



International Cotton Advisory Committee



CSITC Global - Round Trial 2014 - 3 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section One: Result Distribution

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Mandatory Parameters

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-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 - 3

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

Micronaire							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			4.243	5.070	4.127	4.570	
Reference Values for Evaluation			4.243	5.070	4.127	4.570	
Number Of Instruments			146	146	146	143	145
Inter-Instrument Variation	based on 30 tests	SD	0.060	0.062	0.084	0.070	0.069
		CV %	1.4	1.2	2.0	1.5	1.6
	based on 6 tests	SD	0.068	0.067	0.089	0.072	0.074
		CV %	1.6	1.3	2.2	1.6	1.7
Typical within-instrument Variation (Median)	based on single tests	SD	0.077	0.079	0.097	0.081	0.083
		CV %	1.8	1.5	2.4	1.8	1.9
	between different days with each 6 tests	SD	0.022	0.024	0.020	0.022	0.022
		CV %	0.5	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.033	0.038	0.036	0.033	0.035
		CV %	0.8	0.7	0.9	0.7	0.8
	between all tests on different days	SD	0.041	0.048	0.043	0.042	0.043
		CV %	1.0	0.9	1.0	0.9	1.0

Strength							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			33.836	28.646	23.536	31.329	
Reference Values for Evaluation			33.836	28.646	23.536	31.329	
Number Of Instruments			146	147	147	144	146
Inter-Instrument Variation	based on 30 tests	SD	0.759	0.865	0.856	1.051	0.883
		CV %	2.2	3.0	3.6	3.4	3.1
	based on 6 tests	SD	0.901	0.925	0.935	1.093	0.964
		CV %	2.7	3.2	4.0	3.5	3.3
Typical within-instrument Variation (Median)	based on single tests	SD	1.034	1.055	1.063	1.202	1.088
		CV %	3.1	3.7	4.5	3.8	3.8
	between different days with each 6 tests	SD	0.354	0.300	0.300	0.331	0.321
		CV %	1.0	1.0	1.3	1.1	1.1
	between single tests on one day	SD	0.558	0.558	0.518	0.490	0.531
		CV %	1.7	1.9	2.2	1.6	1.8
	between all tests on different days	SD	0.660	0.620	0.619	0.610	0.627
		CV %	2.0	2.2	2.6	1.9	2.2

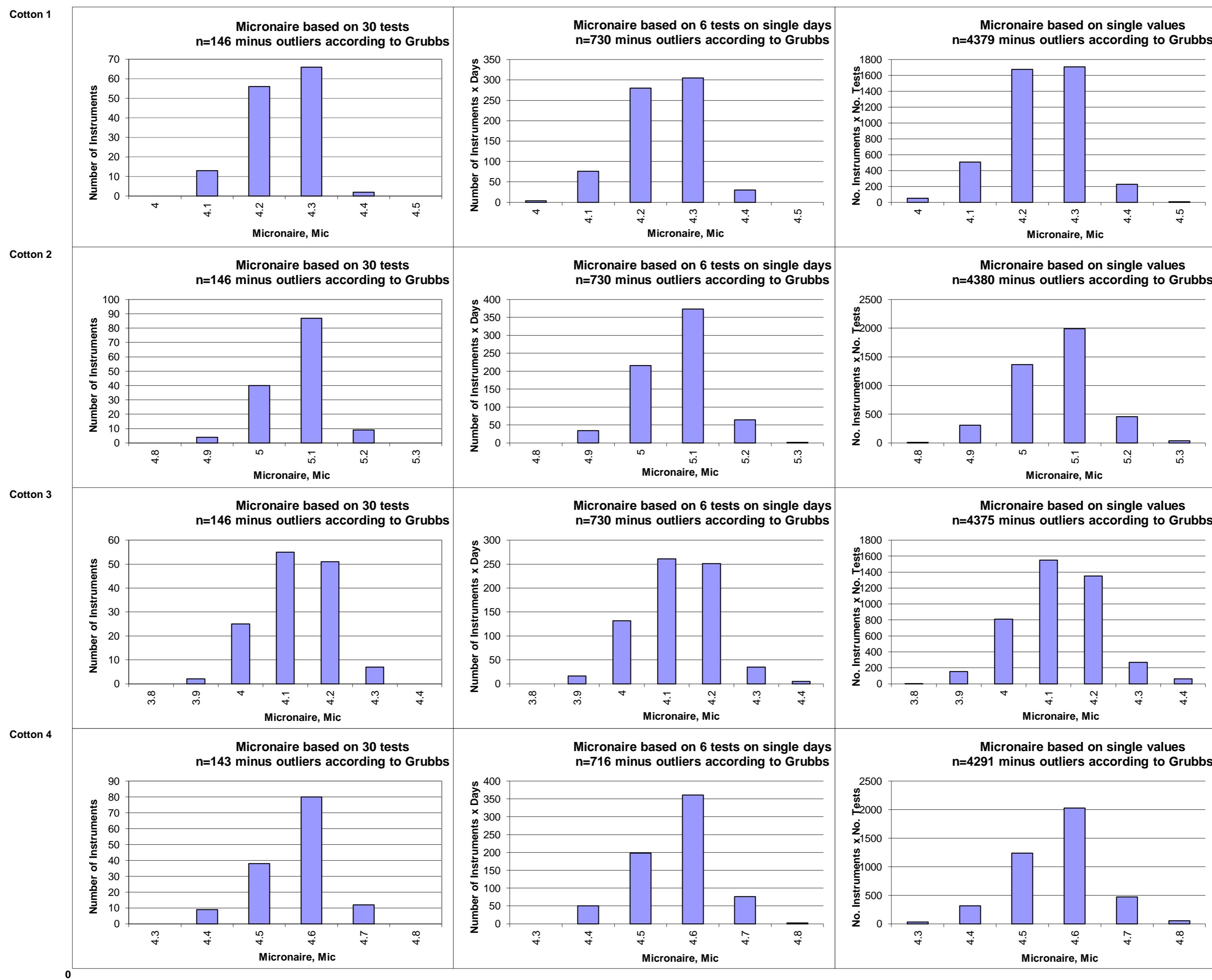
Length							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			1.2167	1.0541	0.9921	1.1682	
Reference Values for Evaluation			1.2167	1.0541	0.9921	1.1682	
Number Of Instruments			147	147	147	144	146
Inter-Instrument Variation	based on 30 tests	SD	0.0098	0.0100	0.0109	0.0133	0.0110
		CV %	0.8	0.9	1.1	1.1	1.0
	based on 6 tests	SD	0.0112	0.0122	0.0121	0.0142	0.0124
		CV %	0.9	1.2	1.2	1.2	1.1
Typical within-instrument Variation (Median)	based on single tests	SD	0.0153	0.0161	0.0162	0.0171	0.0162
		CV %	1.3	1.5	1.6	1.5	1.5
	between different days with each 6 tests	SD	0.0047	0.0048	0.0049	0.0049	0.0048
		CV %	0.4	0.5	0.5	0.4	0.4
	between single tests on one day	SD	0.0100	0.0106	0.0102	0.0091	0.0100
		CV %	0.8	1.0	1.0	0.8	0.9
	between all tests on different days	SD	0.0108	0.0113	0.0112	0.0103	0.0109
		CV %	0.9	1.1	1.1	0.9	1.0

Uniformity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			84.092	81.289	78.574	82.922	
Reference Values for Evaluation			84.092	81.289	78.574	82.922	
Number Of Instruments			147	147	147	144	146
Inter-Instrument Variation	based on 30 tests	SD	0.475	0.539	0.636	0.482	0.533
		CV %	0.6	0.7	0.8	0.6	0.7
	based on 6 tests	SD	0.580	0.611	0.712	0.577	0.620
		CV %	0.7	0.8	0.9	0.7	0.8
Typical within-instrument Variation (Median)	based on single tests	SD	0.754	0.804	0.897	0.788	0.811
		CV %	0.9	1.0	1.1	1.0	1.0
	between different days with each 6 tests	SD	0.247	0.278	0.269	0.250	0.261
		CV %	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.478	0.529	0.512	0.492	0.503
		CV %	0.6	0.7	0.7	0.6	0.6
	between all tests on different days	SD	0.554	0.601	0.578	0.545	0.570
		CV %	0.7	0.7	0.7	0.7	0.7

Color Rd							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			79.076	78.218	75.978	79.594	
Reference Values for Evaluation			79.076	78.218	75.978	79.594	
Number Of Instruments			143	143	143	140	142
Inter-Instrument Variation	based on 30 tests	SD	0.864	0.827	0.830	0.864	0.847
		CV %	1.1	1.1	1.1	1.1	1.1
	based on 6 tests	SD	0.891	0.846	0.844	0.860	0.860
		CV %	1.1	1.1	1.1	1.1	1.1
	based on single tests	SD	0.913	0.880	0.872	0.899	0.891
		CV %	1.2	1.1	1.1	1.1	1.1
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.149	0.150	0.151	0.148	0.149
		CV %	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.170	0.196	0.165	0.175	0.177
		CV %	0.2	0.3	0.2	0.2	0.2
	between all tests on different days	SD	0.251	0.262	0.258	0.245	0.254
		CV %	0.3	0.3	0.3	0.3	0.3

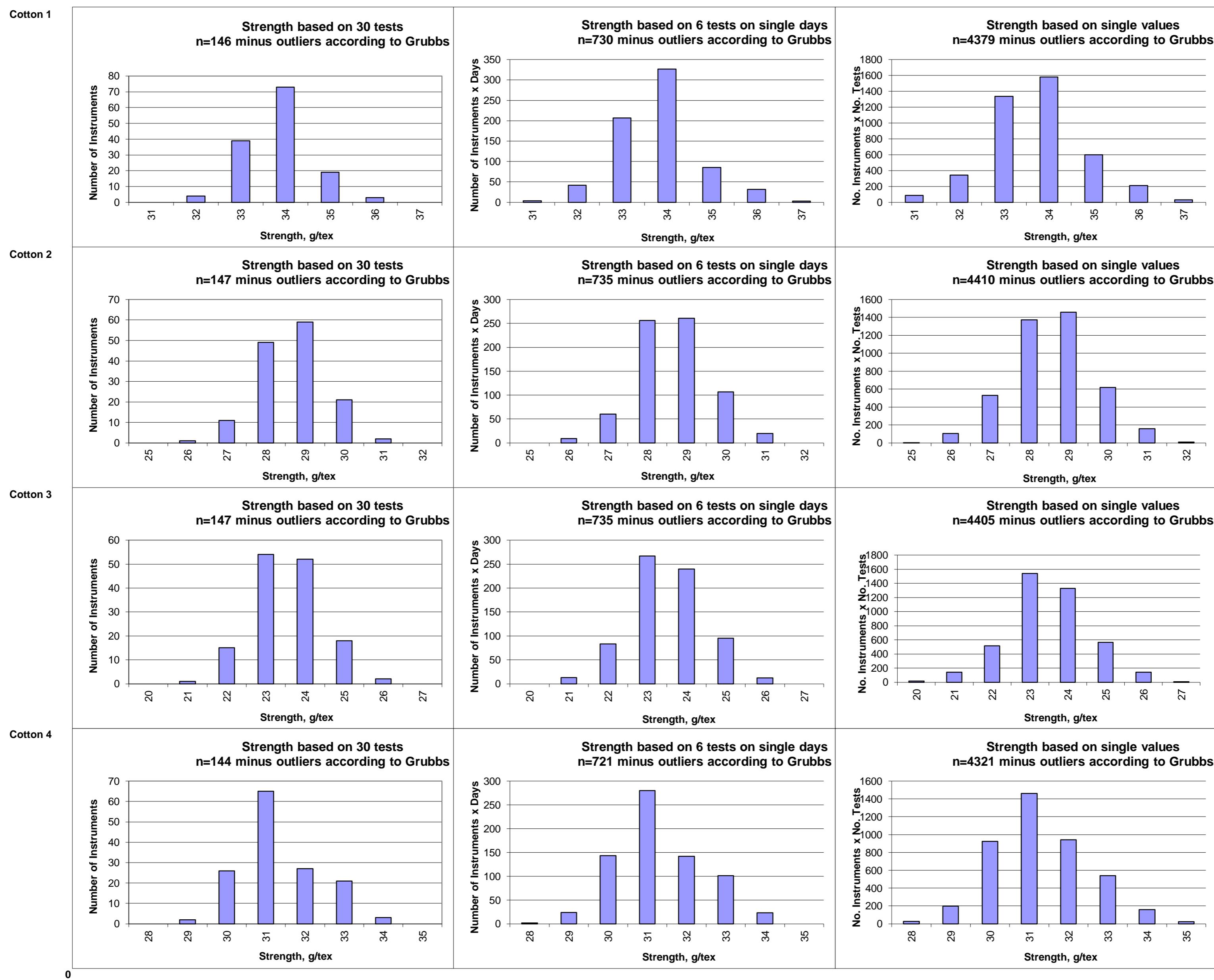
Color +b							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			11.784	8.356	11.383	9.309	
Reference Values for Evaluation			11.784	8.356	11.383	9.309	
Number Of Instruments			143	143	143	140	142
Inter-Instrument Variation	based on 30 tests	SD	0.321	0.221	0.316	0.263	0.280
		CV %	2.7	2.6	2.8	2.8	2.7
	based on 6 tests	SD	0.366	0.241	0.311	0.282	0.300
		CV %	3.1	2.9	2.7	3.0	2.9
	based on single tests	SD	0.391	0.267	0.337	0.304	0.325
		CV %	3.3	3.2	3.0	3.3	3.2
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.102	0.087	0.085	0.083	0.089
		CV %	0.9	1.0	0.7	0.9	0.9
	between single tests on one day	SD	0.113	0.098	0.088	0.100	0.100
		CV %	1.0	1.2	0.8	1.1	1.0
	between all tests on different days	SD	0.160	0.130	0.123	0.138	0.138
		CV %	1.4	1.6	1.1	1.5	1.4

Test Result Distributions
Micronaire



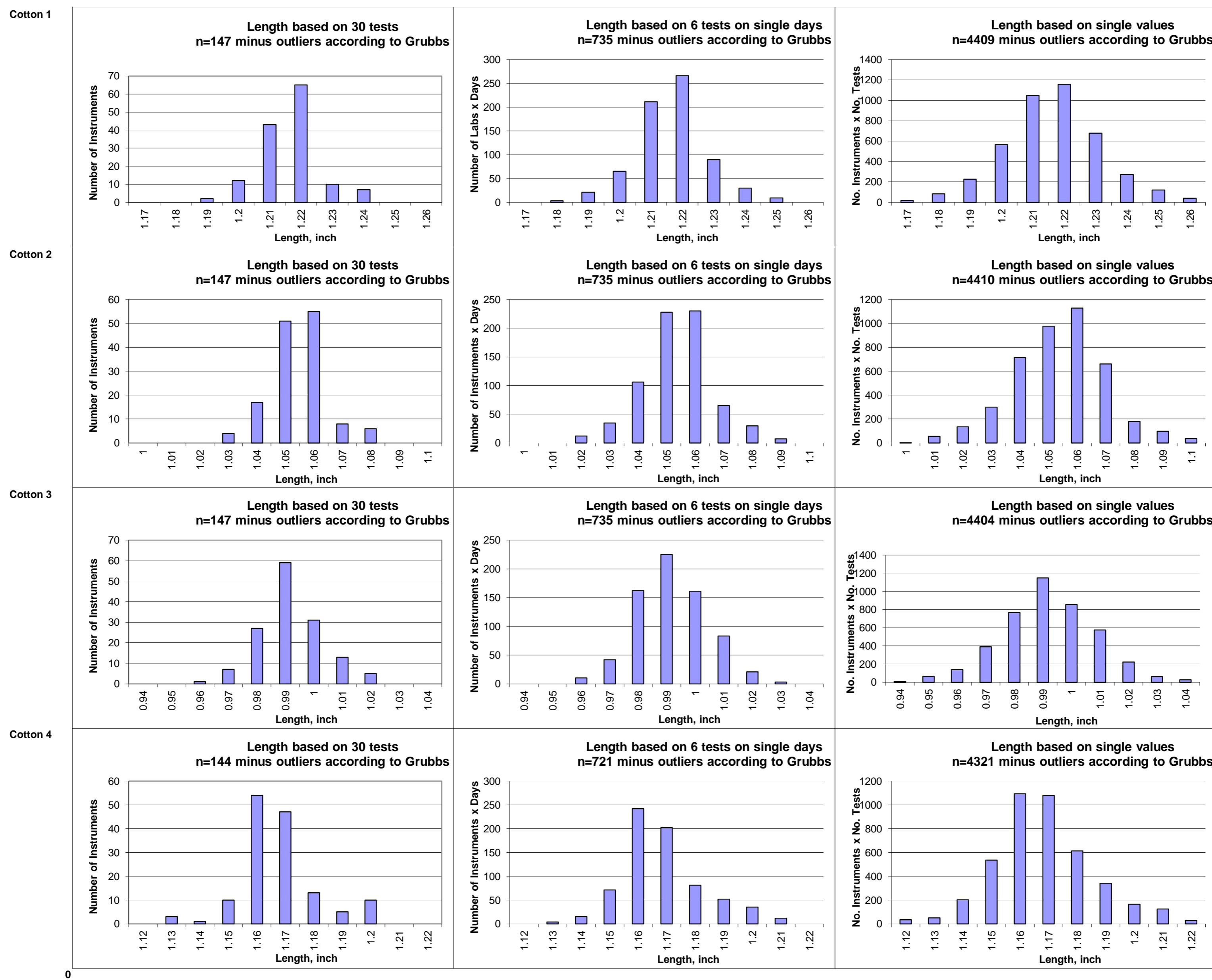
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



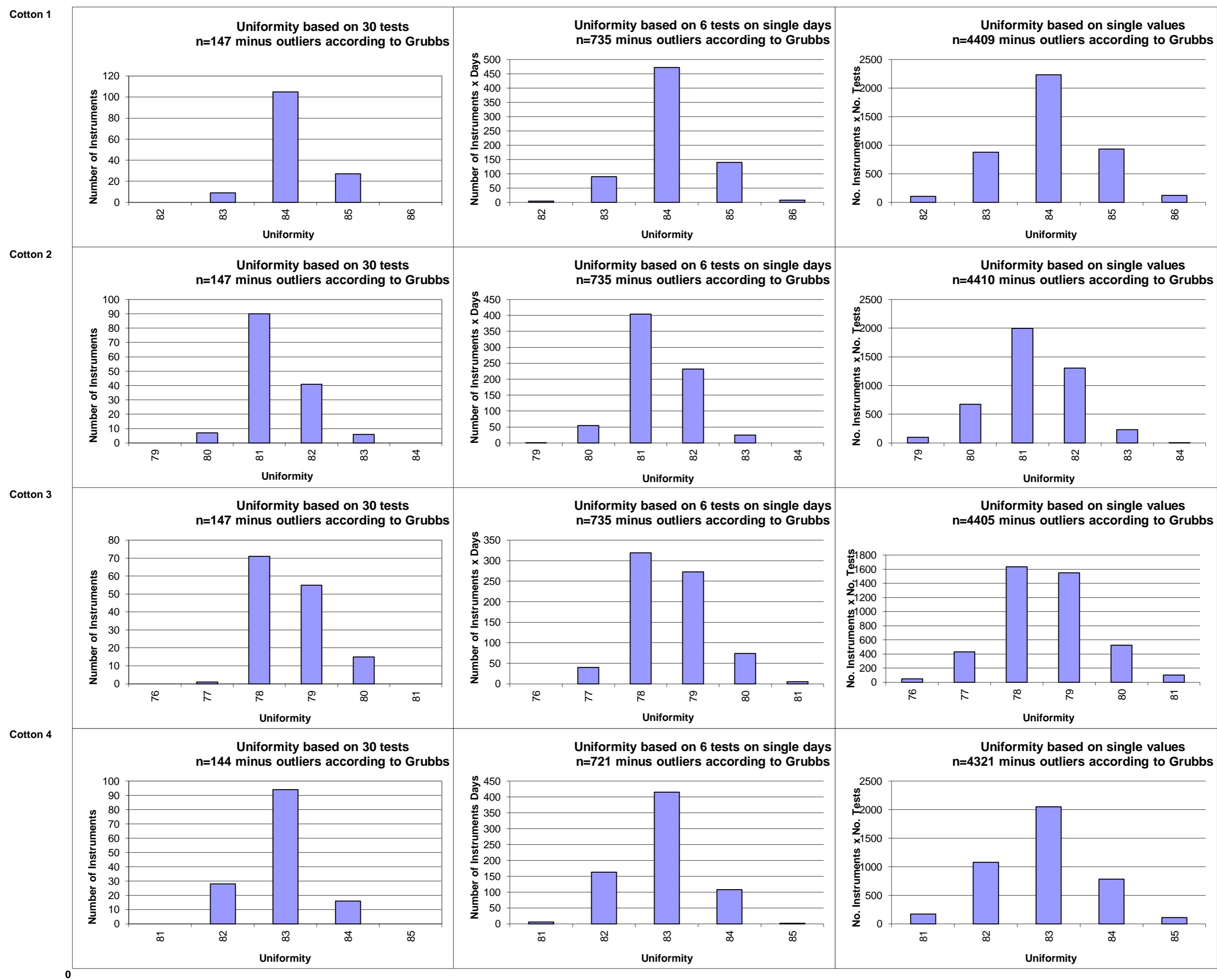
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Test Result Distributions
Length



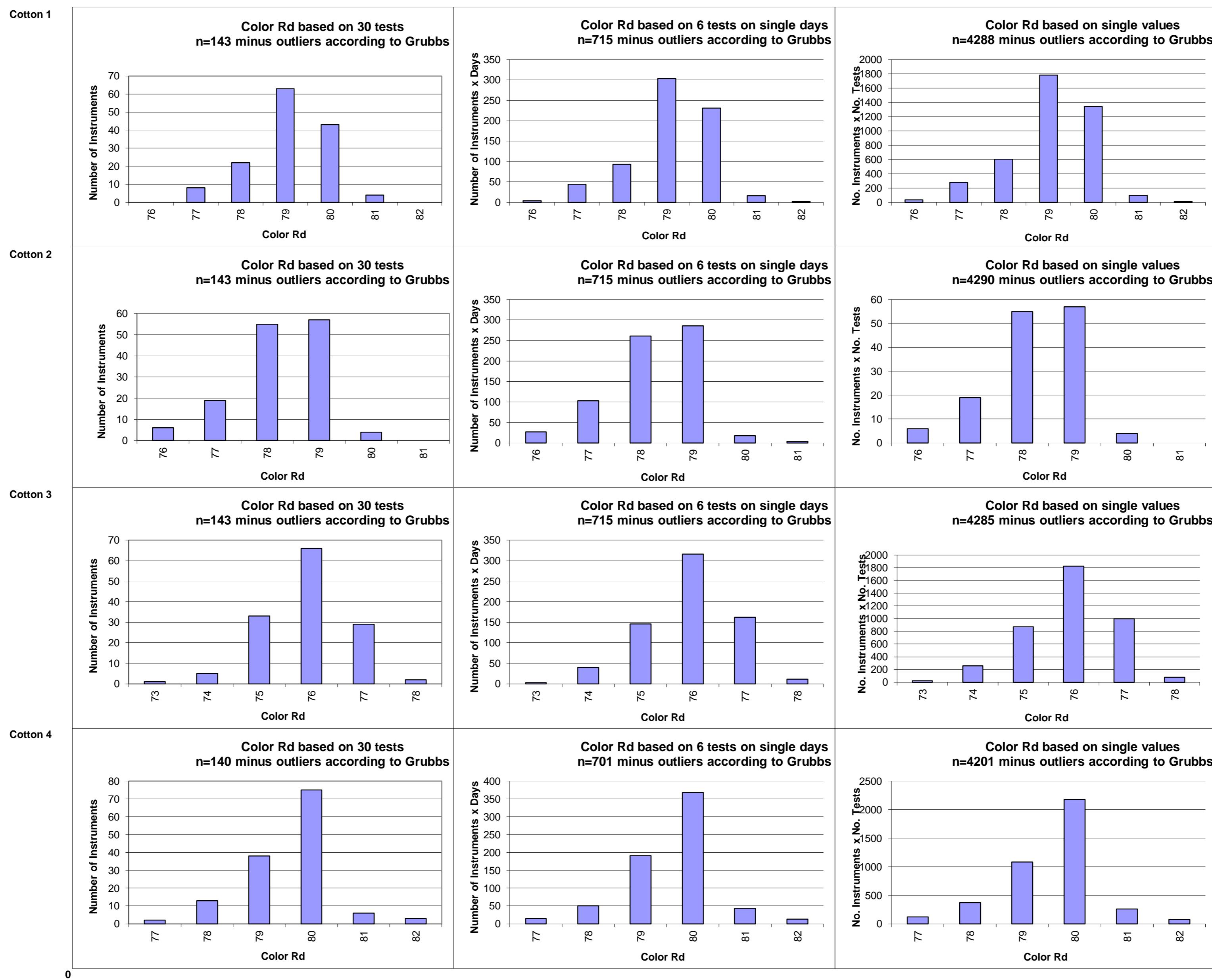
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Test Result Distributions
Uniformity



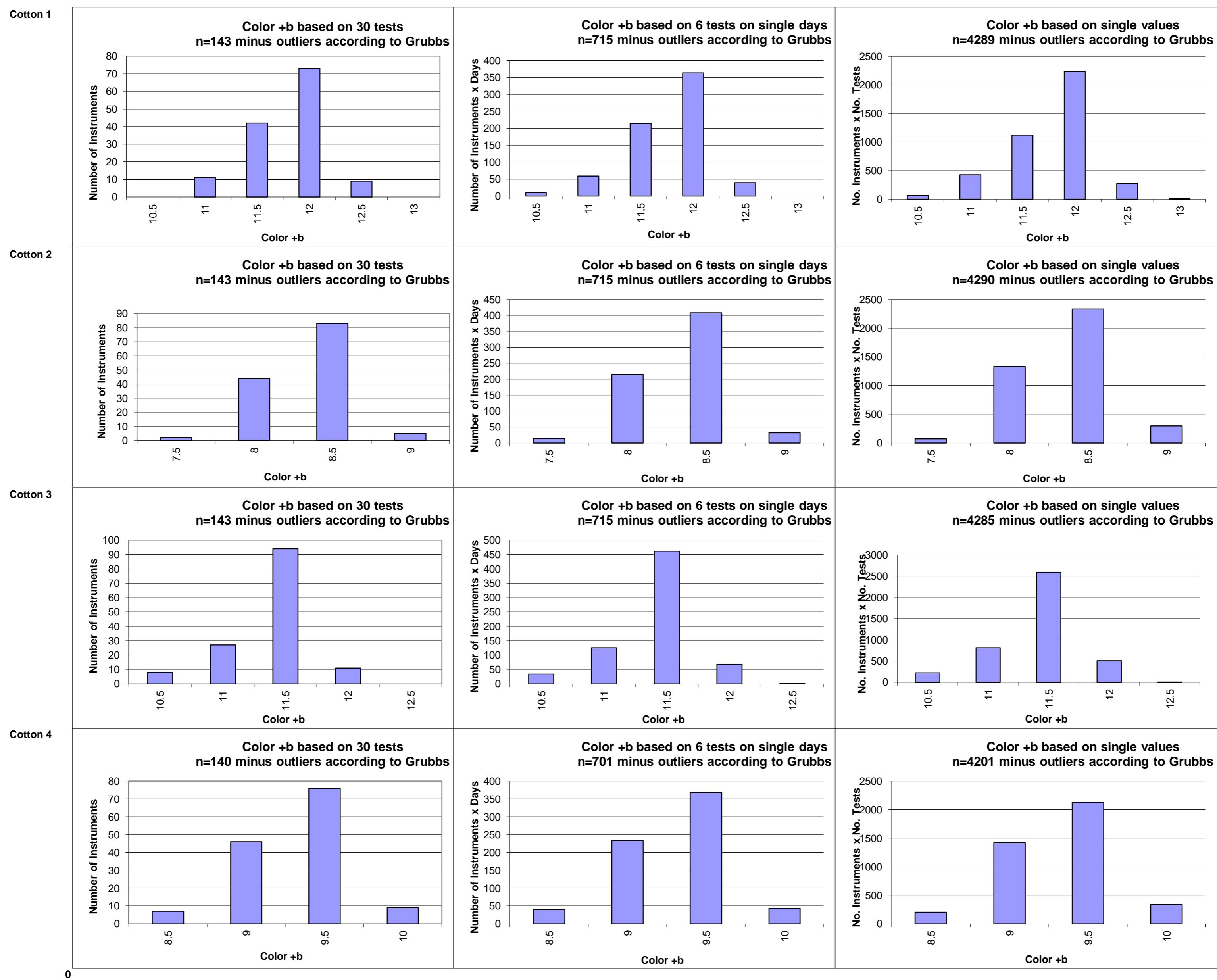
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Test Result Distributions
Color Rd



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(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

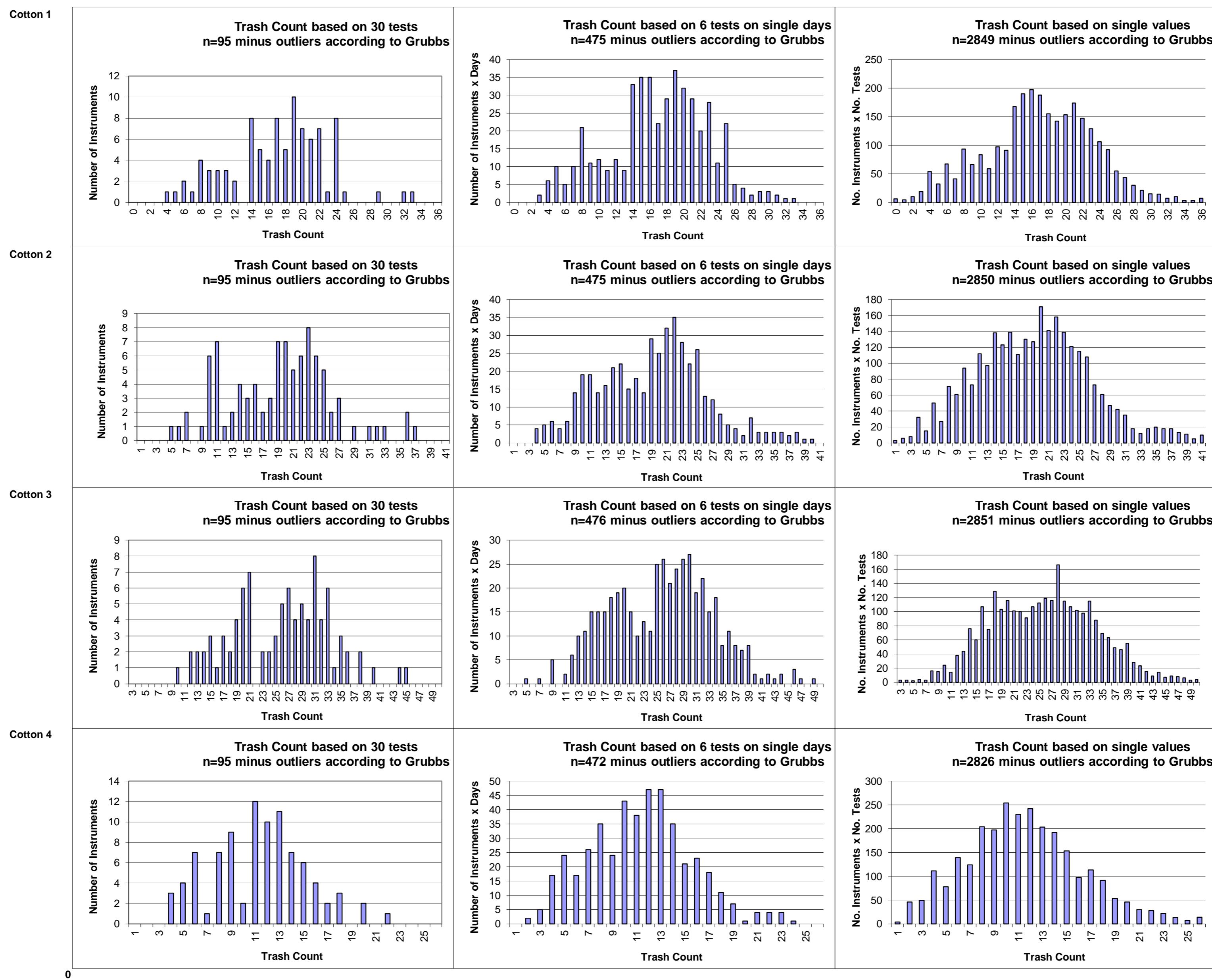
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			17.13	19.32	25.87	11.39	
Reference Values for Evaluation			17.13	19.32	25.87	11.39	
Number Of Instruments			95	95	95	95	95
Inter-Instrument Variation	based on 30 tests	SD	5.79	6.82	7.45	3.94	6.00
		CV %	33.8	35.3	28.8	34.6	33.1
	based on 6 tests	SD	5.91	7.06	7.81	4.24	6.25
		CV %	34.5	36.5	30.2	37.2	34.6
Typical within-instrument Variation (Median)	based on single tests	SD	6.37	7.44	8.29	4.79	6.72
		CV %	37.2	38.5	32.0	42.0	37.4
	between different days with each 6 tests	SD	1.65	1.96	2.38	1.39	1.85
		CV %	9.6	10.1	9.2	12.2	10.3
	between single tests on one day	SD	2.35	2.57	2.74	2.01	2.42
		CV %	13.7	13.3	10.6	17.7	13.8
	between all tests on different days	SD	2.89	3.42	4.02	2.59	3.23
		CV %	16.9	17.7	15.5	22.7	18.2

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.161	0.195	0.268	0.123	
Reference Values for Evaluation			0.161	0.195	0.268	0.123	
Number Of Instruments			95	95	95	95	95
Inter-Instrument Variation	based on 30 tests	SD	0.036	0.049	0.063	0.034	0.046
		CV %	22.2	25.1	23.7	27.8	24.7
	based on 6 tests	SD	0.043	0.059	0.070	0.036	0.052
		CV %	26.5	29.9	26.3	29.4	28.0
Typical within-instrument Variation (Median)	based on single tests	SD	0.052	0.071	0.082	0.042	0.062
		CV %	32.6	36.4	30.6	34.0	33.4
	between different days with each 6 tests	SD	0.020	0.027	0.034	0.018	0.025
		CV %	12.5	13.7	12.7	14.5	13.3
	between single tests on one day	SD	0.030	0.034	0.045	0.022	0.033
		CV %	19.0	17.3	16.6	17.8	17.7
	between all tests on different days	SD	0.038	0.049	0.054	0.032	0.043
		CV %	23.8	25.1	20.2	25.8	23.7

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			85.84	87.66	84.32	86.73	
Reference Values for Evaluation			85.84	87.66	84.32	86.73	
Number Of Instruments			102	102	102	102	102
Inter-Instrument Variation	based on 30 tests	SD	2.01	1.73	2.02	1.80	1.89
		CV %	2.3	2.0	2.4	2.1	2.2
	based on 6 tests	SD	2.03	1.70	2.05	1.82	1.90
		CV %	2.4	1.9	2.4	2.1	2.2
Typical within-instrument Variation (Median)	based on single tests	SD	2.06	1.73	2.10	1.82	1.93
		CV %	2.4	2.0	2.5	2.1	2.2
	between different days with each 6 tests	SD	0.15	0.15	0.17	0.16	0.16
		CV %	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.27	0.27	0.27	0.27	0.27
		CV %	0.3	0.3	0.3	0.3	0.3
	between all tests on different days	SD	0.41	0.41	0.43	0.41	0.41
		CV %	0.5	0.5	0.5	0.5	0.5

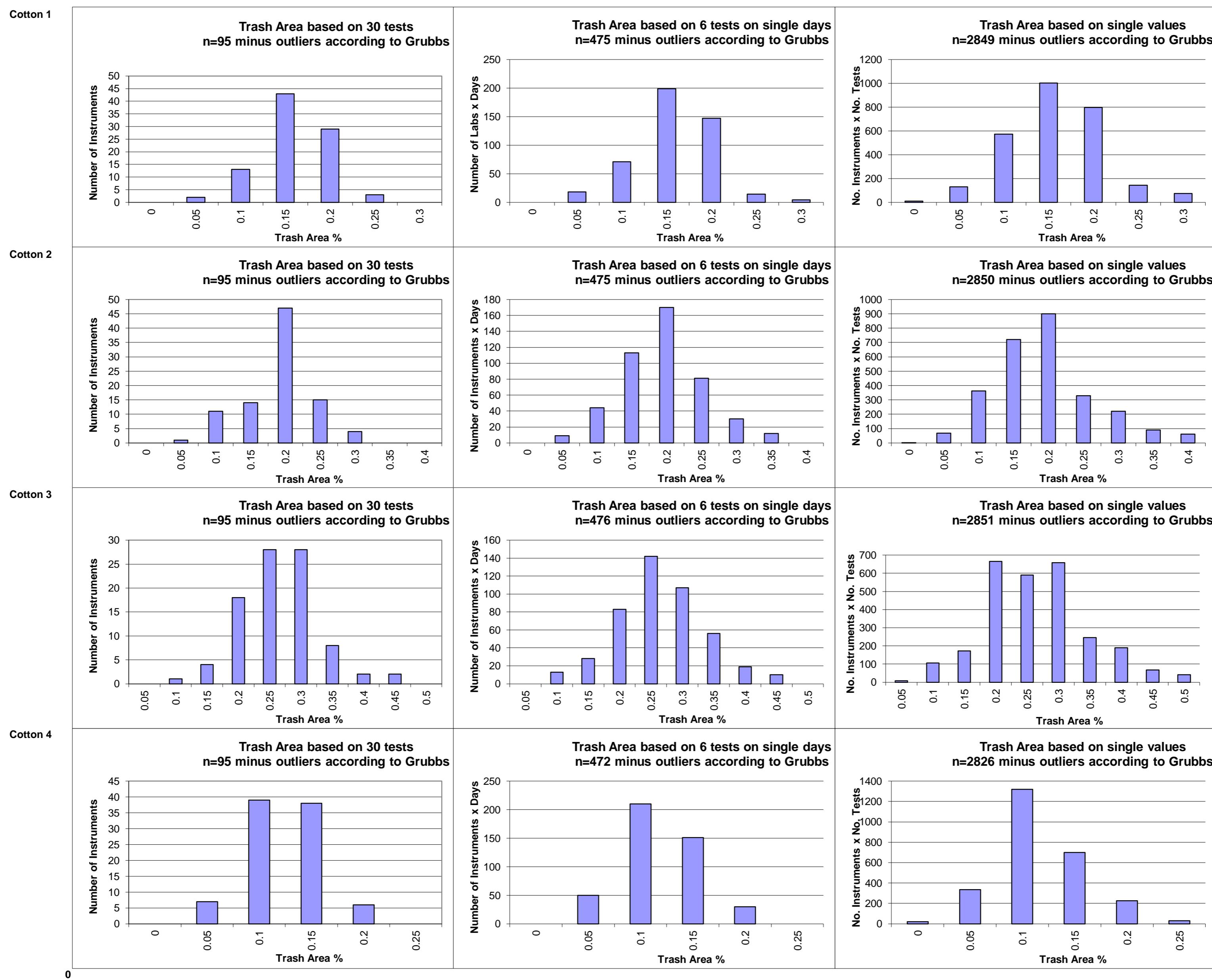
SFI							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			7.22	9.74	14.29	8.50	
Reference Values for Evaluation			7.22	9.74	14.29	8.50	
Number Of Instruments			109	109	109	109	109
Inter-Instrument Variation	based on 30 tests	SD	0.76	1.02	1.79	0.93	1.12
		CV %	10.5	10.5	12.5	10.9	11.1
	based on 6 tests	SD	0.78	1.01	1.83	0.96	1.14
		CV %	10.8	10.3	12.8	11.3	11.3
Typical within-instrument Variation (Median)	based on single tests	SD	0.85	1.09	1.91	1.02	1.22
		CV %	11.8	11.2	13.4	12.0	12.1
	between different days with each 6 tests	SD	0.15	0.23	0.38	0.20	0.24
		CV %	2.1	2.4	2.7	2.3	2.4
	between single tests on one day	SD	0.29	0.49	0.68	0.36	0.45
		CV %	4.0	5.0	4.8	4.2	4.5
	between all tests on different days	SD	0.34	0.55	0.78	0.41	0.52
		CV %	4.8	5.6	5.4	4.8	5.2

Test Result Distributions
Trash Count



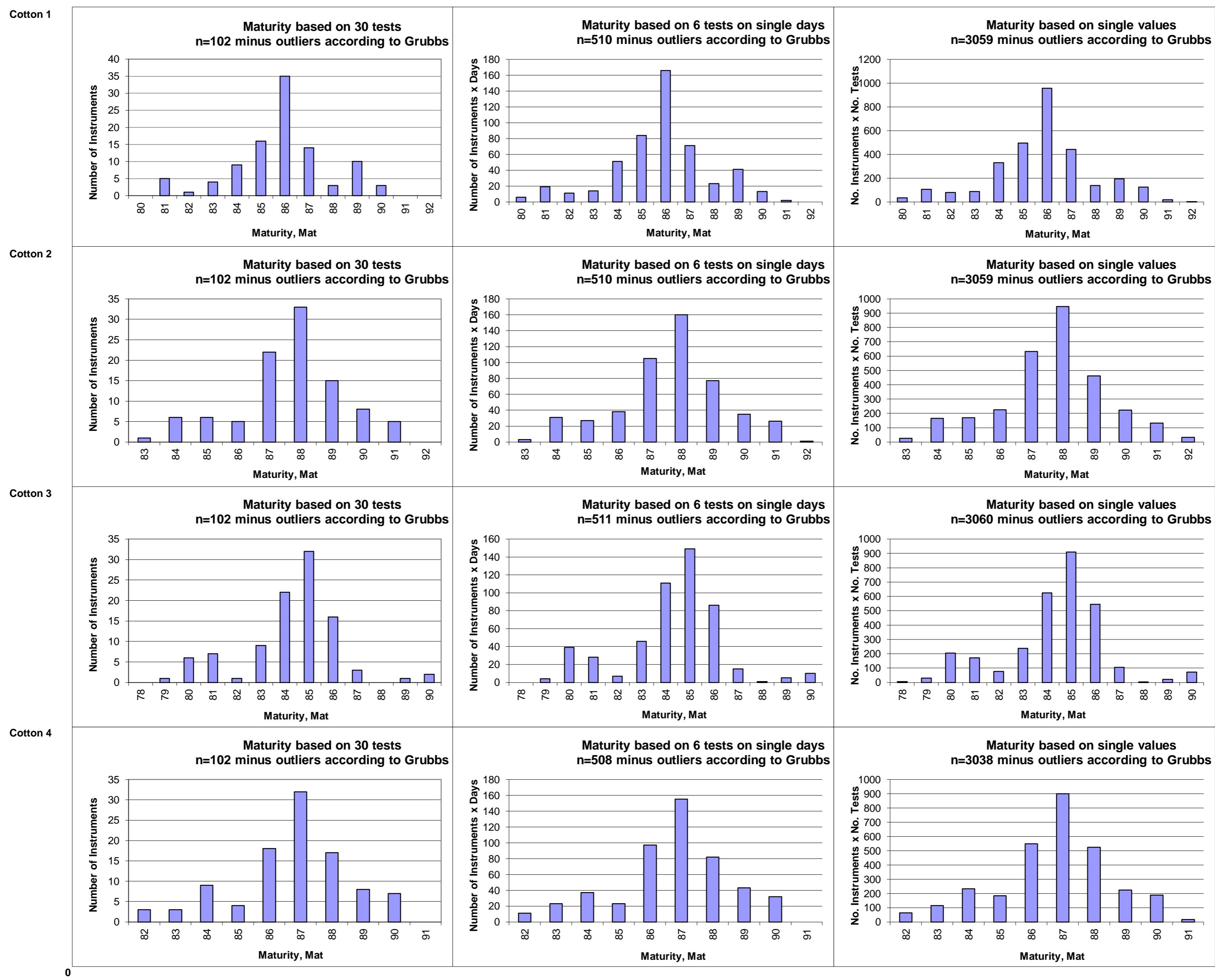
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
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Test Result Distributions
Trash Area

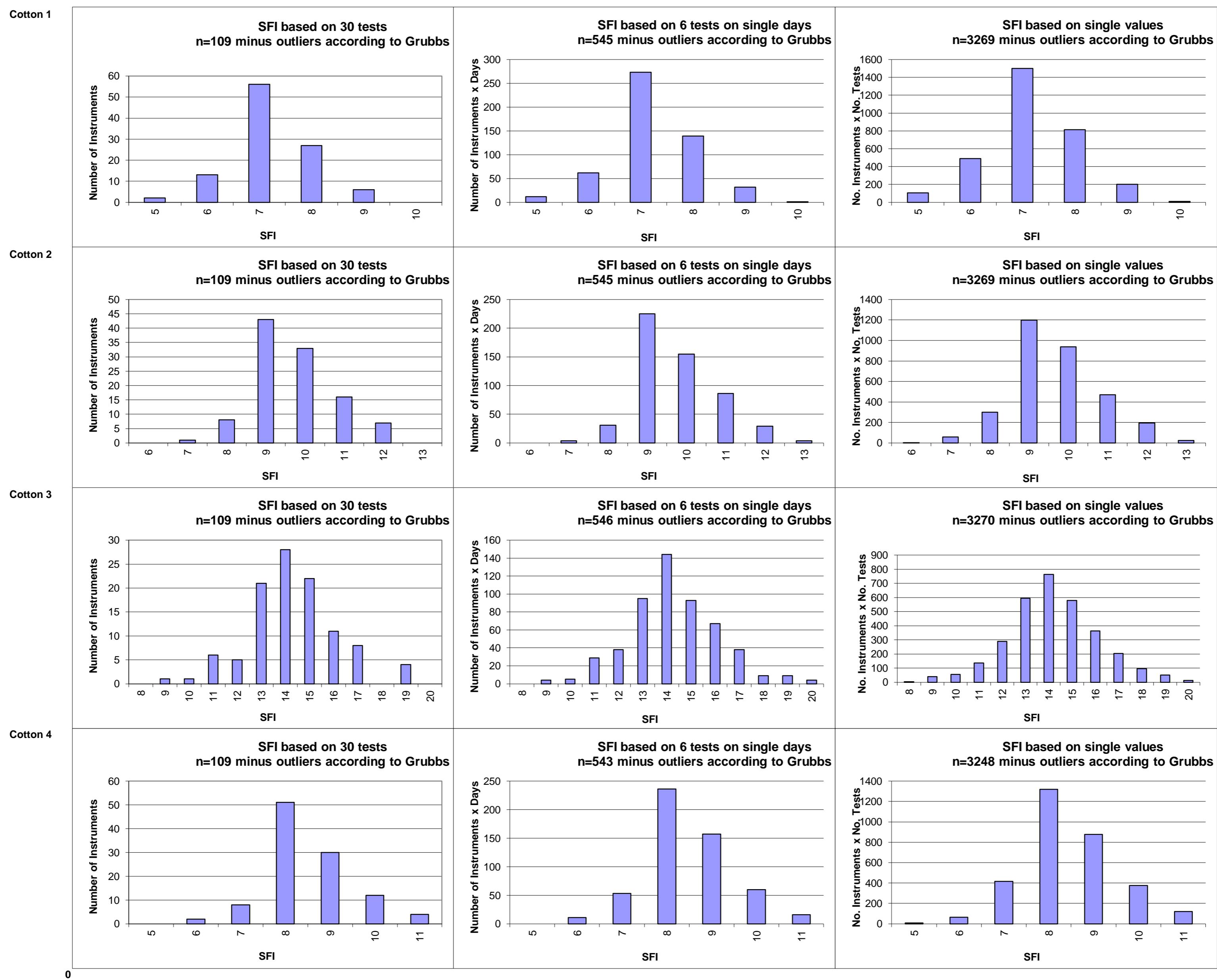


(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Maturity



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 - 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:
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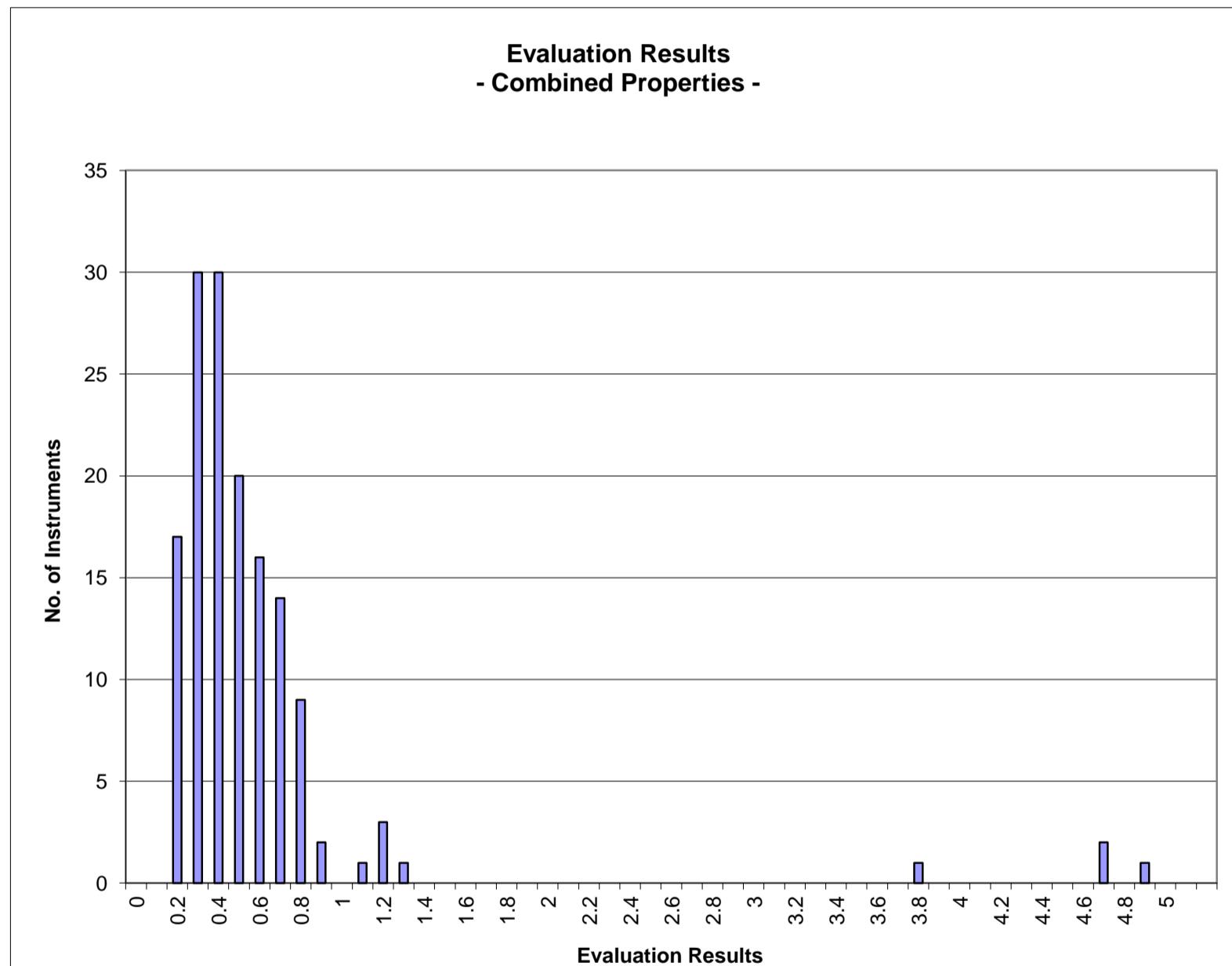
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Instrument Evaluation**- Graph of Combined Properties -**

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2014 - 3

		Evaluation Combined Prop.
Statistics	Average	0.59
	Median	0.44
	Best Instrument	0.18
	Worst Instrument	4.91



x-Axis shows midpoints of classes

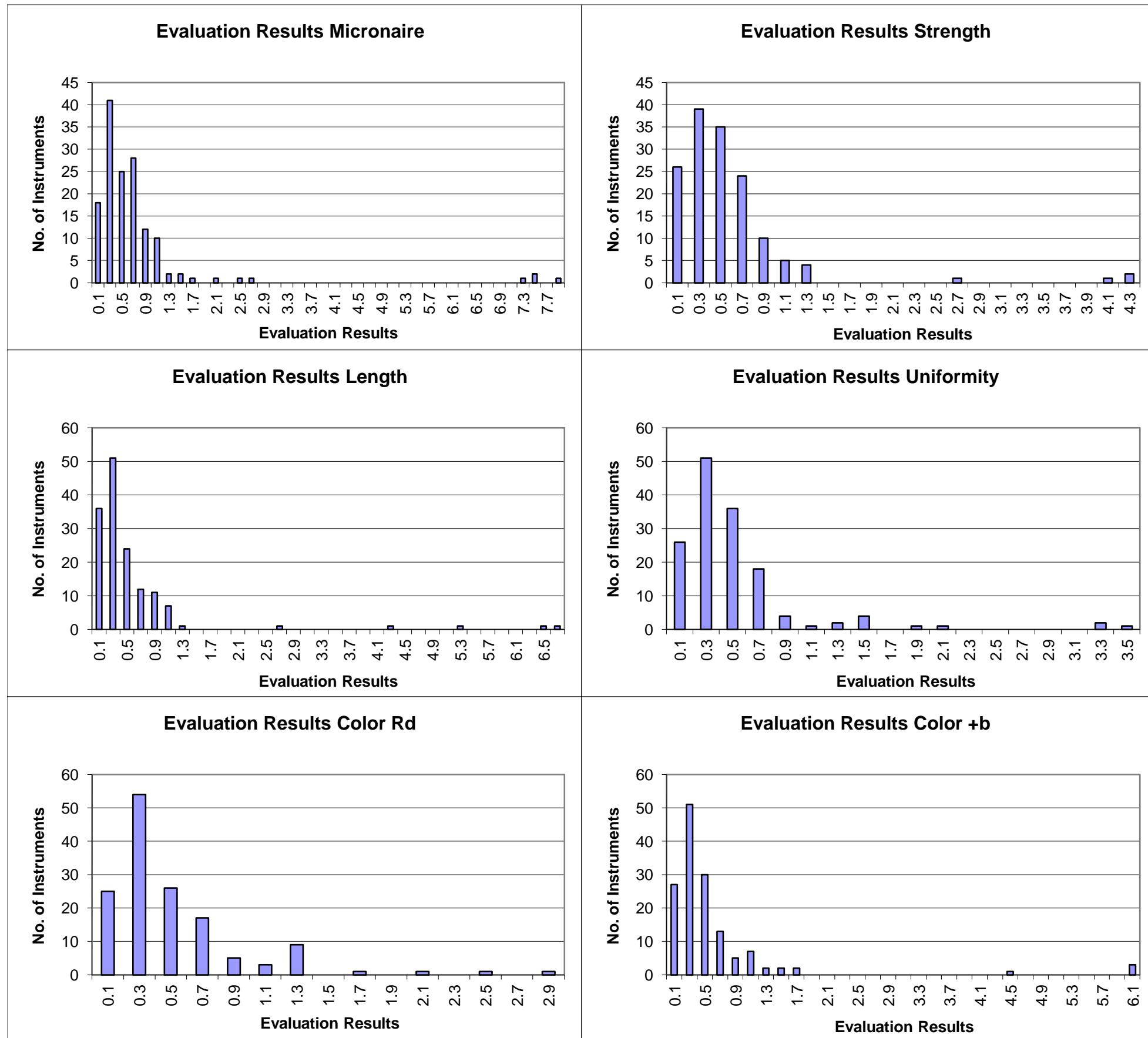
The evaluation results are entered based on the unrounded values
(classes are defined as > lower limit and <= upper limit)

Instrument Evaluation**- Graph of Single Properties -**

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2014 - 3

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.77	0.57	0.58	0.52	0.50	0.60
	Median	0.51	0.45	0.33	0.39	0.36	0.36
	Best Instr.	0.09	0.07	0.05	0.04	0.04	0.03
	Worst Instr.	7.91	4.26	6.72	3.41	2.98	6.07



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 - 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

Executed By:
Faserinstitut Bremen e.V., Bremen, Germany*
USDA-AMS, Memphis, TN, USA

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Generation 10 Limited



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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	94.7	93.2	94.4	96.6	88.0	96.3
Completely within limits	90.4	83.7	87.1	93.2	79.0	92.3
% of Instruments ≥75% within limits	95.2	93.9	95.9	97.3	86.7	97.2
% of Instruments ≥50% within limits	95.9	97.3	97.3	98.0	90.2	97.9

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL143-001-01	100	100	100	100	100	100
GL143-001-02	100	100	100	100	100	100
GL143-002-01	100	100	100	100	100	100
GL143-002-03	100	75	100	100	100	100
GL143-003-01	100	50	100	100	25	100
GL143-004-01	100	100	75	75	0	75
GL143-005-01	100	75	75	100	75	100
GL143-005-02	100	75	75	100	75	100
GL143-006-01	100	100	100	100	100	100
GL143-006-05	100	100	100	100	100	100
GL143-006-08	100	100	100	100	100	100
GL143-006-09	100	100	100	100	100	100
GL143-007-03	100	100	75	100		
GL143-008-01	100	75	100	100	100	100
GL143-008-02	100	100	100	100	100	100
GL143-009-01	100	100	100	100	100	100
GL143-010-01	100	100	100	100	100	100
GL143-011-02	100	100	100	100	50	100
GL143-012-04	100	100	100	100	100	100
GL143-013-01	100	100	100	100	100	100
GL143-013-04	100	100	100	100	100	100
GL143-013-05	100	100	100	100	100	100
GL143-014-56	100	100	100	100	100	100
GL143-014-58	100	100	100	100	100	100
GL143-015-01	100	100	100	100	100	100
GL143-016-01	100	100	100	100	100	100
GL143-017-01	100	100	100	100	100	100
GL143-017-02	100	100	100	100	100	100
GL143-018-01	100	100	100	100	100	100
GL143-019-01	50	100	100	100	25	100
GL143-020-01	100	100	100	100	75	100
GL143-020-02	100	100	100	100	100	100
GL143-020-04	100	100	100	100	100	100
GL143-021-01	100	100	100	100	25	100
GL143-022-01	100	100	100	100	100	100
GL143-023-03	100	100	100	100	100	100
GL143-024-02	100	75	100	100	100	100
GL143-024-03	100	100	100	100	100	100
GL143-025-01	100	100	100	100	100	100

GL143-026-01	100	100	100	100	100	100
GL143-028-01	75	75	100	100	100	100
GL143-029-01	100	100	100	100	75	100
GL143-030-01	100	100	100	100	100	100
GL143-032-01	100	100	100	100	100	100
GL143-032-02	100	100	100	100	100	100
GL143-034-01	100	100	100	100	100	100
GL143-034-03	100	50	100	75	50	100
GL143-035-01	100	100	100	100	75	75
GL143-035-02	100	100	100	100	75	75
GL143-035-03	100	100	100	100	100	100
GL143-036-01	100	100	100	100	100	100
GL143-036-02	100	100	100	100	100	100
GL143-037-01	100	100	100	100	100	100
GL143-037-02	100	100	100	100	75	100
GL143-037-03	100	100	100	100	75	75
GL143-037-05	100	100	100	100	75	100
GL143-039-01	100	100	100	100	100	100
GL143-040-01	100	100	100	100	25	75
GL143-041-01	100	100	100	100	100	100
GL143-042-01	100	100	100	100	100	100
GL143-043-01	100	100	100	100	100	100
GL143-043-02	100	100	100	100	100	100
GL143-043-06	100	100	100	100	100	100
GL143-044-01	100	100	100	100	100	100
GL143-044-05	100	100	100	100	100	100
GL143-044-07	100	100	100	100	100	100
GL143-045-01	100	100	100	100	100	100
GL143-046-03	100	100	100	100	100	100
GL143-046-04	100	100	100	100	100	100
GL143-046-06	100	100	100	100	100	100
GL143-047-01	100	100	100	100	100	100
GL143-048-01	100	100	100	100		
GL143-048-02	100	100	100	100		
GL143-049-01	0	0	0	0	33	0
GL143-049-02	0	0	0	0	33	0
GL143-049-03	0	0	0	0	67	0
GL143-051-01	100	75	75	100	75	100
GL143-052-01	100	100	100	100	100	100
GL143-053-04	25	75	75	100	0	100
GL143-054-01	100	100	100	100	100	100
GL143-056-01	100	75	100	100	100	100
GL143-057-01	100	100	100	100	100	100
GL143-057-02	100	100	100	100	100	100
GL143-058-01	0	25	50	50	25	50
GL143-059-01	100	100	100	100	100	100
GL143-059-02	100	100	100	100	100	100
GL143-063-01	100	100	100	100	100	100
GL143-064-03	100	100	100	100	100	100
GL143-064-07	100	100	100	100	100	100
GL143-064-08	100	100	100	100	100	100
GL143-064-09	100	100	100	100	100	100
GL143-064-10	100	100	100	100	100	100
GL143-065-01	100	100	100	100	100	100
GL143-066-01	100	100	100	100	100	100
GL143-066-02	100	100	100	100	100	100
GL143-066-03	100	100	100	100	100	100
GL143-066-04	100	100	100	100	100	100
GL143-067-01	100	100	100	100	100	100
GL143-068-01	100	100	100	100	100	100

GL143-068-02	100	100	100	100	100	100
GL143-071-20	100	50	100	100	75	100
GL143-073-01	100	100	100	100	100	100
GL143-075-01	100	100	100	100	100	100
GL143-076-01	100	100	100	100	100	100
GL143-077-01	100	100	100	100	100	100
GL143-078-02	100	100	100	100	100	100
GL143-079-01	100	75	75	100	100	100
GL143-079-02	100	75	75	100	100	100
GL143-079-03	100	100	100	100	100	100
GL143-079-04	100	100	100	100	100	100
GL143-080-03		75	100	100		
GL143-081-02	75	100	75	75	100	100
GL143-081-03	75	100	75	75	100	100
GL143-081-09	75	100	75	75	100	100
GL143-081-11	75	100	75	75	100	100
GL143-082-01	100	100	100	100	100	100
GL143-084-03	100	100	100	100	100	100
GL143-084-04	100	100	100	100	100	100
GL143-084-05	100	100	100	100	100	100
GL143-087-02	100	100	100	100	100	100
GL143-087-06	100	100	100	100	100	100
GL143-088-01	100	100	100	100	100	100
GL143-089-02	100	100	100	100	0	100
GL143-090-01	100	100	100	100	0	100
GL143-091-12	100	100	100	100	100	100
GL143-091-13	100	100	100	100	100	100
GL143-094-01	100	100	100	100	50	100
GL143-095-03	100	100	100	100	100	100
GL143-096-01	100	100	100	100	100	100
GL143-096-02	100	100	100	100	100	100
GL143-097-01	100	75	100	100	100	100
GL143-099-01	100	100	75	100	100	100
GL143-100-01	100	100	100	100	100	100
GL143-100-03	100	100	100	100	100	100
GL143-101-01	100	75	100	100	100	75
GL143-102-03	100	100	100	100	0	100
GL143-102-05	100	50	100	100	50	100
GL143-102-06	75	75	100	100	0	100
GL143-106-01	100	100	100	100	100	100
GL143-106-02	100	100	100	100	100	100
GL143-107-01	75	50	0	100	100	75
GL143-108-01	100	100	100	100	100	100
GL143-109-01	25	100	50	100	0	100
GL143-110-04	100	100	100	100	100	100
GL143-110-20	100	100	100	100	100	100
GL143-111-04	100	100	100	100	100	100
GL143-111-05	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	93.2	88.9	92.4	94.7	87.0	95.7
% of Instruments 100% within limits	58.9	24.5	38.1	44.2	51.7	72.0
% of Instruments ≥95% within limits	81.5	56.5	68.0	81.6	68.5	87.4
% of Instruments ≥75% within limits	92.5	85.7	94.6	93.2	81.8	95.8
% of Instruments ≥65% within limits	93.8	91.2	95.9	95.2	86.0	96.5
% of Instruments ≥50% within limits	95.9	97.3	96.6	98.0	89.5	97.2

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL143-001-01	100	100	93	96	100	100
GL143-001-02	100	100	95	100	100	100
GL143-002-01	98	94	88	93	99	100
GL143-002-03	100	72	83	99	100	100
GL143-003-01	100	51	96	100	30	99
GL143-004-01	100	83	74	66	0	79
GL143-005-01	87	64	84	99	85	89
GL143-005-02	92	67	84	99	88	94
GL143-006-01	100	98	94	93	100	99
GL143-006-05	100	93	98	98	98	100
GL143-006-08	99	93	93	98	99	100
GL143-006-09	99	89	98	99	99	100
GL143-007-03	100	95	84	100		
GL143-008-01	100	55	88	99	100	100
GL143-008-02	97	96	99	98	100	99
GL143-009-01	100	92	100	94	100	100
GL143-010-01	100	85	100	100	95	99
GL143-011-02	100	99	100	100	54	100
GL143-012-04	100	93	96	99	100	100
GL143-013-01	99	100	100	100	100	100
GL143-013-04	100	100	100	100	100	100
GL143-013-05	100	100	100	100	100	100
GL143-014-56	100	100	100	100	100	100
GL143-014-58	100	100	100	100	100	100
GL143-015-01	100	88	91	94	98	100
GL143-016-01	88	90	94	98	99	100
GL143-017-01	100	91	100	97	100	100
GL143-017-02	100	99	100	98	100	100
GL143-018-01	100	99	96	99	99	100
GL143-019-01	62	69	86	98	38	100
GL143-020-01	100	91	97	99	68	100
GL143-020-02	94	98	99	100	100	100
GL143-020-04	100	100	99	100	100	100
GL143-021-01	82	86	99	100	31	99
GL143-022-01	97	100	100	100	100	100
GL143-023-03	100	98	100	99	99	100

GL143-024-02	100	76	100	100	95	100
GL143-024-03	100	98	100	99	100	100
GL143-025-01	100	98	100	100	100	100
GL143-026-01	100	99	88	83	100	100
GL143-028-01	68	63	98	98	82	99
GL143-029-01	100	89	88	96	69	100
GL143-030-01	98	96	100	98	83	98
GL143-032-01	100	100	100	100	100	100
GL143-032-02	100	100	100	100	100	100
GL143-034-01	100	100	100	100	100	100
GL143-034-03	100	52	99	73	43	96
GL143-035-01	98	93	81	88	71	81
GL143-035-02	99	95	91	94	75	72
GL143-035-03	95	100	94	98	100	100
GL143-036-01	100	99	96	98	97	100
GL143-036-02	97	93	98	100	93	97
GL143-037-01	100	100	100	100	93	97
GL143-037-02	100	100	98	100	91	100
GL143-037-03	89	100	100	100	80	88
GL143-037-05	90	100	100	100	83	90
GL143-039-01	100	100	100	100	100	100
GL143-040-01	63	97	89	94	27	78
GL143-041-01	99	96	99	95	73	100
GL143-042-01	100	98	98	93	96	100
GL143-043-01	97	76	98	100	94	100
GL143-043-02	98	95	98	100	100	100
GL143-043-06	100	91	96	100	100	100
GL143-044-01	100	100	95	100	100	100
GL143-044-05	100	100	98	100	100	100
GL143-044-07	100	100	99	100	100	100
GL143-045-01	96	93	97	100	89	87
GL143-046-03	100	100	100	100	100	100
GL143-046-04	99	100	100	100	100	100
GL143-046-06	100	100	100	100	100	100
GL143-047-01	100	90	95	99	98	100
GL143-048-01	100	87	97	97		
GL143-048-02	98	81	96	99		
GL143-049-01	0	0	0	1	34	0
GL143-049-02	1	0	3	12	33	0
GL143-049-03	0	2	0	13	66	0
GL143-051-01	80	69	73	99	75	100
GL143-052-01	100	84	100	94	95	100
GL143-053-04	36	66	79	98	15	92
GL143-054-01	82	94	95	99	51	98
GL143-056-01	100	65	100	100	98	98
GL143-057-01	99	99	95	94	100	100
GL143-057-02	98	100	89	100	100	100
GL143-058-01	1	27	49	50	20	44
GL143-059-01	100	100	100	100	100	100
GL143-059-02	100	100	99	100	100	100
GL143-063-01	100	96	90	90	100	93
GL143-064-03	100	99	100	100	100	100
GL143-064-07	99	98	100	100	100	100
GL143-064-08	100	98	100	96	99	100
GL143-064-09	100	98	100	100	98	100
GL143-064-10	100	98	100	99	100	100
GL143-065-01	100	100	98	100	100	100
GL143-066-01	100	98	100	99	100	99
GL143-066-02	100	93	93	98	100	100
GL143-066-03	100	96	87	99	100	100

GL143-066-04	100	98	97	100	100	100
GL143-067-01	74	98	100	98	100	97
GL143-068-01	100	98	100	100	100	100
GL143-068-02	100	100	100	99	100	100
GL143-071-20	98	63	93	100	60	91
GL143-073-01	100	90	90	88	100	100
GL143-075-01	99	98	98	99	100	100
GL143-076-01	100	90	100	99	100	100
GL143-077-01	100	99	99	98	100	100
GL143-078-02	100	99	100	100	100	100
GL143-079-01	100	87	87	98	99	98
GL143-079-02	100	87	87	98	99	98
GL143-079-03	98	97	100	100	91	100
GL143-079-04	98	98	100	100	92	100
GL143-080-03		55	91	92		
GL143-081-02	83	90	78	63	100	100
GL143-081-03	83	90	78	63	100	100
GL143-081-09	86	90	76	65	100	100
GL143-081-11	83	91	75	63	100	100
GL143-082-01	100	100	100	98	100	100
GL143-084-03	100	99	100	99	100	100
GL143-084-04	100	98	99	100	100	100
GL143-084-05	100	99	99	100	100	100
GL143-087-02	97	96	98	100	81	98
GL143-087-06	98	91	100	96	88	98
GL143-088-01	100	100	100	98	100	100
GL143-089-02	100	100	88	100	30	98
GL143-090-01	86	96	100	98	13	100
GL143-091-12	100	98	100	100	99	100
GL143-091-13	100	96	100	100	100	100
GL143-094-01	96	87	98	98	50	95
GL143-095-03	100	100	99	100	100	100
GL143-096-01	100	98	100	100	95	99
GL143-096-02	98	94	100	100	100	100
GL143-097-01	99	87	100	100	100	100
GL143-099-01	99	90	78	97	100	100
GL143-100-01	100	98	100	98	100	100
GL143-100-03	100	100	99	98	91	100
GL143-101-01	98	68	82	100	68	63
GL143-102-03	98	92	94	92	9	100
GL143-102-05	92	53	93	99	56	98
GL143-102-06	60	50	84	87	0	100
GL143-106-01	100	99	99	100	99	100
GL143-106-02	100	98	100	98	90	100
GL143-107-01	88	66	27	84	97	88
GL143-108-01	96	82	99	100	98	100
GL143-109-01	25	84	64	98	38	100
GL143-110-04	100	100	100	100	100	100
GL143-110-20	100	100	100	100	100	100
GL143-111-04	100	98	99	100	100	100
GL143-111-05	100	78	92	99	100	100