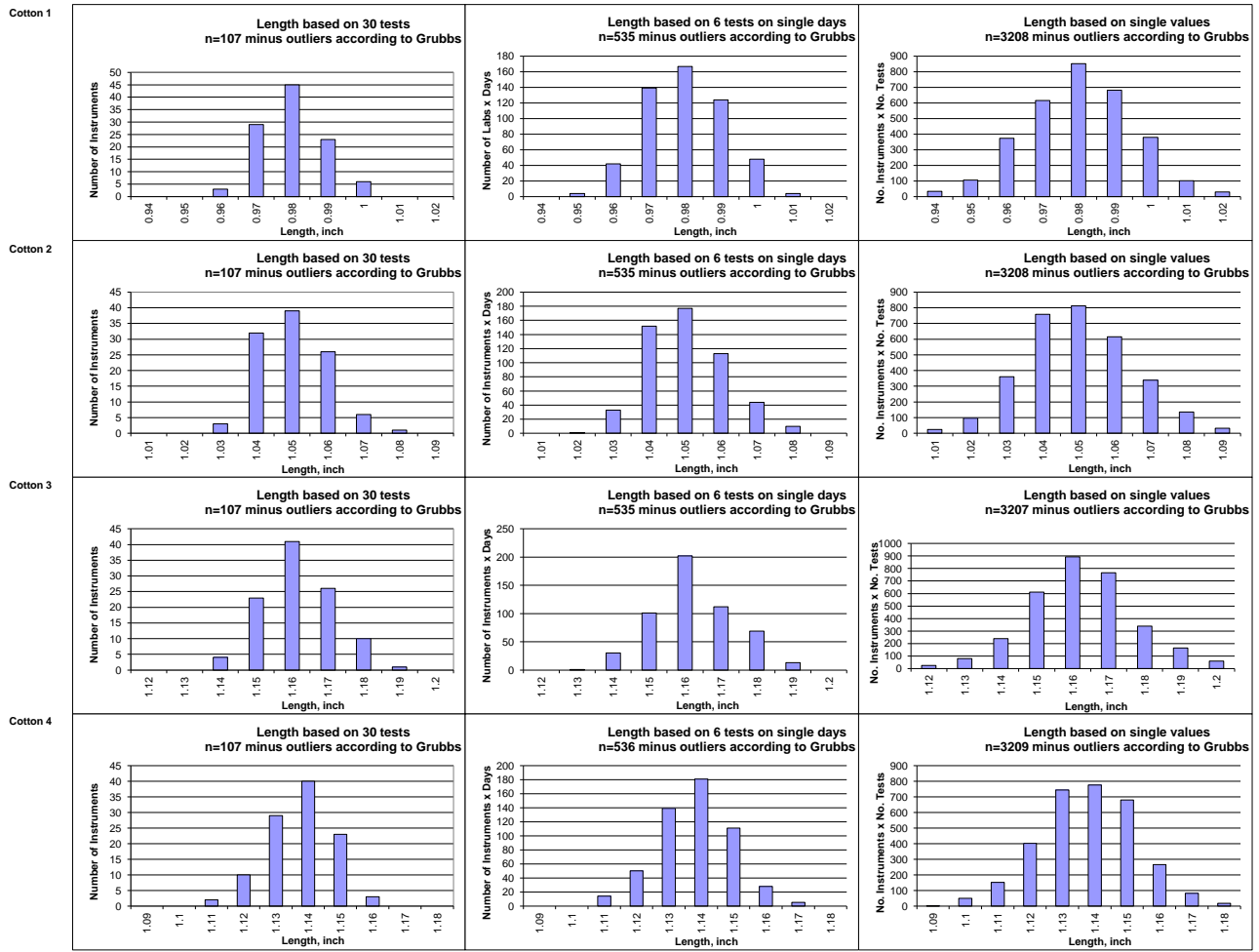
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



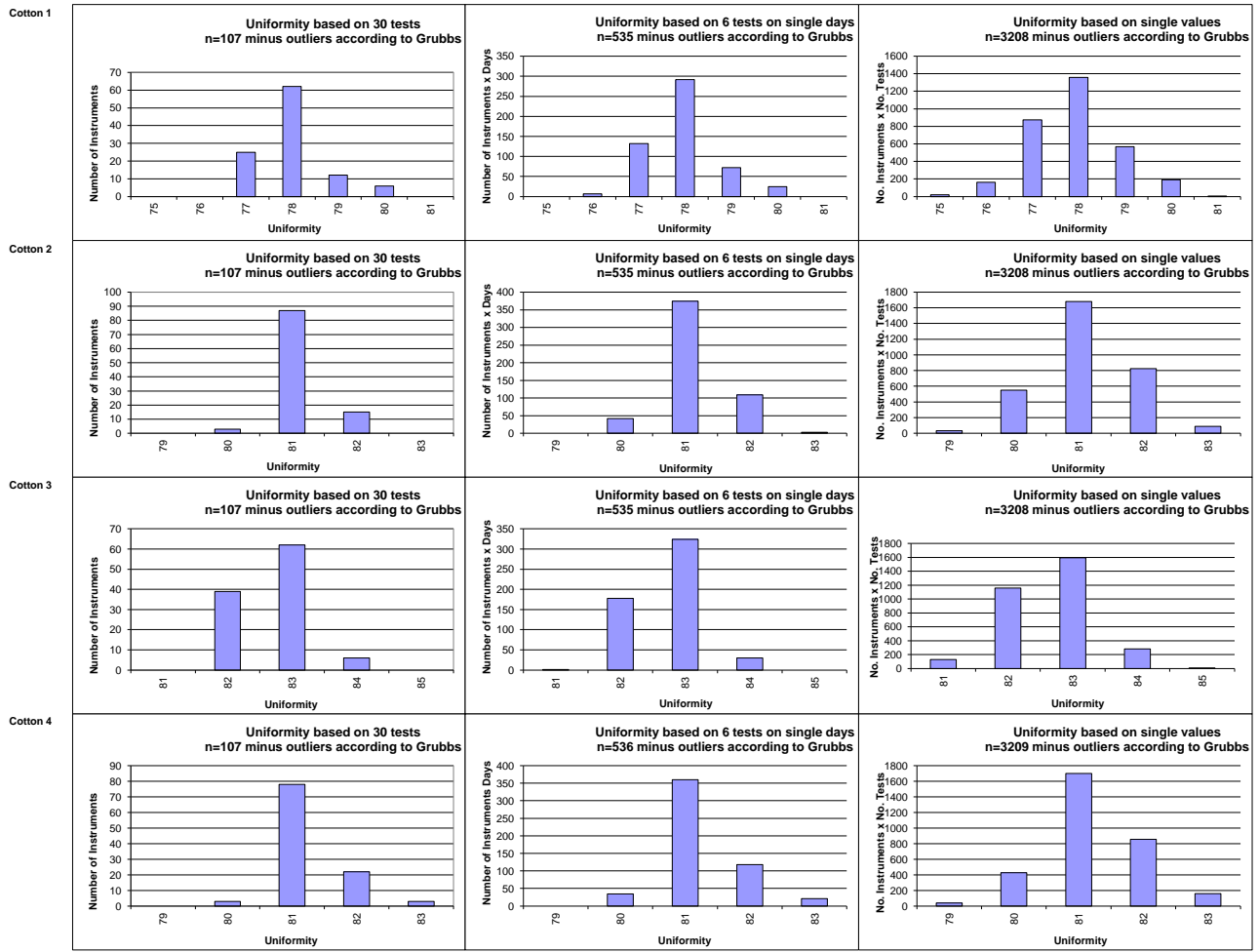
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Length



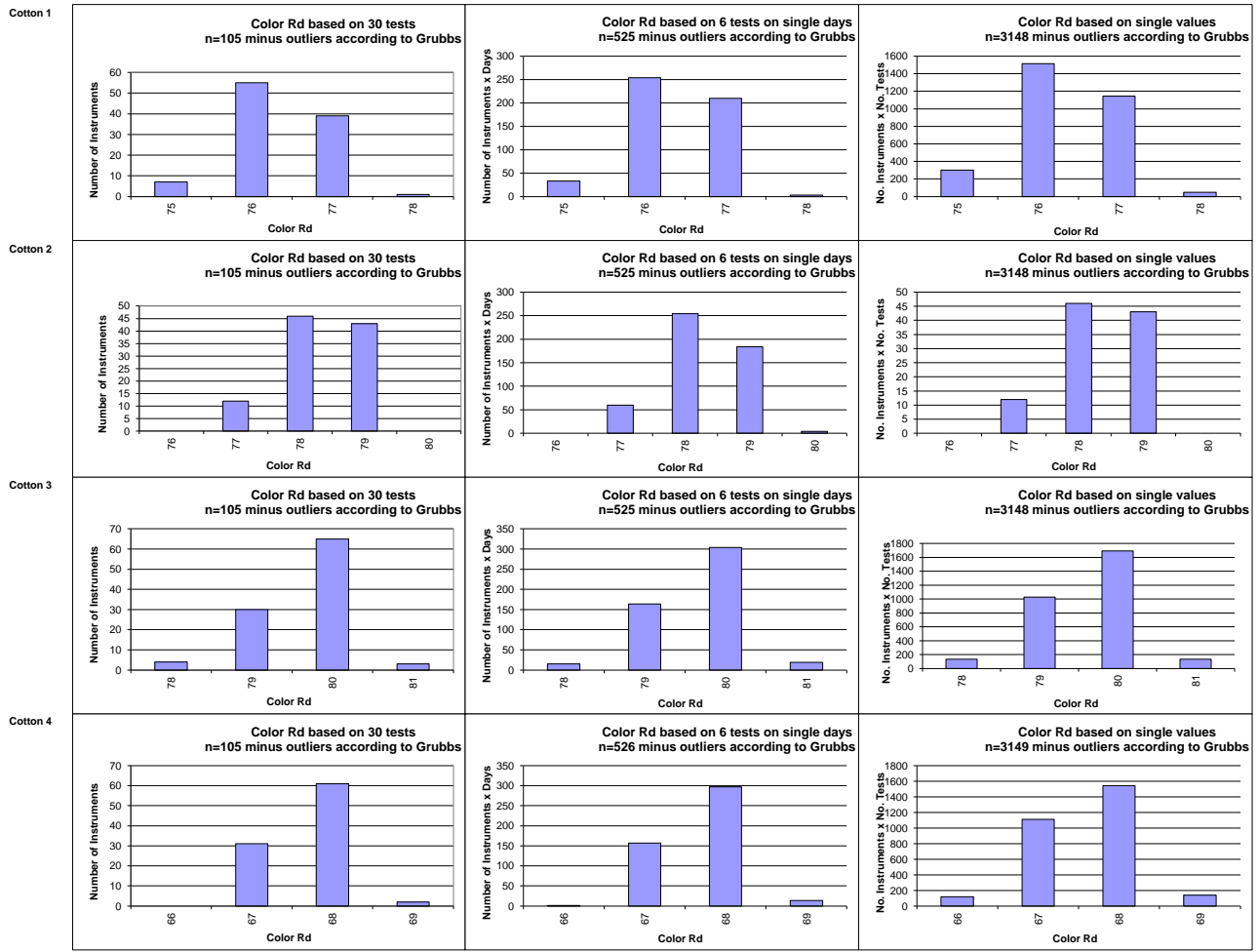
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Uniformity



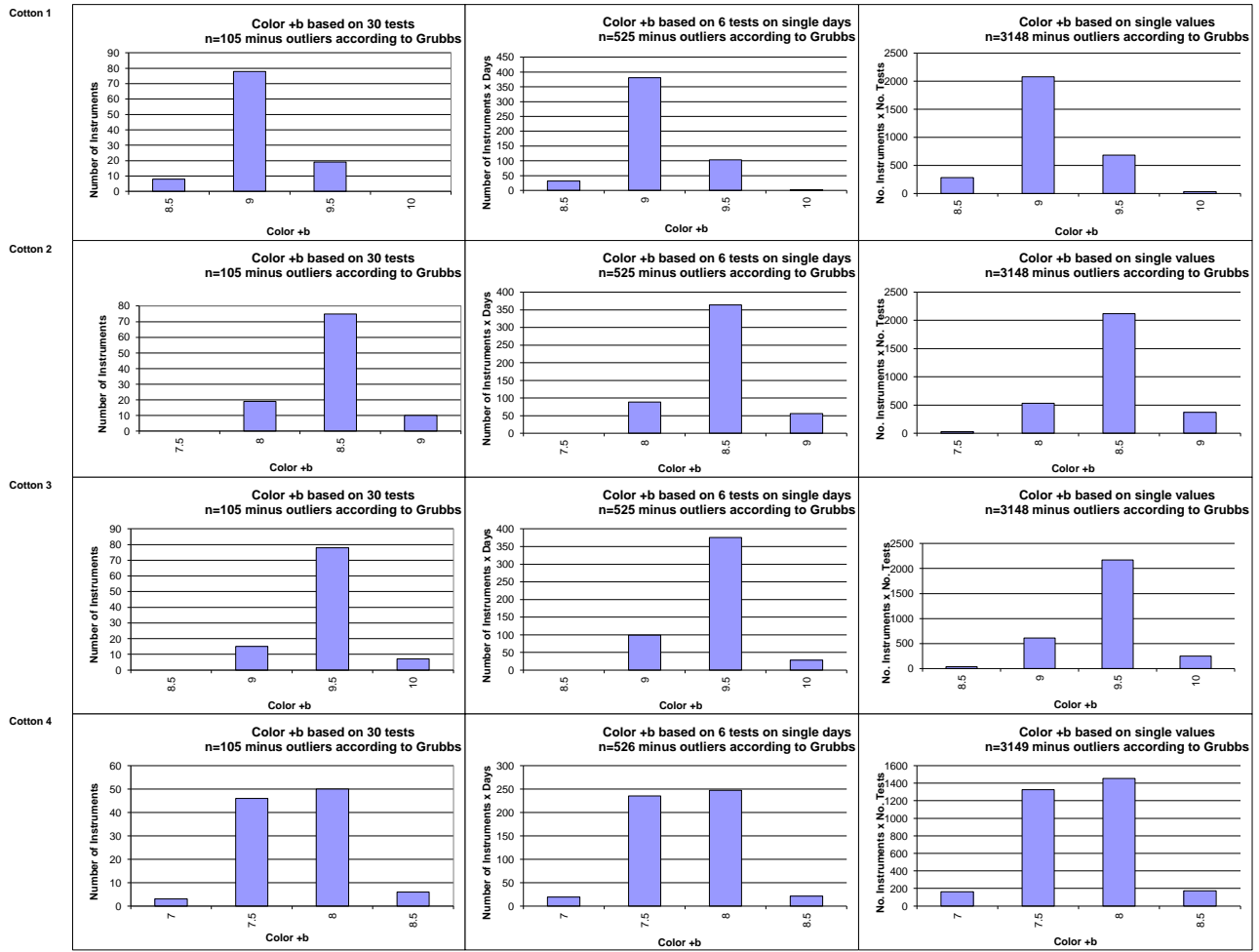
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color 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

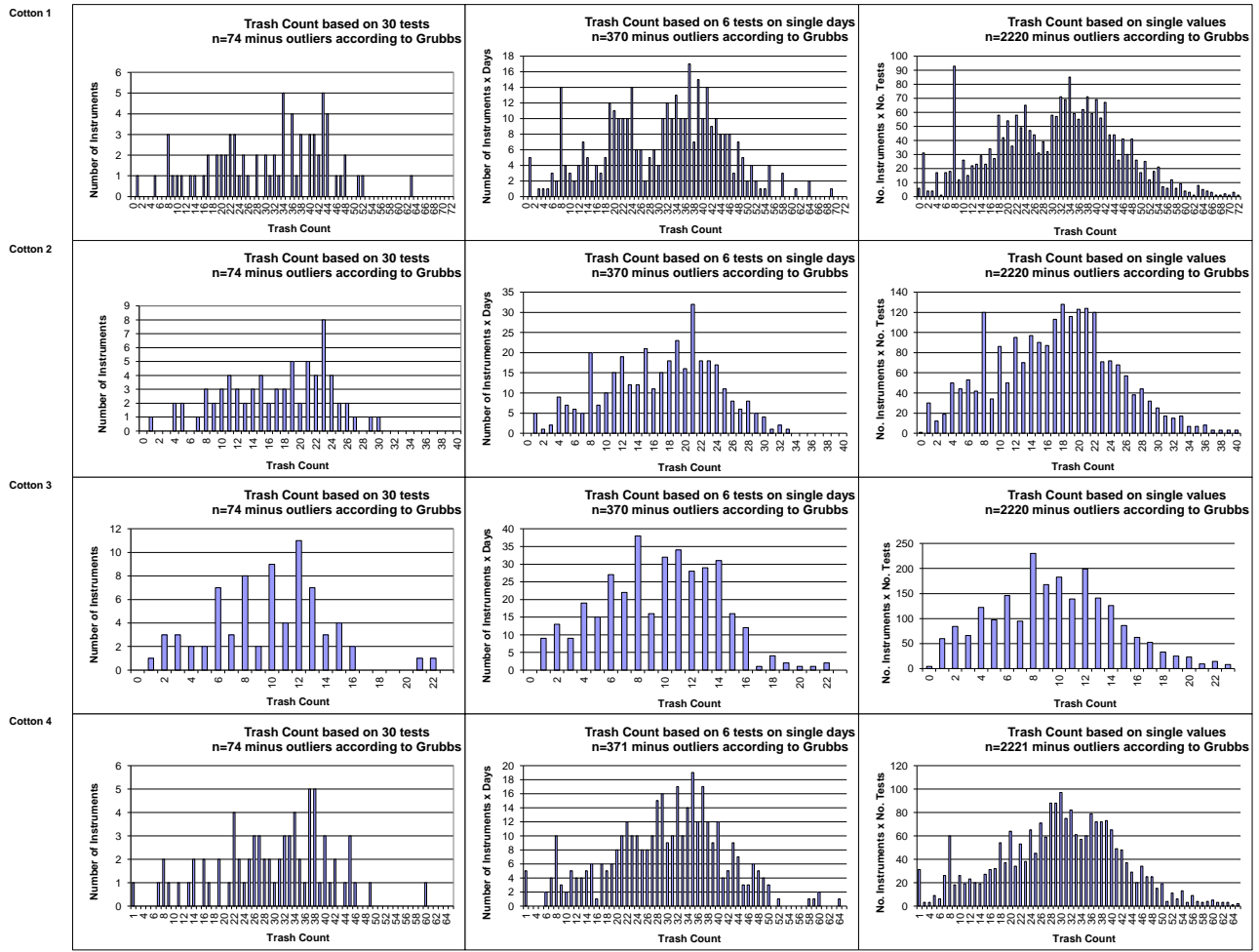
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			30.72	17.00	9.80	29.70	
Reference Values for Evaluation			30.72	17.00	9.80	29.70	
Number Of Instruments			74	74	74	74	74
Inter-Instrument Variation	based on 30 tests	SD	13.07	6.66	4.27	11.26	8.81
		CV %	42.5	39.1	43.6	37.9	40.8
		SD	13.40	6.95	4.22	11.53	9.02
	based on 6 tests	CV %	43.6	40.9	43.1	38.8	41.6
		SD	13.91	7.58	4.64	12.03	9.54
		CV %	45.3	44.6	47.4	40.5	44.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	2.92	1.59	1.18	2.38	2.02
		CV %	9.5	9.4	12.1	8.0	9.7
	between single tests on one day	SD	3.52	2.73	1.72	3.65	2.90
		CV %	11.5	16.1	17.6	12.3	14.3
	between all tests on different days	SD	4.62	3.42	2.20	4.48	3.68
		CV %	15.0	20.1	22.4	15.1	18.2

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.276	0.172	0.110	0.311	
Reference Values for Evaluation			0.276	0.172	0.110	0.311	
Number Of Instruments			74	74	74	74	74
Inter-Instrument Variation	based on 30 tests	SD	0.088	0.053	0.033	0.100	0.068
		CV %	31.8	30.7	30.0	32.1	31.1
		SD	0.095	0.059	0.037	0.106	0.074
	based on 6 tests	CV %	34.3	34.0	33.3	33.9	33.9
		SD	0.104	0.067	0.042	0.116	0.082
		CV %	37.6	38.8	38.0	37.3	38.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.033	0.026	0.015	0.035	0.027
		CV %	11.9	15.0	13.2	11.2	12.8
	between single tests on one day	SD	0.048	0.039	0.020	0.052	0.040
		CV %	17.4	22.9	18.0	16.7	18.8
	between all tests on different days	SD	0.055	0.050	0.030	0.062	0.049
		CV %	19.9	29.0	27.1	19.9	24.0

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			83.24	88.05	87.26	85.90	
Reference Values for Evaluation			83.24	88.05	87.26	85.90	
Number Of Instruments			74	74	73	74	74
Inter-Instrument Variation	based on 30 tests	SD	2.88	1.55	1.92	1.69	2.01
		CV %	3.5	1.8	2.2	2.0	2.3
		SD	2.89	1.56	1.93	1.70	2.02
	based on 6 tests	CV %	3.5	1.8	2.2	2.0	2.4
		SD	2.94	1.57	1.96	1.75	2.06
		CV %	3.5	1.8	2.2	2.0	2.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.18	0.22	0.22	0.19	0.20
		CV %	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.39	0.40	0.29	0.32	0.35
		CV %	0.5	0.5	0.3	0.4	0.4
	between all tests on different days	SD	0.48	0.48	0.47	0.46	0.47
		CV %	0.6	0.5	0.5	0.5	0.5

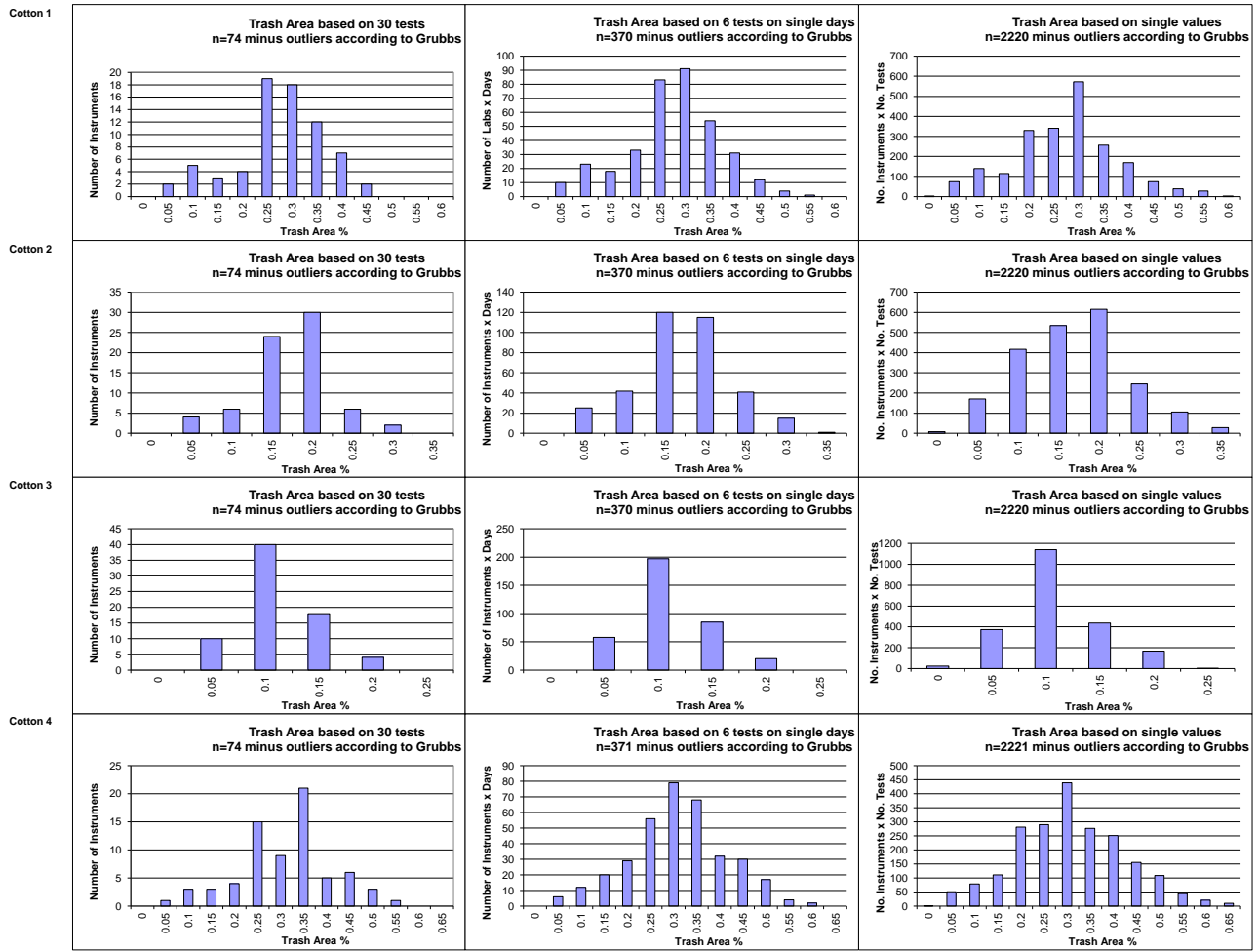
SFI							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			15.43	9.97	8.26	9.61	
Reference Values for Evaluation			15.43	9.97	8.26	9.61	
Number Of Instruments			83	83	83	83	83
Inter-Instrument Variation	based on 30 tests	SD	1.80	0.86	0.72	0.85	1.06
		CV %	11.7	8.6	8.8	8.8	9.5
	based on 6 tests	SD	1.83	0.87	0.77	0.88	1.09
		CV %	11.8	8.7	9.3	9.2	9.8
	based on single tests	SD	1.97	1.02	0.84	0.97	1.20
		CV %	12.8	10.3	10.2	10.1	10.8
Typical within-instrument Variation (Median)	between different days	SD	0.41	0.26	0.17	0.24	0.27
		CV %	2.7	2.6	2.0	2.5	2.4
	between single tests on one day	SD	0.77	0.51	0.36	0.44	0.52
		CV %	5.0	5.1	4.3	4.5	4.7
	between all tests on different days	SD	0.86	0.59	0.39	0.51	0.58
		CV %	5.5	5.9	4.7	5.3	5.4

Test Result Distributions
Trash Count



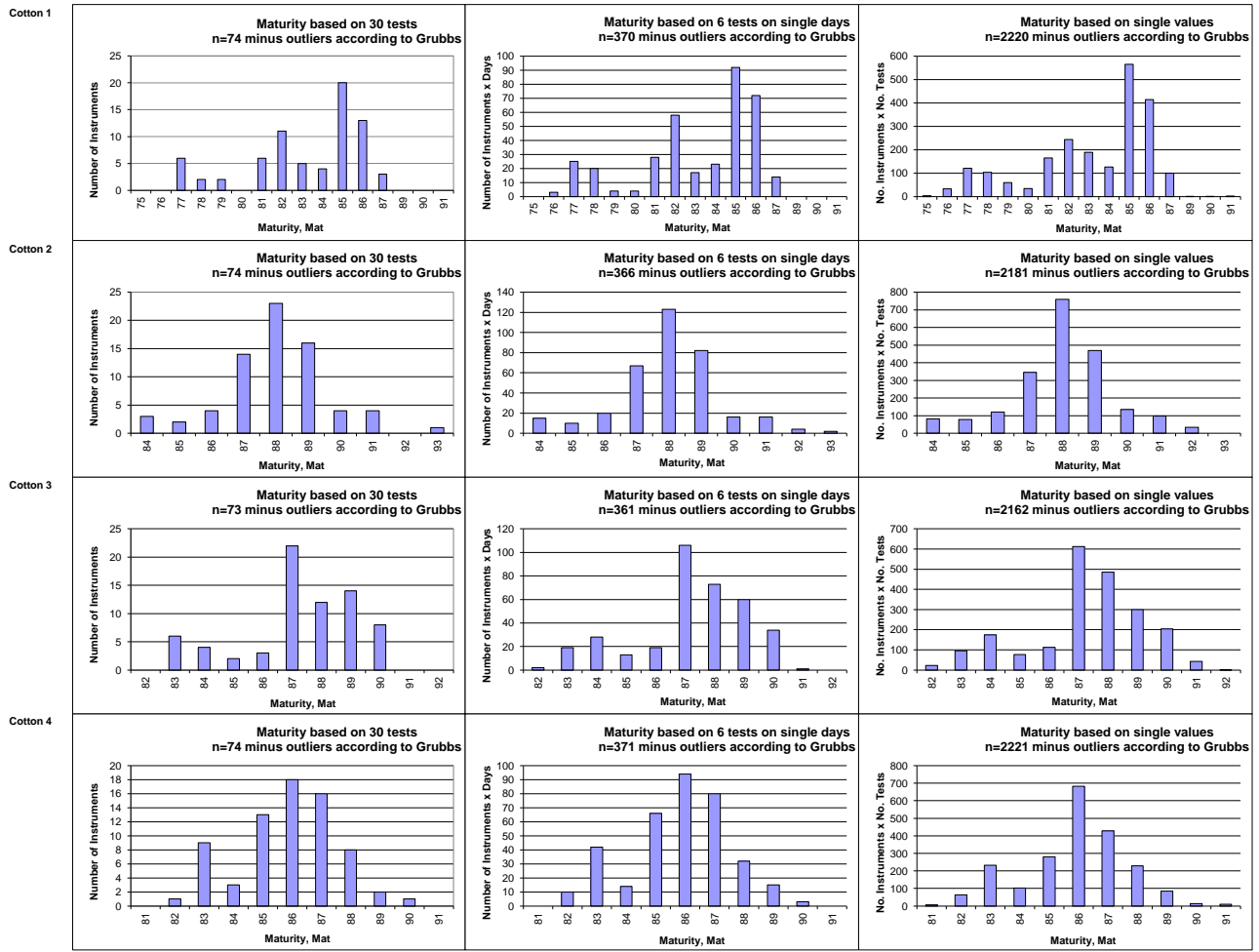
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



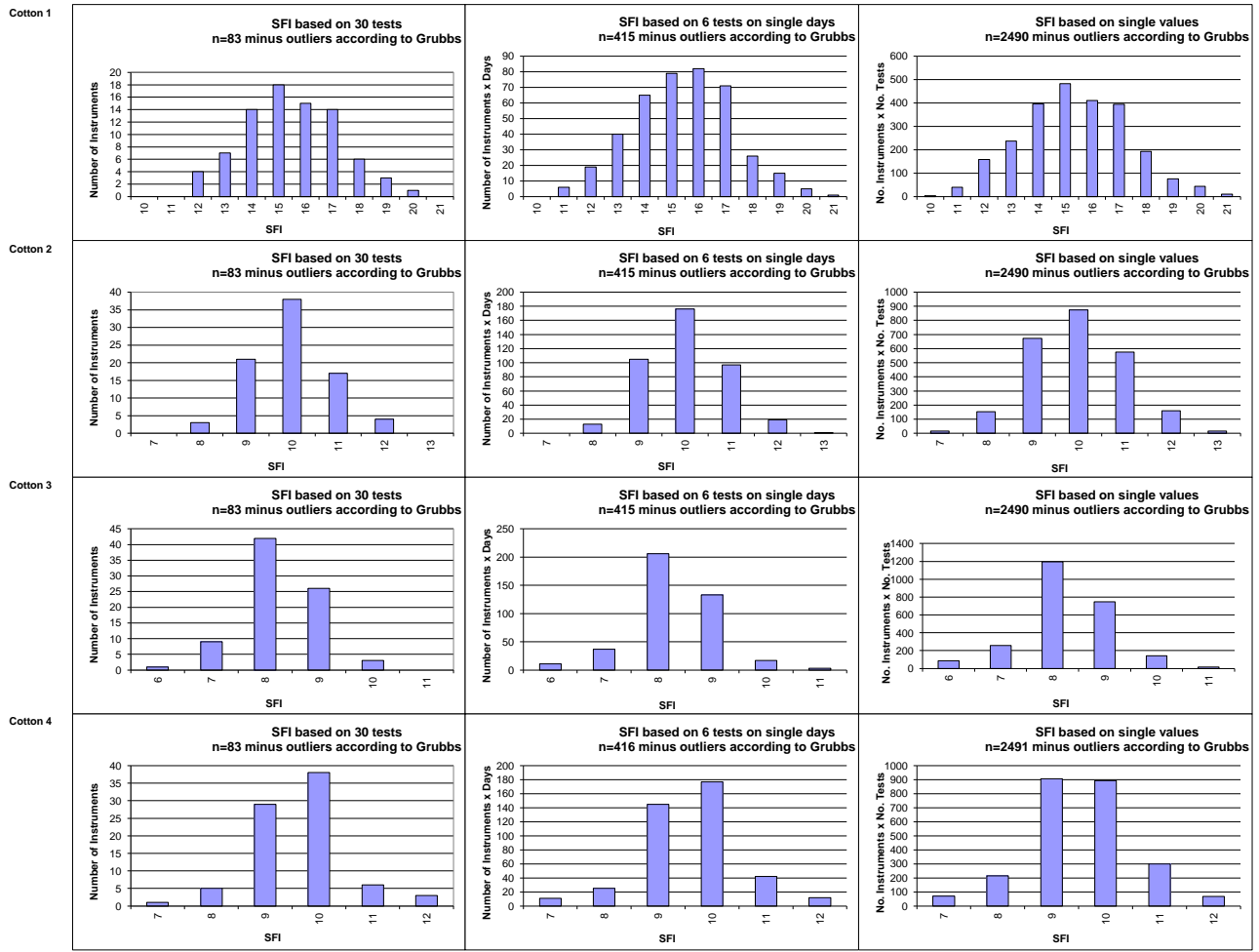
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

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 2015 - 1 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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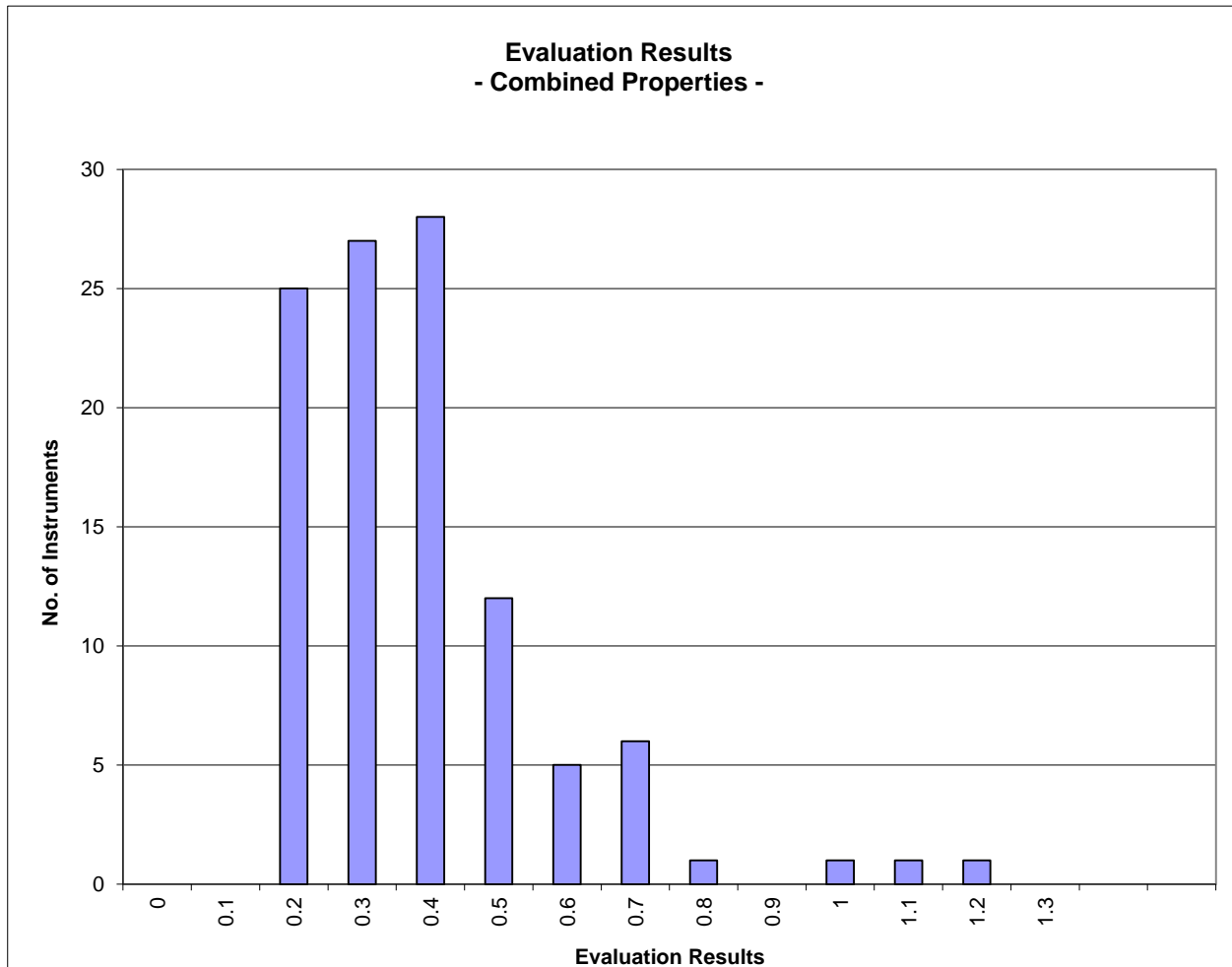
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2015 - 1

		Evaluation Combined Prop.
Statistics	Average	0.39
	Median	0.36
	Best Instrument	0.16
	Worst Instrument	1.18

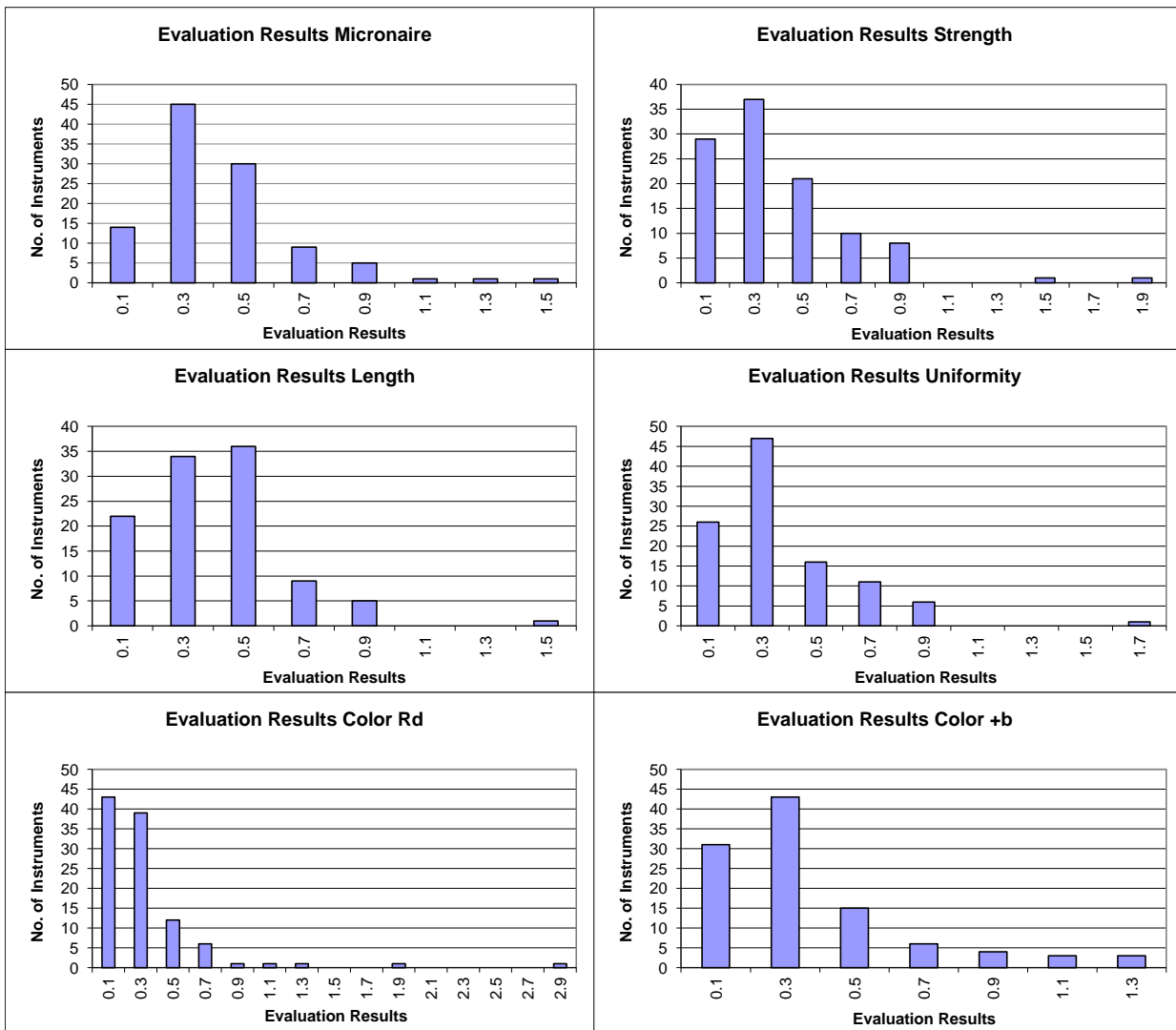


x-Axis shows midpoints of classes

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 2015 - 1

	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.42	0.39	0.40	0.38	0.38
	Median	0.37	0.32	0.38	0.33	0.24
	Best Instr.	0.06	0.02	0.07	0.08	0.04
	Worst Instr.	1.47	1.97	1.49	1.75	2.93



x-Axis shows midpoints of classes
 The evaluation results are entered based on the unrounded values



International Cotton Advisory Committee



CSITC
Global - Round Trial 2015 - 1
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

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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	2.0	0.030	2.0	1.5	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	100.0	94.6	99.3	99.5	95.2	93.8
Completely within limits	100.0	82.2	98.1	98.1	90.5	87.6
% of Instruments $\geq 75\%$ within limits	100.0	98.1	99.1	100.0	96.2	93.3
% of Instruments $\geq 50\%$ within limits	100.0	98.1	100.0	100.0	96.2	95.2

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL151-001-06	100	100	100	100	100	100
GL151-002-01	100	100	100	100	75	100
GL151-003-01	100	75	50	100	0	75
GL151-004-01	100	75	100	100	100	100
GL151-005-01	100	100	100	100	75	100
GL151-006-01	100	100	100	100	100	25
GL151-008-03	100	100	100	100	100	100
GL151-009-04	100	100	100	100	100	100
GL151-010-02	100	100	100	100	100	100
GL151-011-01	100	75	100	100	100	100
GL151-012-01	100	100	100	100	100	75
GL151-013-01	100	25	100	100	100	25
GL151-014-01	100	75	100	100	100	75
GL151-015-04	100	100	100	100	100	100
GL151-016-01	100	100	100	100	100	100
GL151-016-03	100	100	100	100	100	100
GL151-017-01	100	100	100	100	100	75
GL151-018-22	100	100	100	100	100	50
GL151-019-01	100	75	100	100	100	100
GL151-021-14	100	100	100	100	100	100
GL151-023-11	100	100	100	100	100	100
GL151-024-02	100	100	100	100	100	100
GL151-026-01	100	100	100	100	100	100
GL151-028-01	100	100	100	100	100	100
GL151-029-01	100	100	100	100	100	75
GL151-030-11		100	100	100		
GL151-031-01	100	100	100	100	100	100
GL151-032-01	100	75	100	100	100	100
GL151-032-02	100	75	100	100	100	100
GL151-034-03	100	100	100	100	100	100
GL151-034-04	100	100	100	100	100	100
GL151-034-06	100	100	100	100	100	100
GL151-035-02	100	100	100	100	100	100
GL151-035-04	100	100	100	100	75	0

GL151-035-07	100	100	100	100	75	100
GL151-035-08	100	100	100	100	0	100
GL151-036-16	100	100	100	100	100	100
GL151-036-29	100	100	100	100	100	100
GL151-038-01	100	100	100	100	100	100
GL151-038-02	100	100	100	100	100	100
GL151-038-03	100	100	100	100	100	100
GL151-038-04	100	100	100	100	100	100
GL151-039-01	100	100	100	100	100	100
GL151-041-02	100	100	100	100	100	100
GL151-042-01	100	75	100	100	100	100
GL151-042-02	100	75	100	100	100	100
GL151-042-03	100	75	100	100	100	75
GL151-042-04	100	100	100	75	100	100
GL151-044-01	100	75	100	100	100	100
GL151-045-12	100	100	100	100	100	100
GL151-045-13	100	100	100	100	100	100
GL151-046-01	100	100	100	100	100	100
GL151-048-01	100	100	100	100	100	100
GL151-050-02	100	100	100	100	100	100
GL151-051-02	100	75	100	100	100	100
GL151-051-03	100	100	100	100	100	100
GL151-052-01	100	100	100	100	100	100
GL151-052-02	100	100	100	100	100	100
GL151-053-01	100	100	100	100	100	100
GL151-055-01	100	100	100	100	100	100
GL151-055-02	100	100	100	100	100	100
GL151-056-01	100	100	100	100	100	100
GL151-056-02	100	100	100	100	100	100
GL151-059-01	100	100	100	100	100	100
GL151-060-01	100	100	100	100	25	100
GL151-061-60	100	100	100	100	100	100
GL151-061-61	100	100	100	100	100	100
GL151-062-01	100	25	75	100		
GL151-064-01	100	100	100	100	75	50
GL151-065-06	100	100	100	100	100	100
GL151-065-08	100	100	100	100	100	100
GL151-066-01	100	100	100	100	100	100
GL151-067-28	100	100	100	100	100	100
GL151-067-29	100	100	100	100	100	100
GL151-068-25	100	100	100	100	100	100
GL151-068-27	100	100	100	100	100	100
GL151-069-04	100	100	100	100	100	100
GL151-069-05	100	100	100	100	100	100
GL151-070-01	100	100	100	100	100	100
GL151-071-03	100	100	100	100	100	100
GL151-072-01	100	100	100	100	100	100
GL151-073-01	100	100	100	100	100	100
GL151-073-02	100	100	100	100	100	100
GL151-074-01	100	100	100	100	100	100
GL151-075-01	100	100	100	100	100	100
GL151-075-02	100	100	100	100	100	100
GL151-076-01	100	100	100	100	100	100
GL151-077-01	100	75	100	100	25	100
GL151-078-01	100	100	100	100	100	100

GL151-078-02	100	100	100	100	100	100
GL151-078-04	100	100	100	100	100	100
GL151-079-02	100	75	100	100	100	100
GL151-080-02	100	100	100	100	100	100
GL151-081-01	100	75	100	100	100	100
GL151-081-02	100	75	100	100	100	100
GL151-082-05	100	100	100	100	100	100
GL151-084-01	100	75	100	100	75	25
GL151-085-03	100	100	100	100	100	100
GL151-086-01	100	100	100	75	100	100
GL151-088-01	100	100	100	100	100	100
GL151-088-02	100	100	100	100	100	100
GL151-089-01	100	100	100	100	100	100
GL151-089-04	100	100	100	100	100	100
GL151-089-05	100	100	100	100	100	100
GL151-090-12	100	100	100	100	100	100
GL151-090-13	100	100	100	100	100	100
GL151-091-01	100	100	100	100	100	25

Within Limits Evaluation

Based on Single Test Results

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	98.7	91.2	96.7	97.8	93.1	89.7
% of Instruments 100% within limits	61.3	23.4	37.4	52.3	55.2	37.1
% of Instruments ≥95% within limits	91.5	64.5	83.2	86.9	75.2	62.9
% of Instruments ≥75% within limits	100.0	91.6	98.1	99.1	91.4	86.7
% of Instruments ≥65% within limits	100.0	96.3	99.1	100.0	96.2	89.5
% of Instruments ≥50% within limits	100.0	98.1	100.0	100.0	96.2	95.2

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL151-001-06	100	100	100	100	98	96
GL151-002-01	99	98	95	89	69	80
GL151-003-01	88	74	54	76	3	71
GL151-004-01	98	78	100	90	100	92
GL151-005-01	99	98	98	99	71	100
GL151-006-01	99	91	88	94	98	55
GL151-008-03	99	95	100	100	100	99
GL151-009-04	100	93	95	94	100	100
GL151-010-02	98	100	100	100	100	100
GL151-011-01	99	72	98	100	90	90
GL151-012-01	100	93	99	99	98	76
GL151-013-01	99	27	96	98	88	36
GL151-014-01	100	83	100	100	99	85
GL151-015-04	100	98	98	100	100	100
GL151-016-01	100	100	100	100	100	100
GL151-016-03	100	93	100	100	100	100
GL151-017-01	99	92	89	94	98	61
GL151-018-22	100	99	93	98	93	47
GL151-019-01	100	68	99	98	91	98
GL151-021-14	100	99	100	100	100	100
GL151-023-11	85	99	98	100	100	83
GL151-024-02	99	100	98	99	97	93
GL151-026-01	100	100	100	100	100	97
GL151-028-01	94	100	96	97	100	89
GL151-029-01	89	92	89	98	97	64
GL151-030-11		51	74	80		
GL151-031-01	100	98	95	99	100	88
GL151-032-01	98	76	100	100	100	95
GL151-032-02	100	81	98	100	96	96
GL151-034-03	99	100	100	100	100	100

GL151-034-04	98	100	100	100	100	100
GL151-034-06	100	100	100	100	100	100
GL151-035-02	94	98	93	100	93	88
GL151-035-04	99	81	87	99	68	31
GL151-035-07	99	100	93	99	80	95
GL151-035-08	90	98	98	94	1	76
GL151-036-16	100	98	100	99	100	100
GL151-036-29	99	99	98	100	98	97
GL151-038-01	100	99	98	99	100	100
GL151-038-02	98	96	99	99	100	90
GL151-038-03	100	96	98	97	100	53
GL151-038-04	94	98	98	99	100	95
GL151-039-01	100	100	100	100	100	96
GL151-041-02	98	97	96	93	100	89
GL151-042-01	100	75	100	100	100	98
GL151-042-02	100	75	100	100	100	98
GL151-042-03	98	85	98	92	94	87
GL151-042-04	97	71	87	66	99	92
GL151-044-01	100	82	100	100	98	100
GL151-045-12	97	93	99	97	99	100
GL151-045-13	100	97	99	100	100	100
GL151-046-01	85	97	97	100	100	97
GL151-048-01	100	98	100	100	100	100
GL151-050-02	100	96	98	100	100	97
GL151-051-02	100	78	99	98	95	81
GL151-051-03	100	98	100	100	100	100
GL151-052-01	100	99	84	95	98	62
GL151-052-02	97	88	96	99	98	78
GL151-053-01	100	98	99	100	100	99
GL151-055-01	100	99	98	100	91	89
GL151-055-02	100	99	100	100	100	100
GL151-056-01	100	100	100	100	100	98
GL151-056-02	100	100	100	99	99	98
GL151-059-01	100	98	98	99	85	98
GL151-060-01	91	80	98	98	38	83
GL151-061-60	100	98	97	100	100	100
GL151-061-61	100	100	94	100	100	100
GL151-062-01	100	25	95	100		
GL151-064-01	100	99	100	99	66	48
GL151-065-06	100	96	100	100	99	99
GL151-065-08	100	82	98	100	99	100
GL151-066-01	100	98	96	99	100	99
GL151-067-28	100	100	100	100	100	99
GL151-067-29	100	100	100	100	100	100
GL151-068-25	100	100	100	100	100	100
GL151-068-27	100	100	100	100	100	100
GL151-069-04	98	92	93	96	100	96
GL151-069-05	100	98	95	100	100	99
GL151-070-01	100	98	100	100	100	99
GL151-071-03	100	100	98	99	100	100
GL151-072-01	98	95	80	100	83	72
GL151-073-01	99	96	100	100	94	80
GL151-073-02	100	96	99	99	97	66
GL151-074-01	95	78	93	94	89	81
GL151-075-01	100	100	100	100	100	100

GL151-075-02	100	100	100	100	100	100
GL151-076-01	100	86	91	96	100	100
GL151-077-01	99	69	84	100	28	88
GL151-078-01	100	99	99	100	81	93
GL151-078-02	100	95	98	99	100	100
GL151-078-04	100	98	99	99	100	99
GL151-079-02	100	76	98	97	93	90
GL151-080-02	99	98	99	100	81	77
GL151-081-01	100	78	100	99	89	100
GL151-081-02	100	78	100	98	89	100
GL151-082-05	100	88	97	100	98	98
GL151-084-01	99	59	97	98	74	28
GL151-085-03	99	100	98	98	100	100
GL151-086-01	100	99	99	75	100	99
GL151-088-01	100	97	99	98	100	100
GL151-088-02	100	98	100	100	100	100
GL151-089-01	100	100	100	100	100	100
GL151-089-04	100	100	100	100	100	100
GL151-089-05	100	100	100	100	100	100
GL151-090-12	99	93	100	100	100	100
GL151-090-13	100	95	99	100	100	100
GL151-091-01	98	93	93	94	99	53