



International Cotton Advisory Committee



CSITC Global - Round Trial 2011 - 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.



Global - Round Trial 2011 - 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)			3.179	3.395	4.210	4.199		5.413
Reference Values for Evaluation			3.179	3.395	4.210	4.199		5.413
Number Of Instruments			135	135	135	135	135	135
Inter-Instrument Variation	based on 30 tests	SD	0.055	0.061	0.065	0.066	0.062	0.077
		CV %	1.7	1.8	1.5	1.6	1.7	1.4
	based on 6 tests	SD	0.060	0.064	0.070	0.072	0.067	0.085
		CV %	1.9	1.9	1.7	1.7	1.8	1.6
	based on single tests	SD	0.068	0.072	0.080	0.081	0.075	0.095
		CV %	2.2	2.1	1.9	1.9	2.0	1.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.022	0.023	0.023	0.027	0.024	0.027
		CV %	0.7	0.7	0.5	0.6	0.6	0.5
	between single tests on one day	SD	0.032	0.030	0.034	0.035	0.033	0.043
		CV %	1.0	0.9	0.8	0.8	0.9	0.8
	between all tests on different days	SD	0.041	0.043	0.044	0.045	0.043	0.049
		CV %	1.3	1.3	1.1	1.1	1.2	0.9

Strength								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			30.807	29.426	33.007	33.897		26.182
Reference Values for Evaluation			30.807	29.426	33.007	33.897		26.182
Number Of Instruments			136	136	136	136	136	136
Inter-Instrument Variation	based on 30 tests	SD	0.917	0.998	0.786	1.047	0.937	1.335
		CV %	3.0	3.4	2.4	3.1	3.0	5.1
	based on 6 tests	SD	1.016	1.098	1.088	1.101	1.076	1.332
		CV %	3.3	3.7	3.3	3.2	3.4	5.1
	based on single tests	SD	1.212	1.224	1.248	1.241	1.231	1.425
		CV %	3.9	4.2	3.8	3.7	3.9	5.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.366	0.369	0.420	0.367	0.380	0.297
		CV %	1.2	1.3	1.3	1.1	1.2	1.1
	between single tests on one day	SD	0.641	0.564	0.573	0.546	0.581	0.5
		CV %	2.1	1.9	1.7	1.6	1.8	1.9
	between all tests on different days	SD	0.727	0.653	0.729	0.673	0.696	0.586
		CV %	2.4	2.2	2.2	2.0	2.2	2.2

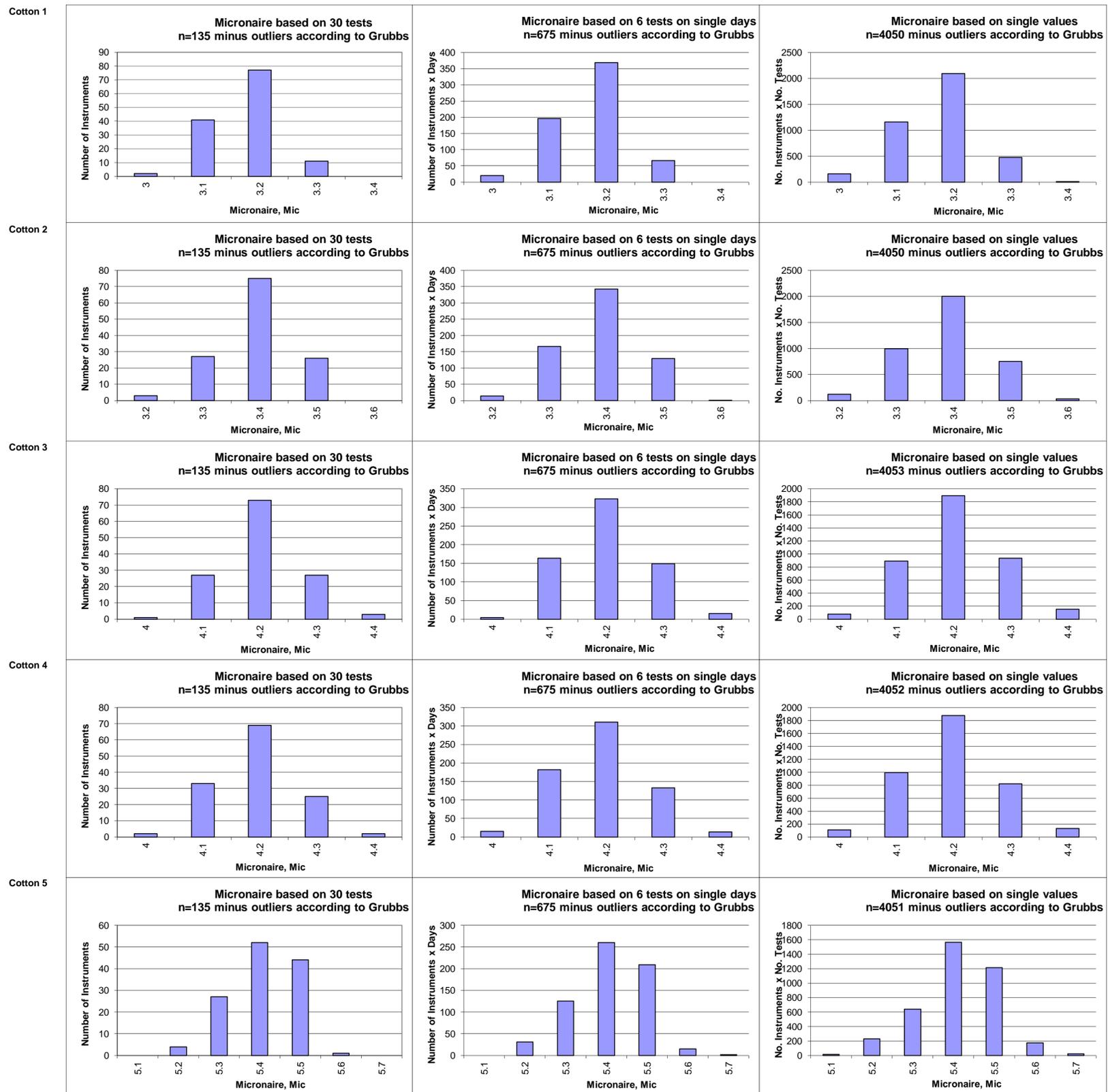
Length								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			1.0783	1.1229	1.2169	1.2296		0.9812
Reference Values for Evaluation			1.0783	1.1229	1.2169	1.2296		0.9812
Number Of Instruments			136	136	136	136	136	136
Inter-Instrument Variation	based on 30 tests	SD	0.0106	0.0116	0.0123	0.0129	0.0118	0.0190
		CV %	1.0	1.0	1.0	1.0	1.0	1.9
	based on 6 tests	SD	0.0118	0.0129	0.0143	0.0136	0.0131	0.0193
		CV %	1.1	1.1	1.2	1.1	1.1	2.0
	based on single tests	SD	0.0164	0.0163	0.0173	0.0172	0.0168	0.0214
		CV %	1.5	1.4	1.4	1.4	1.4	2.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0050	0.0052	0.0064	0.0056	0.0055	0.0057
		CV %	0.5	0.5	0.5	0.5	0.5	0.6
	between single tests on one day	SD	0.0103	0.0097	0.0101	0.0098	0.0100	0.0106
		CV %	1.0	0.9	0.8	0.8	0.9	1.1
	between all tests on different days	SD	0.0111	0.0110	0.0122	0.0112	0.0114	0.0116
		CV %	1.0	1.0	1.0	0.9	1.0	1.2

Uniformity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			80.563	81.637	83.375	83.708		80.669
Reference Values for Evaluation			80.563	81.637	83.375	83.708		80.669
Number Of Instruments			136	136	136	136	136	136
Inter-Instrument Variation	based on 30 tests	SD	0.611	0.541	0.432	0.393	0.494	0.753
		CV %	0.8	0.7	0.5	0.5	0.6	0.9
	based on 6 tests	SD	0.639	0.620	0.531	0.489	0.570	0.835
		CV %	0.8	0.8	0.6	0.6	0.7	1.0
	based on single tests	SD	0.829	0.791	0.740	0.688	0.762	0.979
		CV %	1.0	1.0	0.9	0.8	0.9	1.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.305	0.269	0.278	0.236	0.272	0.281
		CV %	0.4	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.524	0.486	0.499	0.470	0.495	0.506
		CV %	0.7	0.6	0.6	0.6	0.6	0.6
	between all tests on different days	SD	0.596	0.539	0.555	0.524	0.553	0.556
		CV %	0.7	0.7	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)			76.990	71.096	75.768	75.967		78.483
Reference Values for Evaluation			76.990	71.096	75.768	75.967		78.483
Number Of Instruments			132	132	132	132	132	132
Inter-Instrument Variation	based on 30 tests	SD	0.847	1.077	0.992	0.987	0.976	1.067
		CV %	1.1	1.5	1.3	1.3	1.3	1.4
	based on 6 tests	SD	0.917	1.085	1.051	0.984	1.009	1.014
		CV %	1.2	1.5	1.4	1.3	1.3	1.3
	based on single tests	SD	0.958	1.128	1.074	0.979	1.035	1.017
		CV %	1.2	1.6	1.4	1.3	1.4	1.3
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.213	0.187	0.191	0.165	0.189	0.161
		CV %	0.3	0.3	0.3	0.2	0.3	0.2
	between single tests on one day	SD	0.232	0.212	0.231	0.215	0.222	0.196
		CV %	0.3	0.3	0.3	0.3	0.3	0.2
	between all tests on different days	SD	0.325	0.308	0.319	0.286	0.310	0.271
		CV %	0.4	0.4	0.4	0.4	0.4	0.3

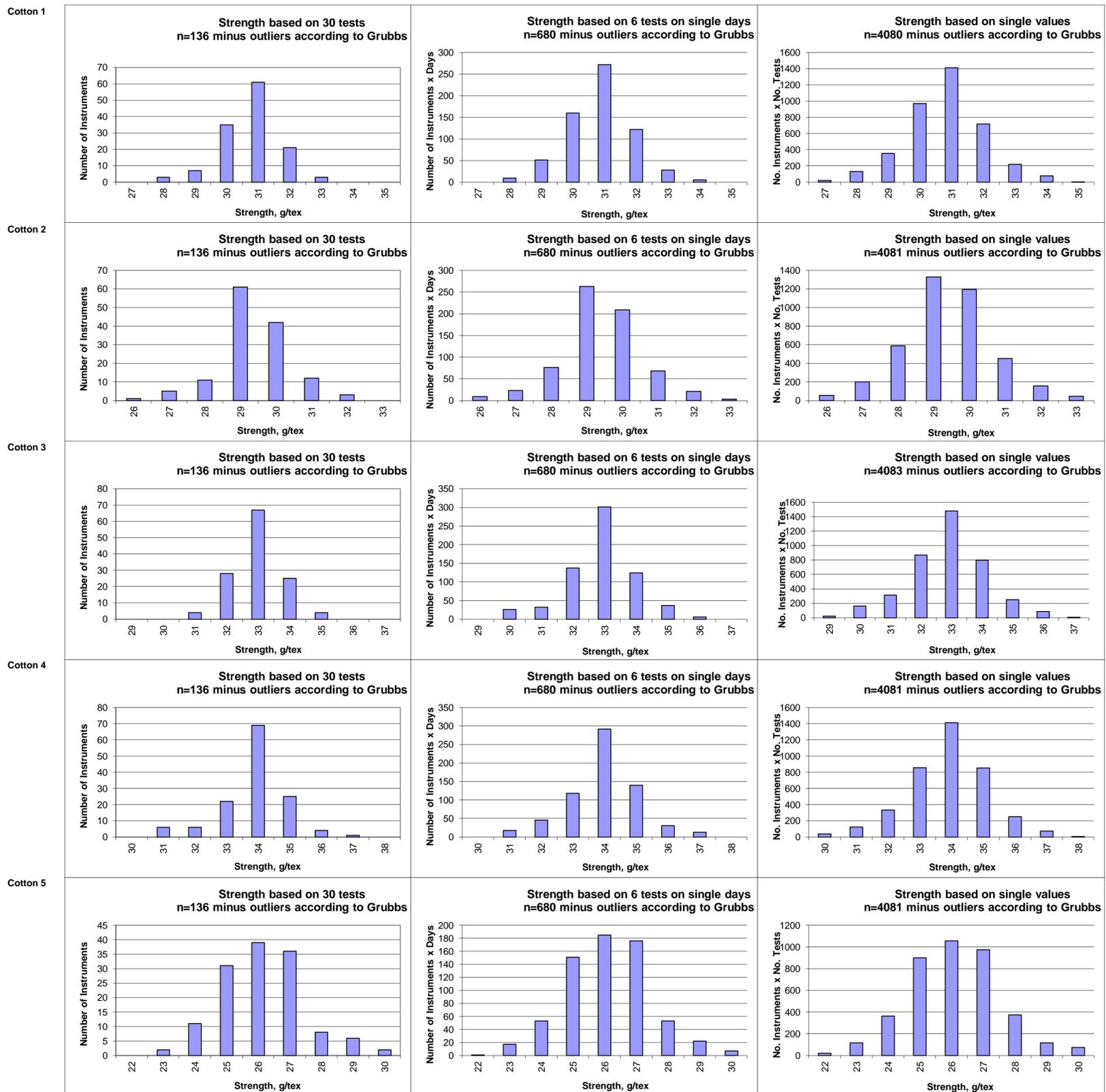
Color +b								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			12.054	14.548	12.681	11.624		12.419
Reference Values for Evaluation			12.054	14.548	12.681	11.624		12.419
Number Of Instruments			132	132	132	132	132	132
Inter-Instrument Variation	based on 30 tests	SD	0.370	0.424	0.444	0.387	0.406	0.480
		CV %	3.1	2.9	3.5	3.3	3.2	3.9
	based on 6 tests	SD	0.380	0.448	0.482	0.403	0.429	0.494
		CV %	3.2	3.1	3.8	3.5	3.4	4.0
	based on single tests	SD	0.415	0.463	0.509	0.424	0.453	0.514
		CV %	3.4	3.2	4.0	3.6	3.6	4.1
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.113	0.115	0.133	0.114	0.119	0.119
		CV %	0.9	0.8	1.0	1.0	0.9	1.0
	between single tests on one day	SD	0.131	0.133	0.135	0.118	0.129	0.119
		CV %	1.1	0.9	1.1	1.0	1.0	1.0
	between all tests on different days	SD	0.168	0.178	0.216	0.179	0.185	0.168
		CV %	1.4	1.2	1.7	1.5	1.5	1.4

Test Result Distributions
Micronaire



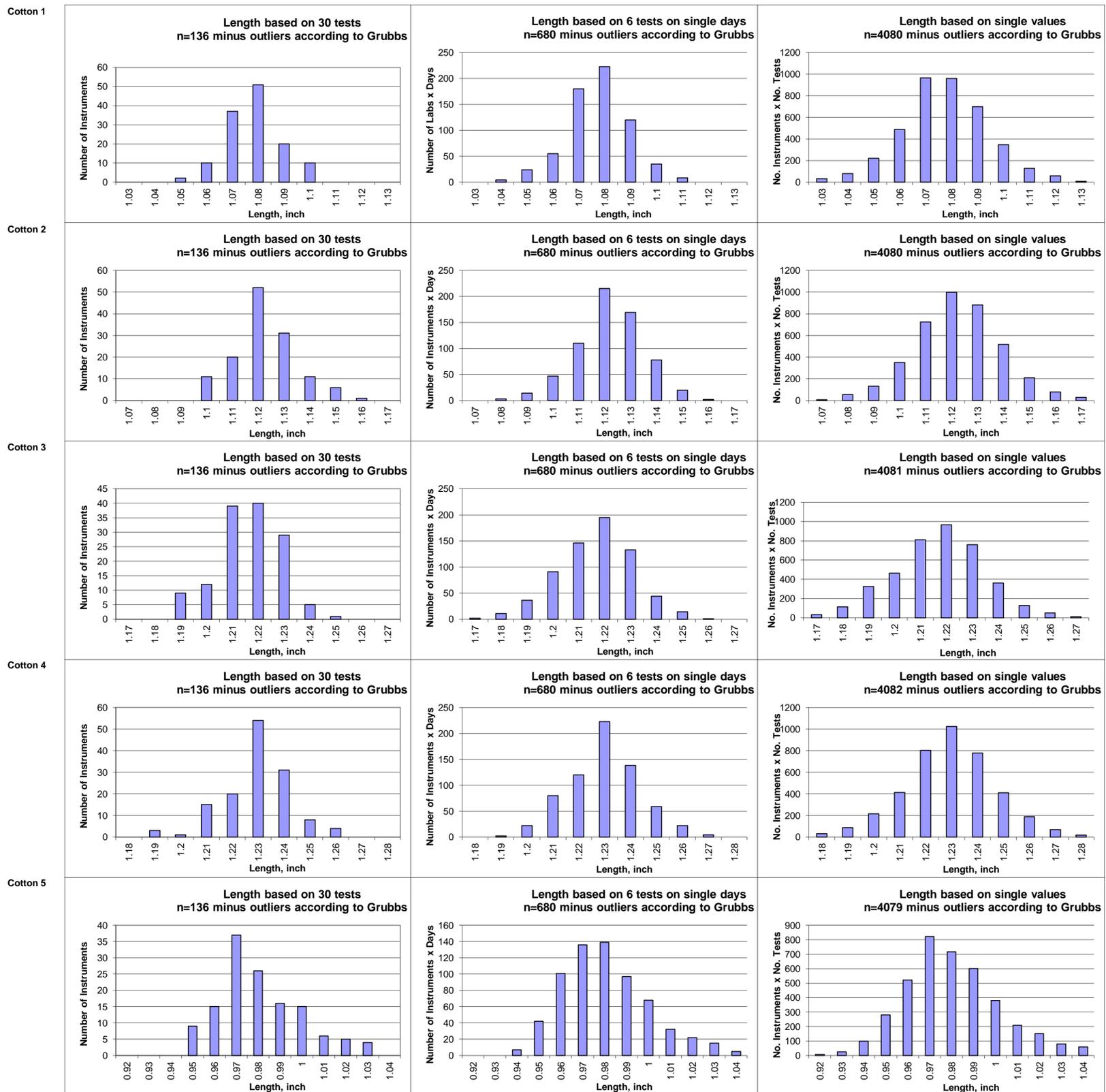
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



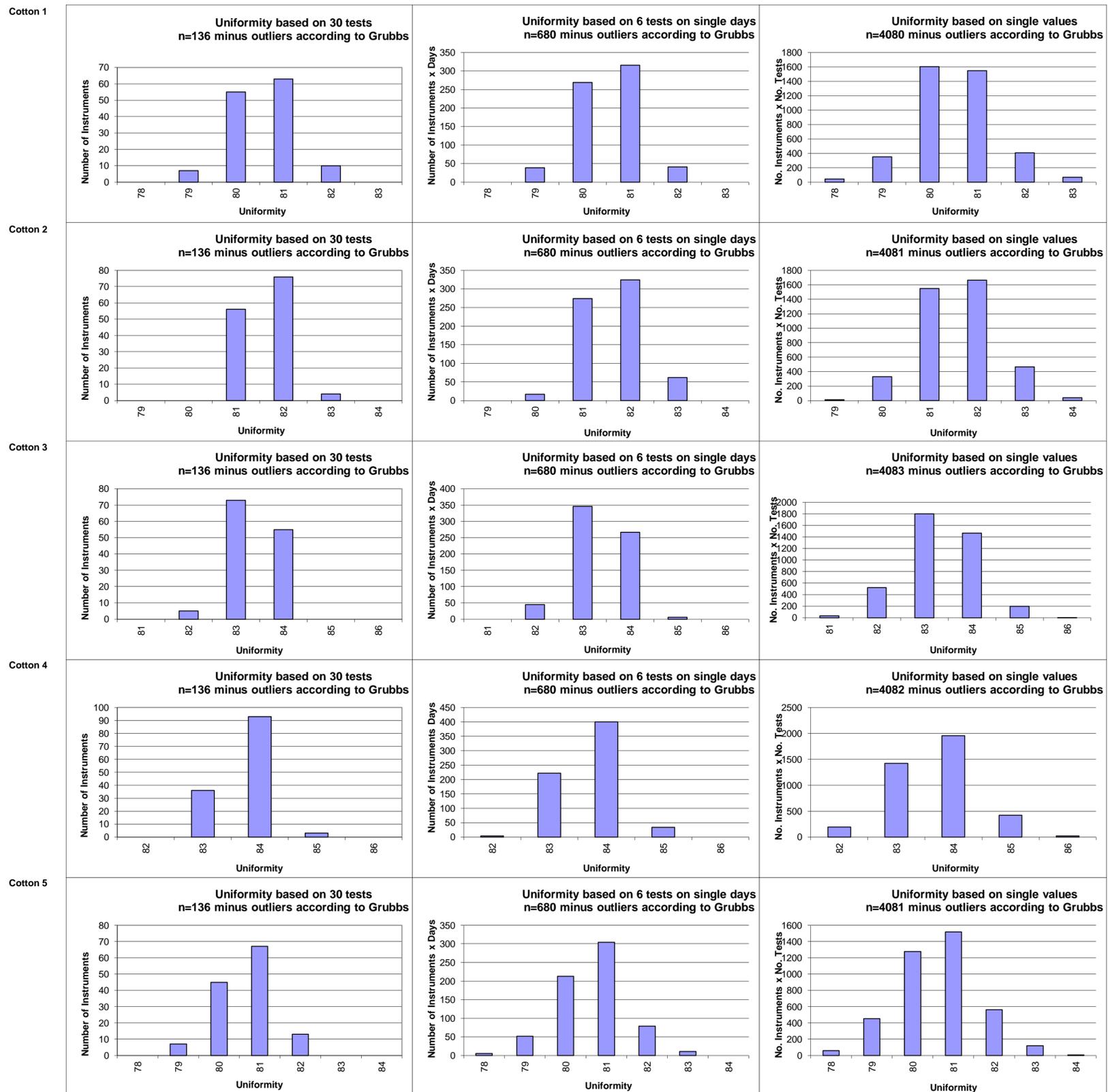
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(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Length



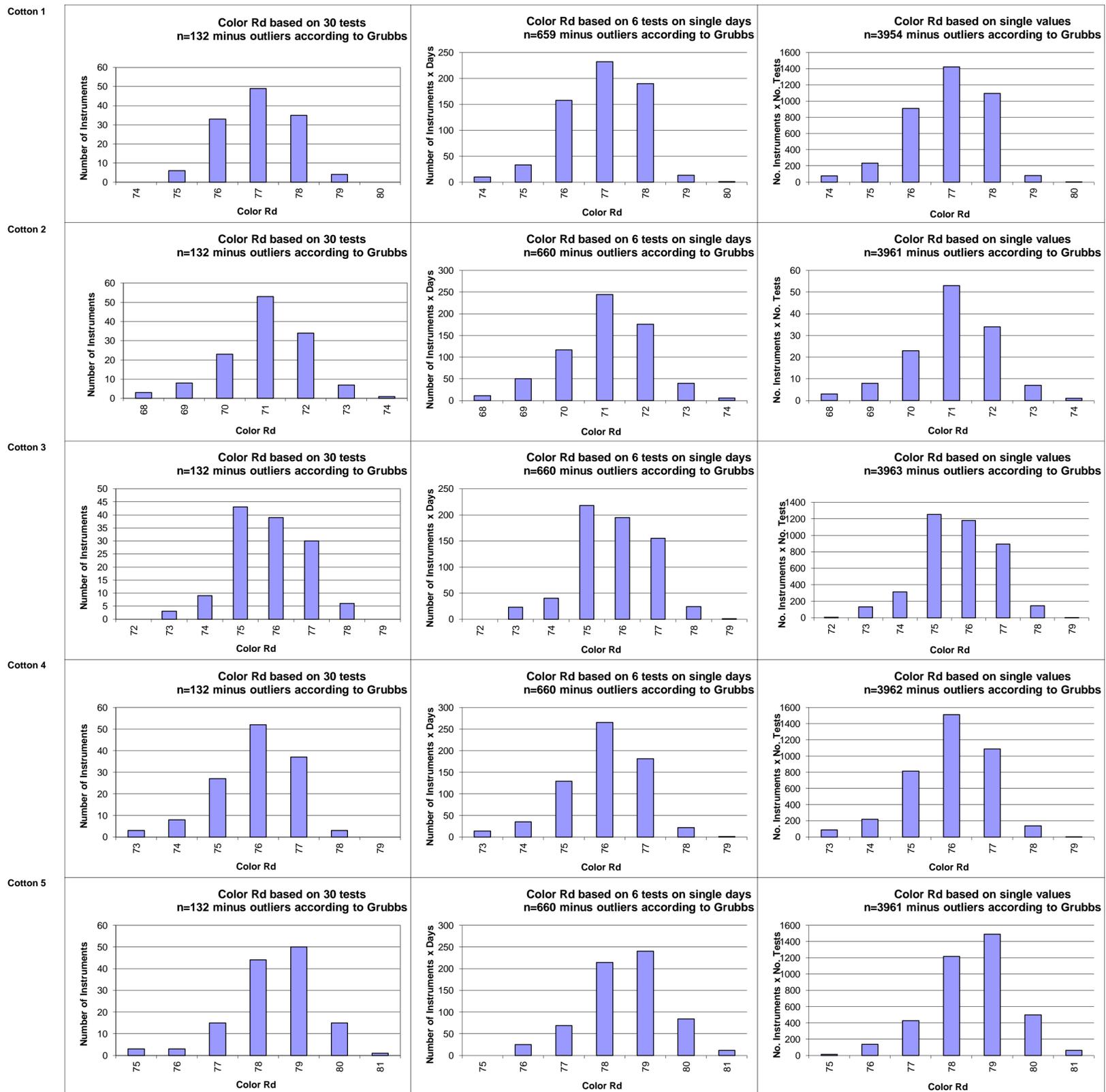
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Uniformity



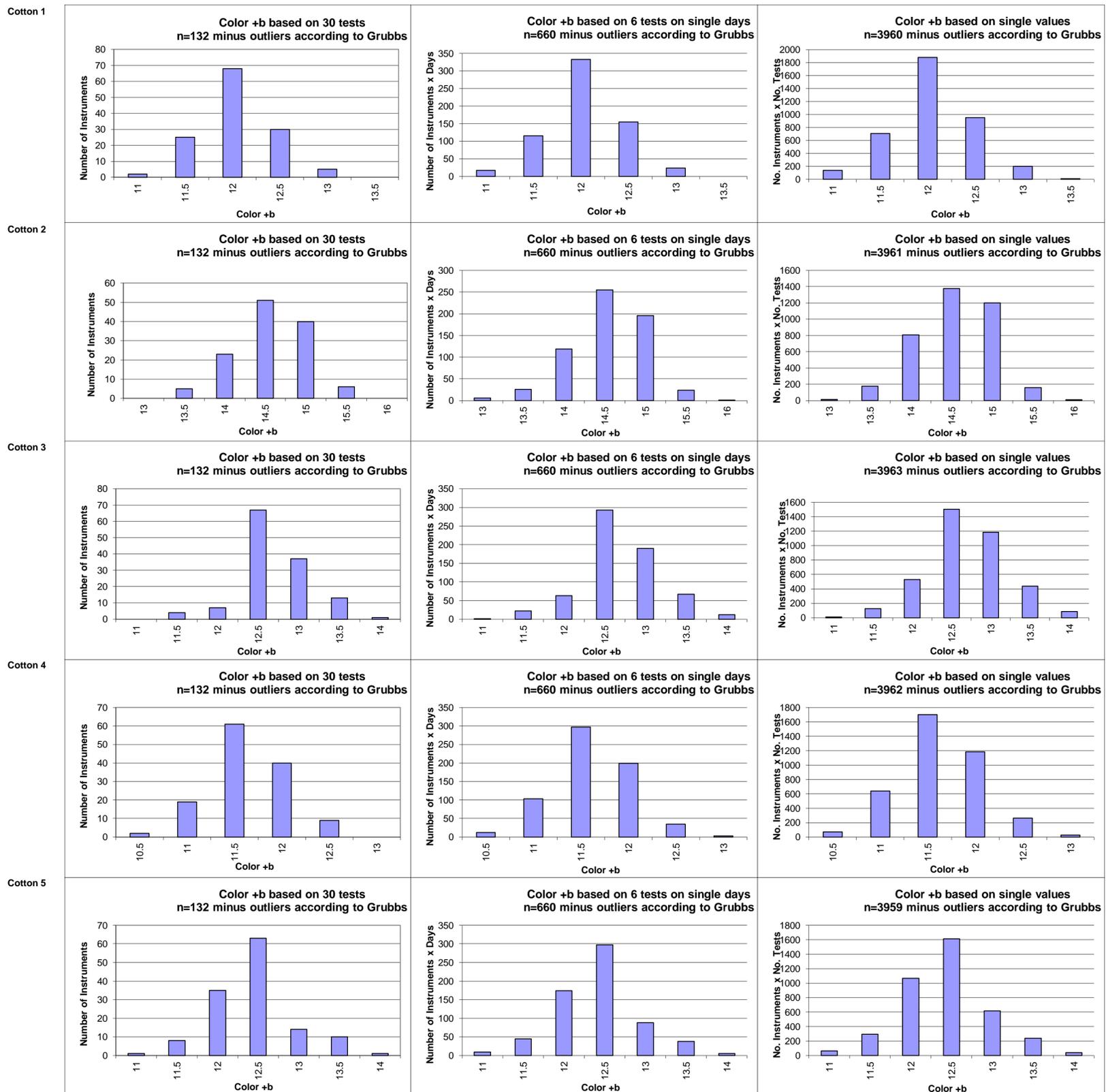
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(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color Rd



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

Test Result Distributions
Color +b



(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Optional Parameters

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

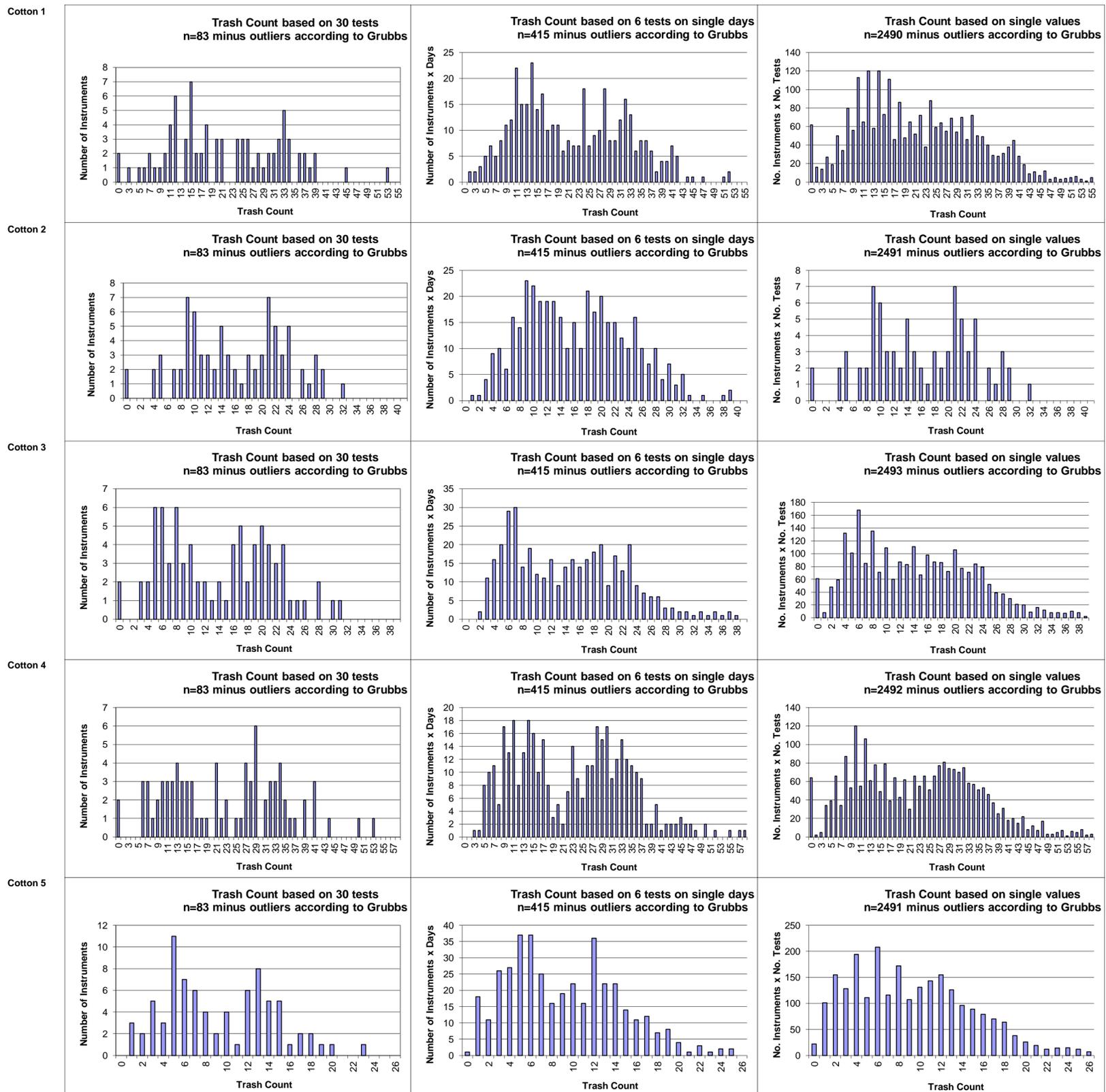
Trash Count								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			21.65	16.04	13.99	22.68		9.28
Reference Values for Evaluation			21.65	16.04	13.99	22.68		9.28
Number Of Instruments			83	83	83	83	83	83
Inter-Instrument Variation	based on 30 tests	SD	11.02	7.52	7.63	11.88	9.51	5.09
		CV %	50.9	46.8	54.6	52.4	51.2	54.9
	based on 6 tests	SD	10.93	7.95	8.11	11.77	9.69	5.33
		CV %	50.5	49.6	58.0	51.9	52.5	57.4
	based on single tests	SD	11.37	8.40	8.41	12.13	10.08	5.61
		CV %	52.5	52.3	60.1	53.5	54.6	60.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	2.18	2.35	1.73	2.25	2.12	1.49
		CV %	10.1	14.6	12.3	9.9	11.7	16.0
	between single tests on one day	SD	3.06	2.53	2.17	2.78	2.63	1.74
		CV %	14.1	15.8	15.5	12.2	14.4	18.7
	between all tests on different days	SD	4.03	3.67	2.79	3.91	3.60	2.41
		CV %	18.6	22.9	20.0	17.2	19.7	25.9

Trash Area								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			0.198	0.154	0.127	0.188		0.090
Reference Values for Evaluation			0.198	0.154	0.127	0.188		0.090
Number Of Instruments			83	83	83	83	83	83
Inter-Instrument Variation	based on 30 tests	SD	0.061	0.046	0.044	0.066	0.054	0.029
		CV %	31.0	30.0	34.5	35.4	32.7	32.0
	based on 6 tests	SD	0.062	0.054	0.044	0.069	0.057	0.031
		CV %	31.4	34.8	34.7	36.6	34.4	34.3
	based on single tests	SD	0.076	0.061	0.060	0.077	0.069	0.041
		CV %	38.3	39.9	47.4	41.2	41.7	46.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.026	0.026	0.019	0.023	0.024	0.016
		CV %	13.3	17.0	15.0	12.1	14.4	17.7
	between single tests on one day	SD	0.038	0.031	0.026	0.030	0.031	0.0
		CV %	19.3	20.3	20.1	16.0	18.9	19.2
	between all tests on different days	SD	0.050	0.045	0.035	0.043	0.043	0.023
		CV %	25.4	29.2	27.6	23.1	26.3	26.1

Maturity								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			81.40	82.52	85.13	84.95		86.24
Reference Values for Evaluation			81.40	82.52	85.13	84.95		86.24
Number Of Instruments			90	90	90	90	90	90
Inter-Instrument Variation	based on 30 tests	SD	3.31	2.67	3.17	3.71	3.21	5.11
		CV %	4.1	3.2	3.7	4.4	3.8	5.9
	based on 6 tests	SD	3.01	2.39	3.20	3.42	3.01	4.81
		CV %	3.7	2.9	3.8	4.0	3.6	5.6
	based on single tests	SD	3.19	2.58	3.32	3.77	3.21	5.11
		CV %	3.9	3.1	3.9	4.4	3.8	5.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.30	0.28	0.32	0.28	0.30	0.30
		CV %	0.4	0.3	0.4	0.3	0.4	0.3
	between single tests on one day	SD	0.43	0.40	0.38	0.42	0.41	0.42
		CV %	0.5	0.5	0.4	0.5	0.5	0.5
	between all tests on different days	SD	0.50	0.50	0.51	0.50	0.50	0.51
		CV %	0.6	0.6	0.6	0.6	0.6	0.6

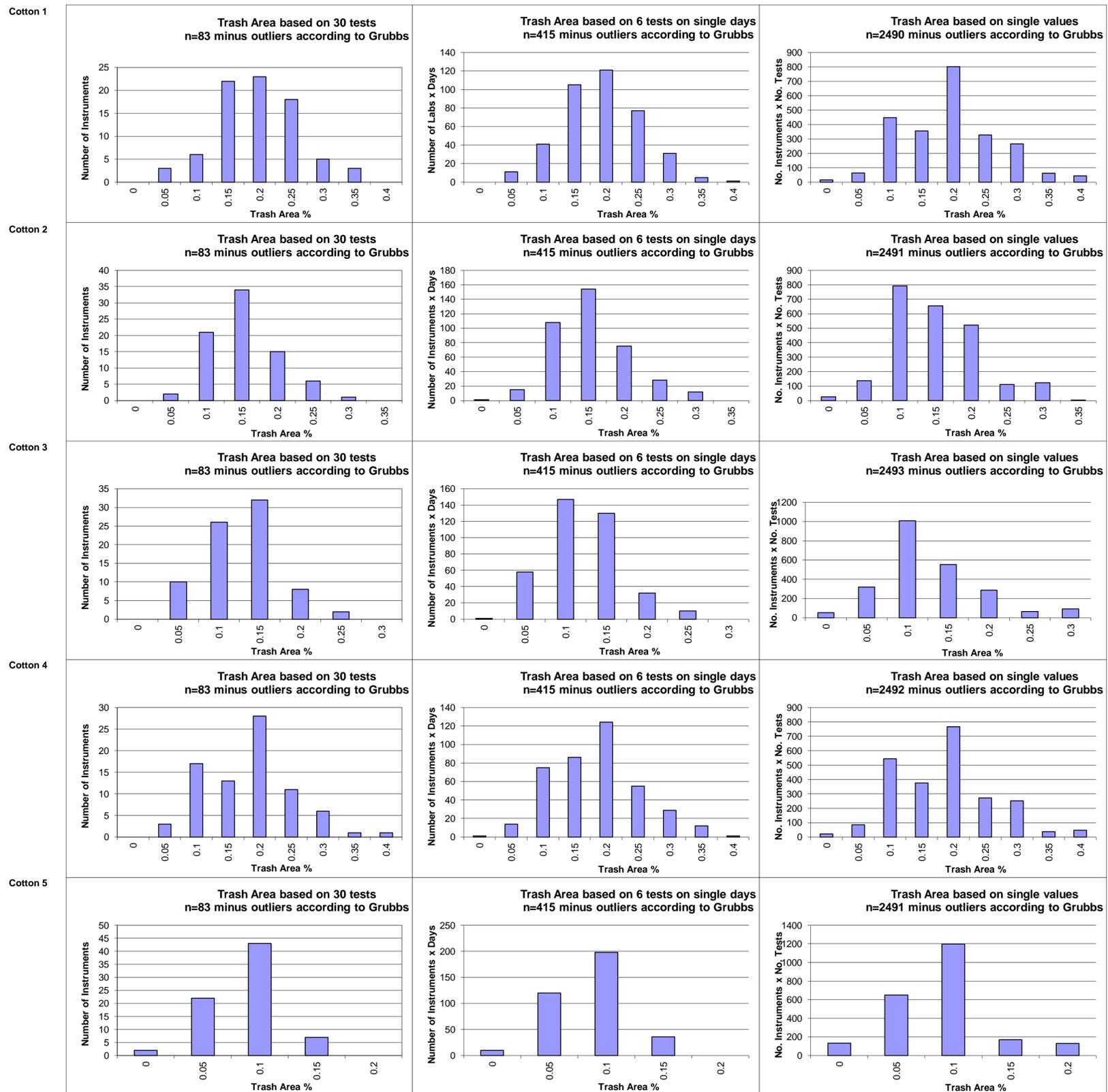
SFI								
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5
Average of Instruments (Grubbs)			10.45	9.17	7.02	6.78		10.28
Reference Values for Evaluation			10.45	9.17	7.02	6.78		10.28
Number Of Instruments			95	95	95	95	95	95
Inter-Instrument Variation	based on 30 tests	SD	1.95	1.65	1.47	1.48	1.64	2.20
		CV %	18.7	18.0	21.0	21.9	19.9	21.4
	based on 6 tests	SD	2.01	1.64	1.47	1.48	1.65	2.20
		CV %	19.3	17.9	21.0	21.8	20.0	21.4
	based on single tests	SD	2.10	1.70	1.54	1.53	1.72	2.29
		CV %	20.1	18.5	21.9	22.6	20.8	22.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.34	0.31	0.16	0.16	0.24	0.33
		CV %	3.2	3.4	2.3	2.3	2.8	3.2
	between single tests on one day	SD	0.57	0.47	0.30	0.31	0.41	0.61
		CV %	5.5	5.1	4.3	4.5	4.9	5.9
	between all tests on different days	SD	0.64	0.54	0.34	0.33	0.46	0.74
		CV %	6.1	5.9	4.8	4.9	5.4	7.2

Test Result Distributions
Trash Count



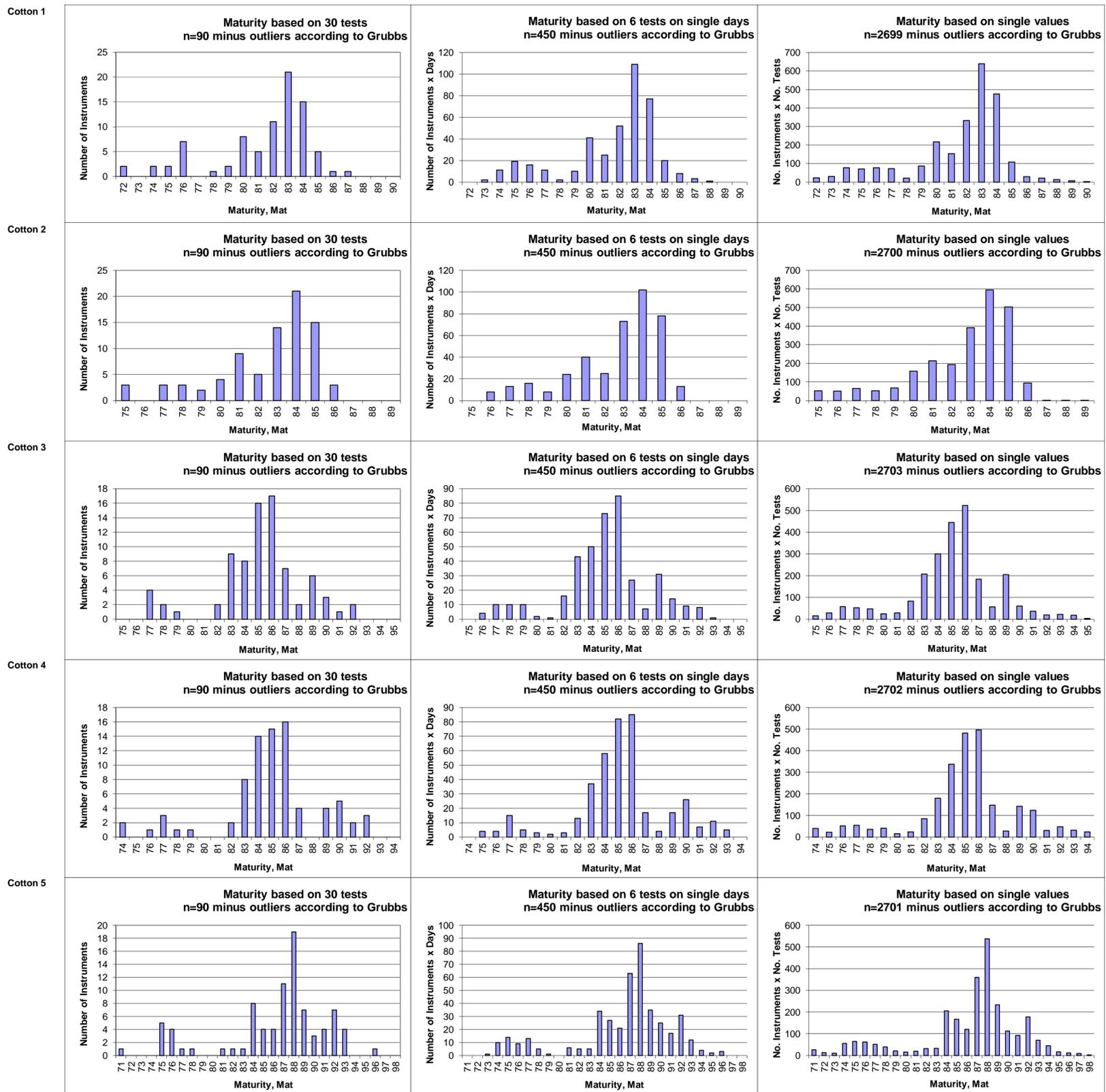
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



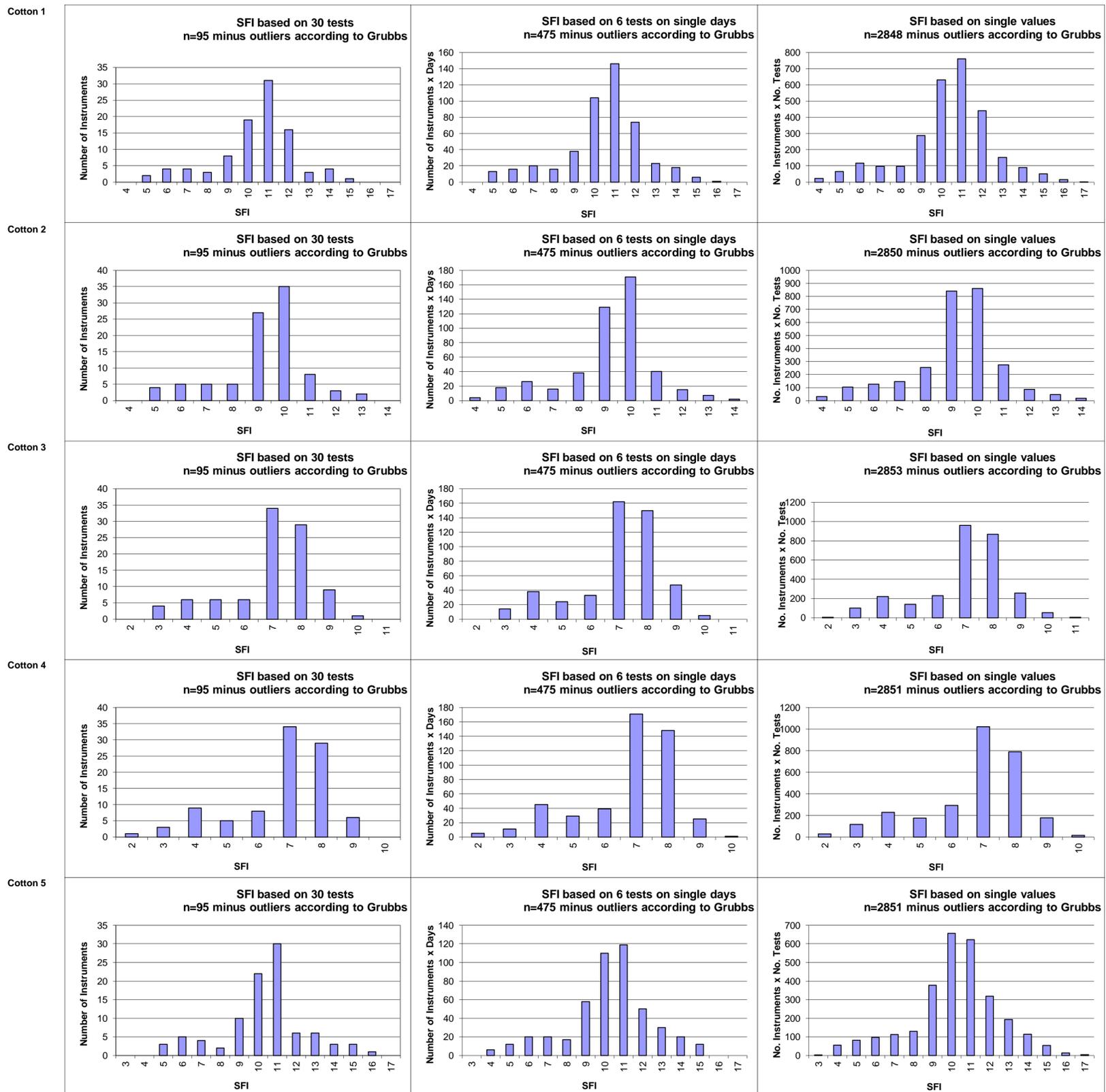
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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 2011 - 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



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.



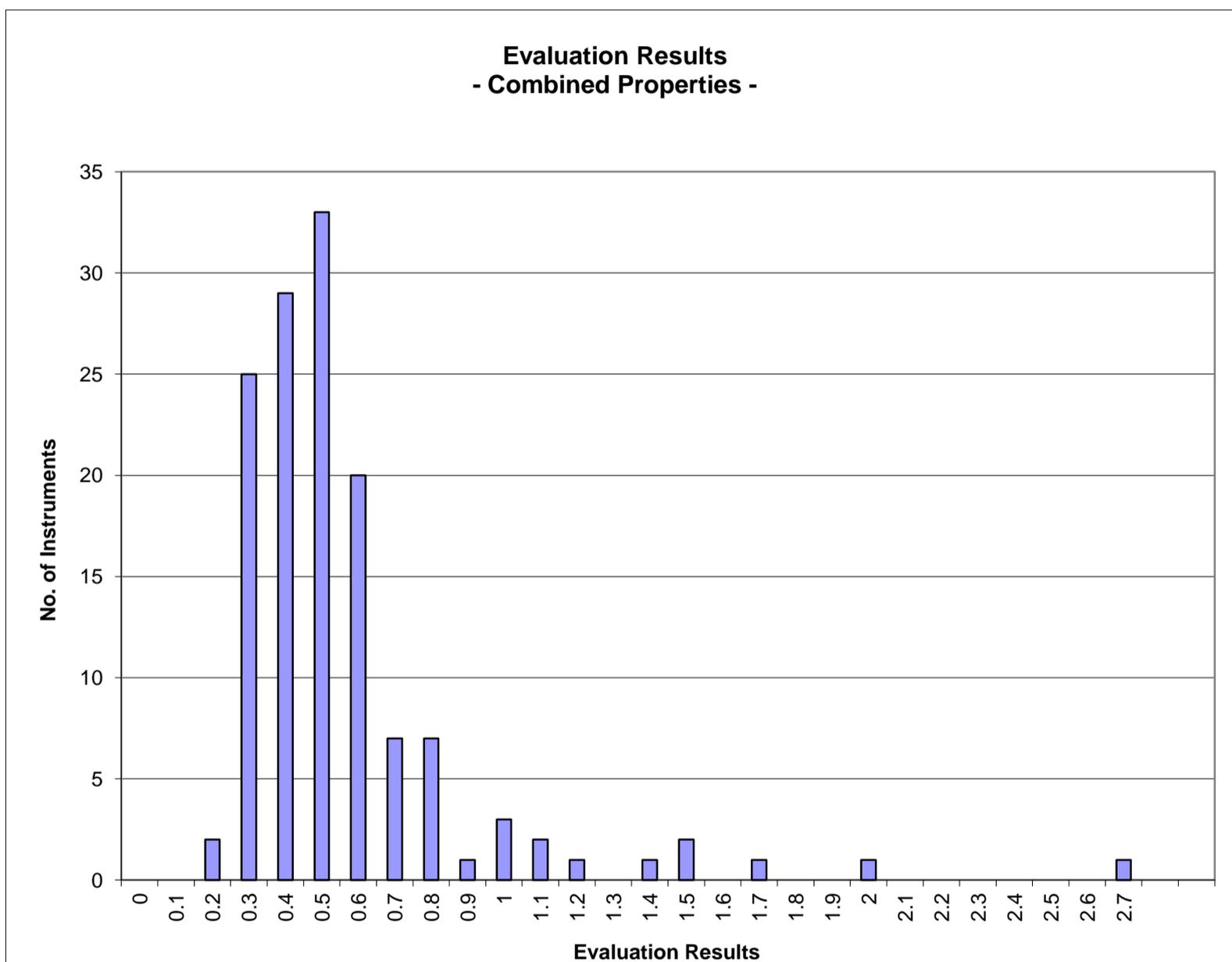
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2011 - 3

		Evaluation Combined Prop.
Statistics	Average	0.56
	Median	0.47
	Best Instrument	0.24
	Worst Instrument	2.72

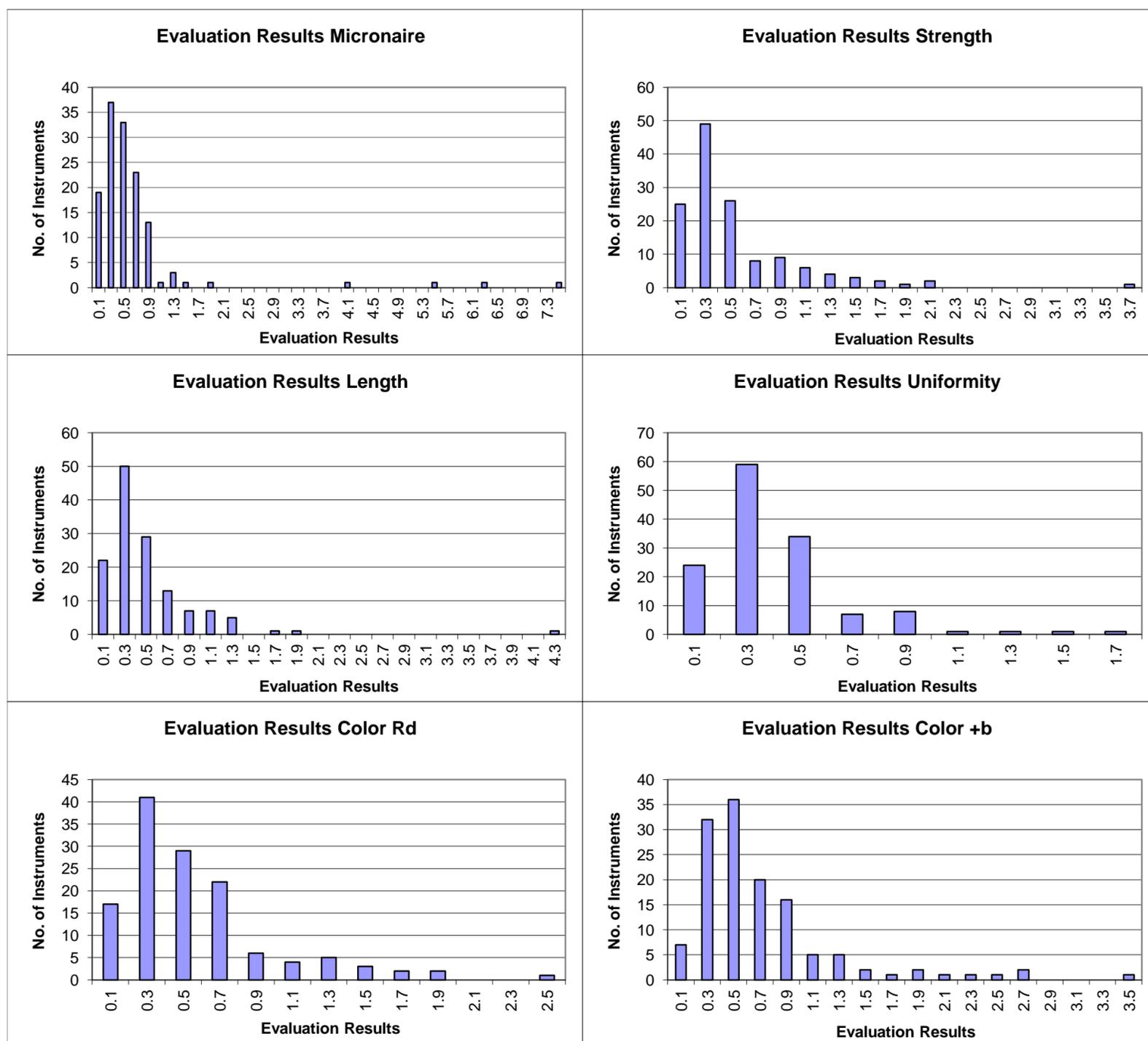


x-Axis shows midpoints of classes

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 2011 - 3

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.66	0.54	0.51	0.41	0.56	0.70
	Median	0.46	0.38	0.36	0.34	0.46	0.52
	Best Instr.	0.06	0.08	0.05	0.08	0.07	0.10
	Worst Instr.	7.50	3.79	4.36	1.74	2.45	3.48



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



International Cotton Advisory Committee



CSITC
Global - Round Trial 2011 - 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	97.0	92.3	96.7	99.6	86.4	95.1
% of Instruments Completely within limits	95.6	83.1	91.2	98.5	76.5	89.4

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	100	100	100	75	100
GL113-002-04	100	100	100	100	100	100
GL113-003-01	100	100	100	100	100	100
GL113-004-01	100	100	100	100	100	75
GL113-005-01	100	100	100	100	100	100
GL113-005-02	100	100	100	100	100	100
GL113-005-03	100	100	100	100	100	100
GL113-005-04	100	100	100	100	100	100
GL113-005-05	100	100	100	100	100	100
GL113-005-07	100	100	100	100	100	100
GL113-005-08	100	100	100	100	100	100
GL113-005-09	100	100	100	100	100	100
GL113-007-01	100	100	100	100	100	100
GL113-007-02	100	100	100	100	100	100
GL113-008-02	100	100	100	100	75	100
GL113-008-04	100	100	100	100	100	100
GL113-008-05	100	100	100	100	100	100
GL113-008-06	100	100	100	100	100	100
GL113-009-01	100	100	100	100	100	100
GL113-009-02	100	100	100	100	100	100
GL113-009-03	100	100	100	100	100	100
GL113-010-01	100	100	100	100	100	100
GL113-011-35	100	100	100	100	25	100
GL113-011-36	100	100	100	100	25	100
GL113-012-02	0	0	100	100	0	100
GL113-013-01	100	100	100	100	100	100
GL113-013-02	100	100	100	100	100	100
GL113-014-02	100	100	75	100	100	100
GL113-014-03	100	100	100	100	100	100
GL113-014-07	100	50	100	100	100	100
GL113-014-08	100	100	100	100	100	100
GL113-015-02	100	100	100	100	100	100
GL113-016-01	100	100	100	100	100	100
GL113-016-02	100	100	100	100	100	100
GL113-016-06	100	100	100	100	100	100
GL113-017-01	100	75	75	100	0	100
GL113-018-01	100	100	100	100	100	75
GL113-020-03	100	100	100	100	100	100
GL113-022-01	100	100	100	100	100	100
GL113-023-01	100	100	100	100	100	100
GL113-023-02	100	100	100	100	100	100
GL113-024-01	100	100	100	100	100	100
GL113-025-01	100	75	75	75	100	50
GL113-026-01	100	75	0	100	100	100

GL113-027-01	100	50	100	100	100	100
GL113-028-02	100	100	100	100	75	100
GL113-031-01	100	75	100	100	25	100
GL113-031-02	100	75	100	100	100	100
GL113-032-03	100	100	100	100	100	100
GL113-032-04	100	100	100	100	100	100
GL113-032-05	100	100	100	100	100	100
GL113-033-01	100	100	100	100	100	100
GL113-033-02	100	100	100	100	100	100
GL113-033-04	100	100	100	100	100	100
GL113-033-05	100	100	100	100	100	100
GL113-034-01	100	100	100	100	100	100
GL113-034-02	100	100	100	100	100	100
GL113-034-03	100	0	100	100	100	75
GL113-034-04	100	100	100	100	75	100
GL113-036-01		100	100	100		
GL113-038-01	100	100	100	100	100	100
GL113-038-02	100	100	100	100	100	100
GL113-039-01	100	100	50	75	100	100
GL113-040-01	100	50	100	100	100	100
GL113-041-01	100	100	100	100	100	100
GL113-041-02	100	100	100	100	100	100
GL113-042-01	100	100	100	100	100	100
GL113-042-02	100	100	100	100	100	100
GL113-042-04	100	100	100	100	50	100
GL113-043-01	100	100	100	100	100	100
GL113-045-01	100	75	100	100	100	100
GL113-045-03	100	100	100	100	100	100
GL113-046-01	100	75	100	100	25	0
GL113-047-01	100	100	100	100	100	100
GL113-048-01	100	0	75	100	100	50
GL113-049-01	100	100	100	100	100	100
GL113-051-01	100	100	100	100	100	100
GL113-052-01	100	100	100	100	0	100
GL113-052-03	100	100	100	100	0	100
GL113-052-04	100	100	100	100	100	100
GL113-052-05	100	100	100	100	0	100
GL113-053-03	100	100	100	100	100	100
GL113-054-01	100	100	100	100	100	75
GL113-057-01	100	100	100	100	100	100
GL113-058-01	100	75	75	100	100	100
GL113-059-01	100	100	100	100	75	100
GL113-059-02	100	100	100	100	75	100
GL113-061-02	100	100	100	100	0	100
GL113-064-01	100	75	100	100	50	75
GL113-065-20	100	100	100	100	100	100
GL113-065-21	100	100	100	100	100	100
GL113-066-01	100	100	100	100	100	100
GL113-067-01	100	100	100	100	75	100
GL113-068-02	100	100	100	100	100	100
GL113-069-01	100	100	100	100	100	100
GL113-069-02	100	100	100	100	100	100
GL113-069-03	100	100	100	100	100	100
GL113-070-01	100	100	100	100	100	100
GL113-071-01	100	100	100	100	100	100
GL113-072-01	100	50	50	100	50	100
GL113-073-01	100	100	100	100	100	100
GL113-074-09	50	100	75	100	50	75
GL113-075-01	100	50	100	100	100	100
GL113-077-01	100	100	100	100	100	100

GL113-079-01	100	100	100	100	0	100
GL113-080-01	100	100	100	100	100	100
GL113-080-02	100	100	100	100	100	100
GL113-080-03	100	100	100	100	100	100
GL113-080-06	100	100	100	100	100	100
GL113-081-01	100	100	100	100	0	100
GL113-081-02	100	100	100	100	75	100
GL113-081-03	100	100	100	100	75	100
GL113-082-01	100	100	100	100	75	100
GL113-082-02	100	100	100	100	100	50
GL113-086-01	100	75	100	100		
GL113-086-02	100	100	100	100		
GL113-086-03	100	100	100	100		
GL113-087-01	100	100	100	100	100	100
GL113-088-02	75	50	75	100	100	0
GL113-091-01	100	100	100	100	75	100
GL113-092-01	100	100	100	100	100	100
GL113-096-02	100	100	100	100	100	100
GL113-097-01	100	100	100	100	100	100
GL113-098-01	100	100	100	100	100	100
GL113-098-05	100	100	100	100	100	100
GL113-098-06	100	100	100	100	75	75
GL113-099-03	100	75	75	100	25	0
GL113-100-01	25	25	100	100	100	100
GL113-100-02	25	25	100	100	100	100
GL113-101-01	100	100	100	100	25	100
GL113-102-01	100	100	100	100	100	100
GL113-104-02	100	100	100	100	100	100
GL113-104-03	100	100	100	100	100	100
GL113-104-04	100	100	100	100	100	100
GL113-104-05	100	100	100	100	100	100
GL113-105-01	25	75	50	100	50	75

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
% of Instruments 100% within limits	68.9	34.6	32.4	52.9	43.2	63.6
% of Instruments ≥95% within limits	89.6	57.4	74.3	83.8	60.6	81.8
% of Instruments ≥75% within limits	95.6	78.7	91.2	99.3	81.8	89.4
% of Instruments ≥65% within limits	96.3	86.0	96.3	99.3	85.6	93.9

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL113-002-03	100	98	100	99	92	100
GL113-002-04	100	98	97	93	98	100
GL113-003-01	100	100	100	99	100	100
GL113-004-01	89	87	68	93	100	83
GL113-005-01	100	100	98	100	100	100
GL113-005-02	100	100	96	100	100	100
GL113-005-03	95	100	97	100	100	100
GL113-005-04	99	100	97	100	100	100
GL113-005-05	100	100	100	100	100	100
GL113-005-07	100	99	97	100	100	100
GL113-005-08	100	100	98	100	100	100
GL113-005-09	100	100	97	100	100	100
GL113-007-01	100	99	100	100	100	100
GL113-007-02	100	100	100	100	100	100
GL113-008-02	99	95	99	98	78	100
GL113-008-04	100	97	93	99	90	98
GL113-008-05	100	96	98	100	92	100
GL113-008-06	100	97	90	94	99	100
GL113-009-01	99	100	97	100	100	100
GL113-009-02	84	100	100	100	100	98
GL113-009-03	95	95	92	100	95	94
GL113-010-01	93	74	98	92	100	100
GL113-011-35	100	100	100	100	33	100
GL113-011-36	100	100	100	100	38	100
GL113-012-02	0	2	97	100	23	96
GL113-013-01	100	100	100	100	100	100
GL113-013-02	100	100	98	100	100	100
GL113-014-02	98	100	71	99	95	98
GL113-014-03	99	83	93	98	93	95
GL113-014-07	99	36	96	95	100	100
GL113-014-08	100	100	100	100	83	94
GL113-015-02	91	87	100	100	96	99
GL113-016-01	100	100	97	99	98	94
GL113-016-02	100	100	97	99	98	94
GL113-016-06	100	100	99	100	95	87
GL113-017-01	98	59	71	92	14	100
GL113-018-01	93	97	99	99	72	68
GL113-020-03	100	99	100	100	100	100
GL113-022-01	98	93	93	98	98	100
GL113-023-01	100	100	100	100	100	100

GL113-023-02	100	100	100	100	100	100
GL113-024-01	100	97	100	100	89	100
GL113-025-01	99	63	78	87	100	51
GL113-026-01	100	58	37	98	92	100
GL113-027-01	100	43	99	98	96	100
GL113-028-02	100	96	100	100	84	95
GL113-031-01	100	72	98	99	24	100
GL113-031-02	100	71	93	100	86	99
GL113-032-03	99	97	95	100	100	100
GL113-032-04	100	100	100	100	100	100
GL113-032-05	99	98	96	100	100	100
GL113-033-01	100	100	97	100	99	100
GL113-033-02	100	100	100	100	100	100
GL113-033-04	100	100	100	100	100	100
GL113-033-05	100	100	98	100	100	100
GL113-034-01	98	77	100	97	89	99
GL113-034-02	100	92	100	99	85	99
GL113-034-03	100	19	81	89	89	78
GL113-034-04	100	93	69	76	84	100
GL113-036-01		74	97	93		
GL113-038-01	100	98	97	84	100	96
GL113-038-02	97	95	76	98	100	100
GL113-039-01	100	100	53	57	95	100
GL113-040-01	100	39	100	100	100	100
GL113-041-01	93	100	98	100	100	100
GL113-041-02	100	100	100	100	100	100
GL113-042-01	100	96	100	99	86	100
GL113-042-02	100	100	100	100	99	100
GL113-042-04	100	98	99	100	56	100
GL113-043-01	100	100	100	100	96	100
GL113-045-01	100	48	98	98	88	100
GL113-045-03	100	75	99	98	99	100
GL113-046-01	88	72	91	85	12	14
GL113-047-01	100	81	100	100	92	100
GL113-048-01	100	12	70	100	99	57
GL113-049-01	100	73	83	94	98	100
GL113-051-01	100	72	98	100	100	100
GL113-052-01	99	91	93	100	0	99
GL113-052-03	100	83	98	100	4	99
GL113-052-04	99	88	97	98	96	71
GL113-052-05	98	89	92	100	3	70
GL113-053-03	100	100	94	100	100	100
GL113-054-01	98	93	96	93	100	69
GL113-057-01	100	99	98	100	100	98
GL113-058-01	99	58	62	93	98	100
GL113-059-01	100	93	100	100	75	100
GL113-059-02	100	82	99	100	69	93
GL113-061-02	99	98	99	100	8	100
GL113-064-01	100	72	99	98	72	66
GL113-065-20	100	100	100	100	100	100
GL113-065-21	98	100	100	99	100	100
GL113-066-01	99	61	80	80	75	100
GL113-067-01	100	100	100	100	66	100
GL113-068-02	100	100	100	100	98	93
GL113-069-01	100	84	97	98	100	100
GL113-069-02	100	88	100	100	100	100
GL113-069-03	100	98	100	100	96	100
GL113-070-01	100	95	99	98	100	100
GL113-071-01	100	97	96	100	76	100
GL113-072-01	100	58	69	97	57	99

GL113-073-01	100	90	100	100	100	100
GL113-074-09	59	83	70	100	42	50
GL113-075-01	100	35	100	100	100	100
GL113-077-01	95	95	98	99	95	100
GL113-079-01	100	95	98	98	12	100
GL113-080-01	100	100	94	100	100	100
GL113-080-02	100	98	99	100	100	100
GL113-080-03	100	100	100	100	100	100
GL113-080-06	100	99	97	100	100	100
GL113-081-01	100	49	86	93	39	100
GL113-081-02	100	86	86	99	62	98
GL113-081-03	100	75	97	94	78	98
GL113-082-01	100	100	98	99	85	98
GL113-082-02	100	96	100	100	84	36
GL113-086-01	100	68	90	96		
GL113-086-02	100	76	99	99		
GL113-086-03	99	84	100	98		
GL113-087-01	100	100	90	99	83	98
GL113-088-02	73	49	60	95	88	21
GL113-091-01	99	92	99	100	74	100
GL113-092-01	100	100	96	98	89	100
GL113-096-02	100	92	99	99	100	100
GL113-097-01	87	94	98	99	100	98
GL113-098-01	100	99	100	100	100	100
GL113-098-05	100	100	98	100	100	99
GL113-098-06	100	94	84	92	84	63
GL113-099-03	100	73	81	83	33	14
GL113-100-01	23	43	88	93	87	89
GL113-100-02	23	18	95	95	100	100
GL113-101-01	100	96	100	99	33	97
GL113-102-01	99	93	97	98	100	100
GL113-104-02	100	100	99	100	100	100
GL113-104-03	100	100	100	100	100	100
GL113-104-04	100	100	100	100	98	99
GL113-104-05	98	100	100	99	100	98
GL113-105-01	25	58	35	87	49	68