



International Cotton Advisory Committee



CSITC

Global - Round Trial 2016 - 1

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.



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Global - Round Trial 2016 - 1

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

Micronaire							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			3.683	5.453	4.667	5.079	
Reference Values for Evaluation			3.683	5.453	4.667	5.079	
Number Of Instruments			112	112	112	112	112
Inter-Instrument Variation	based on 30 tests	SD	0.064	0.064	0.055	0.045	0.057
		CV %	1.7	1.2	1.2	0.9	1.2
		SD	0.069	0.071	0.062	0.056	0.065
	based on 6 tests	CV %	1.9	1.3	1.3	1.1	1.4
		SD	0.081	0.082	0.071	0.070	0.076
		CV %	2.2	1.5	1.5	1.4	1.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.025	0.026	0.024	0.026	0.025
		CV %	0.7	0.5	0.5	0.5	0.5
	between single tests on one day	SD	0.038	0.038	0.035	0.039	0.038
		CV %	1.0	0.7	0.7	0.8	0.8
	between all tests on different days	SD	0.047	0.050	0.045	0.049	0.048
		CV %	1.3	0.9	1.0	1.0	1.0

Strength							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			22.577	27.957	31.166	28.521	
Reference Values for Evaluation			22.577	27.957	31.166	28.521	
Number Of Instruments			110	110	110	110	110
Inter-Instrument Variation	based on 30 tests	SD	0.669	0.811	0.847	0.788	0.779
		CV %	3.0	2.9	2.7	2.8	2.8
		SD	0.754	0.845	0.950	0.870	0.855
	based on 6 tests	CV %	3.3	3.0	3.0	3.0	3.1
		SD	0.908	0.982	1.067	1.026	0.996
		CV %	4.0	3.5	3.4	3.6	3.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.253	0.295	0.335	0.312	0.299
		CV %	1.1	1.1	1.1	1.1	1.1
	between single tests on one day	SD	0.484	0.488	0.457	0.564	0.498
		CV %	2.1	1.7	1.5	2.0	1.8
	between all tests on different days	SD	0.567	0.570	0.574	0.639	0.588
		CV %	2.5	2.0	1.8	2.2	2.2

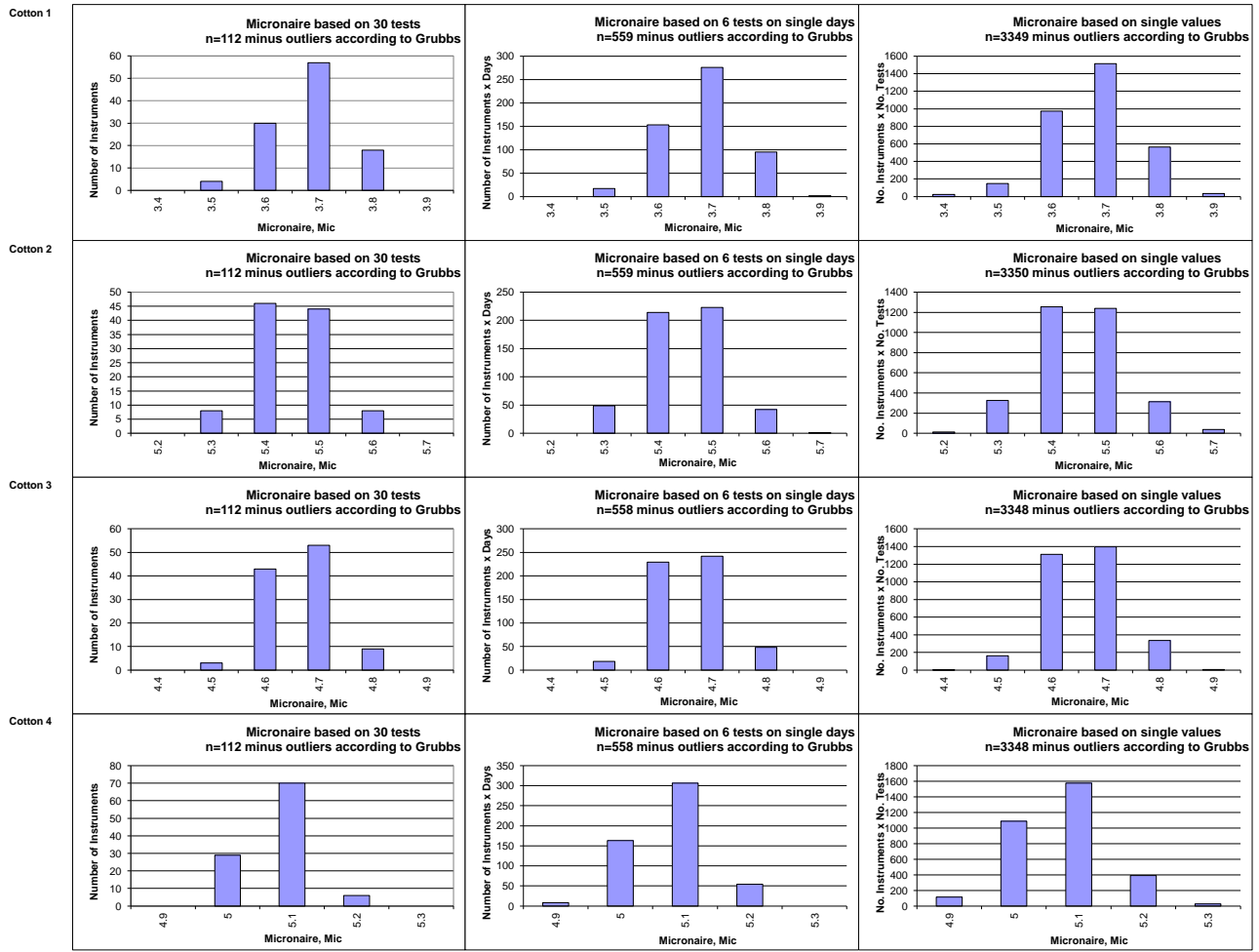
Length							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.9827	1.0339	1.1640	1.0505	
Reference Values for Evaluation			0.9827	1.0339	1.1640	1.0505	
Number Of Instruments			112	112	112	112	112
Inter-Instrument Variation	based on 30 tests	SD	0.0109	0.0081	0.0086	0.0107	0.0096
		CV %	1.1	0.8	0.7	1.0	0.9
		SD	0.0144	0.0095	0.0098	0.0119	0.0114
	based on 6 tests	CV %	1.5	0.9	0.8	1.1	1.1
		SD	0.0179	0.0139	0.0142	0.0160	0.0155
		CV %	1.8	1.3	1.2	1.5	1.5
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0051	0.0049	0.0052	0.0050	0.0050
		CV %	0.5	0.5	0.4	0.5	0.5
	between single tests on one day	SD	0.0106	0.0090	0.0090	0.0111	0.0099
		CV %	1.1	0.9	0.8	1.1	0.9
	between all tests on different days	SD	0.0123	0.0104	0.0105	0.0119	0.0113
		CV %	1.2	1.0	0.9	1.1	1.1

Uniformity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			77.882	80.673	82.931	81.132	
Reference Values for Evaluation			77.882	80.673	82.931	81.132	
Number Of Instruments			111	111	111	111	111
Inter-Instrument Variation	based on 30 tests	SD	0.459	0.494	0.426	0.419	0.449
		CV %	0.6	0.6	0.5	0.5	0.6
	based on 6 tests	SD	0.622	0.535	0.504	0.492	0.538
		CV %	0.8	0.7	0.6	0.6	0.7
	based on single tests	SD	0.859	0.765	0.673	0.713	0.753
		CV %	1.1	0.9	0.8	0.9	0.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.282	0.240	0.280	0.251	0.263
		CV %	0.4	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.531	0.477	0.477	0.489	0.493
		CV %	0.7	0.6	0.6	0.6	0.6
	between all tests on different days	SD	0.606	0.531	0.534	0.559	0.557
		CV %	0.8	0.7	0.6	0.7	0.7

Color Rd							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			76.299	78.253	79.011	78.190	
Reference Values for Evaluation			76.299	78.253	79.011	78.190	
Number Of Instruments			109	109	109	109	109
Inter-Instrument Variation	based on 30 tests	SD	0.753	0.832	0.606	0.609	0.700
		CV %	1.0	1.1	0.8	0.8	0.9
	based on 6 tests	SD	0.790	0.820	0.619	0.616	0.711
		CV %	1.0	1.0	0.8	0.8	0.9
	based on single tests	SD	0.829	0.869	0.653	0.677	0.757
		CV %	1.1	1.1	0.8	0.9	1.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.196	0.162	0.137	0.156	0.163
		CV %	0.3	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.241	0.180	0.196	0.196	0.203
		CV %	0.3	0.2	0.2	0.3	0.3
	between all tests on different days	SD	0.326	0.255	0.259	0.287	0.282
		CV %	0.4	0.3	0.3	0.4	0.4

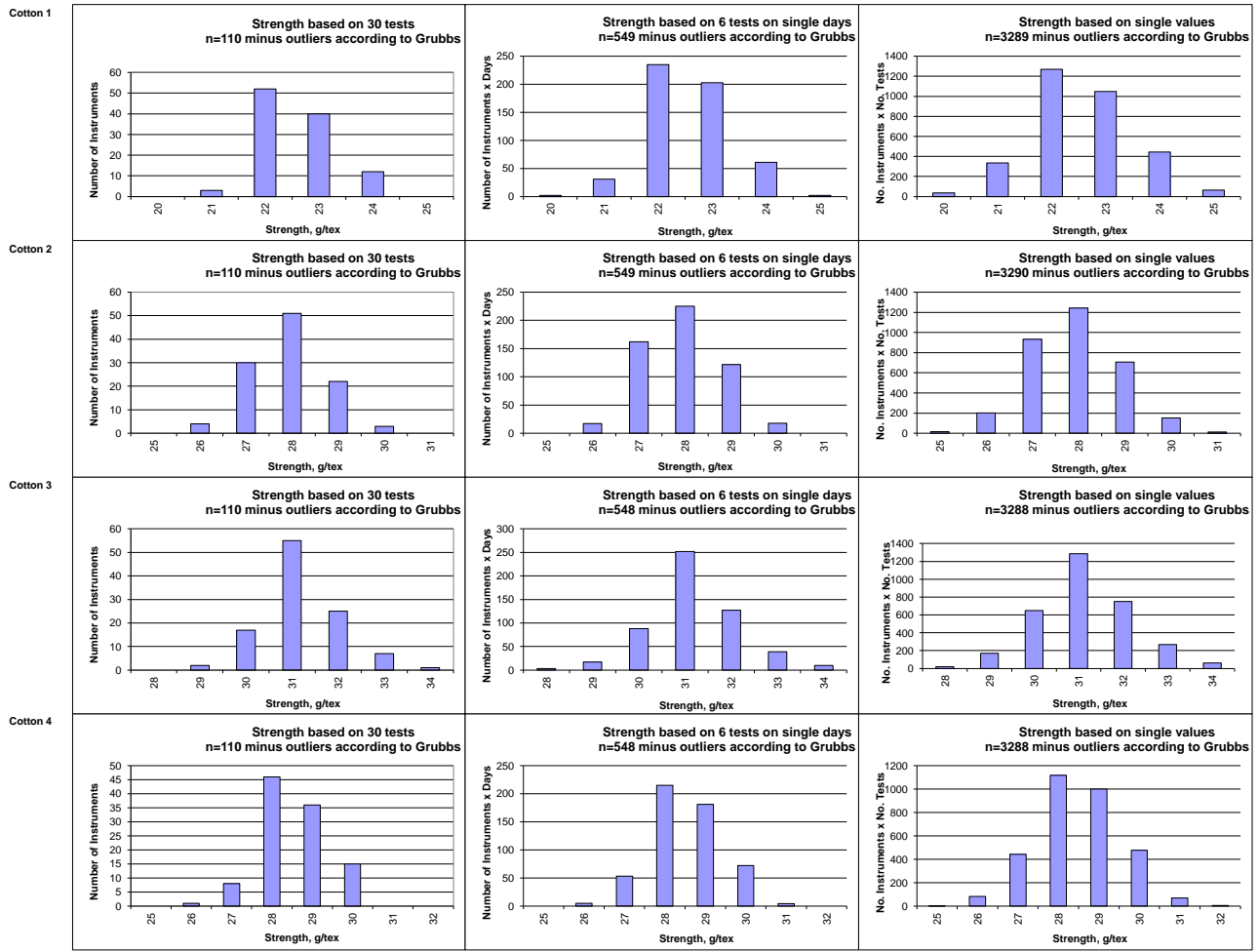
Color +b							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			9.050	9.270	9.619	8.531	
Reference Values for Evaluation			9.050	9.270	9.619	8.531	
Number Of Instruments			109	109	109	109	109
Inter-Instrument Variation	based on 30 tests	SD	0.224	0.214	0.225	0.223	0.221
		CV %	2.5	2.3	2.3	2.6	2.4
	based on 6 tests	SD	0.245	0.230	0.241	0.219	0.234
		CV %	2.7	2.5	2.5	2.6	2.6
	based on single tests	SD	0.285	0.258	0.269	0.251	0.266
		CV %	3.2	2.8	2.8	2.9	2.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.085	0.090	0.084	0.091	0.087
		CV %	0.9	1.0	0.9	1.1	1.0
	between single tests on one day	SD	0.098	0.083	0.082	0.082	0.086
		CV %	1.1	0.9	0.9	1.0	0.9
	between all tests on different days	SD	0.135	0.134	0.117	0.123	0.127
		CV %	1.5	1.4	1.2	1.4	1.4

Test Result Distributions
Micronaire



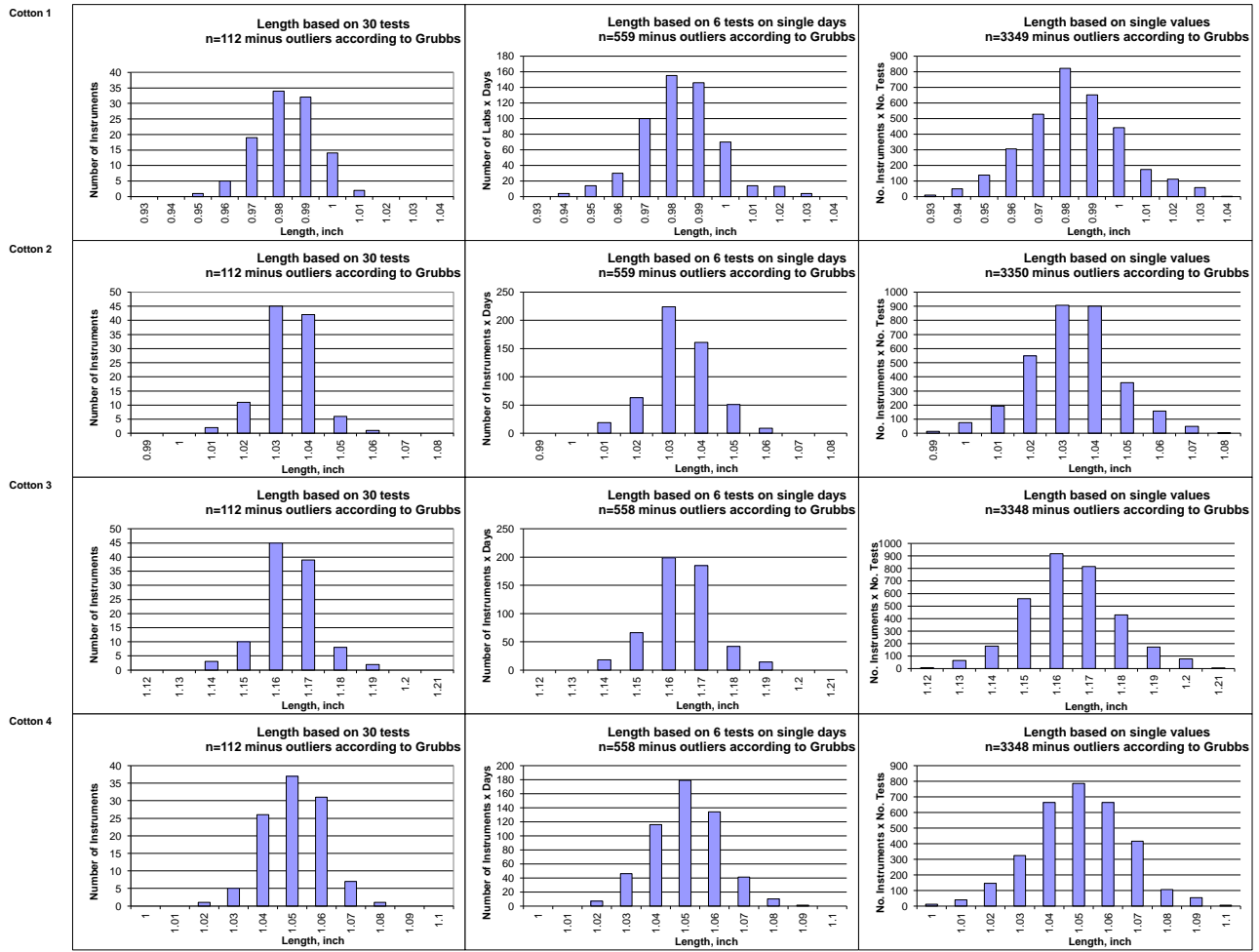
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



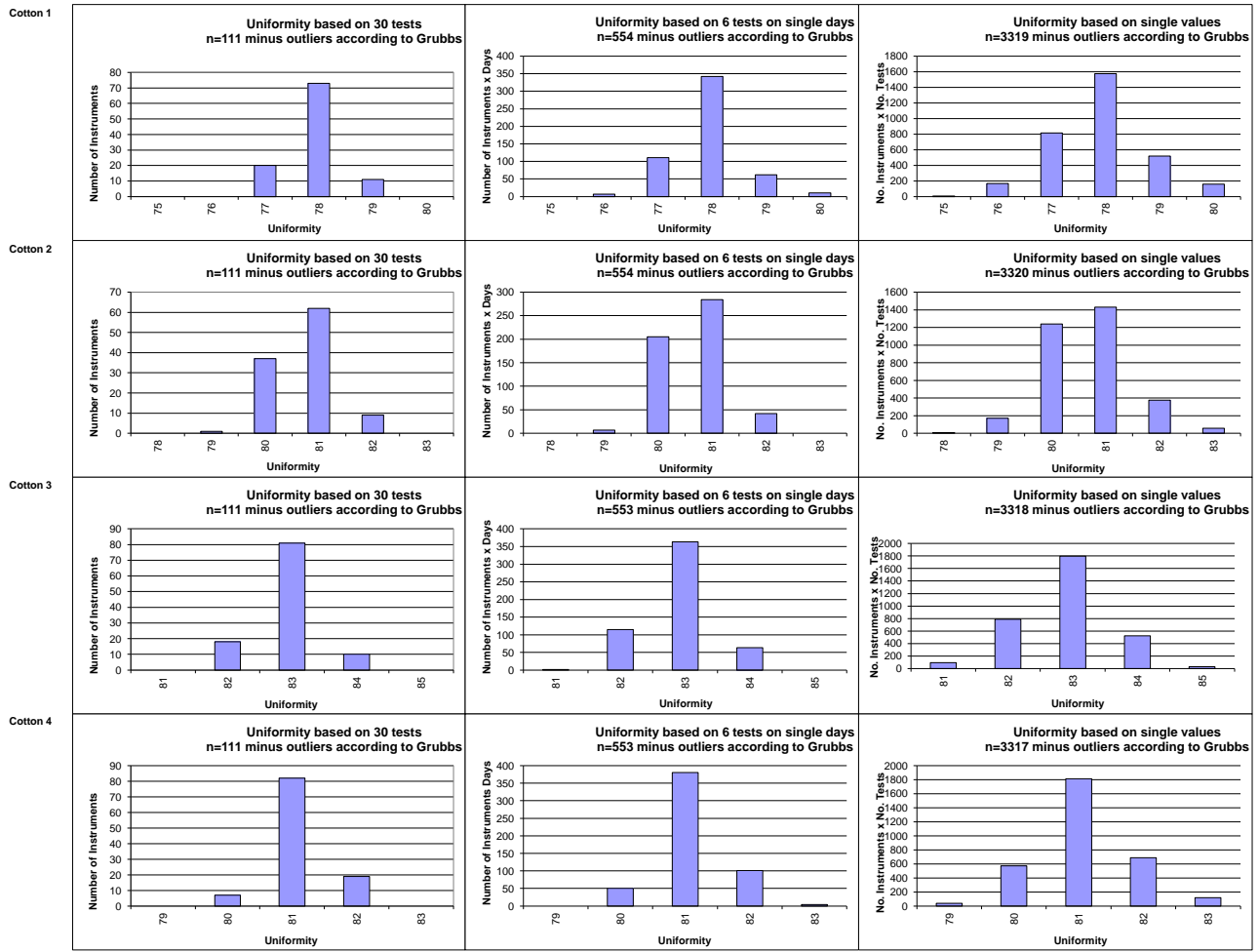
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Test Result Distributions
Length



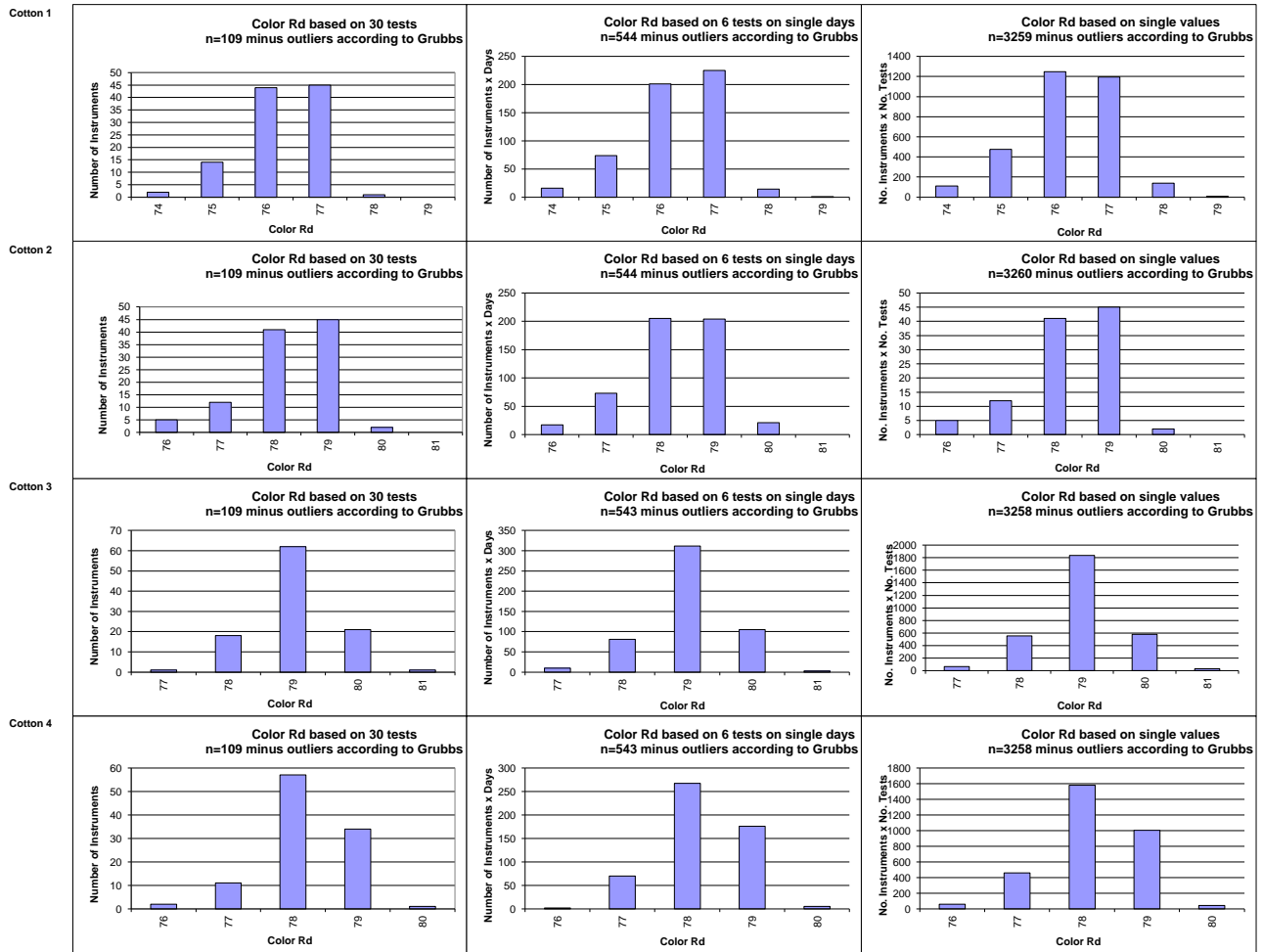
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Test Result Distributions
Uniformity



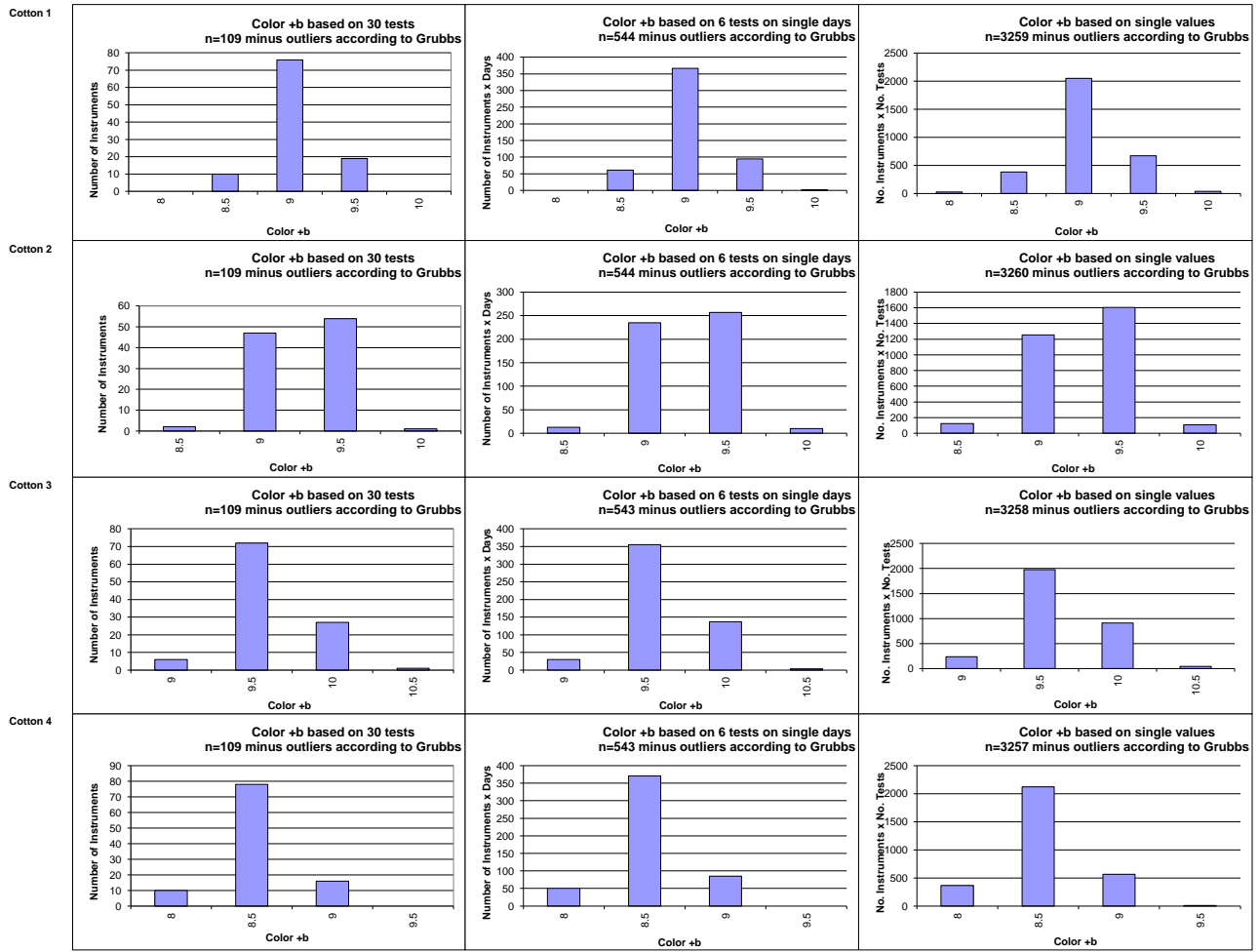
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color Rd



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

Test Result Distributions
Color +b



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

Optional Parameters

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

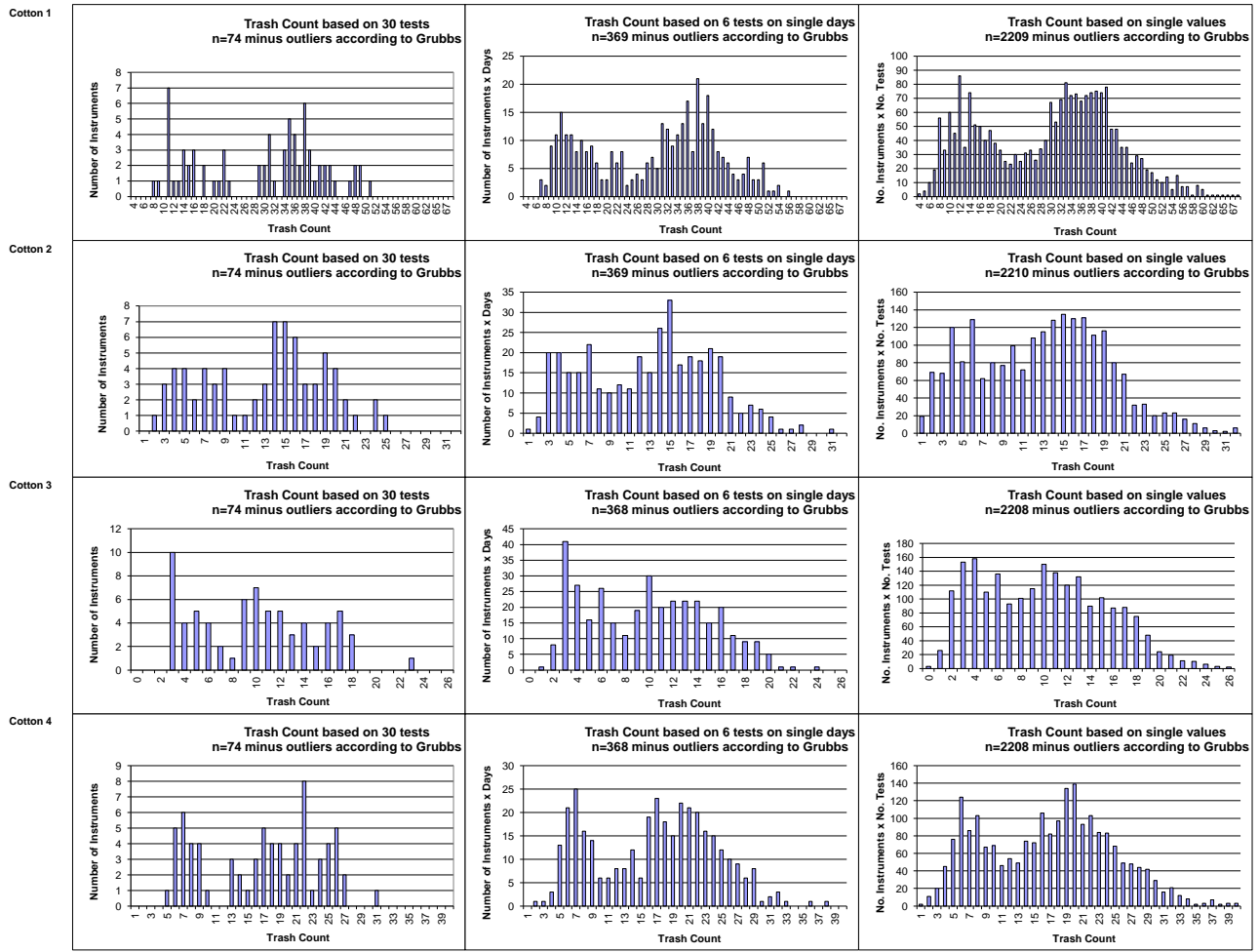
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			29.44	13.02	10.00	16.83	
Reference Values for Evaluation			29.44	13.02	10.00	16.83	
Number Of Instruments			74	74	74	74	74
Inter-Instrument Variation	based on 30 tests	SD	12.26	6.01	4.97	7.09	7.58
		CV %	41.6	46.2	49.7	42.1	44.9
		SD	12.54	6.23	5.10	7.46	7.83
	based on 6 tests	CV %	42.6	47.9	51.0	44.3	46.4
		SD	13.08	6.48	5.39	7.85	8.20
		CV %	44.4	49.8	53.9	46.6	48.7
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	2.66	1.49	1.25	1.79	1.80
		CV %	9.0	11.5	12.5	10.7	10.9
	between single tests on one day	SD	3.00	1.66	1.54	2.02	2.05
		CV %	10.2	12.8	15.4	12.0	12.6
	between all tests on different days	SD	4.47	2.35	2.15	3.18	3.04
		CV %	15.2	18.0	21.5	18.9	18.4

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.263	0.123	0.115	0.164	
Reference Values for Evaluation			0.263	0.123	0.115	0.164	
Number Of Instruments			74	74	74	74	74
Inter-Instrument Variation	based on 30 tests	SD	0.082	0.037	0.039	0.051	0.052
		CV %	31.1	30.1	33.8	31.2	31.6
		SD	0.092	0.038	0.040	0.055	0.056
	based on 6 tests	CV %	35.0	31.1	35.1	33.6	33.7
		SD	0.102	0.042	0.046	0.061	0.063
		CV %	38.8	34.3	40.4	37.5	37.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.033	0.013	0.016	0.023	0.021
		CV %	12.6	10.4	13.7	13.8	12.6
	between single tests on one day	SD	0.041	0.016	0.016	0.022	0.024
		CV %	15.7	13.4	13.7	13.8	14.1
	between all tests on different days	SD	0.054	0.024	0.026	0.037	0.035
		CV %	20.6	19.3	22.2	22.7	21.2

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			83.31	88.13	86.90	87.61	
Reference Values for Evaluation			83.31	88.13	86.90	87.61	
Number Of Instruments			76	76	76	76	76
Inter-Instrument Variation	based on 30 tests	SD	3.24	2.32	1.93	1.82	2.32
		CV %	3.9	2.6	2.2	2.1	2.7
		SD	3.24	2.13	1.86	1.75	2.25
	based on 6 tests	CV %	3.9	2.4	2.1	2.0	2.6
		SD	3.26	2.18	1.88	1.78	2.28
		CV %	3.9	2.5	2.2	2.0	2.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.20	0.23	0.15	0.18	0.19
		CV %	0.2	0.3	0.2	0.2	0.2
	between single tests on one day	SD	0.35	0.30	0.24	0.42	0.33
		CV %	0.4	0.3	0.3	0.5	0.4
	between all tests on different days	SD	0.45	0.44	0.36	0.47	0.43
		CV %	0.5	0.5	0.4	0.5	0.5

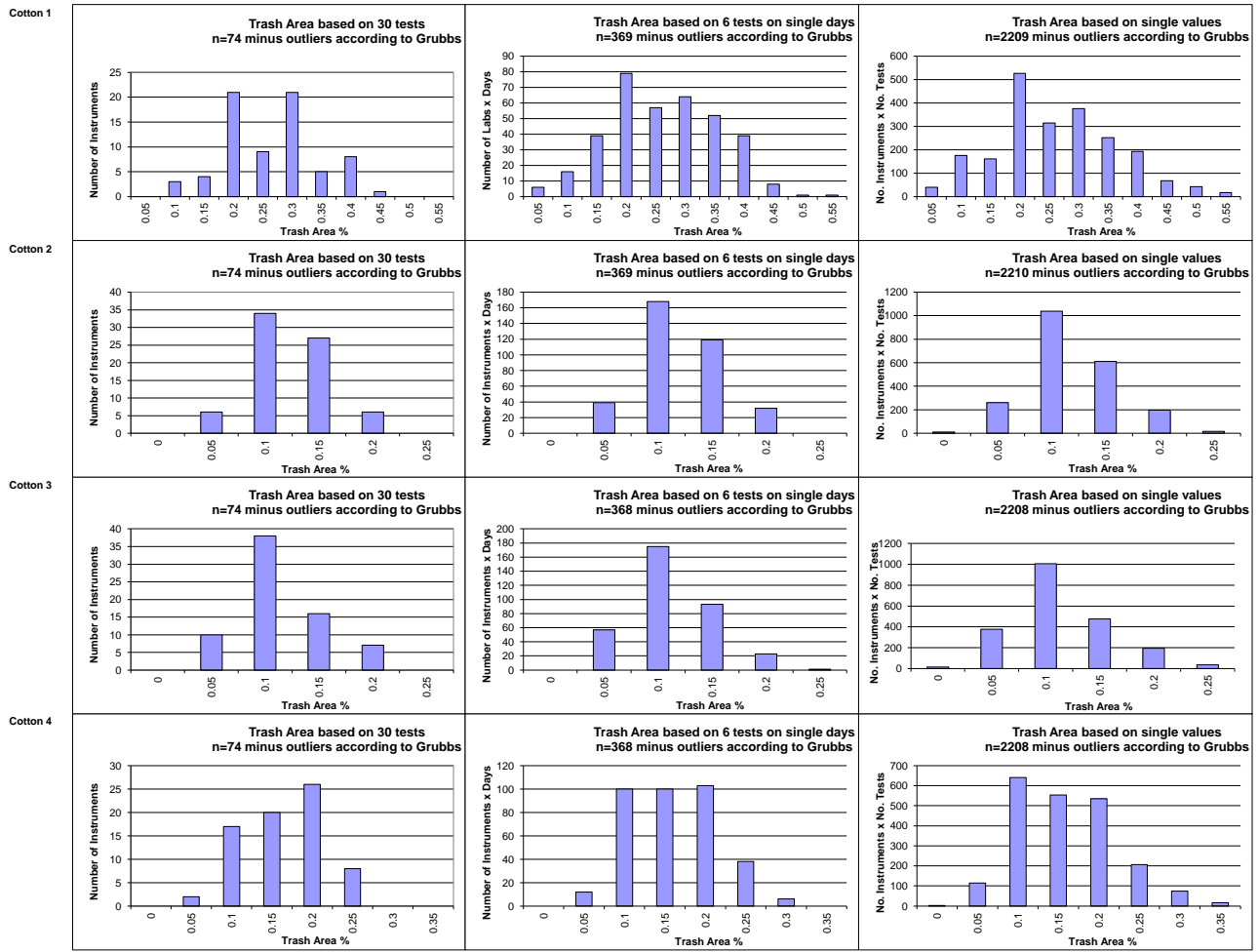
		SFI					
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			15.33	10.85	8.36	10.24	
Reference Values for Evaluation			15.33	10.85	8.36	10.24	
Number Of Instruments			84	84	84	84	84
Inter-Instrument Variation	based on 30 tests	SD	2.09	1.02	0.71	0.93	1.19
		CV %	13.6	9.4	8.4	9.0	10.1
	based on 6 tests	SD	2.09	1.07	0.62	0.96	1.19
		CV %	13.7	9.9	7.5	9.4	10.1
	based on single tests	SD	2.24	1.11	0.74	1.21	1.32
		CV %	14.6	10.2	8.8	11.8	11.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.37	0.24	0.19	0.29	0.27
		CV %	2.4	2.2	2.2	2.8	2.4
	between single tests on one day	SD	0.71	0.45	0.32	0.50	0.50
		CV %	4.6	4.2	3.8	4.9	4.4
	between all tests on different days	SD	0.84	0.54	0.38	0.55	0.58
		CV %	5.5	5.0	4.5	5.4	5.1

Test Result Distributions
Trash Count



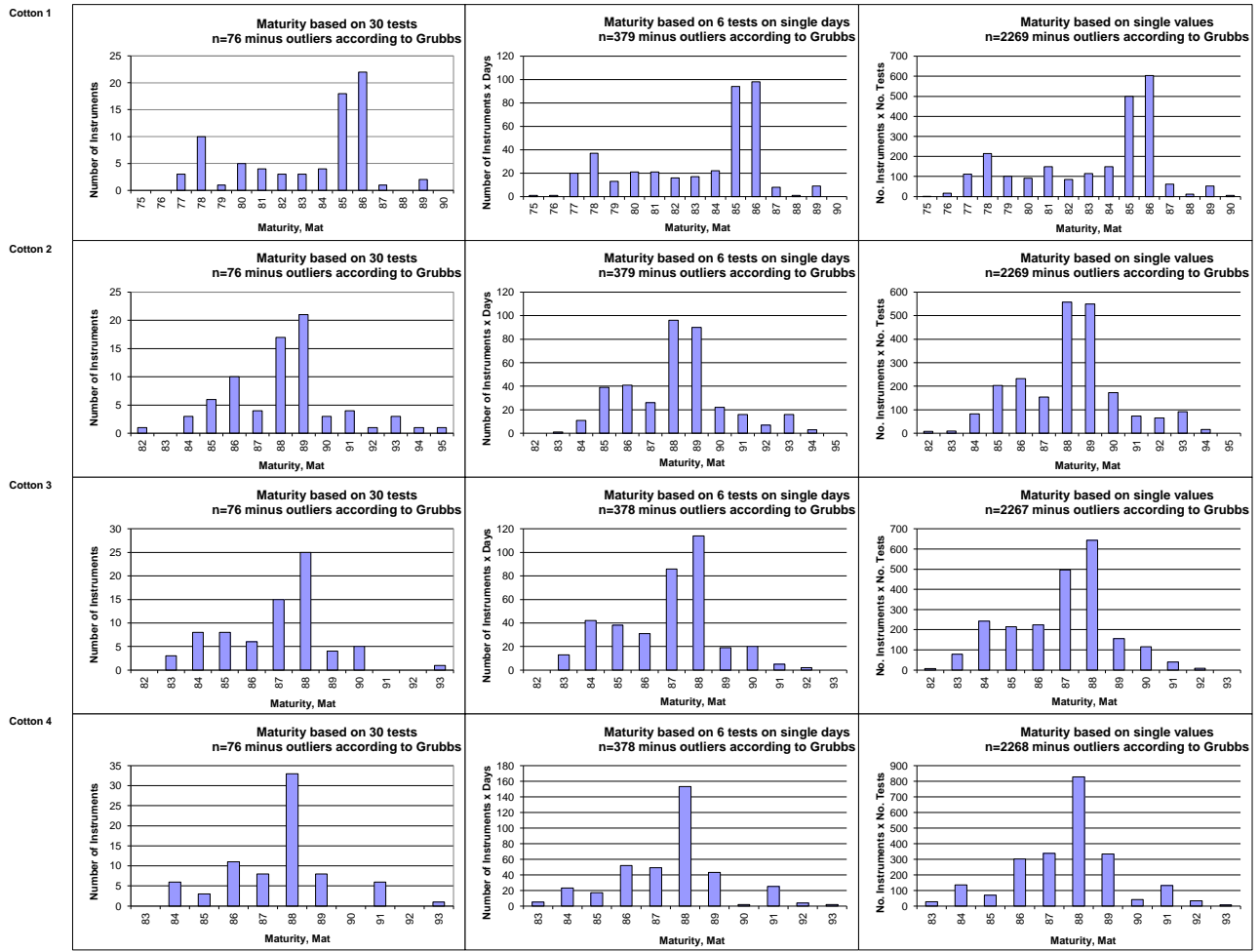
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



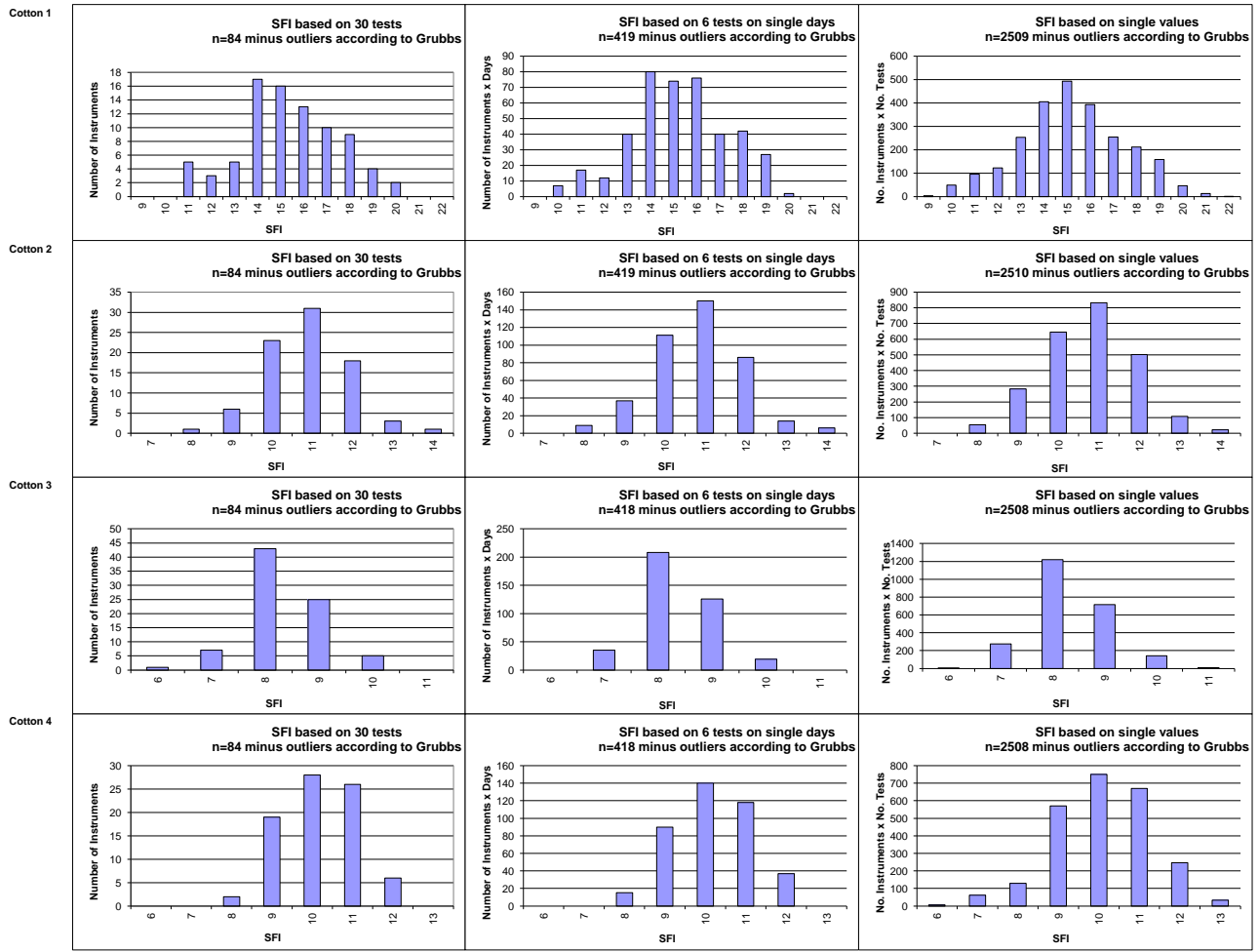
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

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 2016 - 1 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section Two: Instrument Evaluation

Content:

- Evaluation of Combined Parameters
- Evaluation of Single Parameters

Executed By:

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

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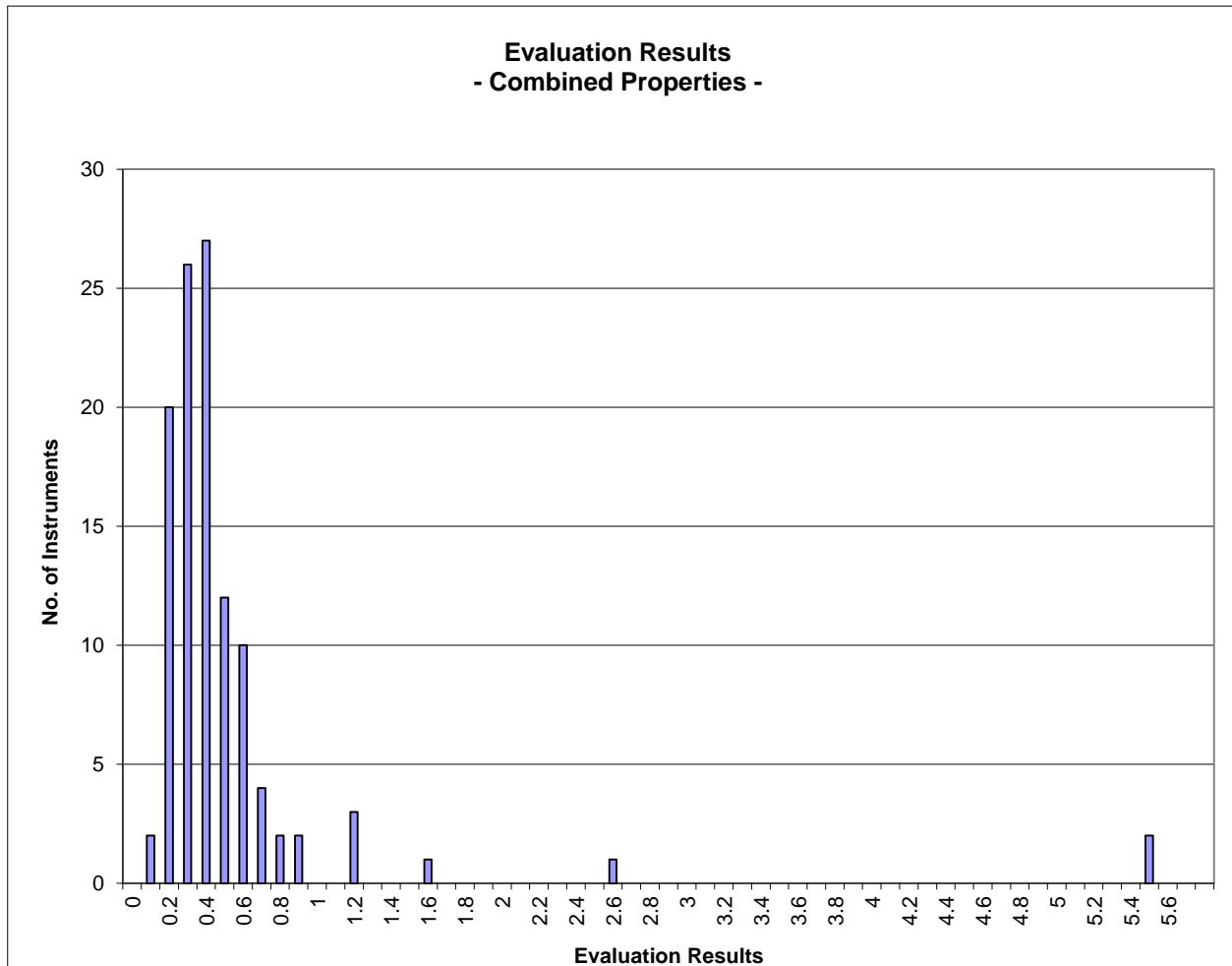
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2016 - 1

		Evaluation Combined Prop.
Statistics	Average	0.53
	Median	0.37
	Best Instrument	0.12
	Worst Instrument	5.52

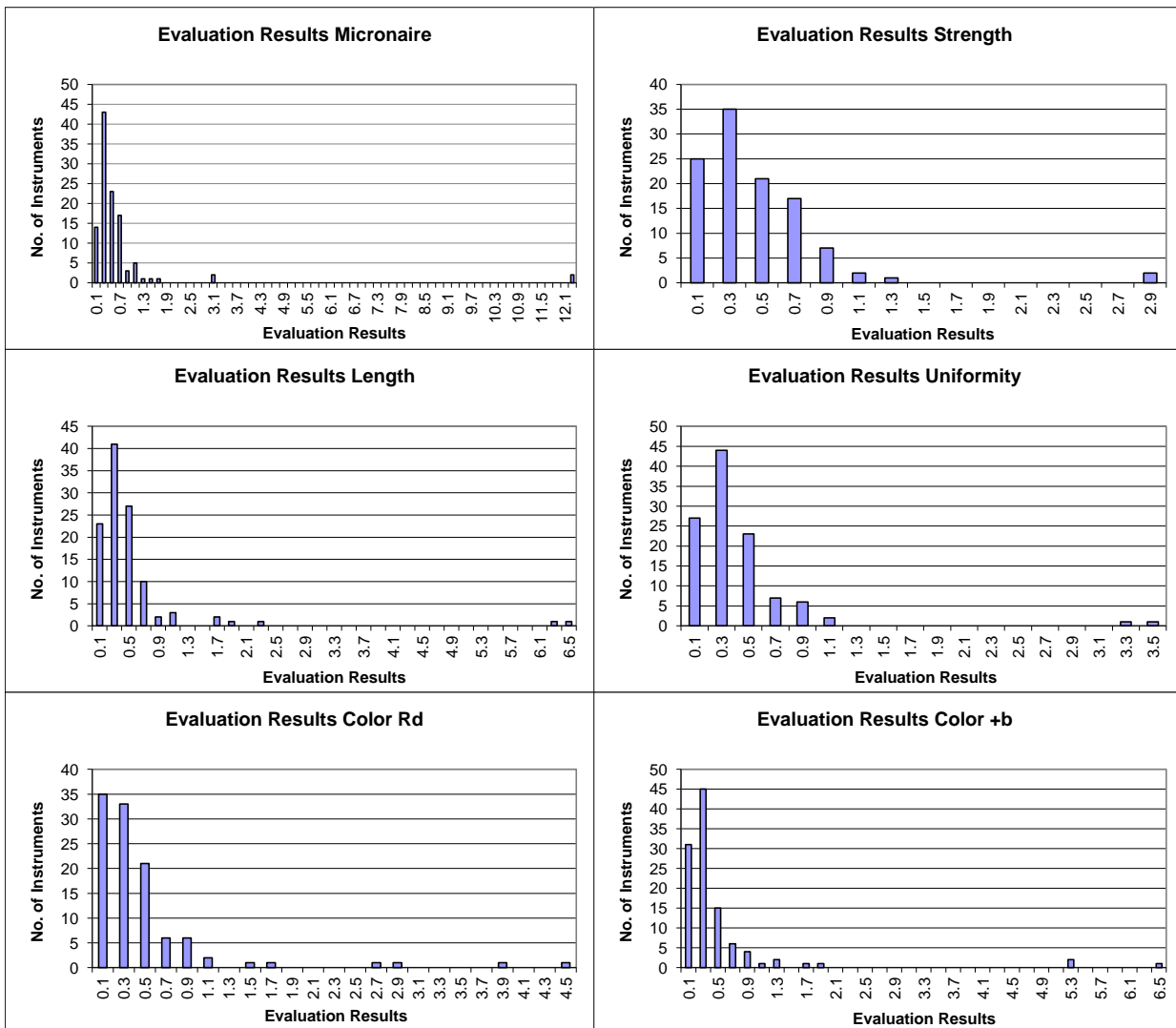


x-Axis shows midpoints of classes

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 2016 - 1

	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.72	0.46	0.54	0.42	0.48
	Median	0.39	0.35	0.33	0.31	0.25
	Best Instr.	0.06	0.04	0.09	0.05	0.03
	Worst Instr.	12.32	2.92	6.46	3.47	4.51



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



International Cotton Advisory Committee



CSITC
Global - Round Trial 2016 - 1
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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USDA-AMS, Memphis, TN, USA

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Within Limits Evaluation

Based on average of 30 test results for each sample

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	96.4	96.6	95.5	98.0	91.5	92.7
Completely within limits	93.8	90.9	93.8	97.3	84.4	89.0
% of Instruments $\geq 75\%$ within limits	96.4	97.3	94.6	98.2	90.8	91.7
% of Instruments $\geq 50\%$ within limits	97.3	98.2	95.5	98.2	95.4	93.6

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL161-001-01	100	100	100	100	100	100
GL161-002-01	100	100	100	100	100	100
GL161-003-03	100	100	100	100	100	100
GL161-004-01	25	75	25	100		
GL161-005-01	100	100	100	100	100	100
GL161-006-13	100	100	100	100	100	100
GL161-007-02	100	100	100	100	100	100
GL161-008-01	100	100	75	100	100	0
GL161-009-01	100	100	100	100	100	100
GL161-010-03	100	100	100	100	100	100
GL161-011-01	0	25	0	0	50	50
GL161-011-02	0	25	0	0	50	50
GL161-013-02	100	100	100	100	100	100
GL161-013-29	100	100	100	100	100	100
GL161-014-01	100	100	100	100	100	100
GL161-015-01	100	100	100	100	100	100
GL161-015-04	100	100	100	100	100	100
GL161-015-05	100	100	100	100	100	100
GL161-018-01	75	100	100	100	75	100
GL161-020-01	100	100	100	100	100	100
GL161-022-01	100	100	100	100	100	100
GL161-023-31	100	100	100	100	100	100
GL161-023-32	100	100	100	100	100	100
GL161-024-01	100	100	100	100	100	100
GL161-025-01	100	75	25	100	100	100
GL161-026-01	100	100	100	100	100	100
GL161-027-01	100	100	100	100	100	100
GL161-027-02	100	100	100	100	100	100
GL161-029-02	100	100	100	100	0	0
GL161-029-03	100	100	100	100	100	100
GL161-031-01	100	100	100	100	100	100
GL161-031-02	100	100	100	100	100	100
GL161-031-04	100	100	100	100	100	100
GL161-032-01	100	100	100	100	100	100

GL161-033-01	100	100	100	100	100	100
GL161-034-04	100	100	100	100	100	100
GL161-035-01	100	100	100	100	50	100
GL161-036-01	100	100	100	100	100	100
GL161-036-02	100	100	100	100	100	100
GL161-037-01	50	100	100	100	0	0
GL161-038-01	100	100	100	100	100	100
GL161-038-02	100	100	100	100	100	100
GL161-039-04	100	100	100	100	100	100
GL161-039-30	100	100	100	100	100	100
GL161-040-01	100	100	100	100	100	100
GL161-041-01	100	75	100	75	0	100
GL161-042-01	100	100	100	100	100	100
GL161-043-02	100	100	100	100	100	100
GL161-043-03	100		50	100	100	0
GL161-043-04	100	100	100	100	75	25
GL161-043-06	100	100	100	100	100	100
GL161-043-07	100	75	100	100	100	100
GL161-043-08	100	100	100	100	100	100
GL161-044-01	100	100	100	100	100	100
GL161-044-02	100	100	100	100	100	100
GL161-045-04	100	100	100	100	100	100
GL161-045-05	100	100	100	100	100	100
GL161-046-01	100	100	100	100	100	100
GL161-047-01	100	75	100	100	75	100
GL161-048-01	100	75	100	100	100	100
GL161-049-01	100	100	100	100	0	100
GL161-050-13	75	75	100	100		
GL161-052-01	100	100	100	100	100	100
GL161-052-02	100	100	100	100	100	100
GL161-053-01	100	100	100	100	100	25
GL161-054-01	100	100	100	100	100	100
GL161-055-01	100	100	100	100	100	100
GL161-056-05	100		25			
GL161-057-01	100	100	100	100	100	100
GL161-058-01	100	100	100	100	100	100
GL161-058-02	100	100	100	100	100	100
GL161-060-04	100	100	100	100	100	100
GL161-060-05	100	100	100	100	100	100
GL161-061-01	100	100	100	100	100	100
GL161-062-01	100	100	100	100	100	100
GL161-062-02	100	100	100	100	100	100
GL161-062-03	100	100	100	100	100	100
GL161-062-06	100	100	100	100	100	100
GL161-063-02	100	100	100	100	100	100
GL161-065-01	100	100	100	100	75	100
GL161-065-03	100	100	100	100	75	100
GL161-067-21	100	100	100	100	100	100
GL161-067-30	100	100	100	100	100	100
GL161-068-01	100	100	100	100	50	100
GL161-069-03	100	100	100	100	75	100
GL161-070-01	75	100	100	100	100	100
GL161-071-01	100	100	100	100	100	100
GL161-071-02	100	100	100	100	100	100
GL161-071-03	100	100	100	100	100	100

GL161-071-04	100	100	100	100	100	100
GL161-073-26	100	100	100	100	50	100
GL161-074-01	100	100	100	100	100	100
GL161-074-02	100	100	100	100	100	100
GL161-075-06	100	100	100	100	100	100
GL161-076-01	100	100	100	100	100	100
GL161-077-01	100	50	100	100	100	25
GL161-079-01	100	100	100	100	100	75
GL161-081-01	100	100	100	100	100	100
GL161-082-53	100	100	100	100	100	100
GL161-082-60	100	100	100	100	100	100
GL161-084-01	100	100	100	100	0	100
GL161-086-02	100	100	100	100	100	100
GL161-086-03	100	100	100	100	100	100
GL161-086-04	100	100	100	100	100	100
GL161-088-01	100	100	100	100	100	100
GL161-088-02	100	100	100	100	100	100
GL161-089-03	100	100	100	100	100	100
GL161-089-04	100	100	100	100	100	100
GL161-089-06	100	100	100	100	100	100
GL161-090-01	100	100	100	100	75	100
GL161-091-01	100	100	100	100	100	75
GL161-091-02	100	100	100	100	100	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	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	95.3	93.0	92.9	96.4	90.1	89.2
% of Instruments 100% within limits	58.0	32.7	33.0	52.3	51.4	44.0
% of Instruments ≥95% within limits	88.4	68.2	76.8	86.5	68.8	67.0
% of Instruments ≥75% within limits	95.5	92.7	92.9	98.2	86.2	85.3
% of Instruments ≥65% within limits	96.4	95.5	94.6	98.2	90.8	89.9
% of Instruments ≥50% within limits	96.4	98.2	95.5	98.2	95.4	94.5

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL161-001-01	78	99	96	98	100	96
GL161-002-01	100	98	100	100	99	100
GL161-003-03	100	99	100	99	100	99
GL161-004-01	25	75	34	100		
GL161-005-01	100	100	97	98	85	97
GL161-006-13	100	99	100	100	100	99
GL161-007-02	99	100	99	100	91	85
GL161-008-01	98	98	88	94	78	5
GL161-009-01	94	99	98	94	84	85
GL161-010-03	100	99	98	100	100	99
GL161-011-01	0	25	0	10	50	50
GL161-011-02	0	25	0	8	50	50
GL161-013-02	98	99	100	100	98	96
GL161-013-29	98	96	97	100	100	100
GL161-014-01	100	99	100	100	100	99
GL161-015-01	100	100	100	100	100	100
GL161-015-04	100	100	100	100	100	100
GL161-015-05	100	100	100	100	100	100
GL161-018-01	79	93	74	93	71	98
GL161-020-01	100	99	99	100	100	98
GL161-022-01	88	71	99	95	99	79
GL161-023-31	100	100	99	100	100	100
GL161-023-32	100	98	99	100	100	100
GL161-024-01	100	100	100	100	100	100
GL161-025-01	99	83	43	95	97	91
GL161-026-01	100	88	98	100	99	100
GL161-027-01	98	95	93	100	91	92
GL161-027-02	98	95	93	100	91	93
GL161-029-02	100	86	98	100	40	43
GL161-029-03	100	100	100	100	100	100

GL161-031-01	100	92	98	99	98	96
GL161-031-02	99	95	98	100	86	98
GL161-031-04	98	96	97	99	100	100
GL161-032-01	100	100	100	100	100	98
GL161-033-01	99	100	95	100	99	98
GL161-034-04	100	100	97	100	98	100
GL161-035-01	98	88	97	98	63	100
GL161-036-01	98	96	97	100	100	100
GL161-036-02	100	99	96	100	100	98
GL161-037-01	43	83	100	80	0	2
GL161-038-01	100	97	100	100	99	96
GL161-038-02	100	85	100	97	100	94
GL161-039-04	100	93	100	100	100	88
GL161-039-30	100	100	99	100	100	98
GL161-040-01	100	99	96	100	94	88
GL161-041-01	100	68	99	85	9	91
GL161-042-01	99	99	98	100	100	100
GL161-043-02	98	97	98	98	92	100
GL161-043-03	100		31	76	84	2
GL161-043-04	99	83	90	99	76	63
GL161-043-06	96	80	89	98	83	95
GL161-043-07	100	76	98	100	99	99
GL161-043-08	94	90	84	93	98	100
GL161-044-01	100	100	100	100	100	100
GL161-044-02	98	100	99	100	100	100
GL161-045-04	100	99	99	98	100	100
GL161-045-05	100	100	95	97	96	99
GL161-046-01	100	100	99	100	100	100
GL161-047-01	98	63	99	98	69	98
GL161-048-01	99	71	98	100	100	100
GL161-049-01	88	93	80	92	9	72
GL161-050-13	66	63	76	96		
GL161-052-01	99	100	100	98	85	77
GL161-052-02	98	100	100	98	86	68
GL161-053-01	94	87	100	99	100	43
GL161-054-01	100	100	99	97	100	99
GL161-055-01	100	100	94	100	96	91
GL161-056-05	98		63			
GL161-057-01	100	89	99	100	98	94
GL161-058-01	100	99	100	100	100	100
GL161-058-02	100	96	99	97	100	100
GL161-060-04	99	100	98	98	100	86
GL161-060-05	100	94	88	98	100	93
GL161-061-01	99	100	100	97	100	100
GL161-062-01	100	100	100	100	100	100
GL161-062-02	98	100	98	100	100	100
GL161-062-03	100	100	100	100	100	100
GL161-062-06	100	100	100	100	100	100
GL161-063-02	100	100	100	100	100	100
GL161-065-01	100	100	98	99	83	100
GL161-065-03	100	96	90	93	72	87
GL161-067-21	100	100	99	100	100	100
GL161-067-30	100	100	100	98	100	100
GL161-068-01	100	95	100	98	53	89
GL161-069-03	98	96	100	96	88	100

GL161-070-01	80	96	90	100	99	80
GL161-071-01	100	93	100	100	100	100
GL161-071-02	100	93	100	100	100	100
GL161-071-03	98	94	100	99	100	99
GL161-071-04	100	85	100	100	100	100
GL161-073-26	100	93	93	99	63	50
GL161-074-01	100	98	99	99	100	74
GL161-074-02	100	100	99	100	97	98
GL161-075-06	98	99	98	93	82	85
GL161-076-01	98	96	71	93	87	66
GL161-077-01	97	54	94	83	97	25
GL161-079-01	100	91	81	99	98	59
GL161-081-01	98	97	78	97	100	100
GL161-082-53	100	100	98	99	100	100
GL161-082-60	100	98	98	93	99	100
GL161-084-01	100	93	98	100	34	97
GL161-086-02	100	99	99	99	100	100
GL161-086-03	95	100	97	100	100	97
GL161-086-04	100	93	98	99	100	100
GL161-088-01	100	93	100	100	100	100
GL161-088-02	100	95	100	100	100	100
GL161-089-03	100	100	100	100	100	100
GL161-089-04	100	100	100	100	100	100
GL161-089-06	100	100	100	100	100	100
GL161-090-01	100	99	93	100	73	100
GL161-091-01	98	99	88	97	83	67
GL161-091-02	99	96	99	99	72	77