



International Cotton Advisory Committee



CSITC

Global - Round Trial 2012 - 3

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 - 3

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)			3.195	4.521	4.203	3.292		5.236
Reference Values for Evaluation			3.195	4.521	4.203	3.292		5.236
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.068	0.066	0.060	0.075	0.067	0.056
		CV %	2.1	1.5	1.4	2.3	1.8	1.1
	based on 6 tests	SD	0.074	0.069	0.063	0.079	0.071	0.077
		CV %	2.3	1.5	1.5	2.4	1.9	1.5
	based on single tests	SD	0.081	0.081	0.074	0.085	0.080	0.089
		CV %	2.5	1.8	1.8	2.6	2.2	1.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.021	0.027	0.025	0.022	0.024	0.029
		CV %	0.6	0.6	0.6	0.7	0.6	0.5
	between single tests on one day	SD	0.031	0.040	0.034	0.032	0.034	0.037
		CV %	1.0	0.9	0.8	1.0	0.9	0.7
	between all tests on different days	SD	0.037	0.049	0.044	0.039	0.042	0.048
		CV %	1.2	1.1	1.0	1.2	1.1	0.9

Strength								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			31.025	29.343	33.180	29.302		27.300
Reference Values for Evaluation			31.025	29.343	33.180	29.302		27.300
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.966	0.573	0.737	0.716	0.748	0.778
		CV %	3.1	2.0	2.2	2.4	2.4	2.8
	based on 6 tests	SD	1.020	0.703	0.860	0.827	0.852	0.901
		CV %	3.3	2.4	2.6	2.8	2.8	3.3
	based on single tests	SD	1.139	0.942	1.001	1.052	1.033	1.075
		CV %	3.7	3.2	3.0	3.6	3.4	3.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.374	0.311	0.355	0.363	0.351	0.361
		CV %	1.2	1.1	1.1	1.2	1.1	1.3
	between single tests on one day	SD	0.573	0.580	0.537	0.507	0.549	0.5
		CV %	1.8	2.0	1.6	1.7	1.8	2.0
	between all tests on different days	SD	0.653	0.652	0.647	0.623	0.644	0.628
		CV %	2.1	2.2	2.0	2.1	2.1	2.3

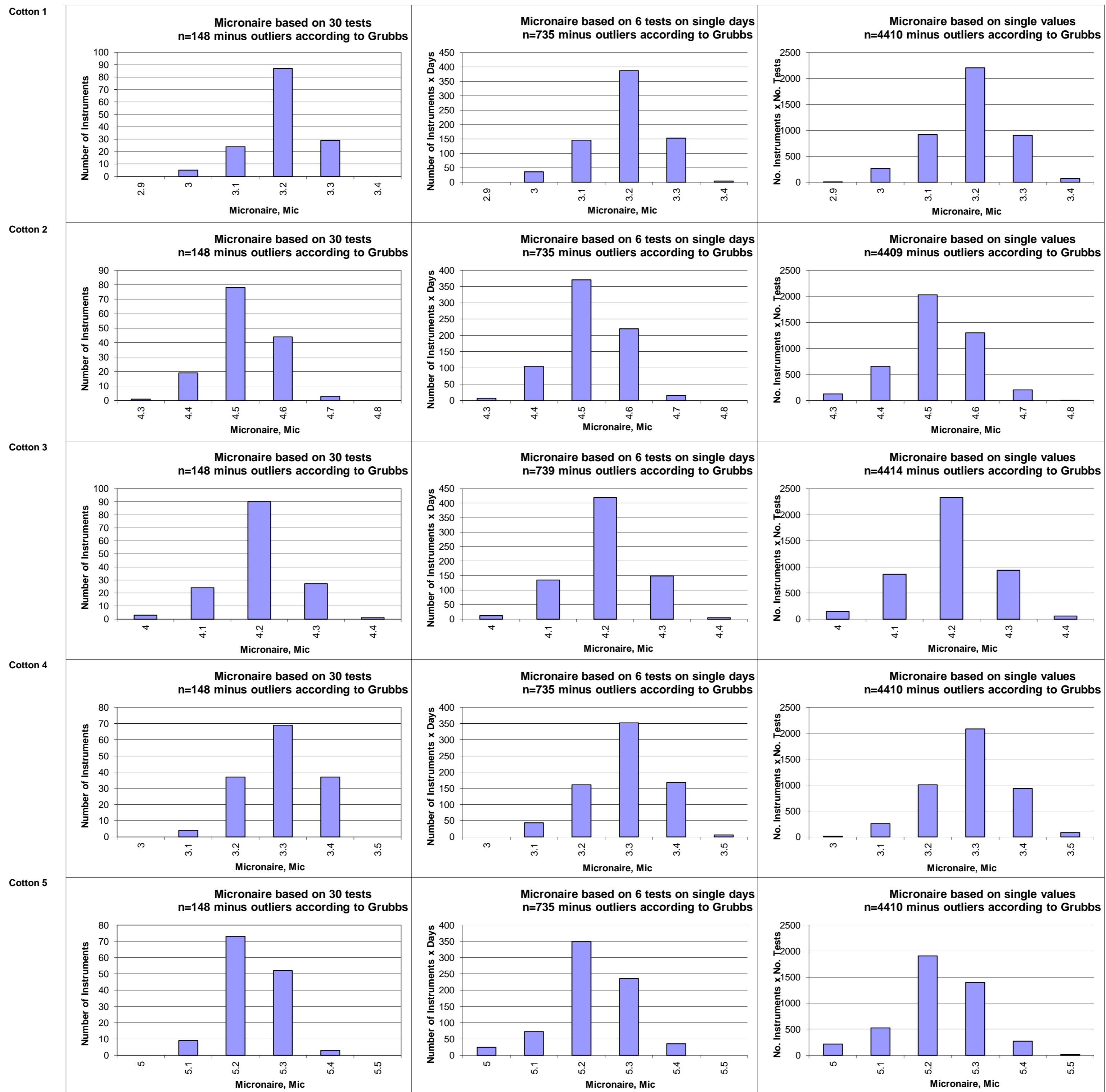
Length								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			1.0744	1.1073	1.2202	1.1207		1.0092
Reference Values for Evaluation			1.0744	1.1073	1.2202	1.1207		1.0092
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.0101	0.0104	0.0113	0.0088	0.0102	0.0100
		CV %	0.9	0.9	0.9	0.8	0.9	1.0
	based on 6 tests	SD	0.0114	0.0111	0.0123	0.0110	0.0115	0.0114
		CV %	1.1	1.0	1.0	1.0	1.0	1.1
	based on single tests	SD	0.0151	0.0156	0.0157	0.0145	0.0152	0.0151
		CV %	1.4	1.4	1.3	1.3	1.3	1.5
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0049	0.0060	0.0060	0.0054	0.0056	0.0051
		CV %	0.5	0.5	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.0097	0.0109	0.0098	0.0094	0.0099	0.0099
		CV %	0.9	1.0	0.8	0.8	0.9	1.0
	between all tests on different days	SD	0.0106	0.0122	0.0114	0.0107	0.0112	0.0111
		CV %	1.0	1.1	0.9	1.0	1.0	1.1

Uniformity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			80.238	81.333	83.496	81.383		79.564
Reference Values for Evaluation			80.238	81.333	83.496	81.383		79.564
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.461	0.457	0.398	0.450	0.441	0.476
		CV %	0.6	0.6	0.5	0.6	0.5	0.6
	based on 6 tests	SD	0.532	0.557	0.470	0.538	0.524	0.591
		CV %	0.7	0.7	0.6	0.7	0.6	0.7
	based on single tests	SD	0.739	0.792	0.652	0.748	0.733	0.773
		CV %	0.9	1.0	0.8	0.9	0.9	1.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.270	0.302	0.262	0.238	0.268	0.269
		CV %	0.3	0.4	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.518	0.556	0.453	0.485	0.503	0.515
		CV %	0.6	0.7	0.5	0.6	0.6	0.6
	between all tests on different days	SD	0.570	0.615	0.517	0.539	0.560	0.556
		CV %	0.7	0.8	0.6	0.7	0.7	0.7

Color Rd								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			77.091	74.802	76.323	71.226		79.981
Reference Values for Evaluation			77.091	74.802	76.323	71.226		79.981
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.949	0.629	1.043	1.147	0.942	0.919
		CV %	1.2	0.8	1.4	1.6	1.3	1.1
	based on 6 tests	SD	0.983	0.692	1.046	1.163	0.971	0.980
		CV %	1.3	0.9	1.4	1.6	1.3	1.2
	based on single tests	SD	1.025	0.728	1.052	1.183	0.997	1.016
		CV %	1.3	1.0	1.4	1.7	1.3	1.3
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.166	0.176	0.155	0.177	0.168	0.192
		CV %	0.2	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.224	0.255	0.187	0.206	0.218	0.220
		CV %	0.3	0.3	0.2	0.3	0.3	0.3
	between all tests on different days	SD	0.296	0.324	0.257	0.263	0.285	0.298
		CV %	0.4	0.4	0.3	0.4	0.4	0.4

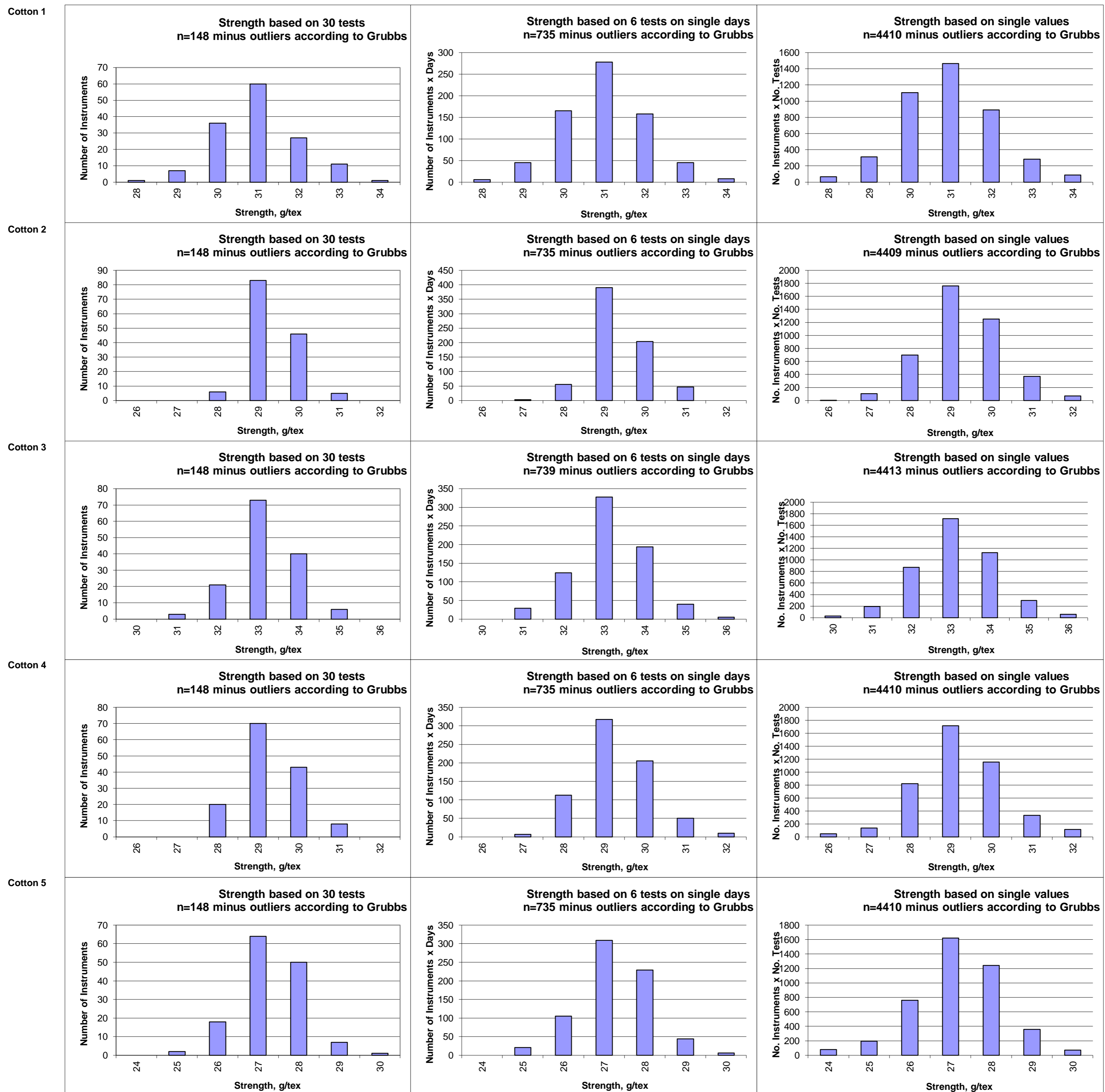
Color +b								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			12.003	7.426	12.746	14.186		8.355
Reference Values for Evaluation			12.003	7.426	12.746	14.186		8.355
Number Of Instruments			148	148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.364	0.273	0.401	0.475	0.378	0.314
		CV %	3.0	3.7	3.1	3.4	3.3	3.8
	based on 6 tests	SD	0.381	0.294	0.419	0.503	0.399	0.328
		CV %	3.2	4.0	3.3	3.5	3.5	3.9
	based on single tests	SD	0.400	0.348	0.446	0.511	0.426	0.353
		CV %	3.3	4.7	3.5	3.6	3.8	4.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.116	0.107	0.125	0.124	0.118	0.097
		CV %	1.0	1.4	1.0	0.9	1.1	1.2
	between single tests on one day	SD	0.116	0.115	0.120	0.114	0.116	0.101
		CV %	1.0	1.5	0.9	0.8	1.1	1.2
	between all tests on different days	SD	0.180	0.164	0.187	0.182	0.178	0.147
		CV %	1.5	2.2	1.5	1.3	1.6	1.8

Test Result Distributions
Micronaire



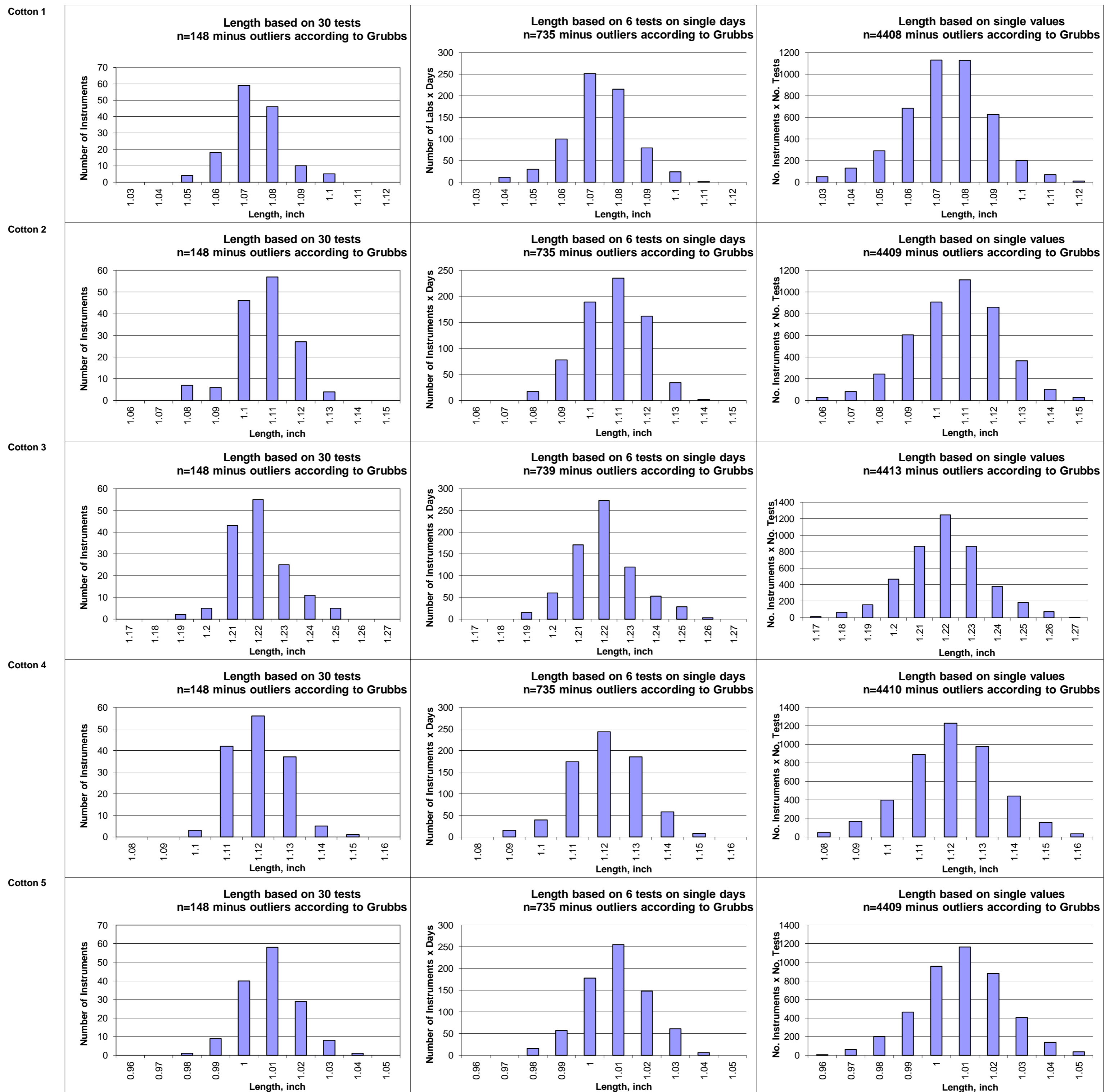
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



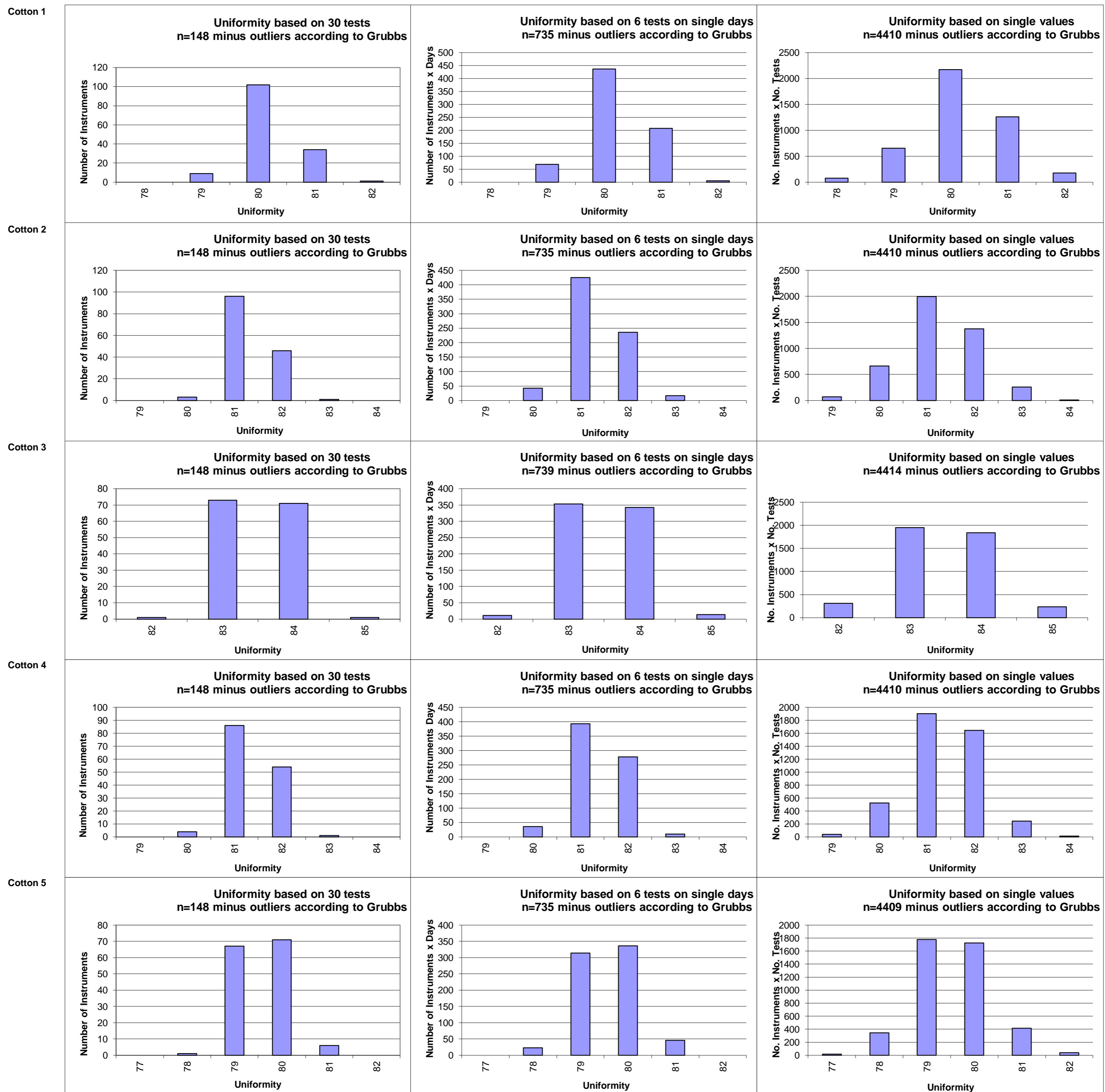
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Length



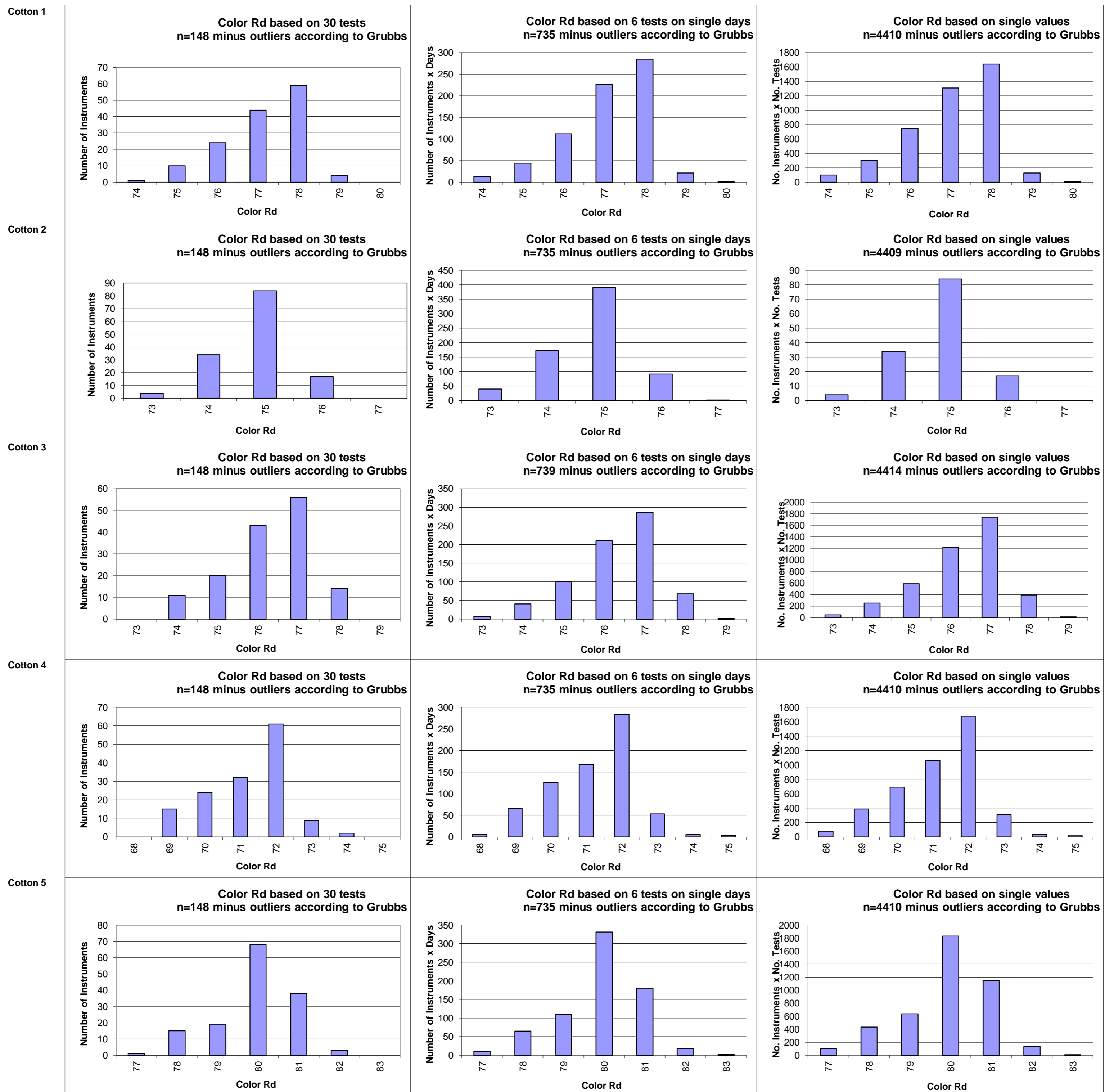
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Test Result Distributions
Uniformity



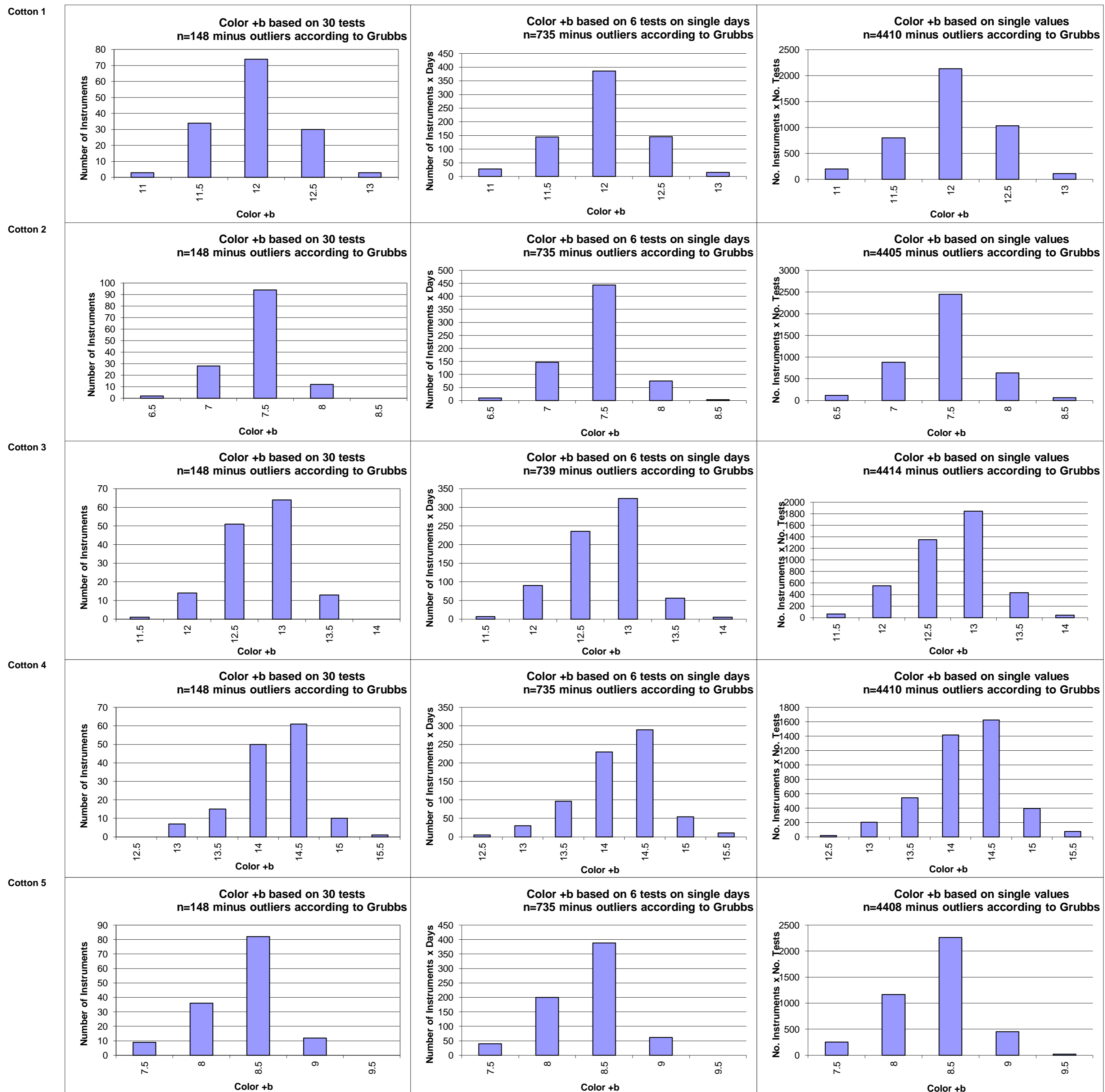
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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

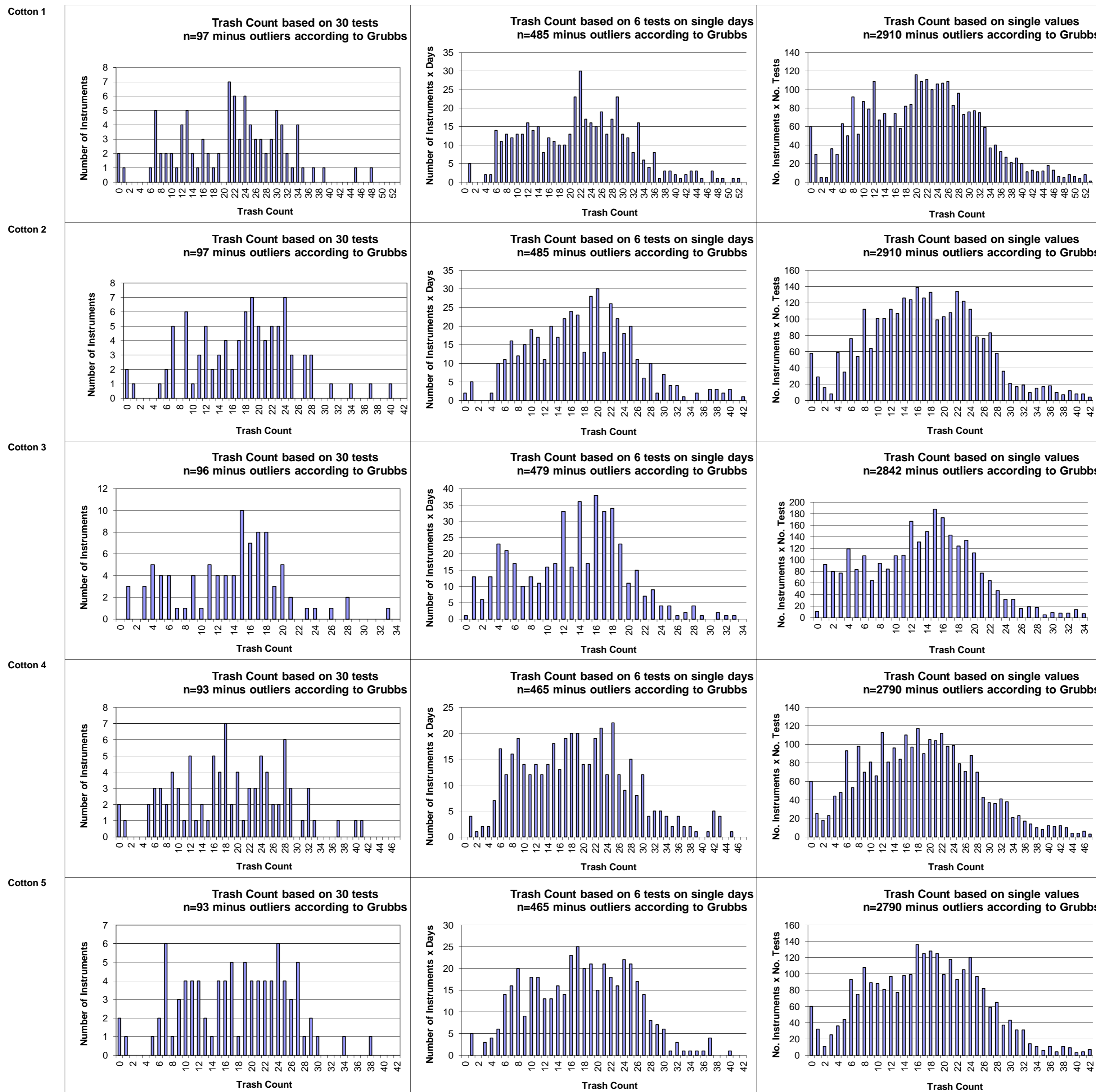
Trash Count								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			21.33	17.63	13.59	18.72		17.50
Reference Values for Evaluation			21.33	17.63	13.59	18.72		17.50
Number Of Instruments			97	97	96	93	96	93
Inter-Instrument Variation	based on 30 tests	SD	9.76	7.64	6.48	8.98	8.21	7.92
		CV %	45.8	43.3	47.7	48.0	46.2	45.2
	based on 6 tests	SD	10.24	8.01	6.51	9.38	8.53	7.97
		CV %	48.0	45.4	47.9	50.1	47.9	45.5
	based on single tests	SD	10.65	8.28	6.94	9.49	8.84	8.41
		CV %	49.9	47.0	51.1	50.7	49.7	48.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	2.37	2.08	1.65	1.96	2.01	2.08
		CV %	11.1	11.8	12.1	10.4	11.4	11.9
	between single tests on one day	SD	3.17	3.03	2.03	2.72	2.74	2.74
		CV %	14.9	17.2	14.9	14.6	15.4	15.6
	between all tests on different days	SD	4.15	3.81	2.94	3.70	3.65	3.61
		CV %	19.5	21.6	21.6	19.7	20.6	20.6

Trash Area								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			0.176	0.169	0.118	0.157		0.178
Reference Values for Evaluation			0.176	0.169	0.118	0.157		0.178
Number Of Instruments			97	97	96	93	96	93
Inter-Instrument Variation	based on 30 tests	SD	0.053	0.053	0.043	0.047	0.049	0.062
		CV %	30.2	31.2	36.0	30.2	31.9	34.9
	based on 6 tests	SD	0.062	0.058	0.044	0.062	0.056	0.066
		CV %	35.2	34.3	37.1	39.5	36.5	37.3
	based on single tests	SD	0.074	0.067	0.048	0.067	0.064	0.080
		CV %	41.8	39.5	40.9	42.6	41.2	45.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.023	0.025	0.015	0.021	0.021	0.025
		CV %	12.9	15.1	13.0	13.2	13.6	14.3
	between single tests on one day	SD	0.032	0.035	0.022	0.029	0.030	0.0
		CV %	18.2	21.0	18.4	18.4	19.0	23.4
	between all tests on different days	SD	0.041	0.048	0.029	0.038	0.039	0.048
		CV %	23.5	28.2	24.6	24.0	25.1	27.2

Maturity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			82.49	86.68	85.61	82.99		88.78
Reference Values for Evaluation			82.49	86.68	85.61	82.99		88.78
Number Of Instruments			96	96	96	92	95	92
Inter-Instrument Variation	based on 30 tests	SD	1.61	1.88	2.31	1.64	1.86	2.12
		CV %	1.9	2.2	2.7	2.0	2.2	2.4
	based on 6 tests	SD	1.61	1.84	2.25	1.70	1.85	2.21
		CV %	2.0	2.1	2.6	2.1	2.2	2.5
	based on single tests	SD	1.66	1.89	2.26	1.76	1.89	2.25
		CV %	2.0	2.2	2.6	2.1	2.2	2.5
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.20	0.22	0.24	0.28	0.23	0.28
		CV %	0.2	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.28	0.30	0.29	0.33	0.30	0.38
		CV %	0.3	0.3	0.3	0.4	0.4	0.4
	between all tests on different days	SD	0.47	0.47	0.45	0.47	0.47	0.49
		CV %	0.6	0.5	0.5	0.6	0.6	0.6

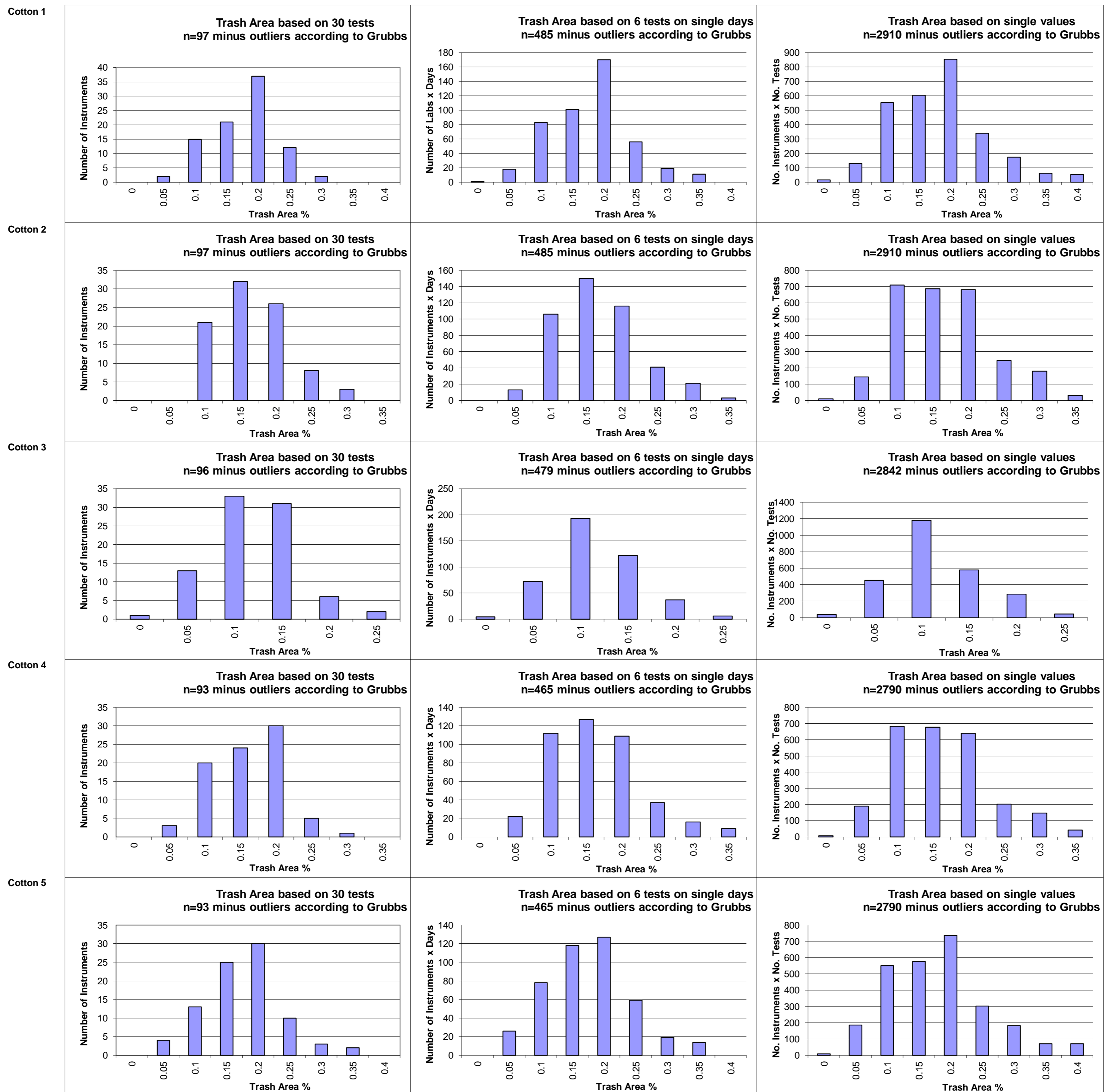
SFI								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			10.93	9.83	7.20	9.47		12.34
Reference Values for Evaluation			10.93	9.83	7.20	9.47		12.34
Number Of Instruments			107	107	107	103	106	103
Inter-Instrument Variation	based on 30 tests	SD	1.13	1.07	1.02	1.01	1.06	1.32
		CV %	10.3	10.9	14.1	10.7	11.5	10.7
	based on 6 tests	SD	1.21	1.16	0.97	1.14	1.12	1.37
		CV %	11.0	11.8	13.5	12.0	12.1	11.1
	based on single tests	SD	1.36	1.29	0.98	1.20	1.21	1.58
		CV %	12.5	13.1	13.7	12.7	13.0	12.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.33	0.28	0.16	0.29	0.27	0.33
		CV %	3.0	2.9	2.2	3.0	2.8	2.7
	between single tests on one day	SD	0.54	0.54	0.29	0.46	0.46	0.63
		CV %	5.0	5.5	4.0	4.8	4.8	5.1
	between all tests on different days	SD	0.64	0.61	0.32	0.54	0.53	0.73
		CV %	5.9	6.2	4.5	5.7	5.6	5.9

Test Result Distributions
Trash Count



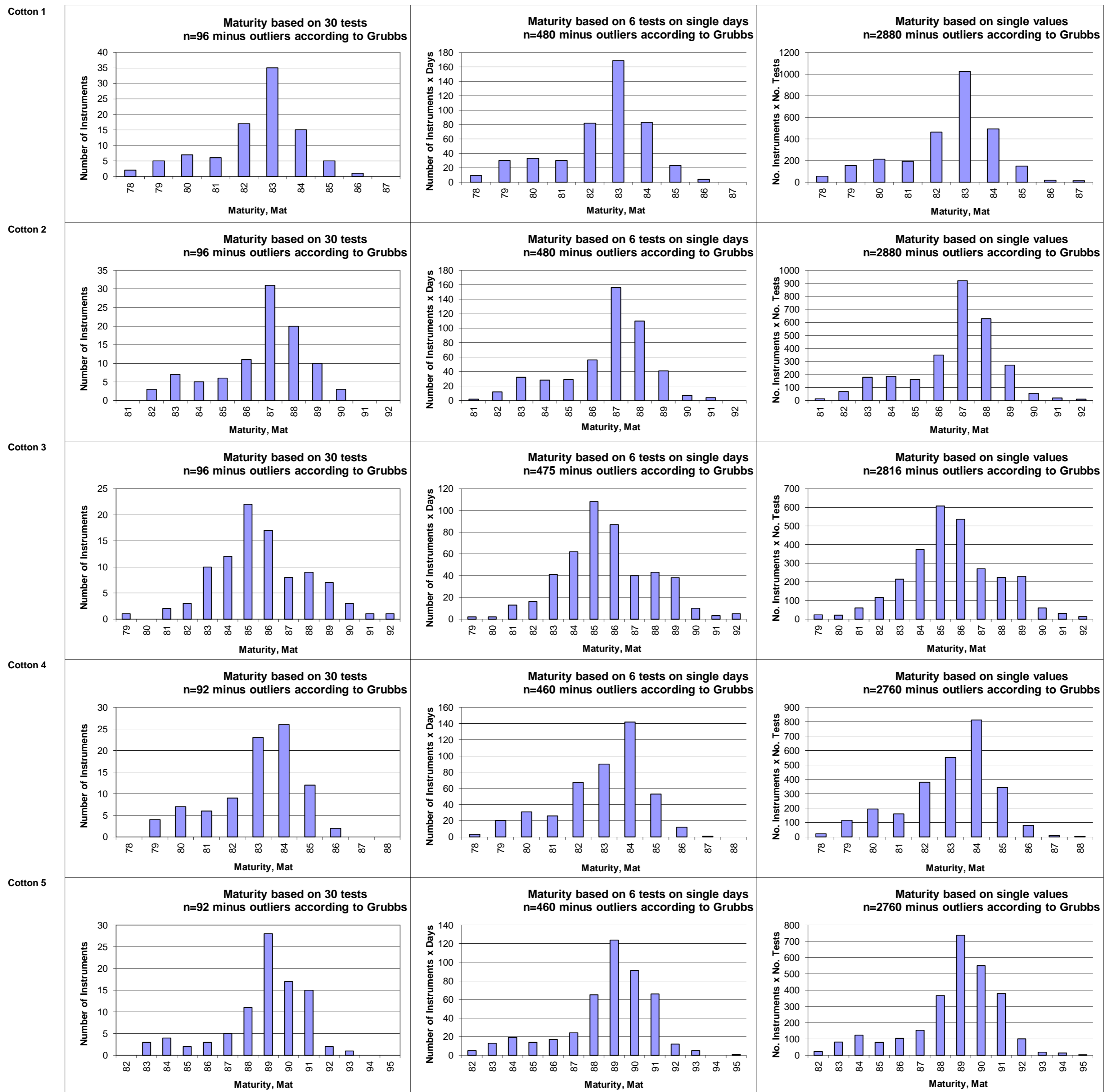
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



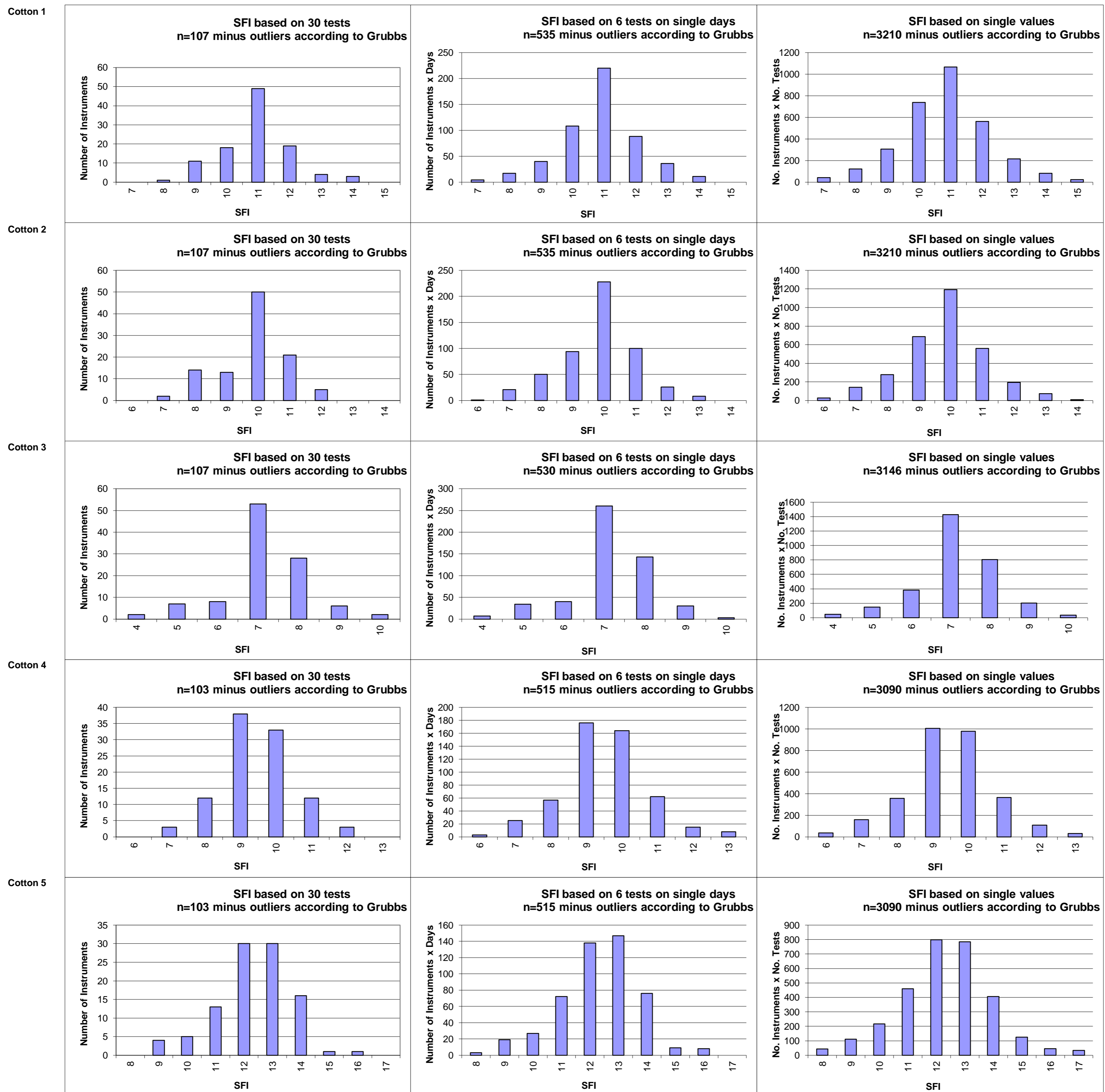
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Maturity



(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 2012 - 3

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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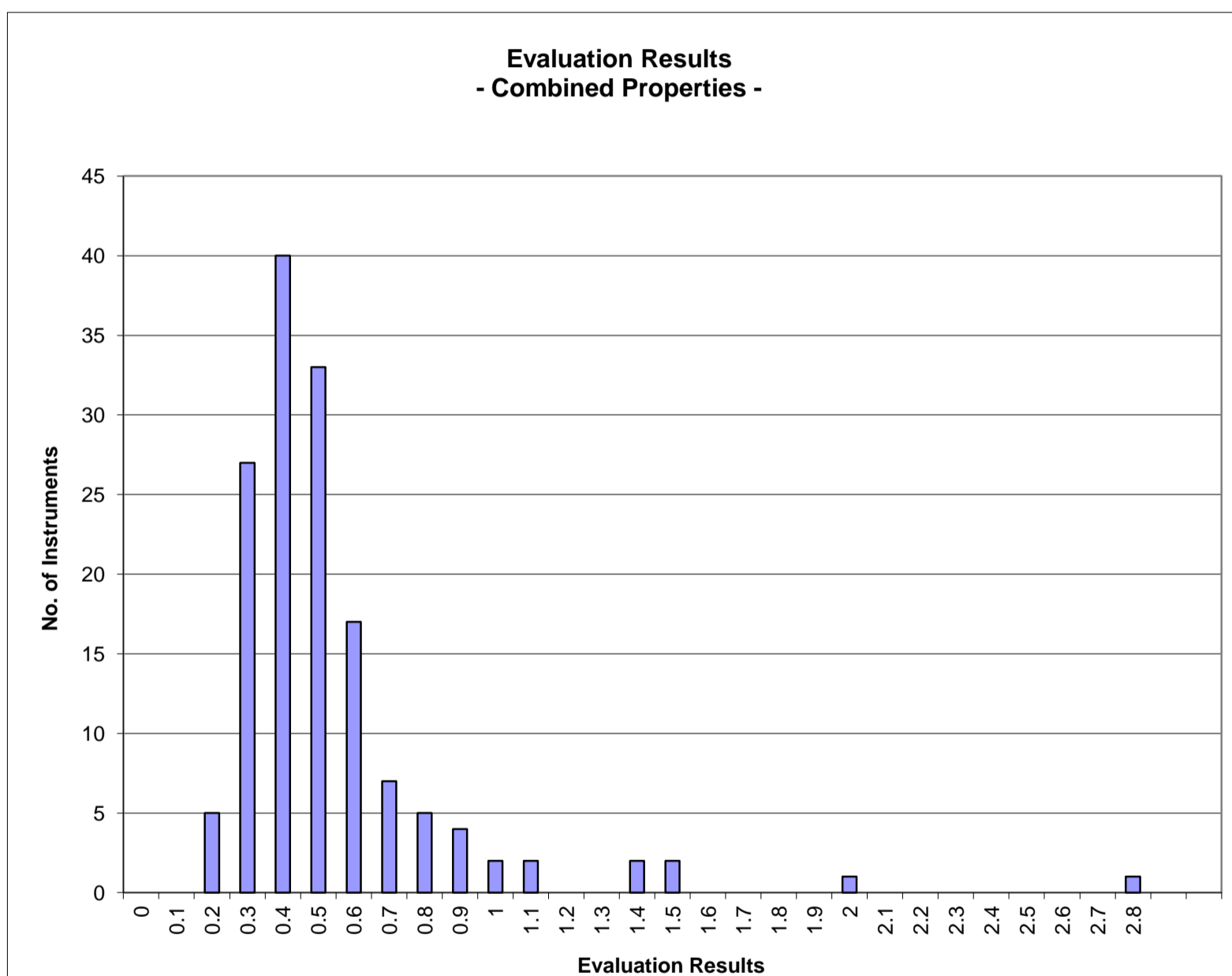
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2012 - 3

		Evaluation Combined Prop.
Statistics	Average	0.53
	Median	0.46
	Best Instrument	0.22
	Worst Instrument	2.77

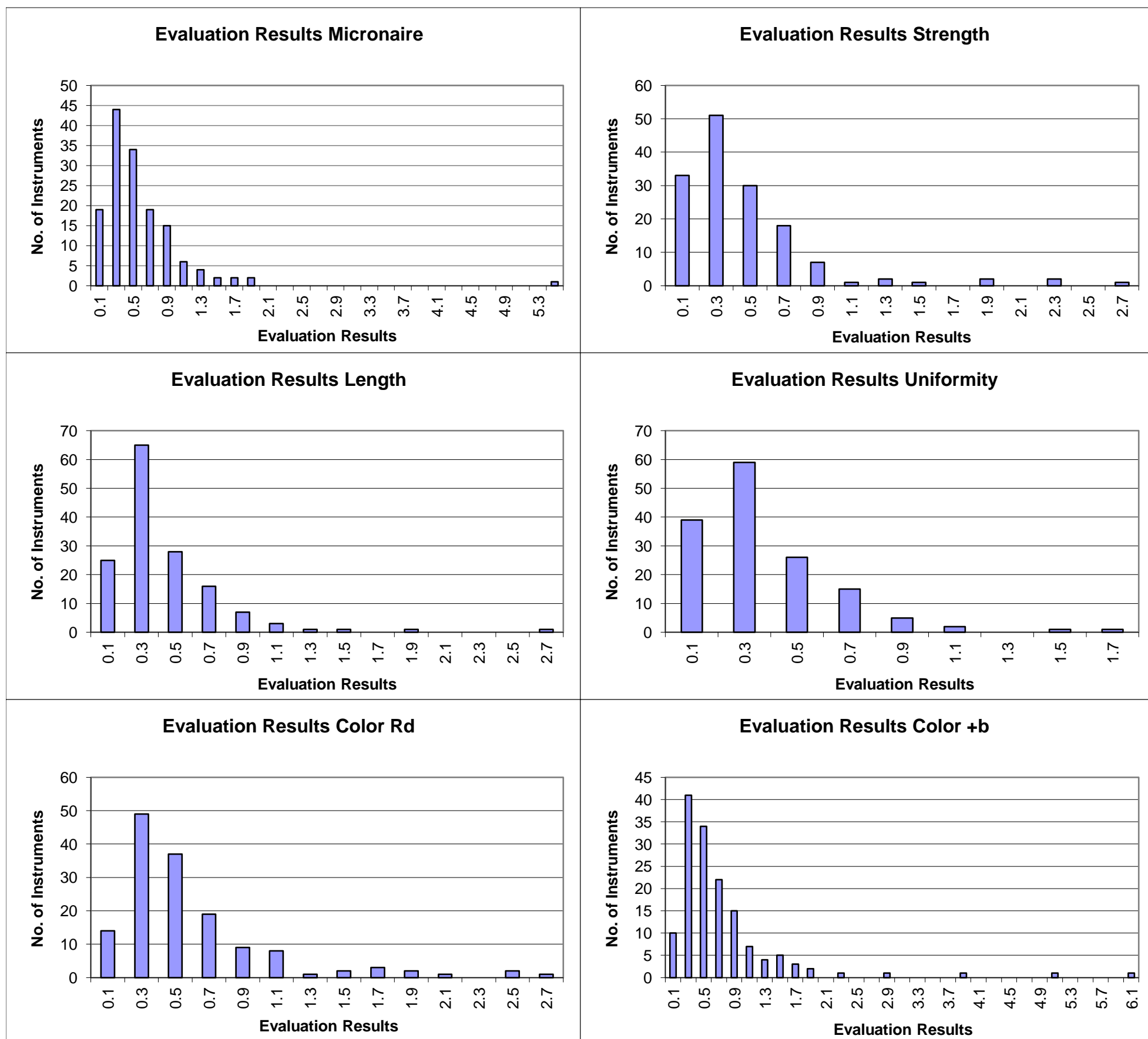


x-Axis shows midpoints of classes

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 - 3

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.58	0.46	0.43	0.37	0.59	0.74
	Median	0.45	0.35	0.33	0.29	0.48	0.52
	Best Instr.	0.06	0.04	0.06	0.07	0.05	0.09
	Worst Instr.	5.58	2.64	2.63	1.71	2.74	6.16



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 - 3

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	98.0	94.6	97.3	99.2	86.0	94.9
Completely within limits	95.9	89.2	93.2	97.3	73.6	88.5
% of Instruments ≥75% within limits	98.0	94.6	97.3	99.3	83.1	95.9
% of Instruments ≥50% within limits	98.6	97.3	98.6	100.0	91.9	97.3

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL123-001-01	100	100	100	100	100	100
GL123-001-02	100	100	100	100	100	100
GL123-001-03	100	100	100	100	100	100
GL123-001-04	100	100	100	100	100	100
GL123-001-05	100	100	100	100	100	100
GL123-001-06	100	100	100	100	100	100
GL123-002-01	100	100	100	100	100	100
GL123-003-01	100	100	100	100	100	100
GL123-003-03	100	100	100	100	100	100
GL123-004-01	100	100	100	100	100	100
GL123-004-05	100	100	100	100	100	100
GL123-004-07	100	100	50	100	100	100
GL123-004-08	100	100	100	100	100	0
GL123-005-01	100	100	100	100	50	100
GL123-006-13	100	100	100	100	100	75
GL123-007-01	100	100	100	100	75	100
GL123-007-02	100	100	100	100	75	100
GL123-008-04	100	50	100	100	100	100
GL123-008-05	100	100	100	100	100	100
GL123-009-04	100	0	100	100	25	75
GL123-011-05	100	75	100	100	0	75
GL123-011-07	100	100	100	100	100	100
GL123-011-08	100	100	100	100	100	100
GL123-011-13	100	50	100	100	0	100
GL123-012-01	100	100	100	100	100	100
GL123-013-01	100	100	100	100	100	100
GL123-013-02	100	100	100	100	100	100
GL123-013-03	100	100	100	100	100	100
GL123-014-01	100	100	100	100	100	100
GL123-015-03	100	100	100	100	100	100
GL123-016-03	75	50	100	100	50	75
GL123-018-01	100	100	100	100	75	100
GL123-018-02	100	100	100	100	75	100
GL123-019-01	100	50	100	100	100	100
GL123-020-01	100	100	100	100	100	100
GL123-021-01	100	100	100	100	100	75
GL123-023-01	100	100	100	100	100	100
GL123-024-04	100	100	100	100	25	100
GL123-025-13	100	100	100	100	100	100

GL123-025-23	100	100	100	100	100	100
GL123-026-01	100	100	100	100	100	75
GL123-027-01	100	100	100	100	100	100
GL123-031-03	100	100	100	100	100	100
GL123-032-01	100	100	100	100	100	100
GL123-032-02	100	100	100	100	100	100
GL123-033-01	100	75	100	100	75	100
GL123-034-01	100	100	100	100	100	100
GL123-035-01	100	100	100	100	0	100
GL123-036-03	100	100	100	100	100	100
GL123-036-06	100	100	100	100	100	100
GL123-037-02	100	100	100	100	100	100
GL123-037-06	100	100	100	100	100	100
GL123-038-01	100	100	100	100	100	50
GL123-039-01	100	100	100	100	0	50
GL123-039-02	100	100	100	100	0	100
GL123-039-03	100	100	100	100	50	100
GL123-040-02	100	100	100	100	100	100
GL123-041-01	100	100	100	100	100	100
GL123-044-01	100	100	100	100	100	100
GL123-044-02	100	100	100	100	100	100
GL123-044-04	100	100	100	100	50	100
GL123-045-01	100	75	100	100	100	100
GL123-045-08	100	100	100	100	100	100
GL123-046-01	100	75	100	100	100	100
GL123-046-02	100	75	75	100	100	75
GL123-048-01	100	100	100	100	75	100
GL123-048-04	100	100	100	100	100	100
GL123-048-06	100	100	100	100	100	100
GL123-050-01	100	100	100	100	100	75
GL123-052-01	100	100	100	100	0	100
GL123-053-01	0	75	25	75	50	0
GL123-054-01	100	100	100	100	100	100
GL123-056-01	100	0	100	100	25	25
GL123-057-01	100	100	100	100	100	100
GL123-057-02	100	100	100	100	100	100
GL123-057-03	100	100	100	100	100	100
GL123-057-04	100	100	100	100	100	100
GL123-058-01	100	100	100	100	100	100
GL123-060-01	100	100	100	100	100	100
GL123-060-02	100	100	100	100	50	100
GL123-060-04	100	100	100	100	100	100
GL123-060-05	100	100	100	100	100	100
GL123-062-01	100	100	100	100	50	100
GL123-063-01	100	100	100	100	100	100
GL123-064-02	100	100	100	100	50	100
GL123-064-04	100	75	100	100	75	100
GL123-064-07	100	100	100	100	100	100
GL123-065-01	100	75	75	100	50	100
GL123-066-01	100	100	100	100	100	100
GL123-066-02	100	100	100	100	100	100
GL123-066-03	100	100	100	100	100	100
GL123-067-01	100	100	100	100	100	100
GL123-067-02	100	100	100	100	100	100
GL123-067-03	100	100	100	100	100	100
GL123-068-01	100	100	100	100	100	100
GL123-068-02	100	100	100	100	100	100
GL123-068-03	100	100	100	100	100	100
GL123-068-06	100	100	75	100	100	100
GL123-072-01	100	0	25	50	50	100

GL123-073-01	100	100	100	100	75	100
GL123-074-01	100	100	100	100	100	100
GL123-075-01	100	100	100	100	100	100
GL123-075-02	100	100	100	100	100	100
GL123-075-03	100	100	100	100	100	100
GL123-075-04	100	100	100	100	25	100
GL123-075-05	100	100	100	100	50	100
GL123-076-01	100	100	100	100	75	100
GL123-076-02	100	100	100	100	100	100
GL123-076-03	100	100	100	100	100	100
GL123-076-04	100	100	100	100	100	100
GL123-077-01	25	100	50	75	25	75
GL123-078-43	100	100	75	100	100	100
GL123-078-44	100	100	100	100	100	100
GL123-079-01	100	100	75	75	75	100
GL123-080-01	100	100	75	100	0	100
GL123-081-01	100	100	100	100	100	100
GL123-082-01	100	100	100	100	100	100
GL123-082-02	100	100	100	100	100	100
GL123-082-03	100	100	100	100	100	100
GL123-083-01	100	100	100	100	100	100
GL123-084-01	75	0	100	100	100	0
GL123-085-01	100	100	100	100	75	75
GL123-085-02	100	100	100	100	100	100
GL123-086-01	100	100	100	100	100	100
GL123-087-01	75	100	100	100	100	75
GL123-088-01	100	100	100	100	75	100
GL123-088-02	100	100	100	100	100	100
GL123-091-04	100	100	100	100	100	100
GL123-091-07	100	100	100	100	100	100
GL123-092-01	100	100	100	100	100	100
GL123-092-02	100	100	100	100	100	100
GL123-093-01	100	100	100	100	100	100
GL123-093-02	100	100	100	100	100	100
GL123-093-03	100	100	100	100	100	100
GL123-093-04	100	100	100	100	75	100
GL123-094-01	50	100	100	100	100	100
GL123-095-07	100	100	100	100	100	100
GL123-095-08	100	100	100	100	100	100
GL123-095-09	100	100	100	100	100	100
GL123-096-01	100	100	100	100	75	100
GL123-097-01	100	100	100	100	50	100
GL123-098-01	100	100	100	100	100	100
GL123-098-02	100	100	100	100	100	100
GL123-099-01	100	100	100	100	100	100
GL123-100-01	100	100	100	100	100	100
GL123-101-18	100	100	100	100	50	100
GL123-101-19	100	100	100	100	100	100
GL123-102-01	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	97.1	90.6	95.3	97.9	84.3	93.7
% of Instruments 100% within limits	66.9	32.4	37.2	55.4	40.5	66.9
% of Instruments ≥95% within limits	87.8	60.8	78.4	89.9	60.1	80.4
% of Instruments ≥75% within limits	96.6	89.9	95.3	98.6	77.7	90.5
% of Instruments ≥65% within limits	97.3	93.2	97.3	99.3	81.8	95.3
% of Instruments ≥50% within limits	98.6	95.9	98.6	100.0	88.5	95.9

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL123-001-01	100	100	100	100	100	100
GL123-001-02	100	100	100	99	98	100
GL123-001-03	100	100	100	100	100	100
GL123-001-04	100	99	100	100	97	100
GL123-001-05	100	100	100	100	100	100
GL123-001-06	100	100	100	100	100	100
GL123-002-01	100	93	100	100	80	73
GL123-003-01	98	83	99	99	80	81
GL123-003-03	92	97	97	92	100	100
GL123-004-01	100	94	100	100	100	100
GL123-004-05	100	100	93	96	100	100
GL123-004-07	96	92	68	92	93	100
GL123-004-08	98	95	80	94	91	0
GL123-005-01	100	93	98	97	60	100
GL123-006-13	97	95	71	92	93	66
GL123-007-01	88	94	97	97	57	90
GL123-007-02	93	99	98	98	66	89
GL123-008-04	99	43	100	100	100	100
GL123-008-05	100	89	100	100	96	100
GL123-009-04	97	2	59	77	24	47
GL123-011-05	100	85	98	99	8	63
GL123-011-07	100	100	98	100	100	100
GL123-011-08	100	100	99	100	100	100
GL123-011-13	99	70	93	100	12	83
GL123-012-01	100	100	99	100	100	100
GL123-013-01	100	100	100	100	100	100
GL123-013-02	100	100	100	100	100	100
GL123-013-03	100	100	100	100	100	100
GL123-014-01	100	100	99	100	98	99
GL123-015-03	100	100	100	100	100	100
GL123-016-03	64	55	98	99	45	68
GL123-018-01	100	98	94	100	75	100
GL123-018-02	100	97	98	100	69	95
GL123-019-01	100	58	98	98	81	100
GL123-020-01	93	91	98	93	96	98
GL123-021-01	100	94	99	100	99	69

GL123-023-01	100	81	85	96	100	100
GL123-024-04	99	85	93	86	20	100
GL123-025-13	100	100	100	100	100	100
GL123-025-23	100	100	100	100	99	100
GL123-026-01	93	99	100	99	97	73
GL123-027-01	97	92	93	99	100	100
GL123-031-03	100	99	98	97	99	100
GL123-032-01	100	100	100	100	100	100
GL123-032-02	100	99	100	100	100	100
GL123-033-01	93	53	100	100	88	91
GL123-034-01	100	98	98	98	100	100
GL123-035-01	99	85	98	97	14	88
GL123-036-03	100	99	100	99	100	100
GL123-036-06	100	93	100	100	100	100
GL123-037-02	100	100	99	100	100	100
GL123-037-06	100	100	99	100	100	98
GL123-038-01	98	96	95	100	95	67
GL123-039-01	97	88	90	98	0	31
GL123-039-02	100	66	95	91	0	98
GL123-039-03	99	86	89	90	48	100
GL123-040-02	99	78	100	98	92	100
GL123-041-01	100	96	100	99	93	97
GL123-044-01	100	95	100	100	93	100
GL123-044-02	98	98	100	100	100	100
GL123-044-04	100	99	100	99	60	100
GL123-045-01	100	68	100	100	100	100
GL123-045-08	100	78	100	100	100	100
GL123-046-01	100	82	99	100	100	100
GL123-046-02	88	77	83	96	98	88
GL123-048-01	100	94	100	98	79	100
GL123-048-04	100	99	99	99	94	100
GL123-048-06	95	100	100	100	100	100
GL123-050-01	94	97	96	99	97	95
GL123-052-01	81	92	76	99	13	99
GL123-053-01	29	50	28	68	31	33
GL123-054-01	100	100	100	100	100	100
GL123-056-01	93	8	86	99	29	30
GL123-057-01	100	100	99	100	88	98
GL123-057-02	100	100	98	99	95	100
GL123-057-03	100	100	100	100	100	99
GL123-057-04	100	100	98	100	94	93
GL123-058-01	100	100	100	100	100	96
GL123-060-01	100	100	96	100	100	100
GL123-060-02	100	99	93	100	62	100
GL123-060-04	100	100	93	100	98	100
GL123-060-05	100	100	90	100	100	100
GL123-062-01	100	84	98	100	39	88
GL123-063-01	99	95	86	99	96	100
GL123-064-02	93	85	95	98	58	100
GL123-064-04	95	44	95	99	81	99
GL123-064-07	100	85	97	98	97	100
GL123-065-01	100	72	93	93	54	88
GL123-066-01	100	88	98	100	100	100
GL123-066-02	100	95	99	100	100	100
GL123-066-03	100	85	99	98	100	100
GL123-067-01	100	100	98	100	100	100
GL123-067-02	99	99	100	100	100	100
GL123-067-03	100	97	97	100	100	100
GL123-068-01	100	99	93	100	99	100
GL123-068-02	99	100	93	98	100	100

GL123-068-03	100	100	95	100	100	100
GL123-068-06	100	100	88	97	100	100
GL123-072-01	99	13	45	60	51	91
GL123-073-01	100	98	96	99	78	91
GL123-074-01	100	99	100	100	86	99
GL123-075-01	99	100	98	100	94	100
GL123-075-02	99	100	100	100	100	100
GL123-075-03	100	100	100	100	98	100
GL123-075-04	100	100	99	100	37	100
GL123-075-05	98	100	100	100	46	100
GL123-076-01	100	100	100	99	66	100
GL123-076-02	100	97	98	99	100	100
GL123-076-03	100	100	99	98	100	100
GL123-076-04	100	100	100	99	100	100
GL123-077-01	43	87	60	77	25	83
GL123-078-43	100	98	92	99	93	100
GL123-078-44	100	100	96	100	93	100
GL123-079-01	100	98	91	95	73	100
GL123-080-01	100	84	96	99	0	98
GL123-081-01	100	99	99	100	100	100
GL123-082-01	100	83	96	100	99	100
GL123-082-02	100	88	100	97	97	100
GL123-082-03	100	98	100	100	100	100
GL123-083-01	98	91	95	98	100	100
GL123-084-01	78	33	72	90	56	4
GL123-085-01	99	93	86	98	73	88
GL123-085-02	100	98	90	100	99	100
GL123-086-01	100	98	99	98	98	100
GL123-087-01	74	86	97	98	100	67
GL123-088-01	100	99	95	100	73	100
GL123-088-02	100	96	97	100	93	97
GL123-091-04	100	93	100	100	100	100
GL123-091-07	100	93	100	100	100	100
GL123-092-01	100	100	100	100	100	100
GL123-092-02	100	100	99	100	100	100
GL123-093-01	99	98	99	99	99	99
GL123-093-02	100	100	100	100	99	98
GL123-093-03	100	100	100	100	99	98
GL123-093-04	99	100	100	99	81	100
GL123-094-01	56	91	98	100	99	99
GL123-095-07	100	99	100	100	100	100
GL123-095-08	100	99	100	100	100	100
GL123-095-09	100	92	99	100	98	100
GL123-096-01	100	98	100	100	88	100
GL123-097-01	100	94	100	100	57	100
GL123-098-01	98	99	99	97	100	92
GL123-098-02	98	100	93	95	83	98
GL123-099-01	100	87	100	100	100	100
GL123-100-01	95	91	97	88	83	100
GL123-101-18	100	74	100	100	50	100
GL123-101-19	100	87	99	100	99	100
GL123-102-01	83	99	99	100	98	100