



International Cotton Advisory Committee



CSITC

Global - Round Trial 2014 - 4

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 2014 - 4

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

Micronaire							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			4.376	4.805	4.342	4.268	
Reference Values for Evaluation			4.376	4.805	4.342	4.268	
Number Of Instruments			142	142	142	142	142
Inter-Instrument Variation	based on 30 tests	SD	0.069	0.063	0.069	0.065	0.066
		CV %	1.6	1.3	1.6	1.5	1.5
	based on 6 tests	SD	0.069	0.071	0.073	0.070	0.071
		CV %	1.6	1.5	1.7	1.6	1.6
	based on single tests	SD	0.082	0.080	0.084	0.079	0.081
		CV %	1.9	1.7	1.9	1.9	1.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.024	0.026	0.028	0.024	0.026
		CV %	0.6	0.6	0.6	0.6	0.6
	between single tests on one day	SD	0.036	0.040	0.042	0.035	0.038
		CV %	0.8	0.8	1.0	0.8	0.9
	between all tests on different days	SD	0.045	0.049	0.049	0.044	0.047
		CV %	1.0	1.0	1.1	1.0	1.0

Strength							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			25.107	26.808	34.123	27.625	
Reference Values for Evaluation			25.107	26.808	34.123	27.625	
Number Of Instruments			142	142	142	142	142
Inter-Instrument Variation	based on 30 tests	SD	0.680	0.587	0.906	0.916	0.772
		CV %	2.7	2.2	2.7	3.3	2.7
	based on 6 tests	SD	0.786	0.740	0.981	0.998	0.876
		CV %	3.1	2.8	2.9	3.6	3.1
	based on single tests	SD	1.027	0.906	1.116	1.115	1.041
		CV %	4.1	3.4	3.3	4.0	3.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.262	0.272	0.321	0.323	0.295
		CV %	1.0	1.0	0.9	1.2	1.0
	between single tests on one day	SD	0.443	0.486	0.581	0.509	0.505
		CV %	1.8	1.8	1.7	1.8	1.8
	between all tests on different days	SD	0.517	0.574	0.666	0.584	0.585
		CV %	2.1	2.1	2.0	2.1	2.1

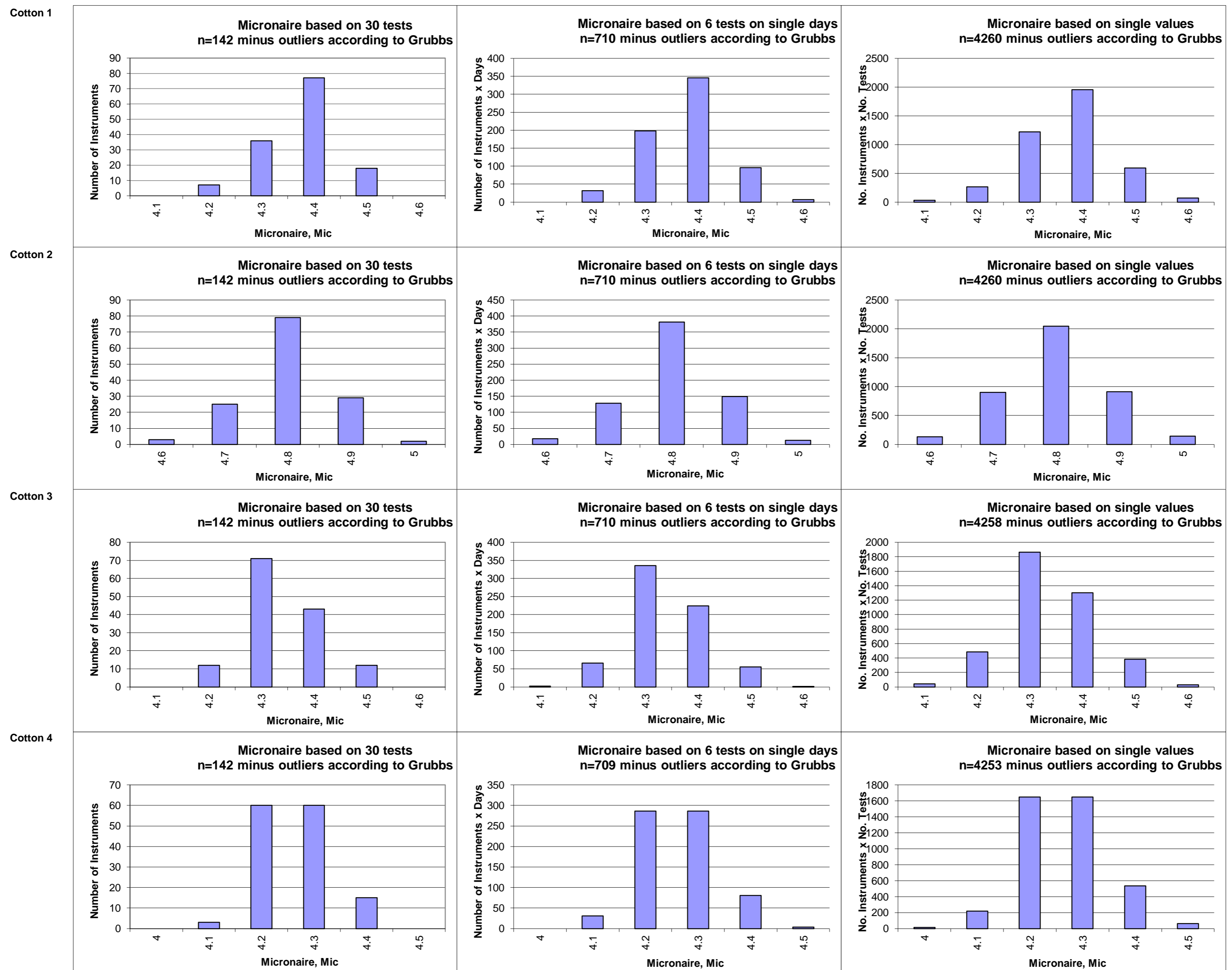
Length							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			1.0042	1.0132	1.1927	1.0253	
Reference Values for Evaluation			1.0042	1.0132	1.1927	1.0253	
Number Of Instruments			141	141	141	141	141
Inter-Instrument Variation	based on 30 tests	SD	0.0089	0.0110	0.0094	0.0107	0.0100
		CV %	0.9	1.1	0.8	1.0	1.0
	based on 6 tests	SD	0.0116	0.0122	0.0110	0.0122	0.0118
		CV %	1.2	1.2	0.9	1.2	1.1
	based on single tests	SD	0.0164	0.0158	0.0152	0.0159	0.0158
		CV %	1.6	1.6	1.3	1.5	1.5
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0053	0.0055	0.0054	0.0055	0.0054
		CV %	0.5	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.0092	0.0102	0.0102	0.0103	0.0100
		CV %	0.9	1.0	0.9	1.0	0.9
	between all tests on different days	SD	0.0108	0.0116	0.0110	0.0112	0.0111
		CV %	1.1	1.1	0.9	1.1	1.1

Uniformity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			79.583	80.934	83.614	79.307	
Reference Values for Evaluation			79.583	80.934	83.614	79.307	
Number Of Instruments			142	142	142	142	142
Inter-Instrument Variation	based on 30 tests	SD	0.484	0.550	0.371	0.616	0.505
		CV %	0.6	0.7	0.4	0.8	0.6
	based on 6 tests	SD	0.568	0.597	0.451	0.674	0.572
		CV %	0.7	0.7	0.5	0.8	0.7
	based on single tests	SD	0.748	0.760	0.649	0.853	0.752
		CV %	0.9	0.9	0.8	1.1	0.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.262	0.231	0.260	0.247	0.250
		CV %	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.486	0.491	0.452	0.500	0.483
		CV %	0.6	0.6	0.5	0.6	0.6
	between all tests on different days	SD	0.536	0.548	0.535	0.556	0.544
		CV %	0.7	0.7	0.6	0.7	0.7

Color Rd							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			78.342	76.273	76.201	80.120	
Reference Values for Evaluation			78.342	76.273	76.201	80.120	
Number Of Instruments			141	141	141	141	141
Inter-Instrument Variation	based on 30 tests	SD	0.806	0.737	0.865	0.823	0.808
		CV %	1.0	1.0	1.1	1.0	1.0
	based on 6 tests	SD	0.838	0.750	0.845	0.905	0.835
		CV %	1.1	1.0	1.1	1.1	1.1
	based on single tests	SD	0.876	0.808	0.900	0.945	0.882
		CV %	1.1	1.1	1.2	1.2	1.1
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.140	0.184	0.153	0.142	0.155
		CV %	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.195	0.199	0.201	0.180	0.194
		CV %	0.2	0.3	0.3	0.2	0.2
	between all tests on different days	SD	0.271	0.296	0.270	0.244	0.270
		CV %	0.3	0.4	0.4	0.3	0.3

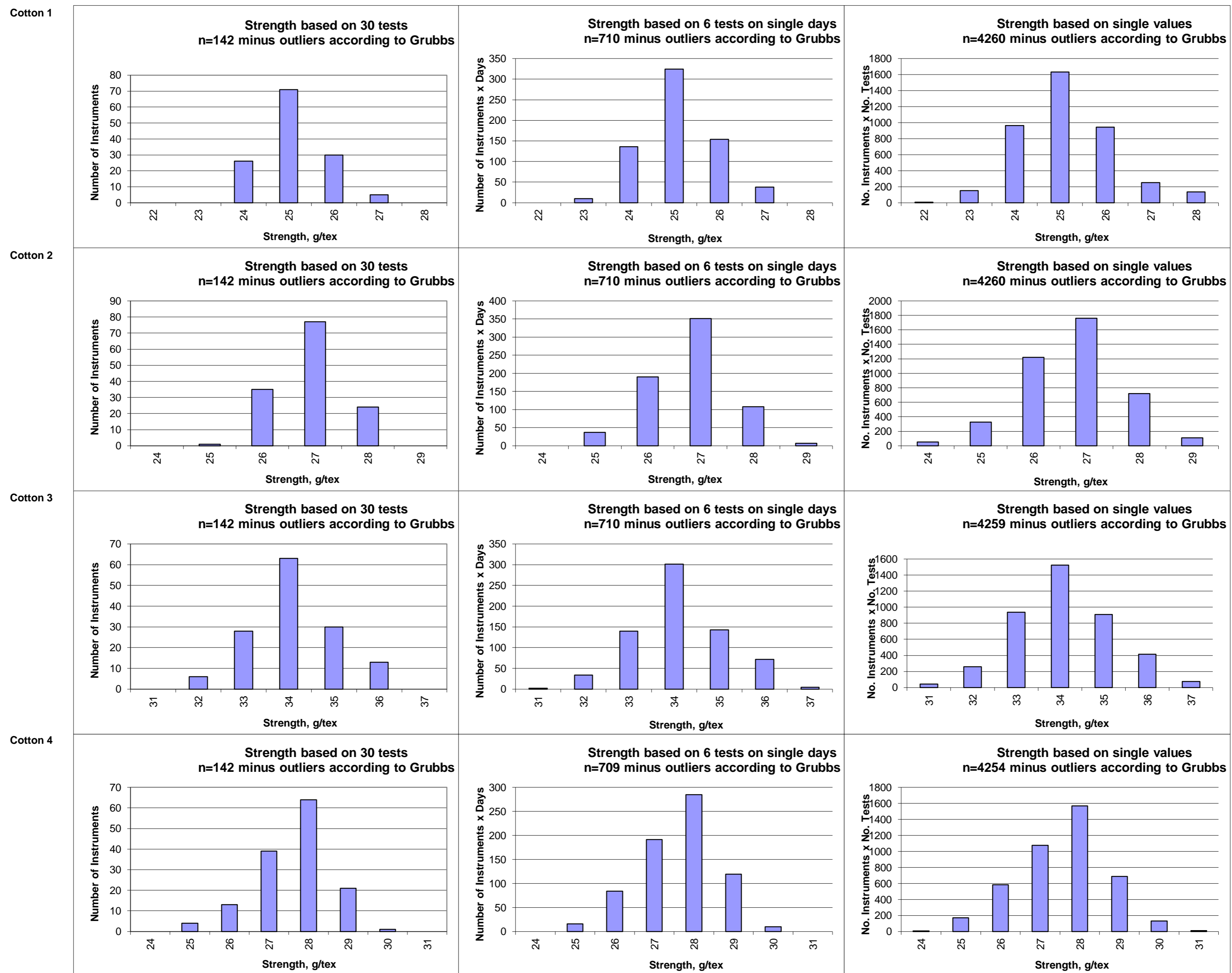
Color +b							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			11.881	11.118	13.351	9.501	
Reference Values for Evaluation			11.881	11.118	13.351	9.501	
Number Of Instruments			141	141	141	141	141
Inter-Instrument Variation	based on 30 tests	SD	0.342	0.282	0.375	0.248	0.312
		CV %	2.9	2.5	2.8	2.6	2.7
	based on 6 tests	SD	0.369	0.312	0.395	0.259	0.334
		CV %	3.1	2.8	3.0	2.7	2.9
	based on single tests	SD	0.384	0.345	0.426	0.284	0.360
		CV %	3.2	3.1	3.2	3.0	3.1
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.089	0.095	0.109	0.081	0.094
		CV %	0.7	0.9	0.8	0.9	0.8
	between single tests on one day	SD	0.100	0.123	0.112	0.087	0.105
		CV %	0.8	1.1	0.8	0.9	0.9
	between all tests on different days	SD	0.153	0.167	0.159	0.130	0.152
		CV %	1.3	1.5	1.2	1.4	1.3

Test Result Distributions
Micronaire



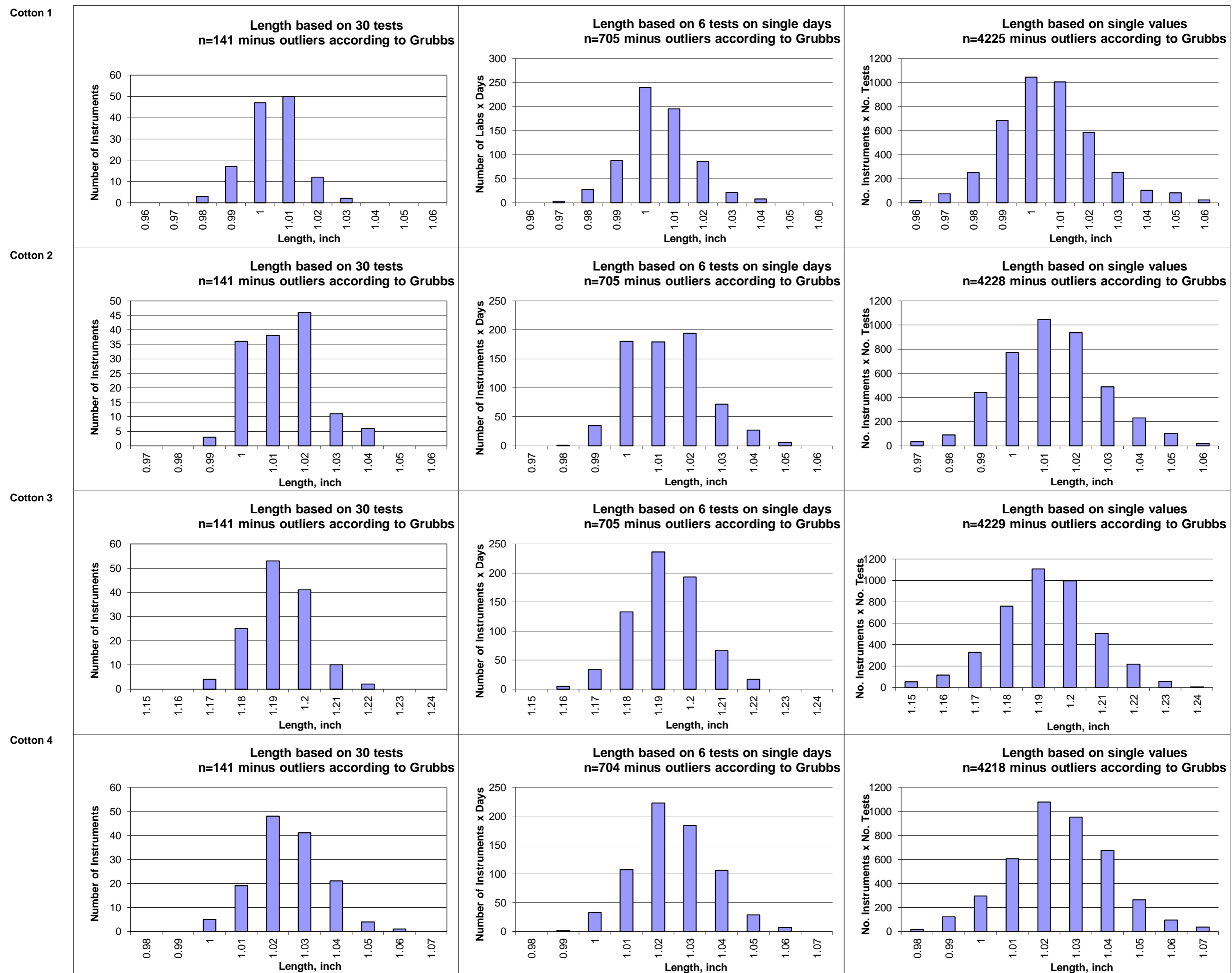
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



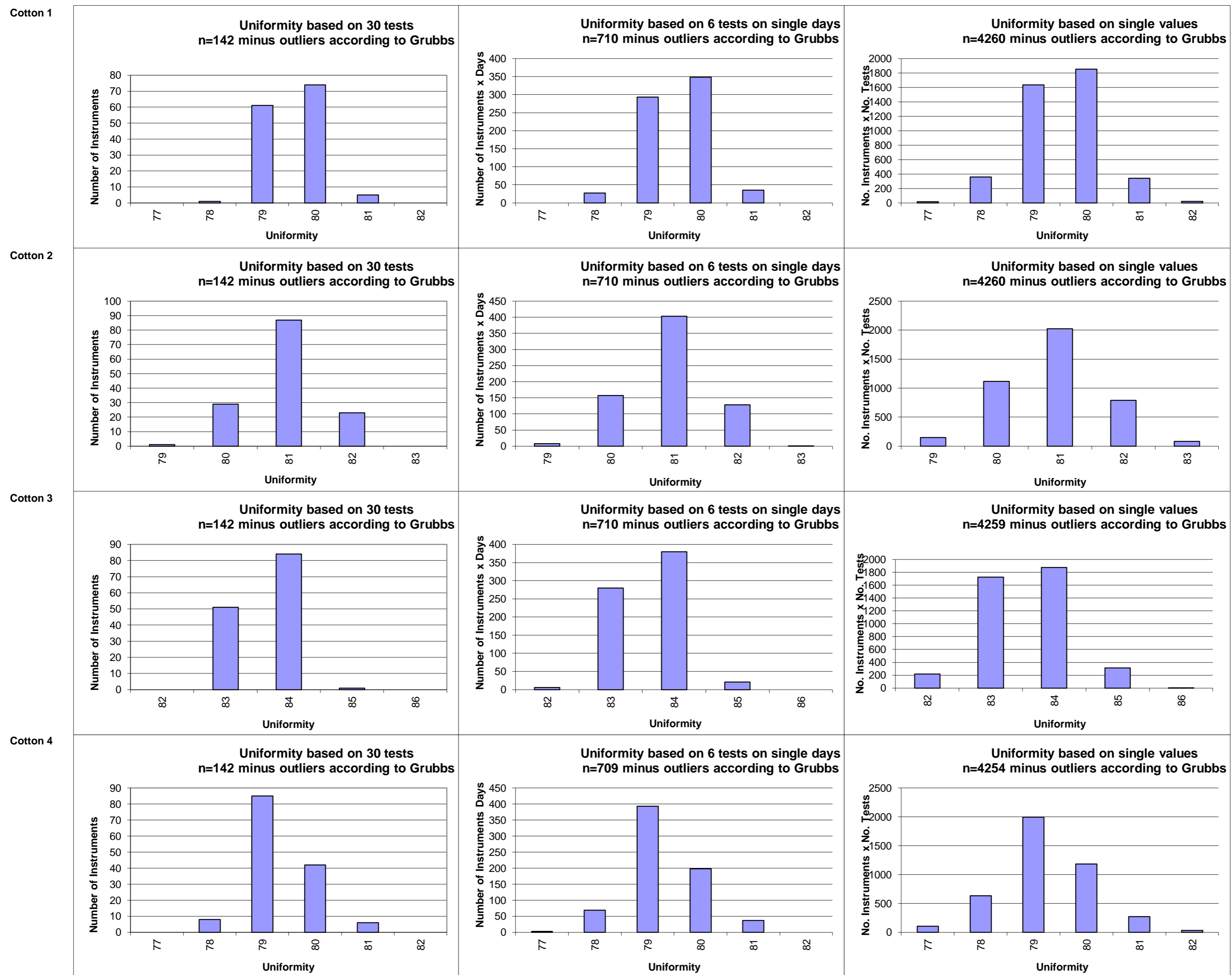
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Test Result Distributions
Length



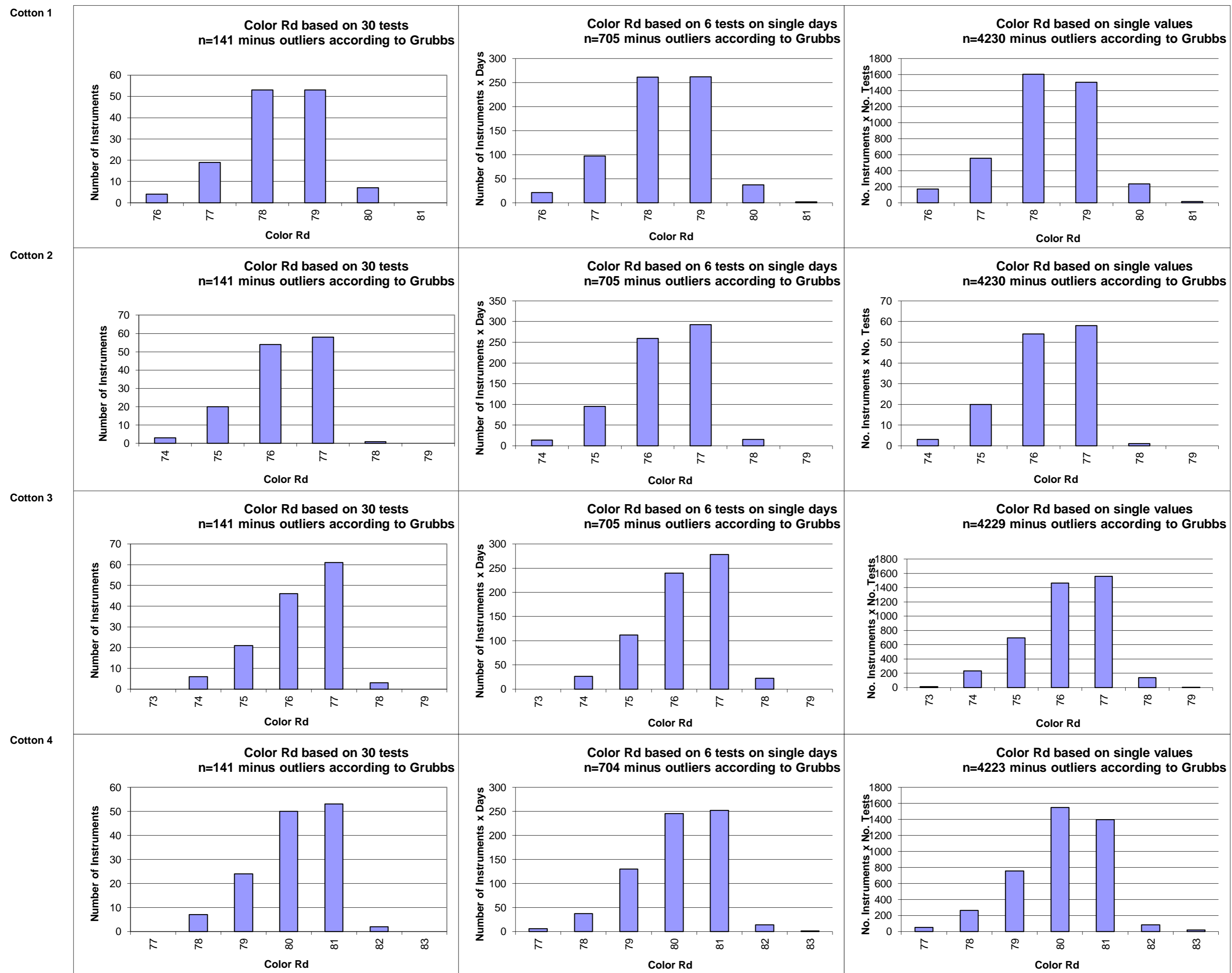
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Uniformity



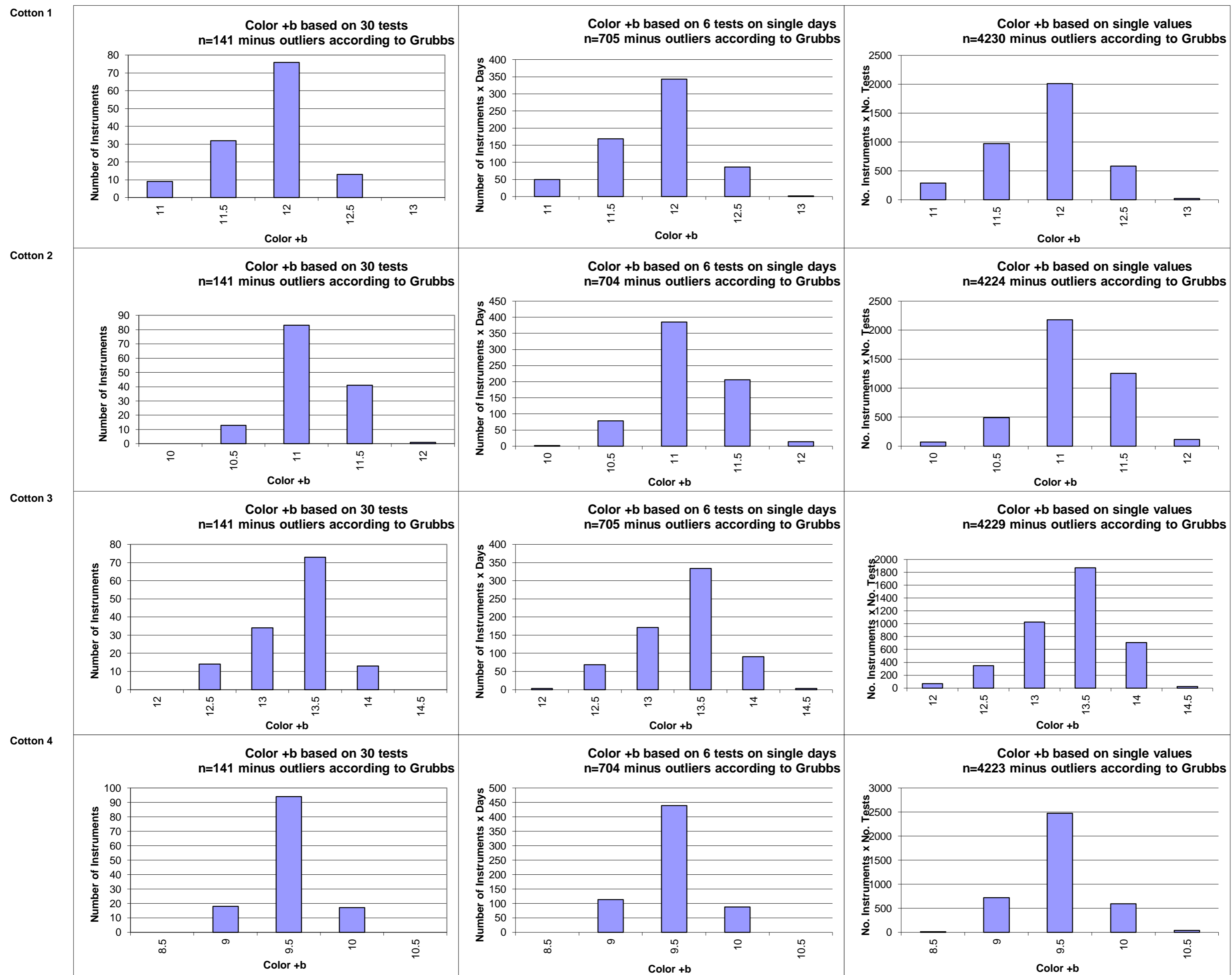
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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

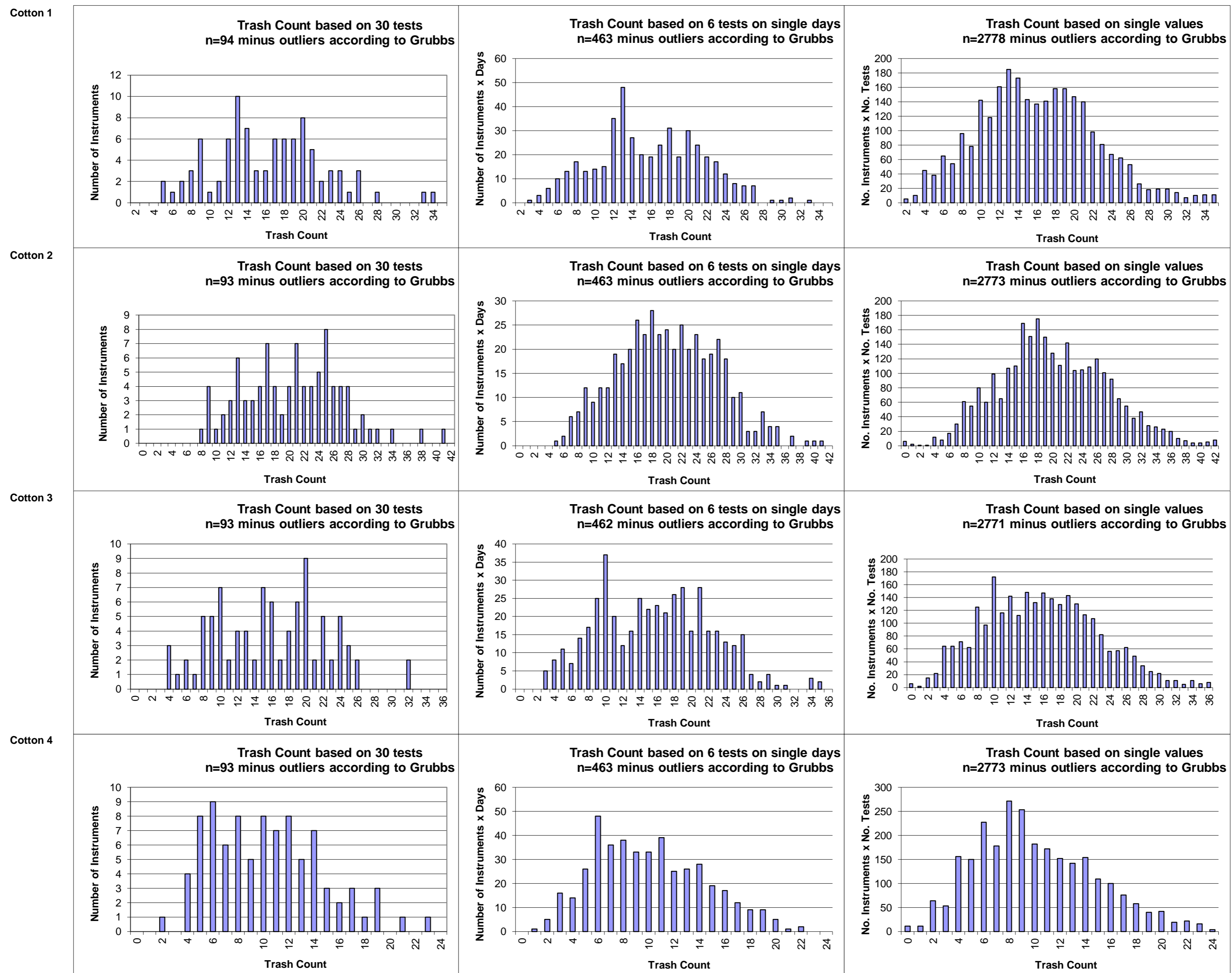
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			16.35	20.47	15.96	10.28	
Reference Values for Evaluation			16.35	20.47	15.96	10.28	
Number Of Instruments			94	93	93	93	93
Inter-Instrument Variation	based on 30 tests	SD	5.91	6.72	6.30	4.40	5.83
		CV %	36.1	32.8	39.5	42.8	37.8
	based on 6 tests	SD	5.63	6.86	6.56	4.34	5.85
		CV %	34.4	33.5	41.1	42.2	37.8
	based on single tests	SD	6.28	7.29	6.88	4.72	6.29
		CV %	38.4	35.6	43.1	45.9	40.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	1.69	2.28	1.84	1.25	1.77
		CV %	10.3	11.1	11.6	12.2	11.3
	between single tests on one day	SD	2.16	2.32	1.84	1.56	1.97
		CV %	13.2	11.3	11.5	15.2	12.8
	between all tests on different days	SD	2.78	3.77	3.08	2.12	2.94
		CV %	17.0	18.4	19.3	20.6	18.8

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.155	0.220	0.149	0.103	
Reference Values for Evaluation			0.155	0.220	0.149	0.103	
Number Of Instruments			94	94	94	94	94
Inter-Instrument Variation	based on 30 tests	SD	0.043	0.057	0.051	0.027	0.044
		CV %	27.8	25.7	34.0	26.7	28.5
	based on 6 tests	SD	0.050	0.064	0.048	0.030	0.048
		CV %	32.2	29.1	32.4	29.3	30.7
	based on single tests	SD	0.060	0.075	0.059	0.037	0.058
		CV %	38.4	34.0	39.3	35.9	36.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.021	0.026	0.024	0.015	0.021
		CV %	13.3	11.7	16.0	14.7	13.9
	between single tests on one day	SD	0.027	0.040	0.027	0.018	0.028
		CV %	17.6	18.2	18.2	17.2	17.8
	between all tests on different days	SD	0.037	0.052	0.042	0.026	0.039
		CV %	23.7	23.4	28.1	25.0	25.1

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			85.06	86.23	85.62	83.33	
Reference Values for Evaluation			85.06	86.23	85.62	83.33	
Number Of Instruments			90	90	90	90	90
Inter-Instrument Variation	based on 30 tests	SD	1.70	1.54	2.13	2.61	1.99
		CV %	2.0	1.8	2.5	3.1	2.4
	based on 6 tests	SD	1.67	1.57	1.94	2.59	1.94
		CV %	2.0	1.8	2.3	3.1	2.3
	based on single tests	SD	1.76	1.60	2.01	2.59	1.99
		CV %	2.1	1.9	2.3	3.1	2.3
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.20	0.21	0.19	0.28	0.22
		CV %	0.2	0.2	0.2	0.3	0.3
	between single tests on one day	SD	0.29	0.31	0.37	0.34	0.33
		CV %	0.3	0.4	0.4	0.4	0.4
	between all tests on different days	SD	0.43	0.46	0.48	0.48	0.46
		CV %	0.5	0.5	0.6	0.6	0.5

SFI							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			12.48	10.27	7.46	12.39	
Reference Values for Evaluation			12.48	10.27	7.46	12.39	
Number Of Instruments			105	105	105	105	105
Inter-Instrument Variation	based on 30 tests	SD	1.15	1.19	0.77	1.07	1.04
		CV %	9.2	11.6	10.3	8.7	9.9
	based on 6 tests	SD	1.24	1.26	0.75	1.16	1.10
		CV %	9.9	12.3	10.0	9.4	10.4
	based on single tests	SD	1.35	1.38	0.82	1.42	1.24
		CV %	10.8	13.4	11.0	11.5	11.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.39	0.29	0.19	0.36	0.31
		CV %	3.1	2.8	2.6	2.9	2.9
	between single tests on one day	SD	0.62	0.53	0.31	0.63	0.52
		CV %	5.0	5.1	4.1	5.1	4.8
	between all tests on different days	SD	0.74	0.61	0.36	0.73	0.61
		CV %	5.9	6.0	4.9	5.9	5.7

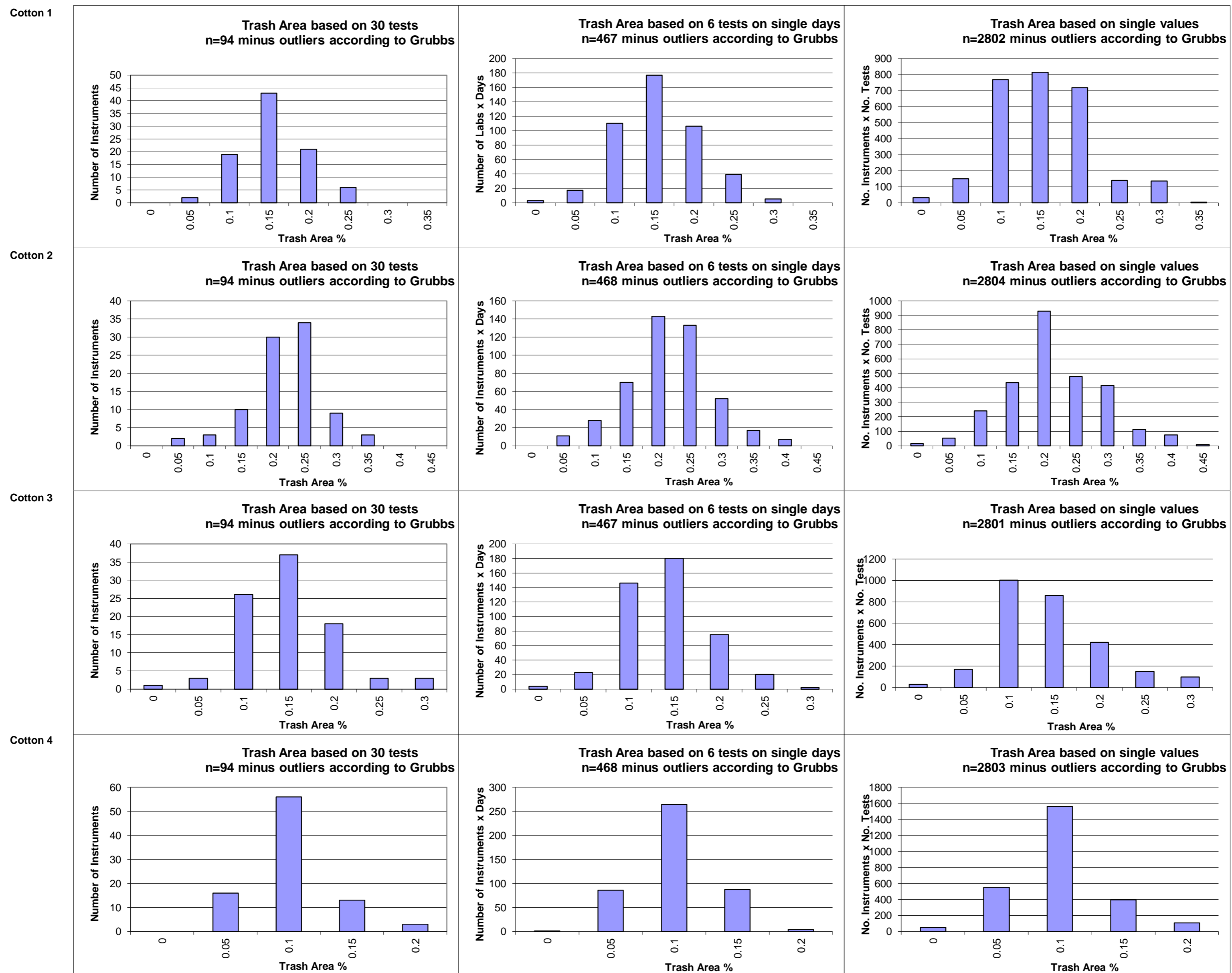
Test Result Distributions
Trash Count



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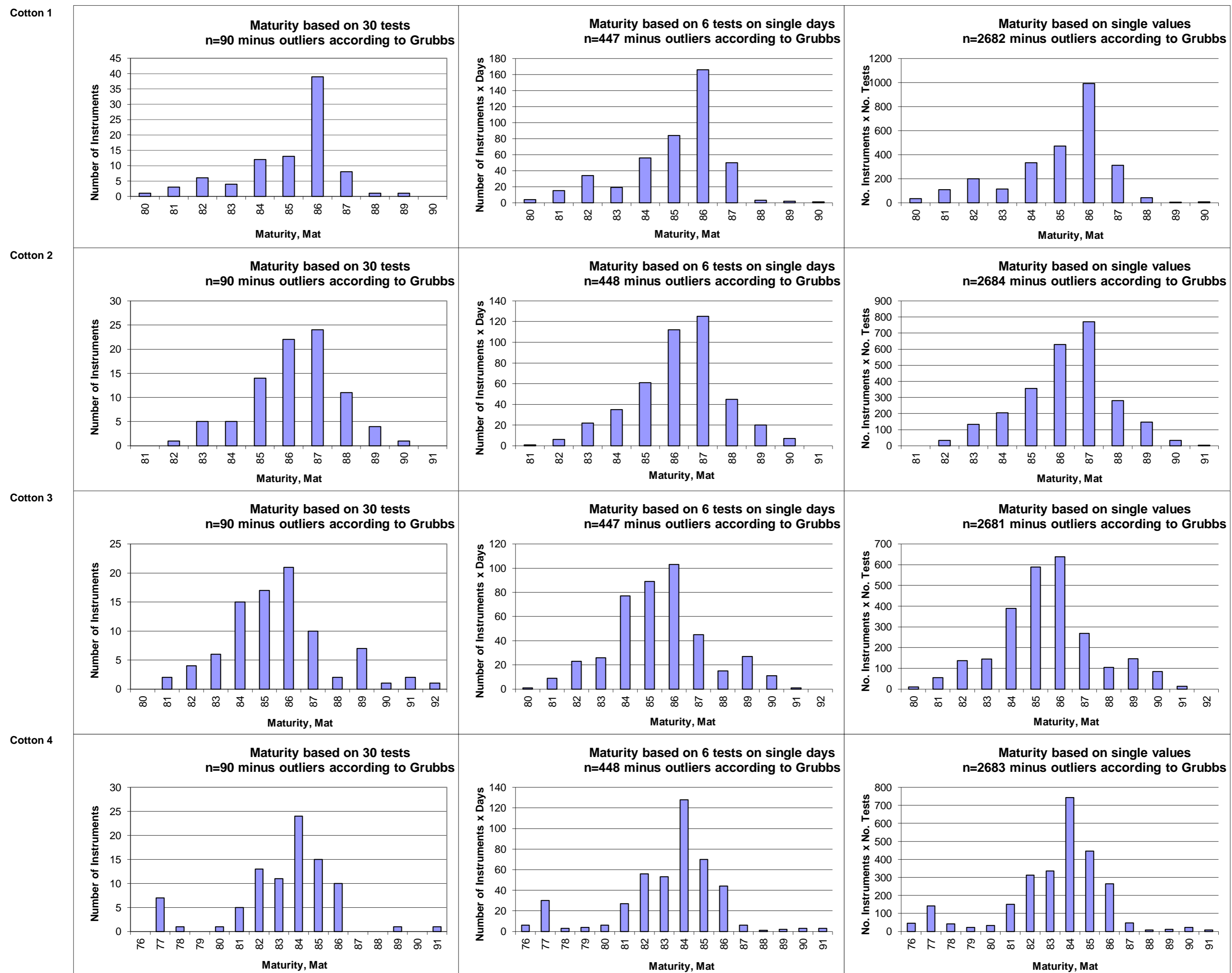
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Trash Area



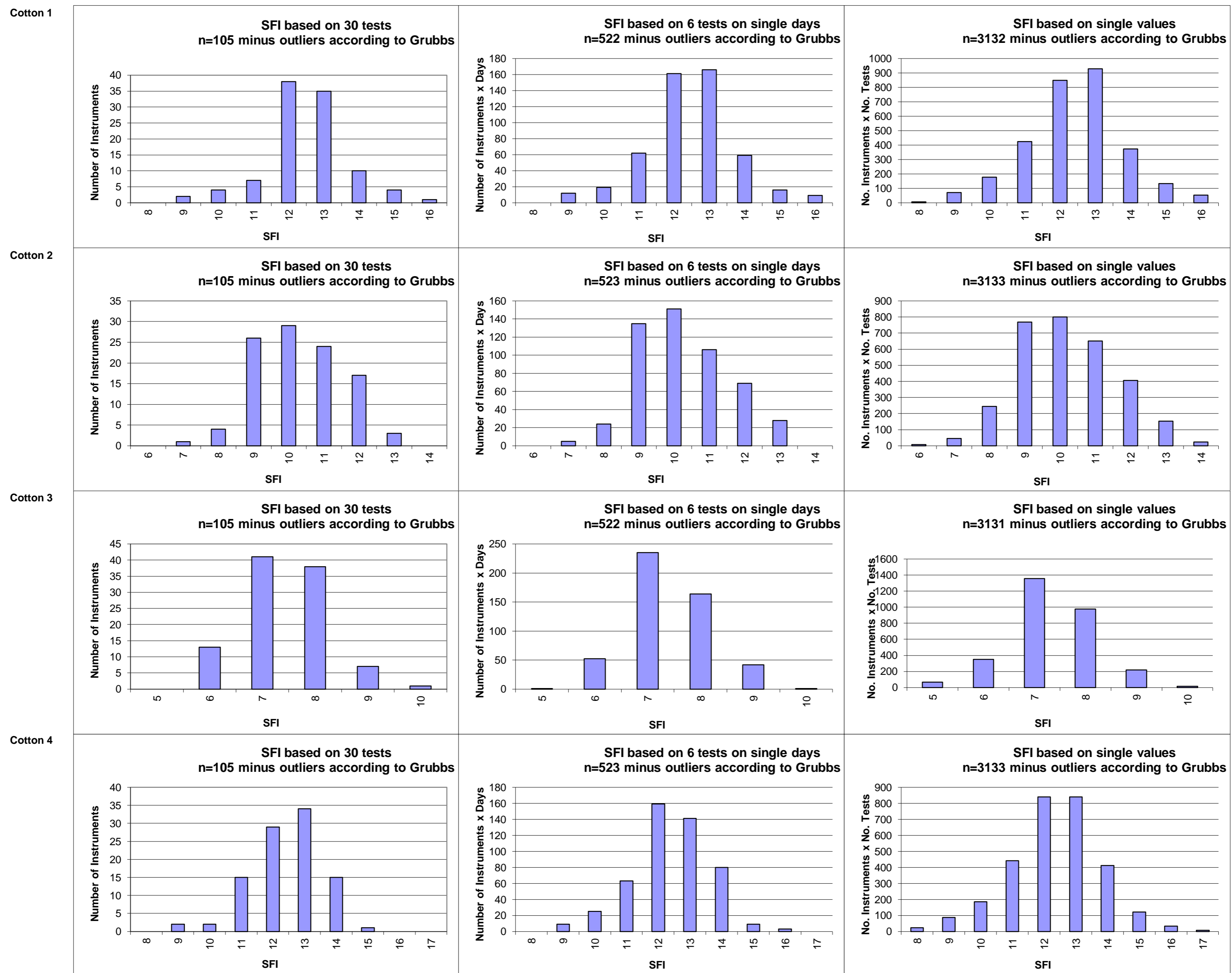
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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 2014 - 4

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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Generation 10 Limited



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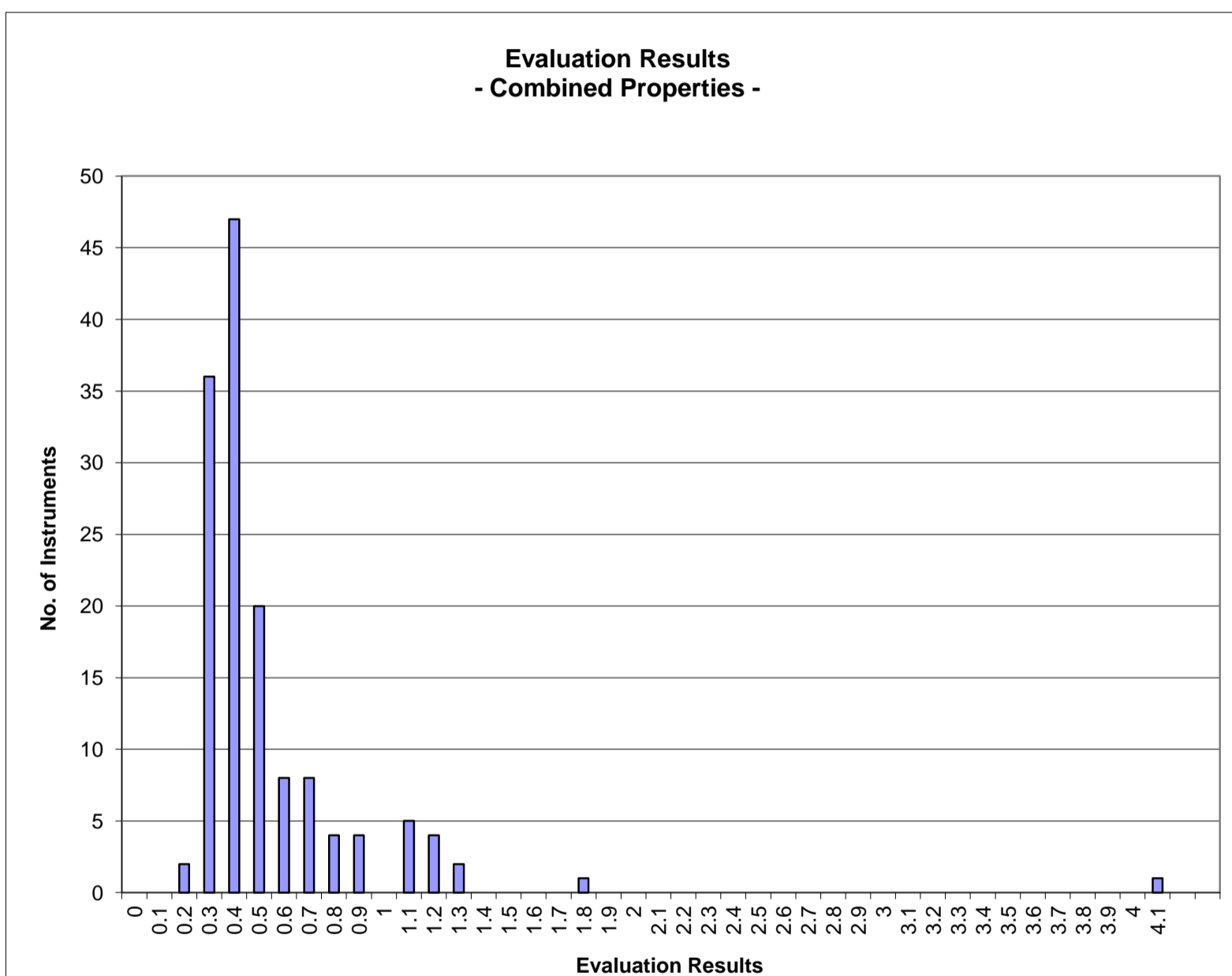
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2014 - 4

		Evaluation Combined Prop.
Statistics	Average	0.54
	Median	0.41
	Best Instrument	0.22
	Worst Instrument	4.11

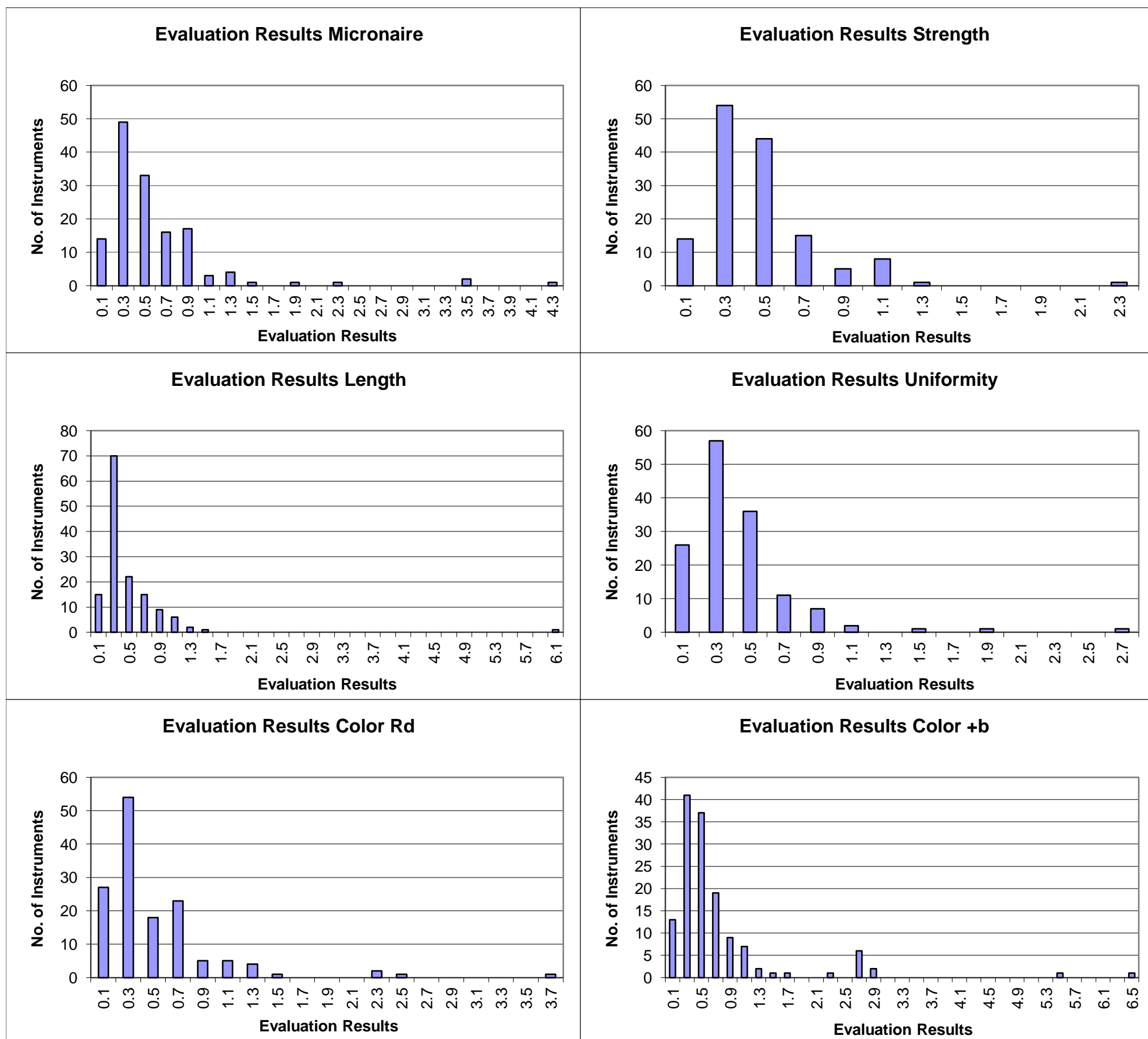


x-Axis shows midpoints of classes

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 2014 - 4

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.60	0.47	0.49	0.43	0.50	0.73
	Median	0.45	0.41	0.36	0.36	0.31	0.46
	Best Instr.	0.10	0.11	0.09	0.06	0.04	0.05
	Worst Instr.	4.33	2.30	6.20	2.78	3.60	6.51



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



International Cotton Advisory Committee



CSITC

Global - Round Trial 2014 - 4

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	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	97.0	95.2	96.5	99.3	88.8	94.3
Completely within limits	95.8	85.9	88.7	97.9	79.4	87.9
% of Instruments $\geq 75\%$ within limits	96.5	95.1	98.6	99.3	86.5	92.2
% of Instruments $\geq 50\%$ within limits	97.9	100.0	98.6	100.0	92.2	98.6

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL144-001-01	100	100	100	100	100	100
GL144-001-02	100	100	100	100	75	100
GL144-002-03	100	100	100	100	100	100
GL144-002-04	100	100	100	100	100	75
GL144-002-05	100	100	100	100	100	100
GL144-002-06	100	100	100	100	100	100
GL144-003-01	100	100	100	100	0	100
GL144-004-01	100	100	100	100	100	100
GL144-004-02	100	100	100	100	100	100
GL144-005-01	100	100	100	100	100	100
GL144-005-02	100	100	100	100	100	100
GL144-006-01	100	100	100	100	100	100
GL144-006-02	100	100	100	100	100	100
GL144-008-01	100	100	100	100	100	100
GL144-010-01	100	75	100	100	100	100
GL144-011-01	100	100	100	100	100	100
GL144-013-01	100	100	100	100	75	100
GL144-014-01	100	75	100	100	100	100
GL144-014-02	100	100	100	100	100	100
GL144-014-03	100	100	100	100	100	100
GL144-014-04	100	100	100	100	100	100
GL144-015-01	100	100	100	100	100	100
GL144-015-03	100	100	100	100	100	100
GL144-016-01	100	100	100	100	100	100
GL144-016-02	100	100	100	100	100	100
GL144-017-01	100	100	100	100	100	100
GL144-019-01	100	100	100	100	100	100
GL144-020-04	100	100	100	100	100	100
GL144-024-01	100	100	75	100	100	100
GL144-025-01	100	100	100	100	100	100
GL144-026-01	100	100	100	100	100	100
GL144-026-02	100	100	100	100	100	100
GL144-027-01	100	100	100	100	100	100
GL144-028-03	100	100	100	100	100	100
GL144-028-04	100	100	100	100	100	100
GL144-028-06	100	100	100	100	100	100
GL144-029-01	100	100	100	100	100	100
GL144-031-01	100	100	100	100	100	100
GL144-033-01	50	100		100	25	75

GL144-034-12	100	100	100	100	100	100
GL144-034-13	100	100	100	100	100	100
GL144-035-01	100	100	100	100	100	100
GL144-036-01	100	100	100	100	100	100
GL144-036-05	100	100	100	100	100	100
GL144-036-07	100	100	100	100	100	100
GL144-037-03	100	100	100	100	100	100
GL144-039-02	100	100	100	100	100	100
GL144-039-03	100	75	75	100	100	100
GL144-039-04	100	100	100	100	100	100
GL144-039-06	100	50	25	100	100	100
GL144-039-07	100	100	100	100	100	100
GL144-039-08	100	100	100	100	100	100
GL144-040-02	100	100	100	100	100	100
GL144-040-06	100	100	100	100	100	100
GL144-041-01	0	50	25	50	50	0
GL144-042-01	100	100	100	100	100	100
GL144-043-01	100	100	100	100	100	100
GL144-044-20	100	100	100	100	100	100
GL144-044-26	100	100	100	100	100	100
GL144-045-02	100	100	100	100	25	100
GL144-046-21	100	100	100	100	100	75
GL144-047-01	100	100	100	100	100	100
GL144-049-22	100	100	100	75	100	100
GL144-049-27	100	100	100	100	100	100
GL144-050-01	100	100	100	100	100	100
GL144-050-02	100	100	100	100	100	100
GL144-050-03	100	100	100	100	100	100
GL144-051-01	100	100	100	100	100	100
GL144-052-01	100	100	100	100	100	100
GL144-053-02	100	100	100	100	100	100
GL144-055-01	100	100	100	100	75	100
GL144-057-14	100	100	100	100	100	100
GL144-060-01	100	100	100	100	100	100
GL144-061-55	100	100	100	100	75	100
GL144-061-59	100	100	100	100	100	100
GL144-062-01	100	75	75	100	75	50
GL144-062-02	100	75	75	100	50	50
GL144-062-03	100	75	75	100	50	50
GL144-062-05	100	75	75	100	50	50
GL144-063-01	100	100	100	100	100	100
GL144-064-01	100	100	100	100	100	100
GL144-066-01	100	100	100	100	100	100
GL144-067-04	100	100	100	100	0	100
GL144-068-01	100	100	100	100	100	100
GL144-070-01	100	75	100	100	25	75
GL144-072-01	100	100	100	100	100	100
GL144-073-01	100	100	100	100	25	100
GL144-074-01	100	100	100	100	100	100
GL144-075-01	100	100	100	100	100	100
GL144-075-02	100	100	100	100	100	100
GL144-076-07	100	100	100	100	100	100
GL144-076-08	100	100	100	100	100	100
GL144-077-01	100	100	100	100	50	100
GL144-077-02	100	100	100	100	100	100
GL144-077-04	100	100	100	100	100	100
GL144-078-03	100	100	100	100	100	100
GL144-079-01	100	100	100	100	100	100
GL144-079-02	100	100	100	100	100	100
GL144-081-01	100	100	100	100	100	100

GL144-082-01	100	100	100	100	100	100
GL144-082-04	100	100	100	100	100	100
GL144-082-05	100	100	100	100	100	100
GL144-083-04	100	75	75	100	100	100
GL144-083-05	100	100	100	100	100	100
GL144-084-01	100	100	100	100	100	100
GL144-084-02	100	100	75	100	50	100
GL144-084-03	50	75	100	100	50	100
GL144-084-04	75	100	100	100	50	100
GL144-085-16	100	100	100	100	100	100
GL144-085-26	100	100	100	100	100	100
GL144-086-02	100	100	100	100	100	100
GL144-087-01	100	100	100	100	100	100
GL144-087-02	100	100	100	100	100	100
GL144-088-01	100	100	100	75	100	75
GL144-089-04	100	100	100	100	100	100
GL144-090-02	100	75	100	100	75	100
GL144-090-03	100	100	100	100	100	100
GL144-091-01	0	75	100	100	0	100
GL144-091-02	0	75	100	100	0	100
GL144-092-01	100	100	100	100	100	100
GL144-094-01	100	100	100	100	25	0
GL144-095-01	100	100	100	100	25	50
GL144-095-02	100	100	100	100	100	75
GL144-095-03	100	100	100	100	100	100
GL144-097-01	100	100	100	100	100	100
GL144-098-02	100	50	75	100	75	50
GL144-098-03	100	50	75	100	75	50
GL144-098-09	100	50	75	100	75	50
GL144-098-11	100	50	75	100	75	50
GL144-099-01	100	100	75	100		
GL144-100-01	100	100	75	100	100	100
GL144-100-11	100	100	100	100	100	100
GL144-101-01	100	100	100	100	100	100
GL144-102-01	100	100	100	100	100	100
GL144-104-01	100	50	100	100	25	100
GL144-105-02	100	100	100	100	100	100
GL144-105-03	100	100	100	100	100	100
GL144-105-04	100	100	100	100	100	100
GL144-105-05	100	100	100	100	100	100
GL144-106-01	100	100	100	100	100	100
GL144-106-02	100	100	100	100	100	100
GL144-107-01	100	100	100	100	100	100

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	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	95.5	91.7	94.1	97.2	87.8	93.1
% of Instruments 100% within limits	57.0	26.8	28.4	53.5	46.8	66.7
% of Instruments ≥95% within limits	84.5	59.2	67.4	84.5	67.4	78.0
% of Instruments ≥75% within limits	95.8	87.3	94.3	97.9	79.4	90.1
% of Instruments ≥65% within limits	96.5	94.4	97.9	98.6	87.2	92.2
% of Instruments ≥50% within limits	97.2	100.0	99.3	99.3	90.1	97.9

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL144-001-01	100	87	100	94	68	98
GL144-001-02	100	86	100	98	73	100
GL144-002-03	100	100	98	100	99	100
GL144-002-04	100	98	95	100	73	76
GL144-002-05	100	100	100	100	100	100
GL144-002-06	100	100	100	100	100	100
GL144-003-01	100	99	100	100	3	100
GL144-004-01	97	100	100	100	100	100
GL144-004-02	98	100	100	100	100	100
GL144-005-01	100	100	100	100	100	100
GL144-005-02	100	97	100	100	100	100
GL144-006-01	100	95	100	100	100	100
GL144-006-02	100	96	98	99	100	100
GL144-008-01	100	93	93	97	100	100
GL144-010-01	99	74	99	100	100	100
GL144-011-01	94	93	100	98	95	100
GL144-013-01	98	91	99	100	85	99
GL144-014-01	100	74	100	100	100	100
GL144-014-02	100	100	99	100	100	100
GL144-014-03	87	88	99	98	98	100
GL144-014-04	90	82	98	98	97	98
GL144-015-01	99	100	93	99	100	100
GL144-015-03	99	100	94	88	98	100
GL144-016-01	100	93	100	100	100	99
GL144-016-02	100	97	100	100	98	100
GL144-017-01	100	100	100	100	100	100
GL144-019-01	100	100	99	100	100	100
GL144-020-04	100	100	80	96	100	100
GL144-024-01	81	91	94	94	93	95
GL144-025-01	100	96	98	100	100	100
GL144-026-01	100	100	90	93	99	93
GL144-026-02	100	100	98	92	100	100
GL144-027-01	100	99	99	98	99	100
GL144-028-03	97	98	100	100	100	100
GL144-028-04	98	99	100	100	100	100
GL144-028-06	98	100	100	100	100	100

GL144-029-01	99	95	100	100	95	99
GL144-031-01	97	95	88	99	100	98
GL144-033-01	40	98		94	46	69
GL144-034-12	89	94	99	100	100	100
GL144-034-13	100	91	99	97	100	100
GL144-035-01	100	100	100	100	100	100
GL144-036-01	100	100	98	100	99	100
GL144-036-05	100	100	94	100	100	100
GL144-036-07	100	100	99	100	99	100
GL144-037-03	100	91	100	100	100	100
GL144-039-02	100	97	95	100	89	98
GL144-039-03	92	73	68	81	73	84
GL144-039-04	100	73	96	99	60	100
GL144-039-06	100	52	56	98	84	100
GL144-039-07	100	88	97	100	97	100
GL144-039-08	97	93	93	99	100	100
GL144-040-02	98	95	96	99	93	93
GL144-040-06	89	98	99	100	97	92
GL144-041-01	6	50	24	43	46	0
GL144-042-01	100	100	91	100	99	93
GL144-043-01	100	97	90	99	100	100
GL144-044-20	100	100	100	100	100	100
GL144-044-26	100	100	100	100	100	100
GL144-045-02	94	97	89	100	26	100
GL144-046-21	98	100	90	100	73	82
GL144-047-01	100	100	100	100	97	97
GL144-049-22	100	94	89	73	100	100
GL144-049-27	100	98	98	97	100	100
GL144-050-01	89	86	96	99	99	99
GL144-050-02	94	89	99	98	100	100
GL144-050-03	99	90	99	100	94	100
GL144-051-01	100	100	100	100	99	100
GL144-052-01	100	100	88	100	99	100
GL144-053-02	100	99	94	100	95	100
GL144-055-01	100	92	97	98	59	98
GL144-057-14	99	98	99	100	100	100
GL144-060-01	100	98	100	100	98	98
GL144-061-55	100	96	98	100	79	100
GL144-061-59	98	98	100	100	100	100
GL144-062-01	98	71	74	97	72	50
GL144-062-02	98	71	63	93	70	50
GL144-062-03	100	72	71	89	71	50
GL144-062-05	98	72	70	93	71	50
GL144-063-01	100	100	99	100	100	100
GL144-064-01	98	100	95	85	99	100
GL144-066-01	81	98	99	100	100	100
GL144-067-04	100	100	100	100	0	100
GL144-068-01	98	98	88	100	99	92
GL144-070-01	100	76	100	99	43	75
GL144-072-01	100	83	97	100	100	100
GL144-073-01	83	73	85	90	43	94
GL144-074-01	99	98	99	98	68	87
GL144-075-01	100	97	96	100	100	100
GL144-075-02	99	85	100	98	100	100
GL144-076-07	99	96	99	100	97	100
GL144-076-08	100	98	97	100	100	100
GL144-077-01	100	93	98	100	62	100
GL144-077-02	94	98	100	100	100	100
GL144-077-04	100	99	97	98	100	100
GL144-078-03	100	98	98	99	100	100

GL144-079-01	100	93	94	99	97	100
GL144-079-02	98	93	98	98	90	97
GL144-081-01	100	98	99	100	98	100
GL144-082-01	99	98	100	100	100	100
GL144-082-04	100	99	99	100	100	100
GL144-082-05	100	100	99	100	100	100
GL144-083-04	99	72	85	88	90	90
GL144-083-05	98	91	90	100	100	100
GL144-084-01	100	98	96	100	100	100
GL144-084-02	100	95	88	100	40	100
GL144-084-03	58	77	98	100	48	92
GL144-084-04	98	100	97	100	63	100
GL144-085-16	100	98	98	97	100	100
GL144-085-26	99	87	100	99	100	100
GL144-086-02	100	89	88	93	100	100
GL144-087-01	100	100	100	100	87	100
GL144-087-02	100	99	100	100	100	100
GL144-088-01	100	93	80	59	98	72
GL144-089-04	100	84	93	99	100	100
GL144-090-02	100	62	98	100	68	100
GL144-090-03	100	98	100	100	100	100
GL144-091-01	8	88	92	98	5	93
GL144-091-02	8	88	92	98	5	93
GL144-092-01	100	100	98	93	100	100
GL144-094-01	71	92	91	85	43	0
GL144-095-01	98	98	93	91	46	40
GL144-095-02	100	98	79	85	83	68
GL144-095-03	99	99	96	99	91	90
GL144-097-01	100	92	100	99	100	100
GL144-098-02	99	58	77	100	81	50
GL144-098-03	99	59	74	100	79	50
GL144-098-09	99	58	78	100	83	50
GL144-098-11	99	60	78	100	83	50
GL144-099-01	92	100	87	89		
GL144-100-01	87	89	95	95	96	94
GL144-100-11	100	87	100	100	100	100
GL144-101-01	100	94	98	98	100	100
GL144-102-01	100	93	100	100	99	100
GL144-104-01	99	50	88	99	48	100
GL144-105-02	100	100	100	98	100	100
GL144-105-03	99	100	98	98	100	100
GL144-105-04	100	99	93	100	100	100
GL144-105-05	93	97	99	99	100	99
GL144-106-01	100	100	93	95	100	100
GL144-106-02	100	100	99	97	99	99
GL144-107-01	100	93	97	99	92	97