



International Cotton Advisory Committee



CSITC

Global - Round Trial 2012 - 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 2012 - 4

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

Micronaire								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			4.006	4.217	4.977	5.034		3.963
Reference Values for Evaluation			4.006	4.217	4.977	5.034		3.963
Number Of Instruments			159	159	159	159	159	159
Inter-Instrument Variation	based on 30 tests	SD	0.088	0.066	0.069	0.066	0.072	0.084
		CV %	2.2	1.6	1.4	1.3	1.6	2.1
	based on 6 tests	SD	0.094	0.071	0.071	0.070	0.076	0.086
		CV %	2.3	1.7	1.4	1.4	1.7	2.2
	based on single tests	SD	0.104	0.081	0.083	0.079	0.087	0.094
		CV %	2.6	1.9	1.7	1.6	1.9	2.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.027	0.026	0.025	0.028	0.027	0.026
		CV %	0.7	0.6	0.5	0.6	0.6	0.7
	between single tests on one day	SD	0.044	0.032	0.038	0.037	0.038	0.037
		CV %	1.1	0.7	0.8	0.7	0.8	0.9
	between all tests on different days	SD	0.050	0.044	0.049	0.047	0.047	0.048
		CV %	1.2	1.0	1.0	0.9	1.0	1.2

Strength								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			24.816	33.377	27.352	29.513		28.722
Reference Values for Evaluation			24.816	33.377	27.352	29.513		28.722
Number Of Instruments			160	159	160	159	160	159
Inter-Instrument Variation	based on 30 tests	SD	1.180	0.730	0.902	0.859	0.918	0.991
		CV %	4.8	2.2	3.3	2.9	3.3	3.4
	based on 6 tests	SD	1.257	0.892	0.946	0.965	1.015	1.060
		CV %	5.1	2.7	3.5	3.3	3.6	3.7
	based on single tests	SD	1.365	1.089	1.068	1.093	1.154	1.187
		CV %	5.5	3.3	3.9	3.7	4.1	4.1
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.298	0.356	0.345	0.336	0.334	0.345
		CV %	1.2	1.1	1.3	1.1	1.2	1.2
	between single tests on one day	SD	0.519	0.542	0.460	0.510	0.508	0.6
		CV %	2.1	1.6	1.7	1.7	1.8	1.9
	between all tests on different days	SD	0.627	0.679	0.587	0.598	0.623	0.664
		CV %	2.5	2.0	2.1	2.0	2.2	2.3

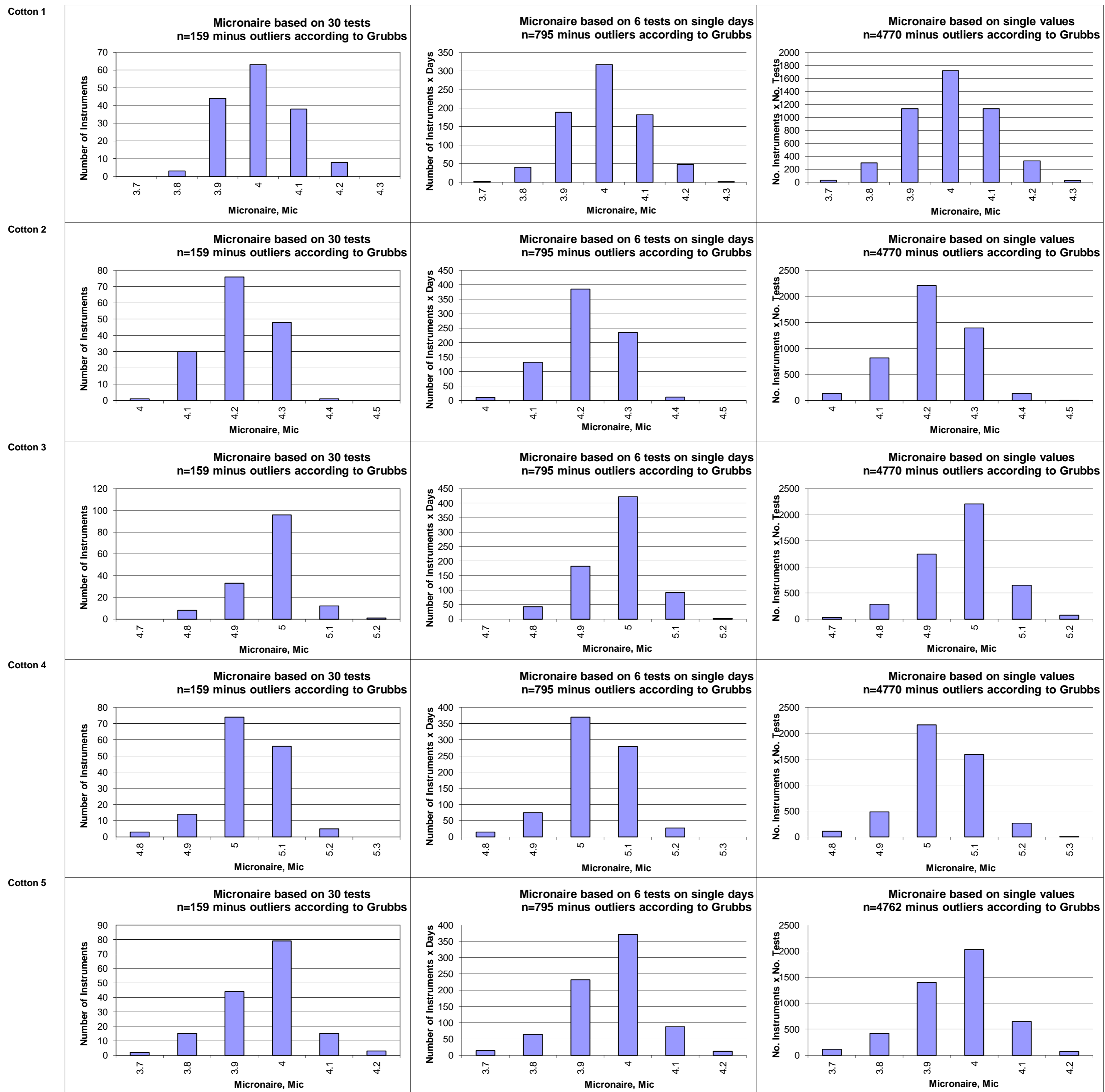
Length								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			0.9844	1.2237	1.0338	1.0794		1.1100
Reference Values for Evaluation			0.9844	1.2237	1.0338	1.0794		1.1100
Number Of Instruments			160	160	160	160	160	160
Inter-Instrument Variation	based on 30 tests	SD	0.0137	0.0120	0.0097	0.0099	0.0113	0.0109
		CV %	1.4	1.0	0.9	0.9	1.1	1.0
	based on 6 tests	SD	0.0153	0.0129	0.0119	0.0124	0.0131	0.0116
		CV %	1.6	1.1	1.1	1.1	1.2	1.0
	based on single tests	SD	0.0186	0.0161	0.0154	0.0153	0.0164	0.0159
		CV %	1.9	1.3	1.5	1.4	1.5	1.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0061	0.0054	0.0054	0.0053	0.0055	0.0054
		CV %	0.6	0.4	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.0110	0.0095	0.0096	0.0091	0.0098	0.0103
		CV %	1.1	0.8	0.9	0.8	0.9	0.9
	between all tests on different days	SD	0.0121	0.0107	0.0106	0.0103	0.0109	0.0116
		CV %	1.2	0.9	1.0	1.0	1.0	1.0

Uniformity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			79.610	83.619	79.294	83.311		80.152
Reference Values for Evaluation			79.610	83.619	79.294	83.311		80.152
Number Of Instruments			160	160	160	160	160	160
Inter-Instrument Variation	based on 30 tests	SD	0.517	0.438	0.418	0.516	0.472	0.430
		CV %	0.6	0.5	0.5	0.6	0.6	0.5
	based on 6 tests	SD	0.599	0.508	0.524	0.586	0.555	0.523
		CV %	0.8	0.6	0.7	0.7	0.7	0.7
	based on single tests	SD	0.822	0.703	0.755	0.732	0.753	0.774
		CV %	1.0	0.8	1.0	0.9	0.9	1.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.280	0.255	0.302	0.246	0.271	0.275
		CV %	0.4	0.3	0.4	0.3	0.3	0.3
	between single tests on one day	SD	0.532	0.465	0.488	0.433	0.479	0.524
		CV %	0.7	0.6	0.6	0.5	0.6	0.7
	between all tests on different days	SD	0.606	0.528	0.547	0.493	0.543	0.586
		CV %	0.8	0.6	0.7	0.6	0.7	0.7

Color Rd								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			75.121	76.343	78.334	73.584		80.252
Reference Values for Evaluation			75.121	76.343	78.334	73.584		80.252
Number Of Instruments			159	159	159	159	159	159
Inter-Instrument Variation	based on 30 tests	SD	0.765	0.952	0.690	0.769	0.794	1.125
		CV %	1.0	1.2	0.9	1.0	1.0	1.4
	based on 6 tests	SD	0.793	0.972	0.734	0.800	0.825	1.144
		CV %	1.1	1.3	0.9	1.1	1.1	1.4
	based on single tests	SD	0.848	0.991	0.756	0.822	0.854	1.158
		CV %	1.1	1.3	1.0	1.1	1.1	1.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.186	0.204	0.171	0.173	0.183	0.170
		CV %	0.2	0.3	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.236	0.208	0.201	0.203	0.212	0.198
		CV %	0.3	0.3	0.3	0.3	0.3	0.2
	between all tests on different days	SD	0.289	0.290	0.276	0.281	0.284	0.279
		CV %	0.4	0.4	0.4	0.4	0.4	0.3

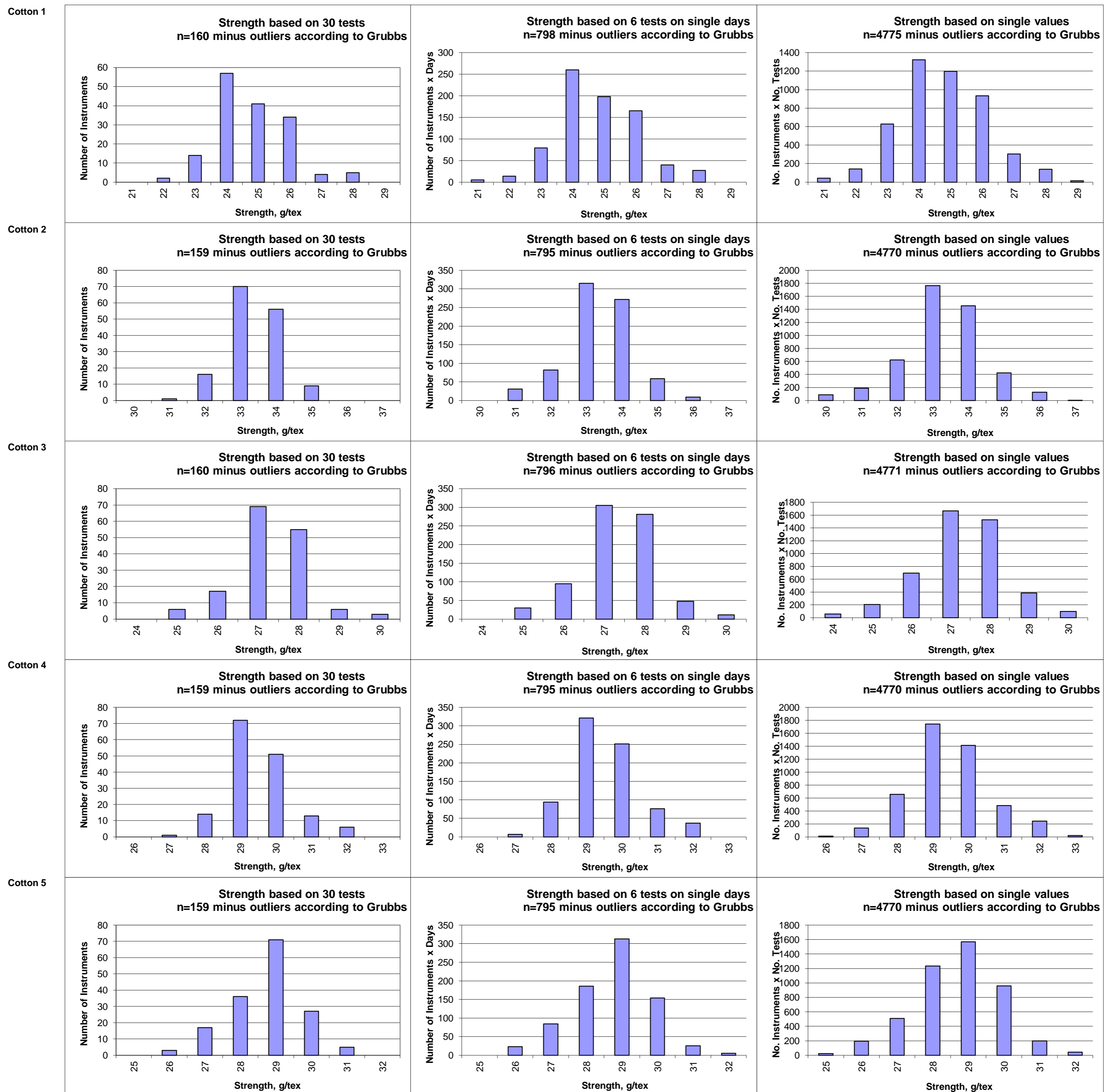
Color +b								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			10.405	12.812	7.661	10.674		9.583
Reference Values for Evaluation			10.405	12.812	7.661	10.674		9.583
Number Of Instruments			158	158	158	158	158	158
Inter-Instrument Variation	based on 30 tests	SD	0.267	0.378	0.293	0.311	0.312	0.292
		CV %	2.6	3.0	3.8	2.9	3.1	3.0
	based on 6 tests	SD	0.291	0.365	0.299	0.308	0.316	0.316
		CV %	2.8	2.8	3.9	2.9	3.1	3.3
	based on single tests	SD	0.311	0.404	0.322	0.340	0.344	0.344
		CV %	3.0	3.2	4.2	3.2	3.4	3.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.099	0.113	0.089	0.098	0.100	0.096
		CV %	1.0	0.9	1.2	0.9	1.0	1.0
	between single tests on one day	SD	0.106	0.114	0.096	0.107	0.106	0.108
		CV %	1.0	0.9	1.3	1.0	1.0	1.1
	between all tests on different days	SD	0.145	0.170	0.129	0.149	0.148	0.150
		CV %	1.4	1.3	1.7	1.4	1.5	1.6

Test Result Distributions
Micronaire



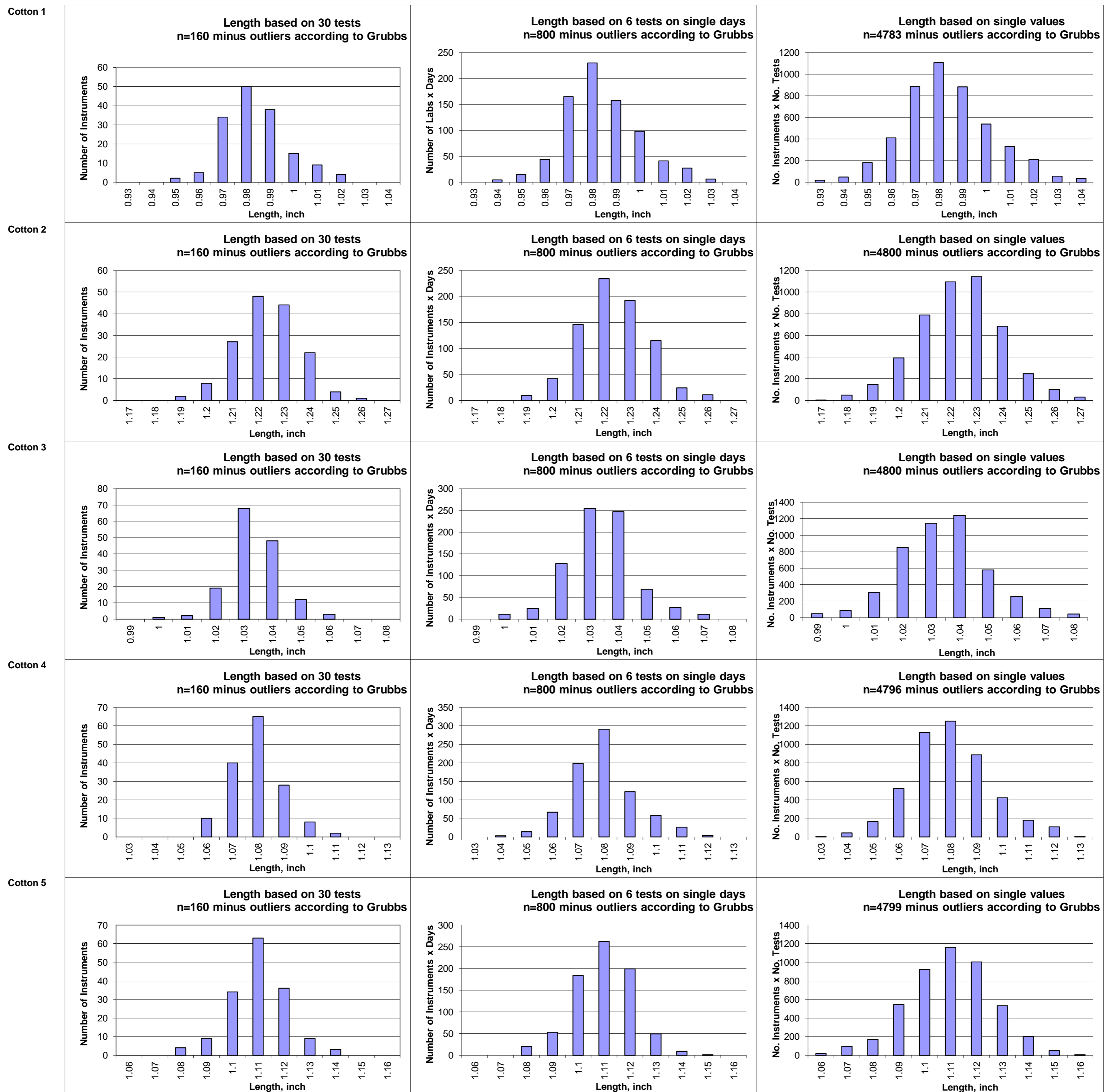
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



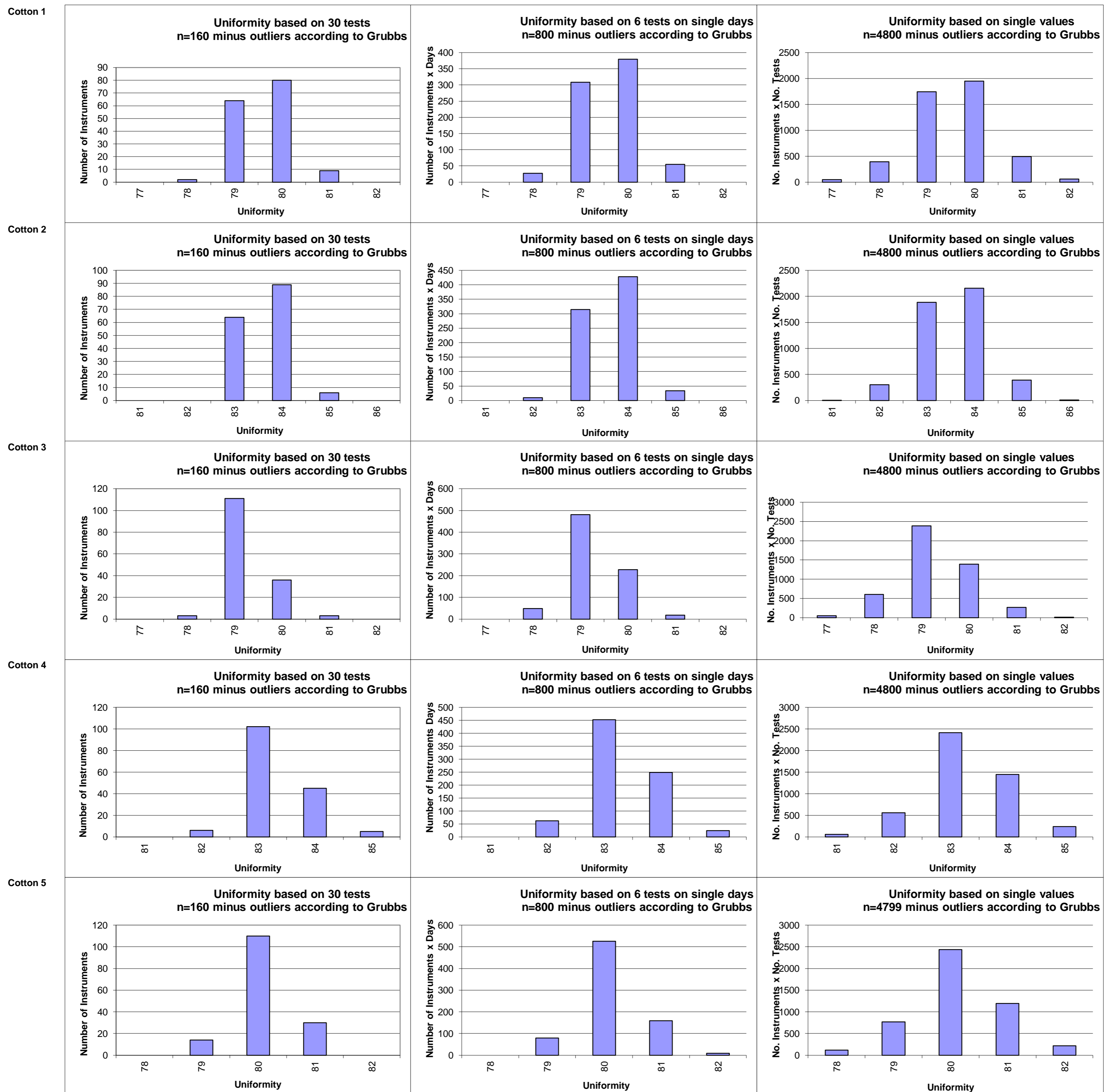
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Length



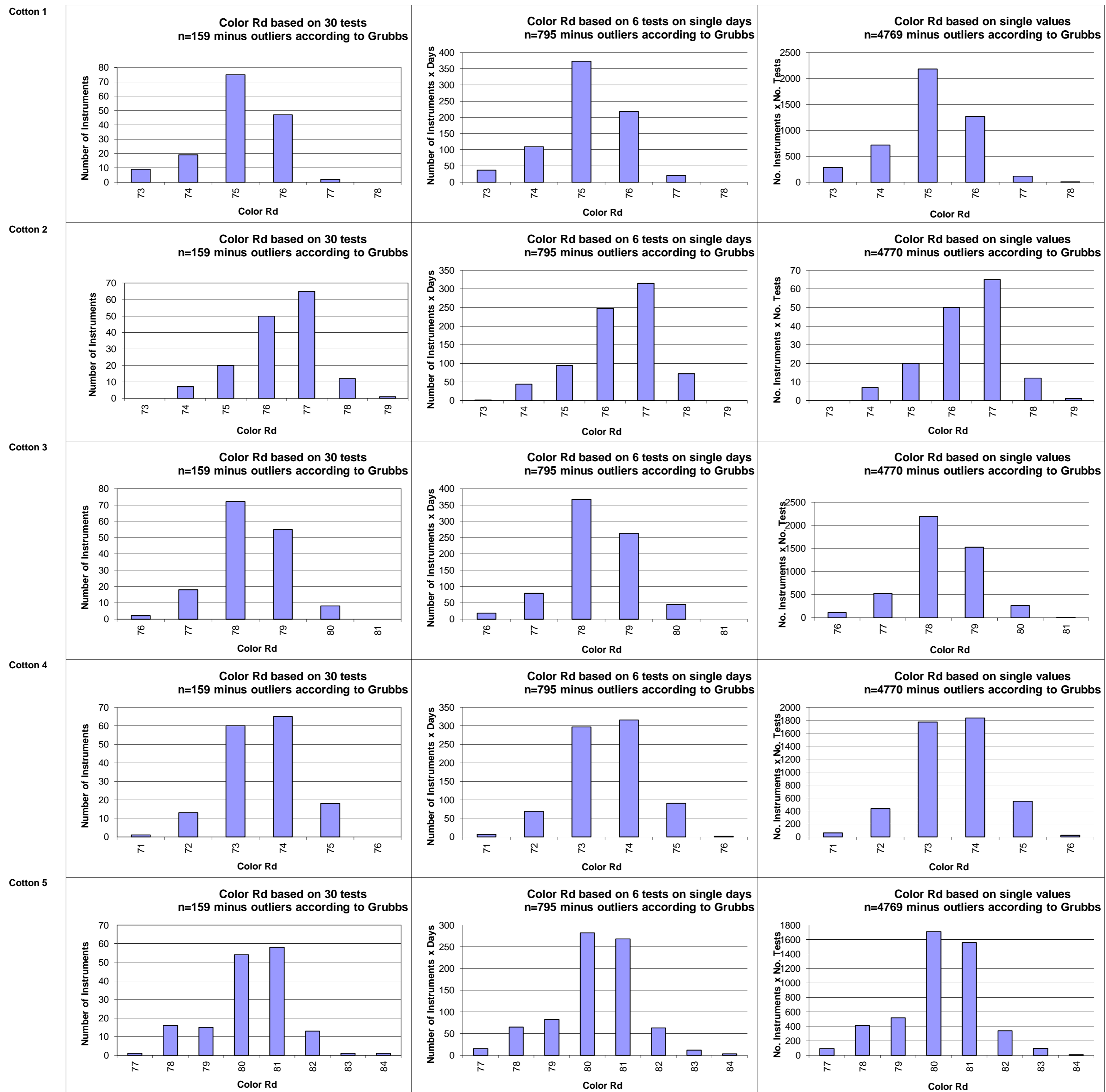
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Uniformity



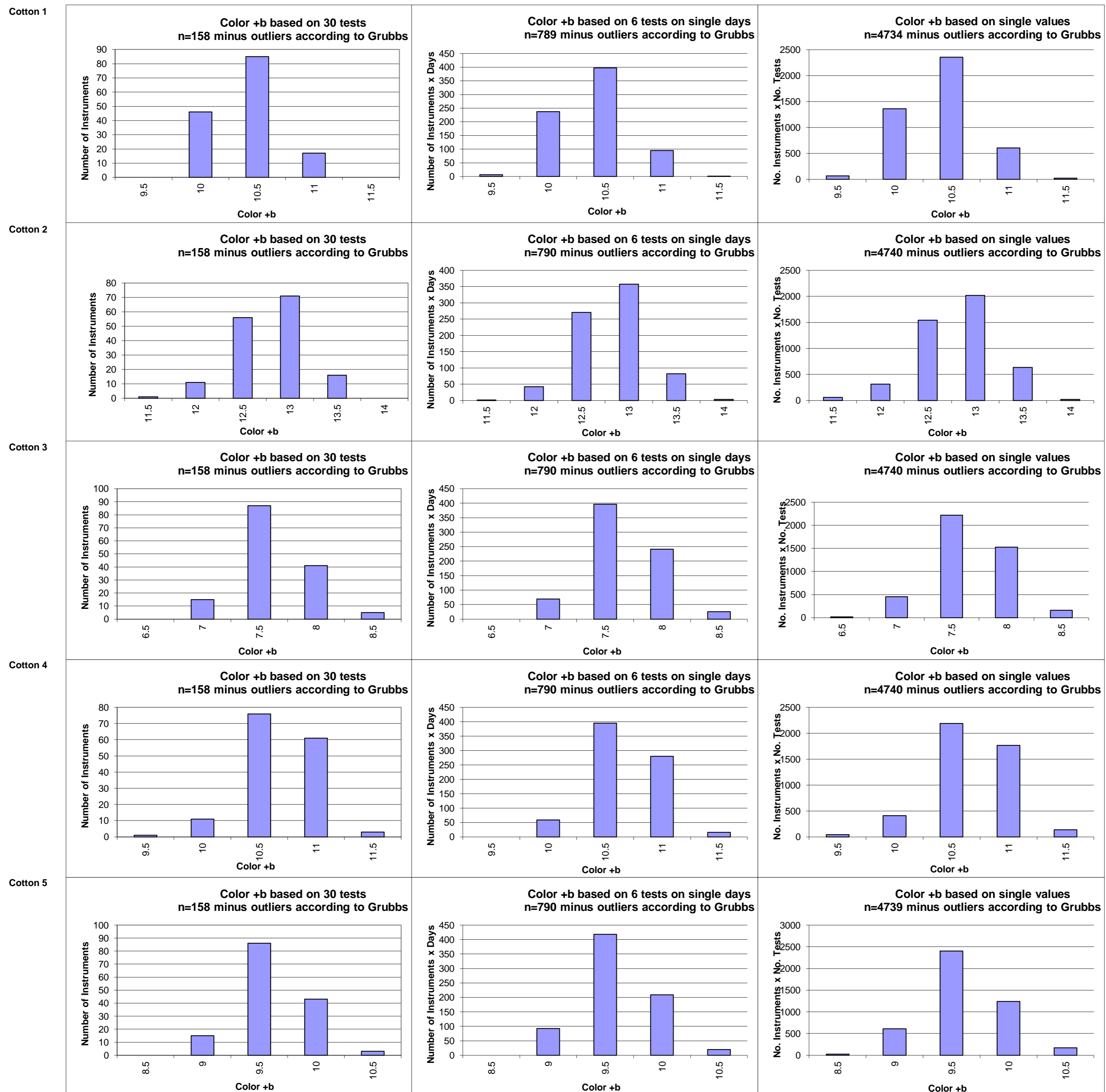
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Color Rd



(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

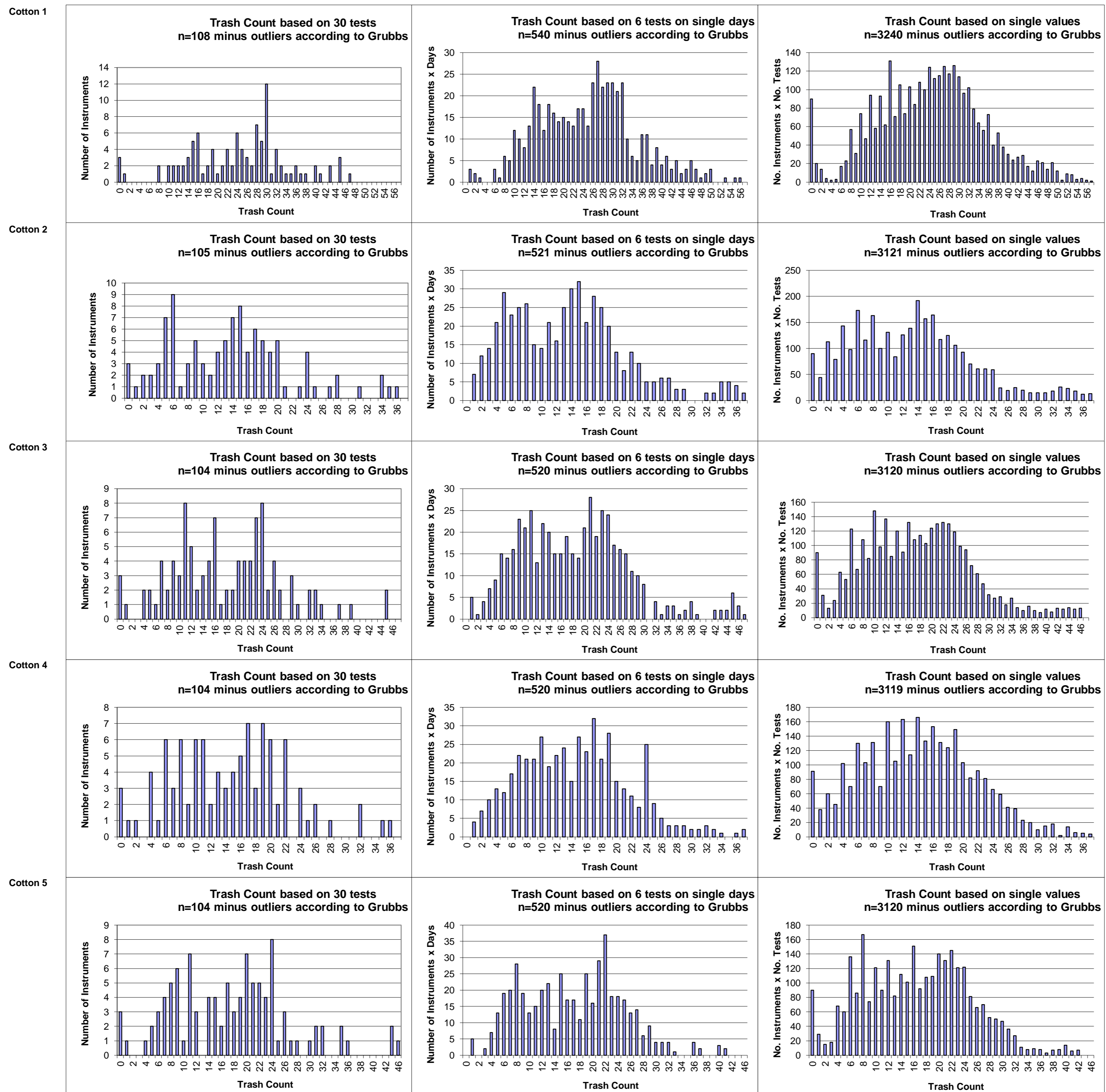
Trash Count								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			24.31	13.69	18.08	14.64		17.66
Reference Values for Evaluation			24.31	13.69	18.08	14.64		17.66
Number Of Instruments			108	105	104	104	105	104
Inter-Instrument Variation	based on 30 tests	SD	10.17	8.07	9.40	7.69	8.83	9.48
		CV %	41.8	58.9	52.0	52.5	51.3	53.7
	based on 6 tests	SD	10.66	7.98	9.58	7.45	8.92	8.39
		CV %	43.9	58.3	53.0	50.9	51.5	47.5
	based on single tests	SD	11.02	8.06	9.45	7.57	9.03	8.59
		CV %	45.3	58.8	52.3	51.7	52.0	48.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	2.69	1.54	1.94	1.88	2.01	1.83
		CV %	11.1	11.3	10.7	12.8	11.5	10.3
	between single tests on one day	SD	3.11	1.65	2.07	1.96	2.20	2.15
		CV %	12.8	12.1	11.5	13.4	12.4	12.2
	between all tests on different days	SD	4.29	2.30	3.07	2.82	3.12	3.33
		CV %	17.7	16.8	17.0	19.3	17.7	18.9

Trash Area								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			0.316	0.115	0.192	0.145		0.162
Reference Values for Evaluation			0.316	0.115	0.192	0.145		0.162
Number Of Instruments			108	105	104	104	105	104
Inter-Instrument Variation	based on 30 tests	SD	0.094	0.032	0.064	0.055	0.061	0.044
		CV %	29.7	28.0	33.3	37.8	32.2	27.5
	based on 6 tests	SD	0.108	0.039	0.071	0.050	0.067	0.062
		CV %	34.0	33.5	37.3	34.7	34.9	38.1
	based on single tests	SD	0.124	0.045	0.081	0.059	0.077	0.069
		CV %	39.0	39.2	42.5	40.6	40.4	42.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.046	0.015	0.033	0.024	0.030	0.025
		CV %	14.6	12.9	17.5	16.7	15.4	15.4
	between single tests on one day	SD	0.051	0.018	0.040	0.028	0.034	0.0
		CV %	16.1	15.2	20.8	19.1	17.8	19.0
	between all tests on different days	SD	0.078	0.028	0.051	0.039	0.049	0.046
		CV %	24.6	24.6	26.5	27.1	25.7	28.5

Maturity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			83.95	85.33	87.50	87.52		84.16
Reference Values for Evaluation			83.95	85.33	87.50	87.52		84.16
Number Of Instruments			101	101	97	97	99	97
Inter-Instrument Variation	based on 30 tests	SD	2.34	2.77	2.50	2.78	2.60	2.12
		CV %	2.8	3.2	2.9	3.2	3.0	2.5
	based on 6 tests	SD	2.17	2.53	2.43	2.82	2.48	1.92
		CV %	2.6	3.0	2.8	3.2	2.9	2.3
	based on single tests	SD	2.32	2.53	2.33	2.94	2.53	2.05
		CV %	2.8	3.0	2.7	3.4	2.9	2.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.25	0.28	0.22	0.27	0.25	0.29
		CV %	0.3	0.3	0.2	0.3	0.3	0.3
	between single tests on one day	SD	0.35	0.29	0.29	0.32	0.31	0.35
		CV %	0.4	0.3	0.3	0.4	0.4	0.4
	between all tests on different days	SD	0.47	0.47	0.47	0.48	0.47	0.48
		CV %	0.6	0.5	0.5	0.5	0.5	0.6

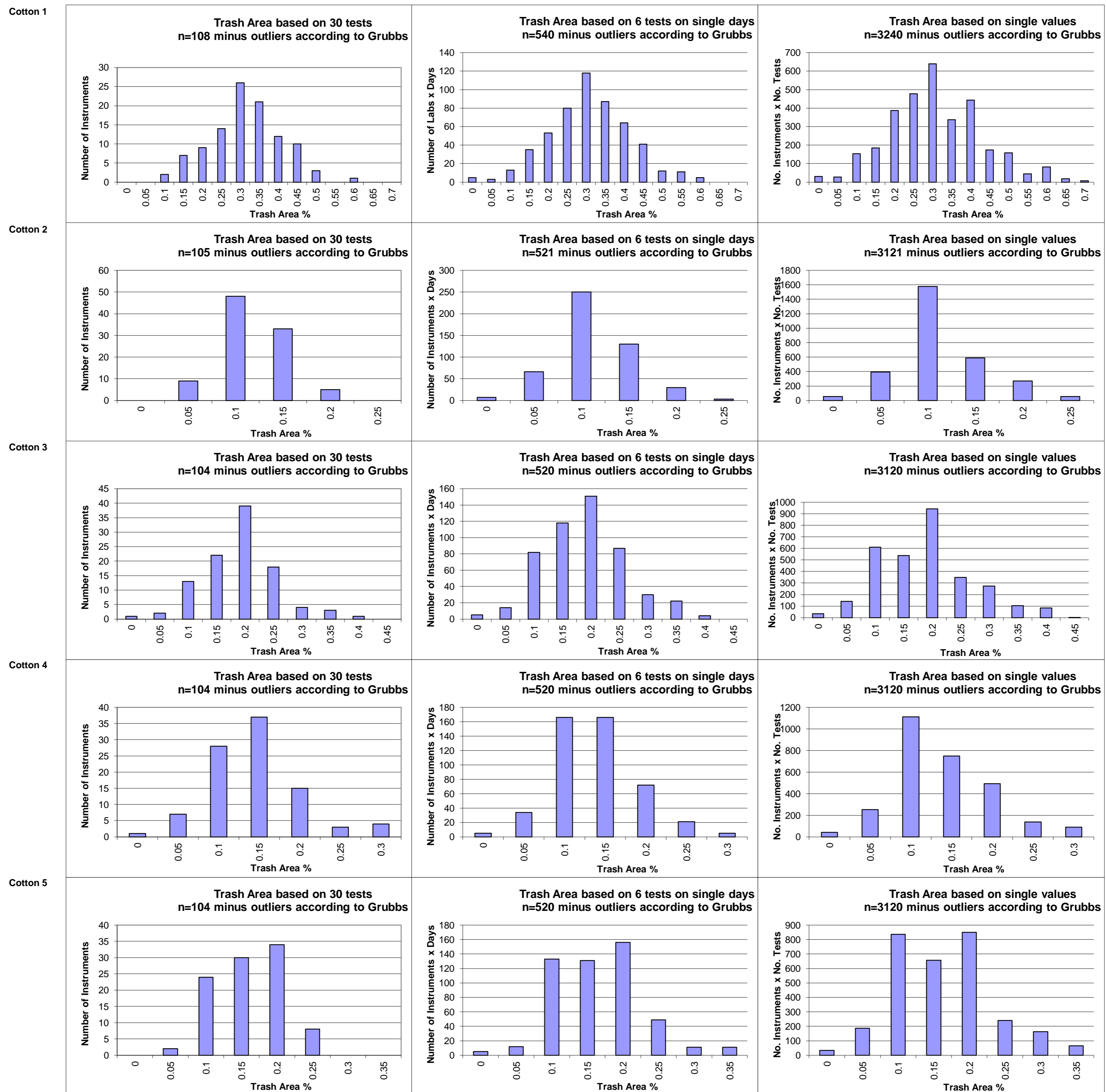
SFI								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			11.92	7.01	12.24	7.76		10.59
Reference Values for Evaluation			11.92	7.01	12.24	7.76		10.59
Number Of Instruments			116	115	112	112	114	112
Inter-Instrument Variation	based on 30 tests	SD	1.60	1.06	1.39	0.91	1.24	1.14
		CV %	13.4	15.1	11.3	11.7	12.9	10.8
	based on 6 tests	SD	1.26	1.07	1.28	0.91	1.13	1.03
		CV %	10.6	15.2	10.5	11.8	12.0	9.7
	based on single tests	SD	1.63	1.15	1.52	1.01	1.33	1.31
		CV %	13.6	16.4	12.4	13.0	13.9	12.3
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.40	0.20	0.37	0.23	0.30	0.31
		CV %	3.4	2.8	3.0	2.9	3.0	2.9
	between single tests on one day	SD	0.68	0.28	0.61	0.38	0.49	0.57
		CV %	5.7	4.0	5.0	4.9	4.9	5.4
	between all tests on different days	SD	0.81	0.34	0.70	0.44	0.57	0.63
		CV %	6.8	4.9	5.7	5.7	5.8	6.0

Test Result Distributions
Trash Count



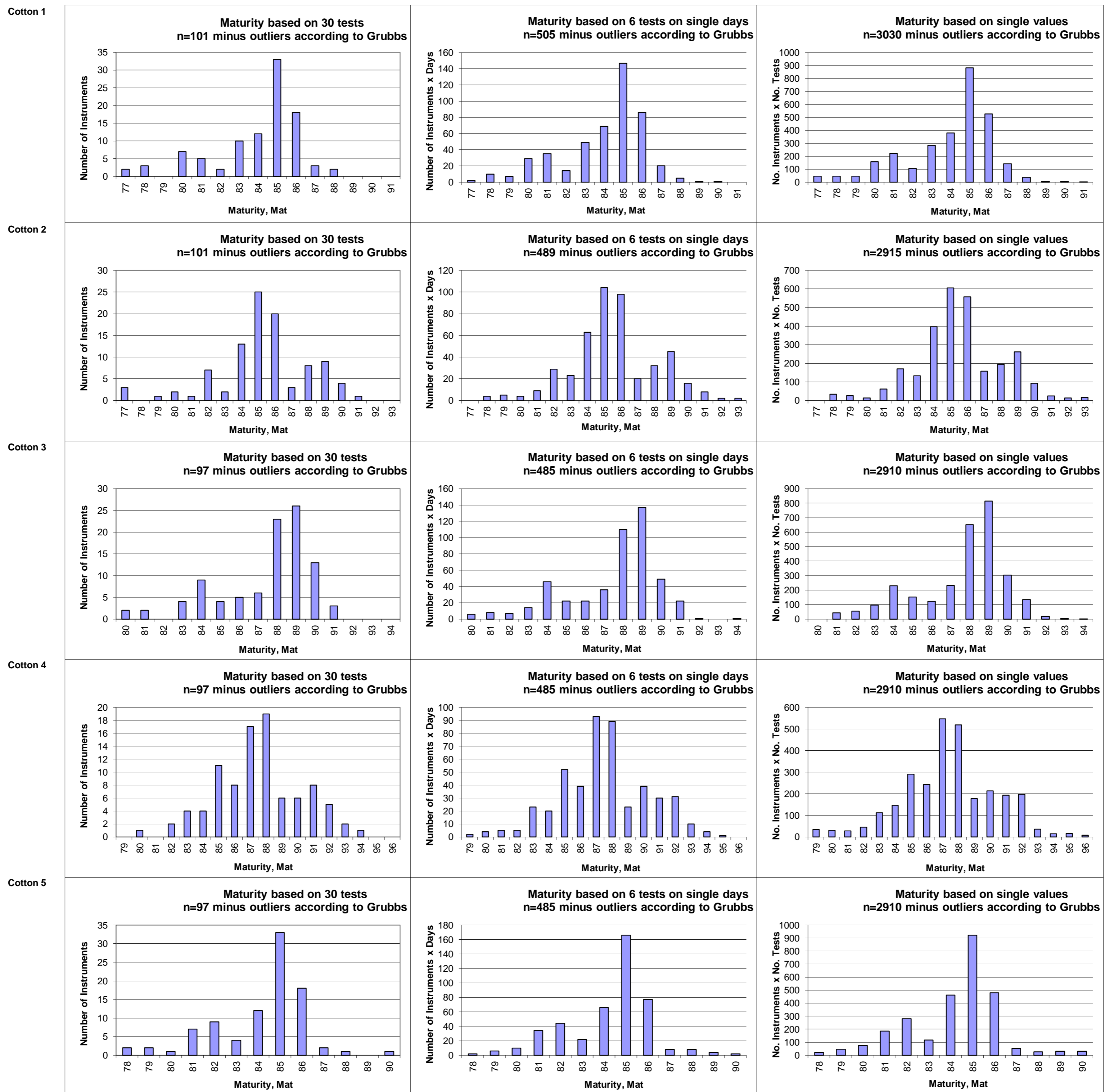
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



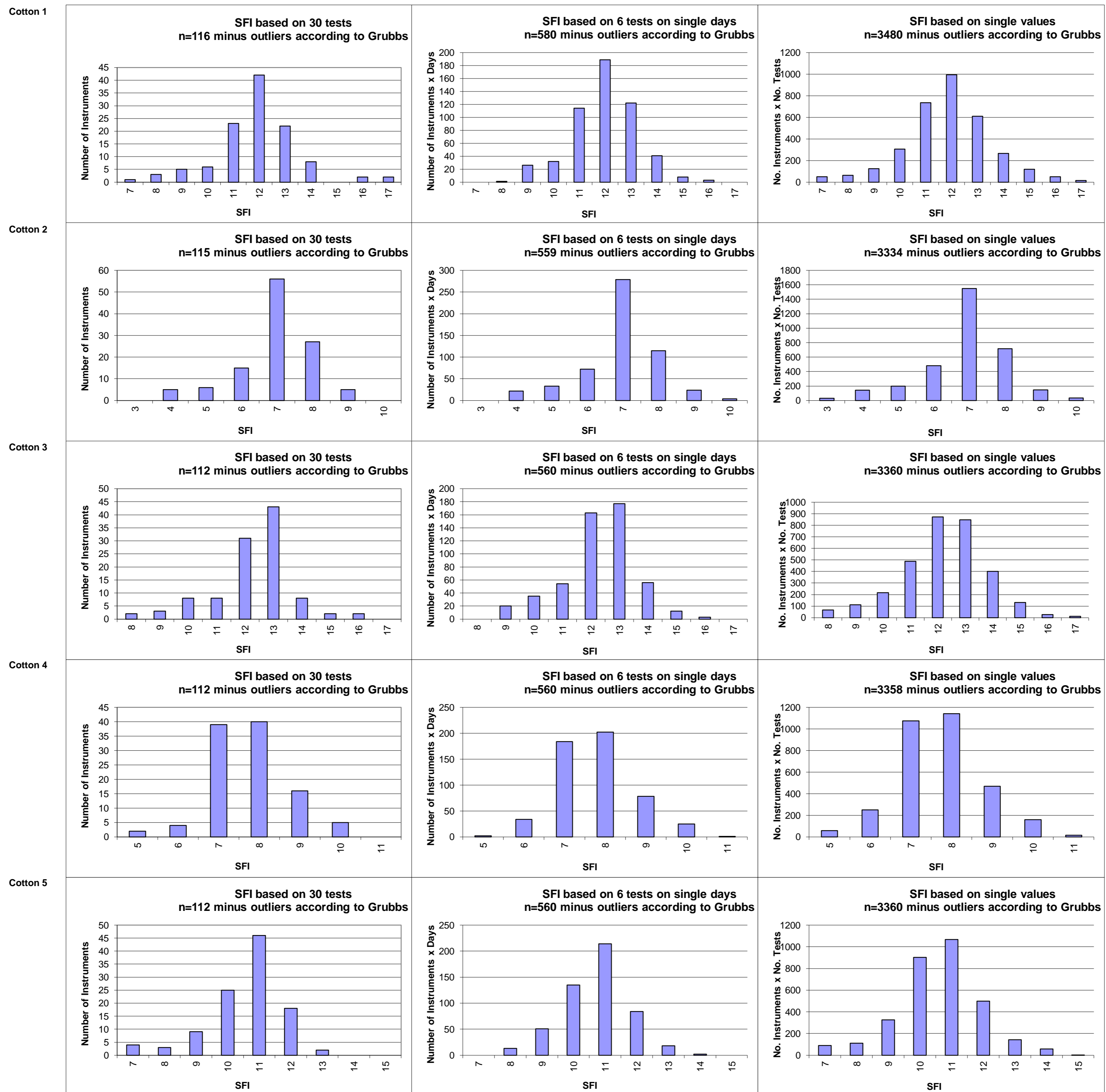
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(classes are defined as > lower limit and <= upper limit)

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)



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CSITC

Global - Round Trial 2012 - 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

System Provided by:

Generation 10 Limited



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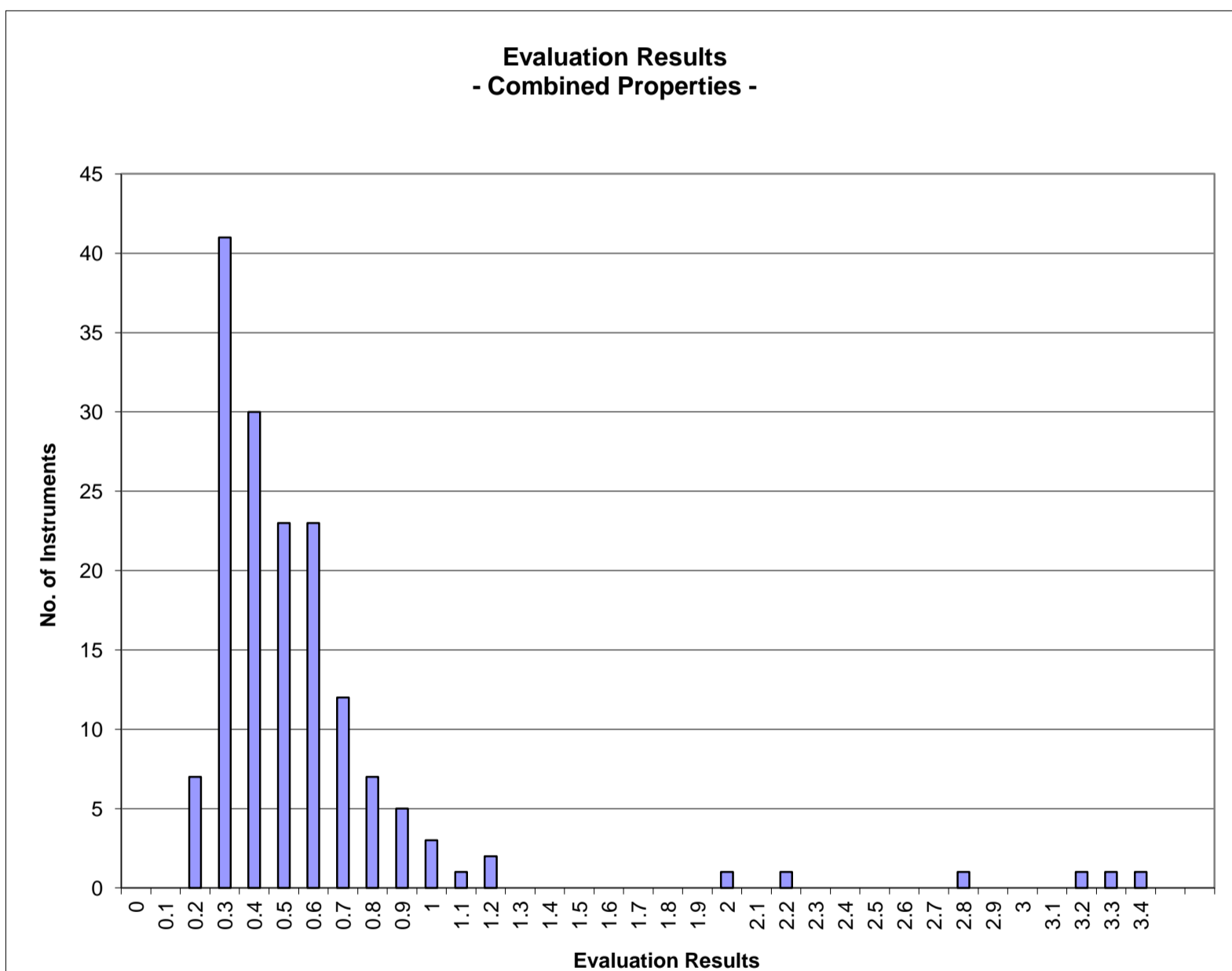
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2012 - 4

		Evaluation Combined Prop.
Statistics	Average	0.58
	Median	0.46
	Best Instrument	0.23
	Worst Instrument	3.39

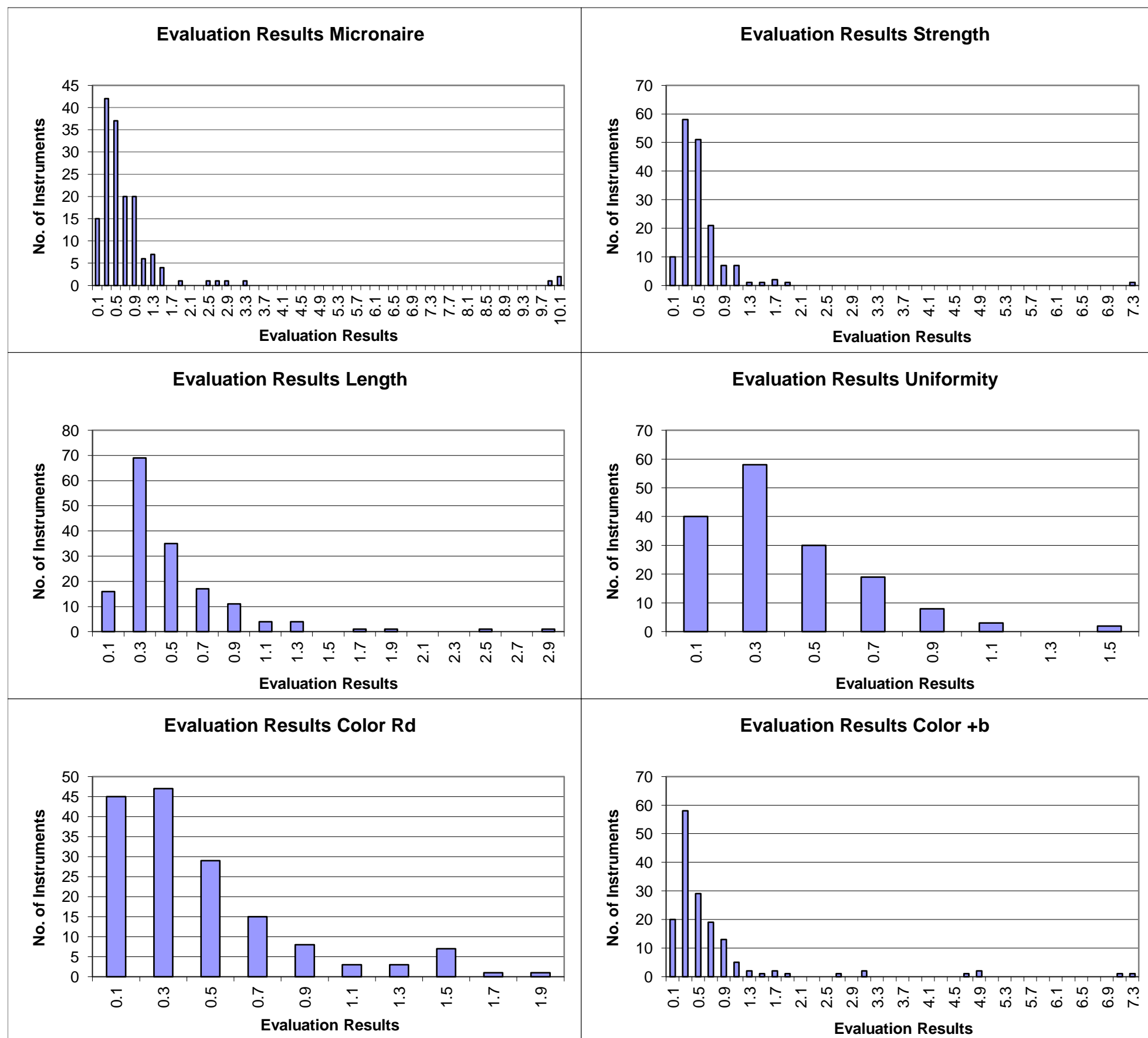


x-Axis shows midpoints of classes

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 2012 - 4

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.82	0.55	0.50	0.40	0.45	0.72
	Median	0.51	0.43	0.39	0.34	0.32	0.42
	Best Instr.	0.08	0.11	0.10	0.05	0.05	0.06
	Worst Instr.	10.16	7.24	2.96	1.58	1.84	7.21



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



International Cotton Advisory Committee



CSITC

Global - Round Trial 2012 - 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

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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	96.4	93.0	95.0	99.1	90.4	94.9
Completely within limits	92.5	79.4	88.1	96.9	81.8	90.5
% of Instruments ≥75% within limits	95.0	95.6	95.0	99.4	88.7	93.7
% of Instruments ≥50% within limits	98.7	98.1	98.1	100.0	93.1	96.8

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL124-001-01	100	100	100	100	100	100
GL124-001-09	100	100	100	100	100	100
GL124-002-01	75	100	100	100	100	100
GL124-003-02	100	75	100	100	100	100
GL124-003-06	100	75	100	100	100	100
GL124-004-01	100	100	100	100	100	100
GL124-004-02	100	100	100	100	100	100
GL124-005-02	50	100	100	100	100	100
GL124-006-04	100	100	50	100	25	100
GL124-007-01	100	100	100	100	75	100
GL124-008-01	50	100	100	100	100	100
GL124-010-01	100	100	100	100	100	100
GL124-011-01	100	100	100	100	100	75
GL124-011-02	100	100	100	100	100	100
GL124-012-04	100	75	50	100	50	0
GL124-013-01	100	0	75	100	75	0
GL124-014-01	100	100	25	100	100	100
GL124-015-01	100	100	100	100	100	50
GL124-015-08	100	100	100	100	100	50
GL124-016-01	100	100	100	100	100	100
GL124-017-01	100	75	100	100	100	100
GL124-018-01	100	100	100	100	100	100
GL124-018-02	100	100	100	100	100	100
GL124-018-03	100	100	100	100	100	100
GL124-018-04	100	100	100	100	100	100
GL124-018-05	100	100	100	100	100	100
GL124-018-06	100	100	100	100	100	100
GL124-019-01						
GL124-020-01	100	100	100	100	100	100
GL124-021-01	100	100	100	100	100	100
GL124-022-01	100	100	100	100	100	100
GL124-023-01	100	100	100	100	25	100
GL124-024-01	100	100	100	100	100	100
GL124-025-07	100	100	100	100	100	100
GL124-025-08	100	100	100	100	100	100
GL124-025-10	100	100	100	100	100	100
GL124-025-13	100	100	100	100	100	100
GL124-026-01	100	75	100	100	100	100
GL124-027-01	100	100	100	100	100	100

GL124-027-02	100	100	100	100	100	100
GL124-027-03	100	100	100	100	100	100
GL124-027-06	100	100	100	100	100	100
GL124-028-01	100	100	100	100	75	100
GL124-029-02	100	100	100	100	25	100
GL124-030-02	100	100	100	100	100	100
GL124-031-01	100	100	100	100	100	100
GL124-031-02	100	100	100	100	100	100
GL124-032-01	100	100	100	100	100	100
GL124-032-02	100	100	100	100	100	100
GL124-033-22	100	100	100	100	100	100
GL124-033-23	100	100	100	100	100	100
GL124-034-01	100	100	100	100	100	100
GL124-035-01	100	100	100	100	100	100
GL124-035-02	100	100	100	100	100	100
GL124-037-01	75	100	100	100	100	100
GL124-037-02	100	100	100	100	100	100
GL124-037-03	100	100	100	100	100	100
GL124-037-04	100	100	100	100	100	100
GL124-039-01	25	100	75	100	100	75
GL124-041-01	100	100	100	100	100	100
GL124-041-02	100	100	100	100	100	100
GL124-041-03	100	100	100	100	100	100
GL124-041-04	100	100	100	100	100	100
GL124-042-01	100	75	100	100	100	100
GL124-043-01	100	75	100	100	100	25
GL124-044-01	100	100	100	100	100	100
GL124-045-01	100	100	100	100	100	100
GL124-045-02	100	100	100	100	100	100
GL124-046-01	100	100	100	100	100	100
GL124-046-02	100	100	100	100	100	100
GL124-046-03	100	100	100	100	100	100
GL124-047-02	100	75	100	100	100	100
GL124-048-01	100	100	0	100	100	100
GL124-048-02	100	100	50	100	100	100
GL124-049-01	100	100	100	100	0	100
GL124-051-01	100	100	100	100	0	100
GL124-051-02		0	100	100		
GL124-052-40	100	100	100	100	100	100
GL124-052-46	100	100	100	100	75	100
GL124-054-01	100	100	0	100	100	100
GL124-054-02						
GL124-054-03	100	25	75	50	100	100
GL124-054-04	100	100	75	100	100	100
GL124-056-19	100	100	100	100	100	100
GL124-056-21	100	100	100	100	100	100
GL124-057-01	100	75	100	100	100	100
GL124-057-02	100	100	100	100	100	100
GL124-057-03	100	100	100	100	100	100
GL124-058-01	100	75	100	100	100	100
GL124-059-01	100	100	100	100	100	100
GL124-060-04	100	50	100	100	75	100
GL124-061-01	100	100	100	100	100	100
GL124-062-01	50	50	100	75	50	50
GL124-062-02	50	50	100	75	50	50
GL124-062-03	50	50	75	75	25	50
GL124-063-01	100	100	100	100	50	100
GL124-064-01	100	100	100	100	100	100
GL124-065-01	100	75	75	100	100	100
GL124-066-01	100	100	100	100	100	100

GL124-067-01	75	100	100	100	100	75
GL124-067-02	100	100	100	100	100	75
GL124-068-01	100	100	100	100	100	100
GL124-068-02	100	100	100	100	100	100
GL124-068-04	100	100	100	100	100	100
GL124-069-01	100	75	100	100	100	75
GL124-070-01	50	75	100	100	100	100
GL124-070-02	100	75	100	100	75	100
GL124-070-03	100	100	100	100	100	100
GL124-071-01	100	100	100	100	100	100
GL124-074-01	100	100	100	100	100	100
GL124-075-01	100	75	100	100	100	100
GL124-076-01	100	100	100	100	100	100
GL124-077-01	100	100	100	100	0	100
GL124-078-01	100	100	100	100	100	100
GL124-079-01	100	75	100	100	100	100
GL124-080-01	100	100	100	100	100	100
GL124-080-02	100	100	100	100	100	100
GL124-080-03	100	100	100	100	100	100
GL124-080-04	100	100	100	100	100	100
GL124-081-01	100	100	100	100	100	100
GL124-082-01	100	75	50	100	50	
GL124-083-01	100	100	50	100	50	100
GL124-083-02	75	100	75	100	50	100
GL124-084-07	100	100	100	100	100	100
GL124-084-08	100	75	100	100	100	100
GL124-084-09	100	100	100	100	100	100
GL124-086-01	100	100	100	100	25	100
GL124-087-15	100	100	100	100	100	100
GL124-087-20	100	100	100	100	75	100
GL124-088-01	100	75	75	100	25	25
GL124-088-02	100	75	75	100	25	25
GL124-089-01	100	100	100	100	100	100
GL124-090-01	100	100	100	100	100	100
GL124-090-03	100	100	100	100	100	100
GL124-091-01	100	100	75	100	100	100
GL124-092-01	100	100	100	100	100	100
GL124-092-15	100	100	100	100	100	100
GL124-092-22	100	100	100	100	100	100
GL124-094-03	100	100	100	100	100	100
GL124-095-01	100	100	100	100	100	100
GL124-095-02	100	100	100	100	100	100
GL124-095-03	100	100	100	100	100	100
GL124-095-04	100	100	100	100	100	100
GL124-096-03	100	100	100	100	100	100
GL124-097-01	100	100	100	100	75	100
GL124-097-03	100	100	100	100	75	100
GL124-097-04	100	100	100	100	100	100
GL124-098-03	100	100	100	100	100	100
GL124-099-01	100	100	100	100	100	100
GL124-099-03	100	100	100	100	100	100
GL124-100-01	100	75	100	100	100	100
GL124-100-02	100	75	100	100	100	100
GL124-100-04	100	75	100	100	75	100
GL124-100-05	100	75	100	100	100	100
GL124-101-08	100	75	100	100	100	100
GL124-101-09	100	100	100	100	100	100
GL124-102-01	100	100	100	75	100	100
GL124-103-02	100	75	100	100	100	100
GL124-103-03	100	100	75	100	75	100

GL124-103-04	100	100	100	100	25	100
GL124-103-06	0	100	100	100	100	100
GL124-103-07	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	93.7	88.3	93.1	96.9	87.9	94.2
% of Instruments 100% within limits	51.6	26.3	27.5	55.6	52.2	75.3
% of Instruments ≥95% within limits	73.0	46.9	70.0	84.4	66.0	86.1
% of Instruments ≥75% within limits	92.5	88.8	91.9	97.5	82.4	92.4
% of Instruments ≥65% within limits	95.0	93.1	95.0	100.0	87.4	94.9
% of Instruments ≥50% within limits	96.9	96.9	98.8	100.0	89.9	94.9

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL124-001-01	100	99	98	100	100	100
GL124-001-09	99	98	99	100	100	100
GL124-002-01	58	88	93	100	83	100
GL124-003-02	92	75	86	100	100	100
GL124-003-06	93	76	86	100	100	100
GL124-004-01	100	100	100	100	100	100
GL124-004-02	100	100	98	100	100	100
GL124-005-02	92	82	99	100	98	100
GL124-006-04	93	78	64	99	28	100
GL124-007-01	100	99	88	98	68	100
GL124-008-01	63	98	73	98	88	90
GL124-010-01	100	91	100	99	100	100
GL124-011-01	100	100	100	100	100	80
GL124-011-02	100	100	100	100	100	100
GL124-012-04	87	75	63	69	33	2
GL124-013-01	66	35	79	73	59	0
GL124-014-01	82	78	55	98	87	100
GL124-015-01	100	95	99	100	100	69
GL124-015-08	99	91	97	99	100	68
GL124-016-01	100	85	99	98	100	100
GL124-017-01	99	83	97	99	69	98
GL124-018-01	100	100	99	100	100	100
GL124-018-02	100	100	100	100	100	100
GL124-018-03	99	100	100	98	100	100
GL124-018-04	98	100	100	100	100	100
GL124-018-05	100	100	100	100	100	100
GL124-018-06	100	100	100	100	100	100
GL124-019-01						
GL124-020-01	99	82	76	95	98	100
GL124-021-01	89	92	98	100	87	76
GL124-022-01	100	98	96	98	100	100
GL124-023-01	100	90	98	97	18	99
GL124-024-01	80	100	100	99	88	100
GL124-025-07	82	99	93	100	100	98
GL124-025-08	85	100	96	100	100	99
GL124-025-10	98	93	85	90	98	70

GL124-025-13	99	86	83	97	100	82
GL124-026-01	100	75	78	93	89	100
GL124-027-01	97	100	97	100	100	100
GL124-027-02	100	100	98	100	100	100
GL124-027-03	100	100	98	100	100	100
GL124-027-06	97	100	97	100	100	100
GL124-028-01	92	100	100	100	61	98
GL124-029-02	100	98	99	100	40	100
GL124-030-02	100	82	94	99	98	99
GL124-031-01	100	98	100	100	100	100
GL124-031-02	100	100	100	100	100	100
GL124-032-01	100	99	99	100	100	100
GL124-032-02	100	94	98	100	98	100
GL124-033-22	100	88	99	100	100	100
GL124-033-23	100	98	100	100	100	100
GL124-034-01	100	97	79	79	89	100
GL124-035-01	100	88	100	100	100	100
GL124-035-02	100	93	100	100	100	100
GL124-037-01	98	100	100	100	100	100
GL124-037-02	99	100	100	100	100	100
GL124-037-03	100	100	100	100	100	100
GL124-037-04	100	100	100	100	100	100
GL124-039-01	27	73	87	94	99	67
GL124-041-01	100	100	100	100	100	100
GL124-041-02	100	98	100	100	100	100
GL124-041-03	100	100	100	100	100	100
GL124-041-04	99	100	100	100	100	100
GL124-042-01	100	75	98	98	98	100
GL124-043-01	68	73	92	91	100	29
GL124-044-01	98	96	100	94	99	99
GL124-045-01	100	88	95	98	84	100
GL124-045-02	98	92	98	100	94	96
GL124-046-01	100	100	96	100	100	100
GL124-046-02	100	100	98	100	100	100
GL124-046-03	100	100	98	100	100	100
GL124-047-02	95	67	96	100	100	100
GL124-048-01	83	99	19	93	98	90
GL124-048-02	98	94	61	90	95	95
GL124-049-01	98	91	93	97	17	95
GL124-051-01	100	96	92	92	23	100
GL124-051-02		0	90	92		
GL124-052-40	100	100	100	100	95	100
GL124-052-46	100	99	100	100	79	100
GL124-054-01	85	73	24	88	94	100
GL124-054-02						
GL124-054-03	88	44	60	65	98	98
GL124-054-04	90	89	62	78	71	100
GL124-056-19	100	94	100	100	100	100
GL124-056-21	100	95	100	100	100	100
GL124-057-01	100	63	97	99	98	100
GL124-057-02	100	95	98	100	87	98
GL124-057-03	100	97	100	100	84	100
GL124-058-01	97	71	99	100	100	100
GL124-059-01	93	99	100	100	98	100
GL124-060-04	100	60	99	98	84	100
GL124-061-01	100	98	98	98	100	100
GL124-062-01	48	36	96	80	43	48
GL124-062-02	49	53	98	85	43	44
GL124-062-03	50	48	93	83	17	45
GL124-063-01	90	92	96	100	46	88

GL124-064-01	99	80	100	100	100	100
GL124-065-01	92	82	86	100	100	100
GL124-066-01	99	95	99	98	100	100
GL124-067-01	73	88	88	100	100	78
GL124-067-02	99	95	92	99	100	79
GL124-068-01	100	97	98	99	100	100
GL124-068-02	100	88	98	100	100	100
GL124-068-04	100	94	100	100	95	100
GL124-069-01	90	78	93	98	100	81
GL124-070-01	44	54	98	78	83	100
GL124-070-02	97	62	98	97	68	100
GL124-070-03	93	78	82	78	69	100
GL124-071-01	99	93	100	100	96	100
GL124-074-01	88	100	98	99	99	99
GL124-075-01	97	75	100	100	94	100
GL124-076-01	71	95	99	98	100	100
GL124-077-01	95	99	93	88	20	98
GL124-078-01	100	100	97	100	100	100
GL124-079-01	92	75	100	100	100	100
GL124-080-01	100	100	99	100	100	100
GL124-080-02	100	100	99	100	100	100
GL124-080-03	100	100	99	100	100	100
GL124-080-04	100	100	99	99	100	100
GL124-081-01	100	89	100	100	100	100
GL124-082-01	100	78	74	98	43	
GL124-083-01	85	98	66	98	56	100
GL124-083-02	84	90	70	87	63	100
GL124-084-07	100	77	98	98	100	100
GL124-084-08	100	64	99	99	100	100
GL124-084-09	100	95	98	98	100	100
GL124-086-01	100	94	100	98	25	100
GL124-087-15	100	92	99	100	100	100
GL124-087-20	96	83	100	100	86	100
GL124-088-01	100	79	79	96	29	30
GL124-088-02	100	79	79	96	29	30
GL124-089-01	100	92	88	91	89	81
GL124-090-01	100	87	100	100	99	100
GL124-090-03	100	98	100	98	94	100
GL124-091-01	98	90	74	98	99	100
GL124-092-01	98	94	99	100	100	100
GL124-092-15	99	88	98	98	100	100
GL124-092-22	98	94	99	100	100	100
GL124-094-03	100	94	98	100	100	100
GL124-095-01	100	100	100	100	100	100
GL124-095-02	100	99	100	100	100	100
GL124-095-03	100	100	100	100	100	100
GL124-095-04	100	100	97	100	100	100
GL124-096-03	100	98	99	100	100	100
GL124-097-01	98	100	99	100	69	100
GL124-097-03	89	100	99	100	77	100
GL124-097-04	100	100	98	100	92	100
GL124-098-03	93	75	94	95	95	100
GL124-099-01	100	96	88	97	83	100
GL124-099-03	100	100	98	100	100	100
GL124-100-01	100	77	96	100	98	100
GL124-100-02	100	77	99	100	87	100
GL124-100-04	85	77	96	100	72	100
GL124-100-05	100	77	99	100	87	100
GL124-101-08	87	83	99	99	100	100
GL124-101-09	100	91	94	100	100	100

GL124-102-01	88	74	89	73	96	99
GL124-103-02	91	78	99	99	81	100
GL124-103-03	99	76	78	96	70	97
GL124-103-04	93	90	88	100	38	100
GL124-103-06	12	68	92	86	100	100
GL124-103-07	99	90	93	99	81	95