



International Cotton Advisory Committee



CSITC

Global - Round Trial 2015 - 4

General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section One: Result Distribution

Content:

Mandatory Parameters

- Summary Table
- Distribution Graphs

Optional Parameters

- Summary Table
- Distribution Graphs

Executed By:

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

System Provided by:

Generation 10 Limited



This report is an outcome of the Project CFC/ICAC/33 – CSITC, which benefitted from support from the Common Fund for Commodities and the European Union, partners in Commodity Development.



* Faserinstitut Bremen are a Cooperation Partner with ICA Bremen

Global - Round Trial 2015 - 4

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

Micronaire							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			4.395	3.703	3.254	4.250	
Reference Values for Evaluation			4.395	3.703	3.254	4.250	
Number Of Instruments			150	150	150	150	150
Inter-Instrument Variation	based on 30 tests	SD	0.063	0.061	0.056	0.056	0.059
		CV %	1.4	1.7	1.7	1.3	1.5
	based on 6 tests	SD	0.067	0.066	0.059	0.065	0.064
		CV %	1.5	1.8	1.8	1.5	1.7
	based on single tests	SD	0.078	0.078	0.068	0.080	0.076
		CV %	1.8	2.1	2.1	1.9	2.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.025	0.022	0.019	0.023	0.022
		CV %	0.6	0.6	0.6	0.5	0.6
	between single tests on one day	SD	0.038	0.032	0.032	0.035	0.035
		CV %	0.9	0.9	1.0	0.8	0.9
	between all tests on different days	SD	0.045	0.040	0.039	0.043	0.042
		CV %	1.0	1.1	1.2	1.0	1.1

Strength							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			25.018	33.909	30.854	27.630	
Reference Values for Evaluation			25.018	33.909	30.854	27.630	
Number Of Instruments			149	149	149	149	149
Inter-Instrument Variation	based on 30 tests	SD	0.637	0.877	0.992	0.845	0.838
		CV %	2.5	2.6	3.2	3.1	2.9
	based on 6 tests	SD	0.706	0.951	1.007	0.840	0.876
		CV %	2.8	2.8	3.3	3.0	3.0
	based on single tests	SD	0.821	1.106	1.147	0.978	1.013
		CV %	3.3	3.3	3.7	3.5	3.4
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.287	0.351	0.338	0.280	0.314
		CV %	1.1	1.0	1.1	1.0	1.1
	between single tests on one day	SD	0.425	0.512	0.518	0.472	0.482
		CV %	1.7	1.5	1.7	1.7	1.6
	between all tests on different days	SD	0.503	0.618	0.641	0.561	0.581
		CV %	2.0	1.8	2.1	2.0	2.0

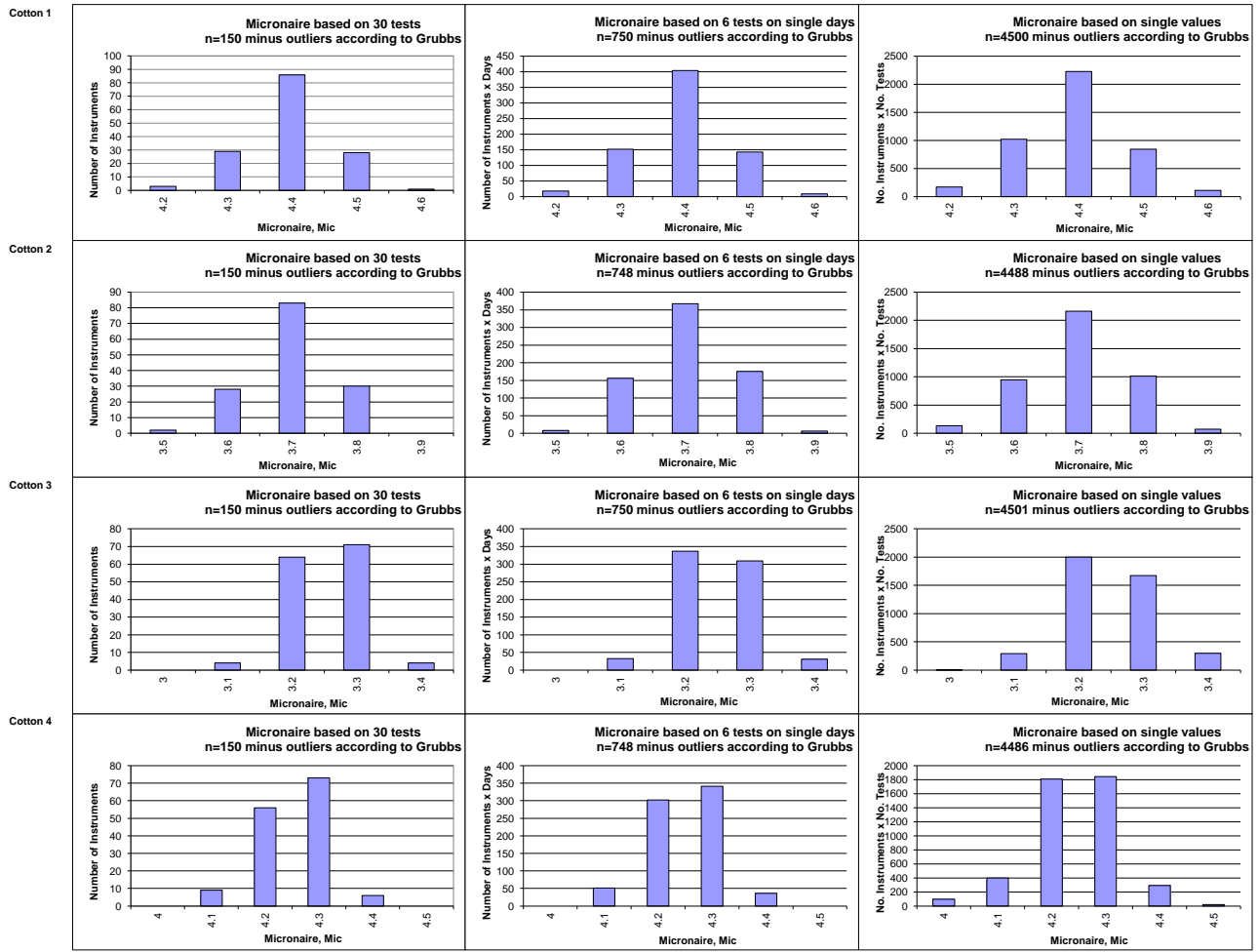
Length							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			1.0037	1.1863	1.0585	1.0239	
Reference Values for Evaluation			1.0037	1.1863	1.0585	1.0239	
Number Of Instruments			150	150	150	150	150
Inter-Instrument Variation	based on 30 tests	SD	0.0102	0.0091	0.0121	0.0106	0.0105
		CV %	1.0	0.8	1.1	1.0	1.0
	based on 6 tests	SD	0.0127	0.0113	0.0132	0.0141	0.0128
		CV %	1.3	1.0	1.3	1.4	1.2
	based on single tests	SD	0.0156	0.0153	0.0161	0.0176	0.0161
		CV %	1.6	1.3	1.5	1.7	1.5
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0056	0.0051	0.0053	0.0058	0.0054
		CV %	0.6	0.4	0.5	0.6	0.5
	between single tests on one day	SD	0.0092	0.0095	0.0100	0.0099	0.0096
		CV %	0.9	0.8	0.9	1.0	0.9
	between all tests on different days	SD	0.0107	0.0110	0.0115	0.0114	0.0112
		CV %	1.1	0.9	1.1	1.1	1.1

Uniformity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			79.517	83.698	79.950	79.026	
Reference Values for Evaluation			79.517	83.698	79.950	79.026	
Number Of Instruments			149	149	149	149	149
Inter-Instrument Variation	based on 30 tests	SD	0.455	0.522	0.517	0.511	0.501
		CV %	0.6	0.6	0.6	0.6	0.6
		SD	0.565	0.576	0.587	0.586	0.579
	based on 6 tests	CV %	0.7	0.7	0.7	0.7	0.7
		SD	0.746	0.711	0.762	0.773	0.748
		CV %	0.9	0.8	1.0	1.0	0.9
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.257	0.238	0.261	0.269	0.256
		CV %	0.3	0.3	0.3	0.3	0.3
	between single tests on one day	SD	0.522	0.446	0.489	0.508	0.491
		CV %	0.7	0.5	0.6	0.6	0.6
	between all tests on different days	SD	0.583	0.493	0.552	0.589	0.554
		CV %	0.7	0.6	0.7	0.7	0.7

Color Rd							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			78.017	75.915	77.362	80.022	
Reference Values for Evaluation			78.017	75.915	77.362	80.022	
Number Of Instruments			148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.606	0.665	0.618	0.540	0.607
		CV %	0.8	0.9	0.8	0.7	0.8
		SD	0.654	0.673	0.611	0.558	0.624
	based on 6 tests	CV %	0.8	0.9	0.8	0.7	0.8
		SD	0.690	0.706	0.657	0.584	0.659
		CV %	0.9	0.9	0.8	0.7	0.8
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.149	0.159	0.175	0.144	0.157
		CV %	0.2	0.2	0.2	0.2	0.2
	between single tests on one day	SD	0.149	0.153	0.176	0.130	0.152
		CV %	0.2	0.2	0.2	0.2	0.2
	between all tests on different days	SD	0.233	0.239	0.291	0.220	0.246
		CV %	0.3	0.3	0.4	0.3	0.3

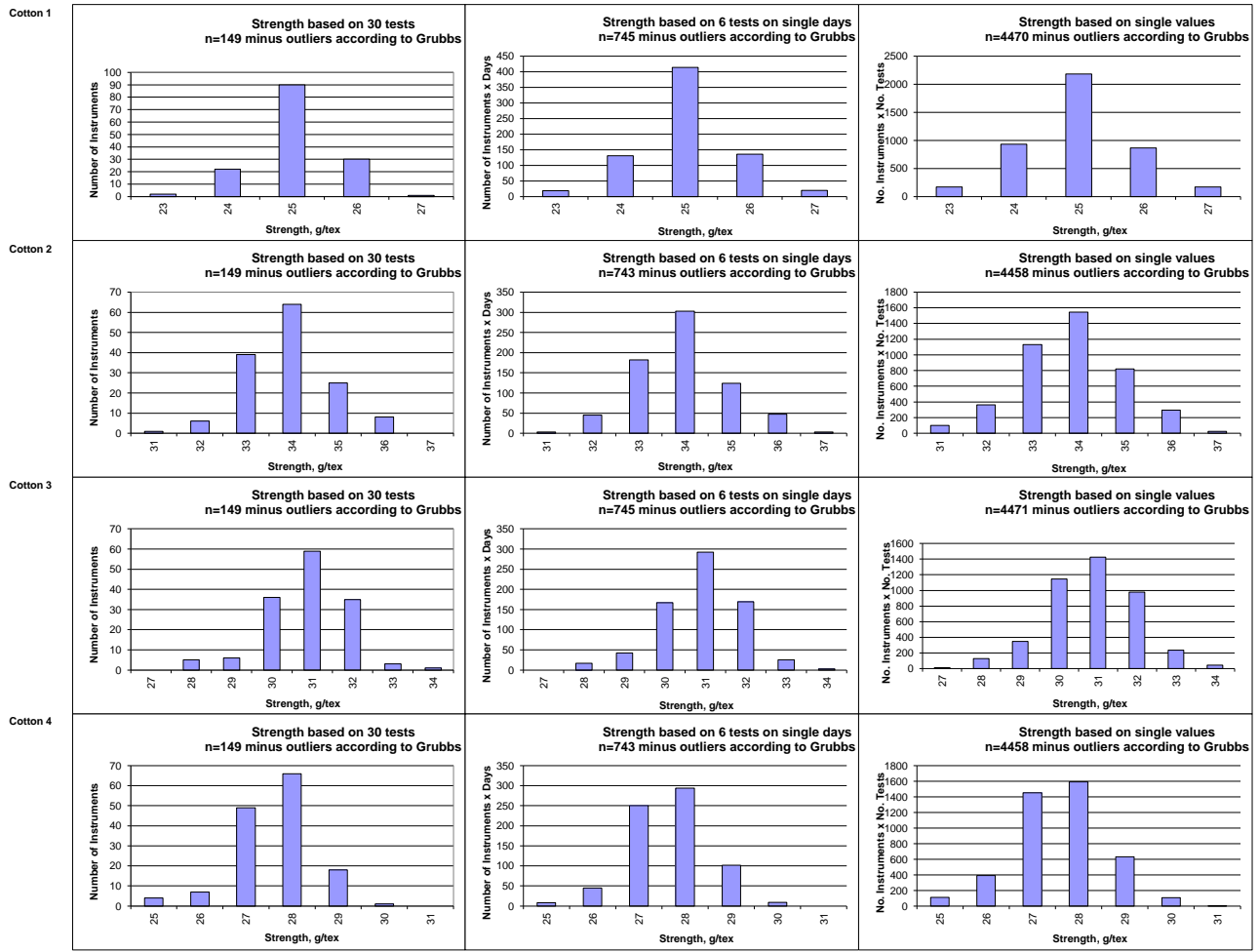
Color +b							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			12.198	12.776	12.232	10.011	
Reference Values for Evaluation			12.198	12.776	12.232	10.011	
Number Of Instruments			148	148	148	148	148
Inter-Instrument Variation	based on 30 tests	SD	0.315	0.324	0.289	0.266	0.298
		CV %	2.6	2.5	2.4	2.7	2.5
		SD	0.352	0.364	0.304	0.289	0.327
	based on 6 tests	CV %	2.9	2.9	2.5	2.9	2.8
		SD	0.375	0.386	0.329	0.308	0.350
		CV %	3.1	3.0	2.7	3.1	3.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.104	0.112	0.102	0.078	0.099
		CV %	0.9	0.9	0.8	0.8	0.8
	between single tests on one day	SD	0.104	0.102	0.094	0.087	0.097
		CV %	0.9	0.8	0.8	0.9	0.8
	between all tests on different days	SD	0.172	0.164	0.148	0.125	0.153
		CV %	1.4	1.3	1.2	1.3	1.3

Test Result Distributions
Micronaire



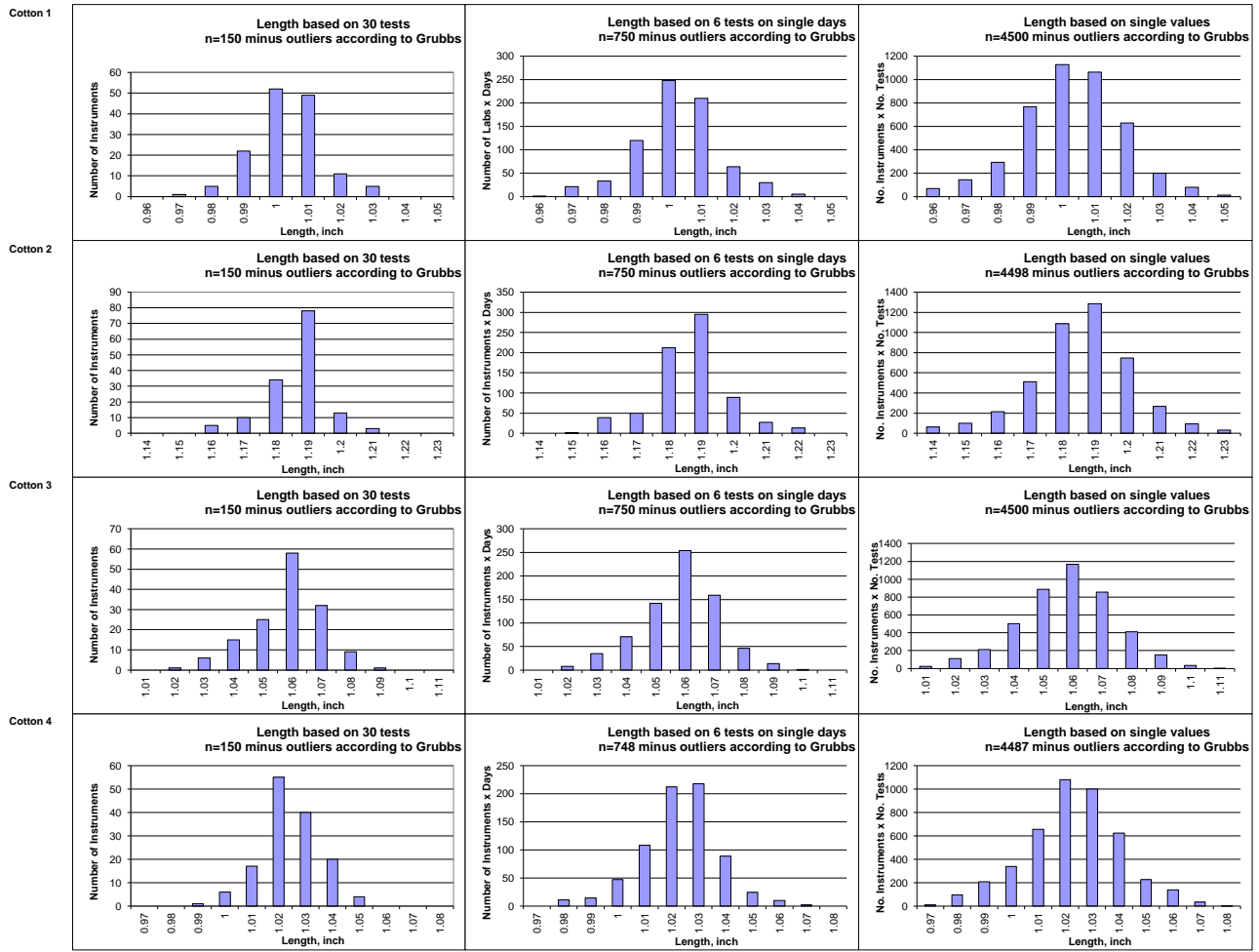
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



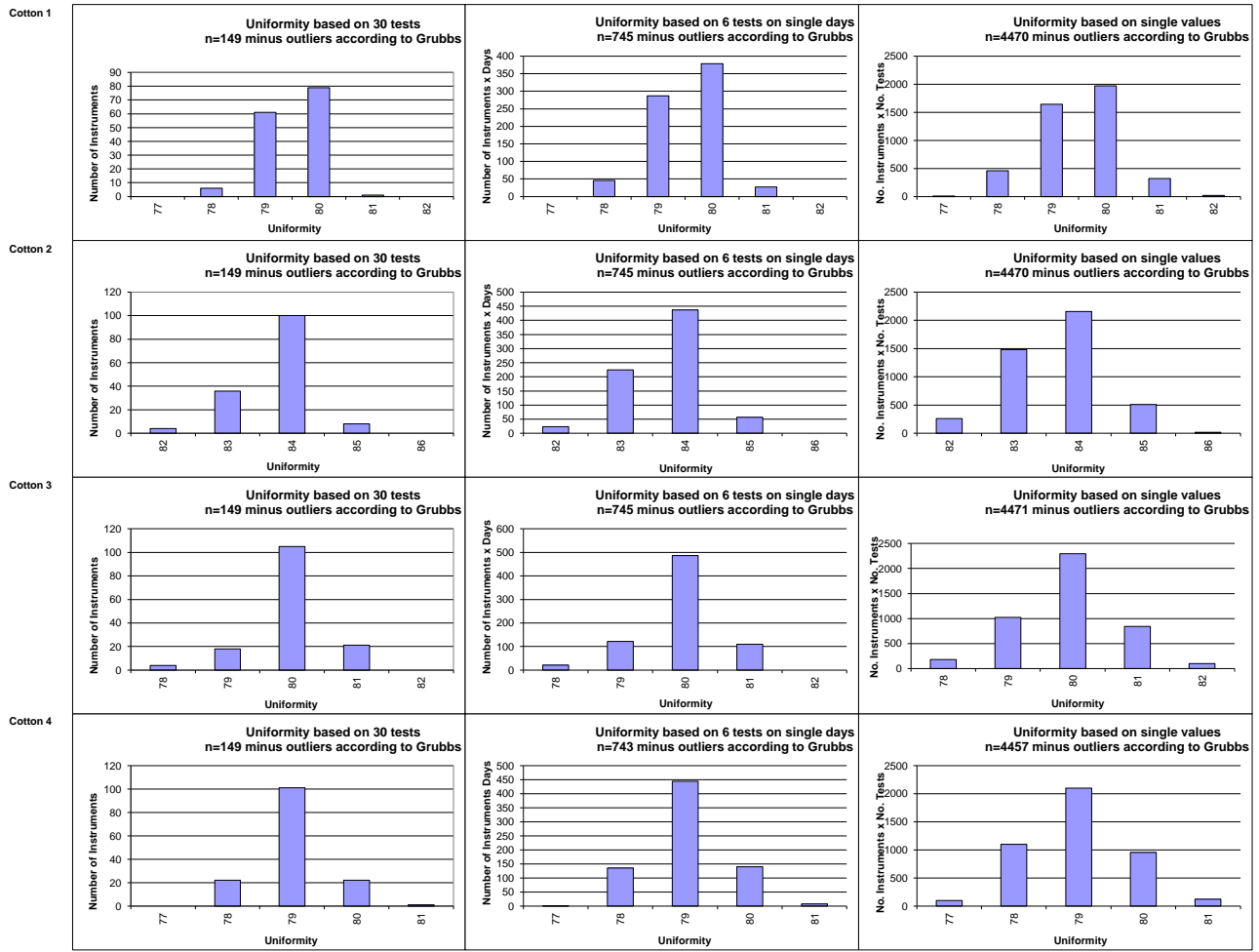
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Length



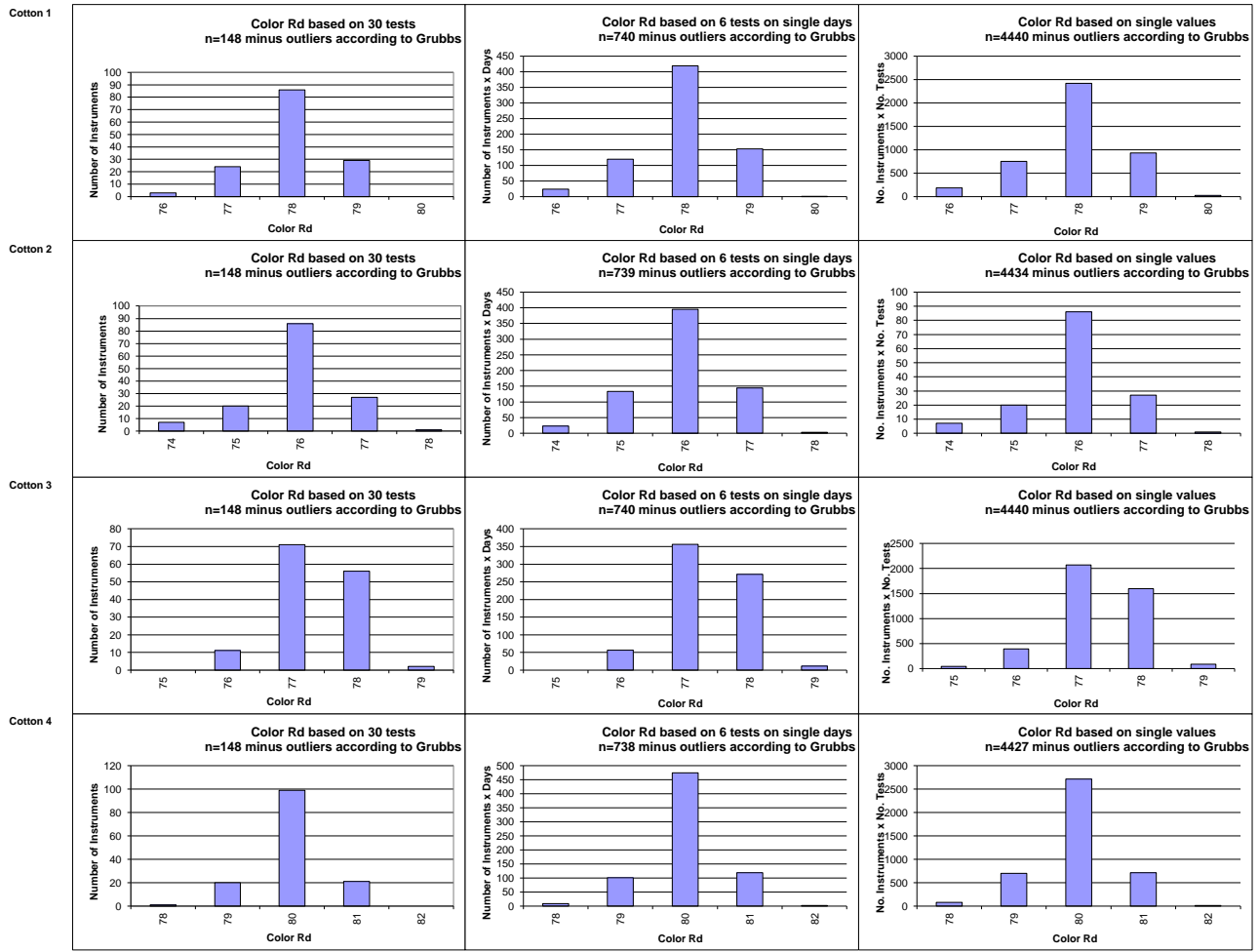
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Uniformity



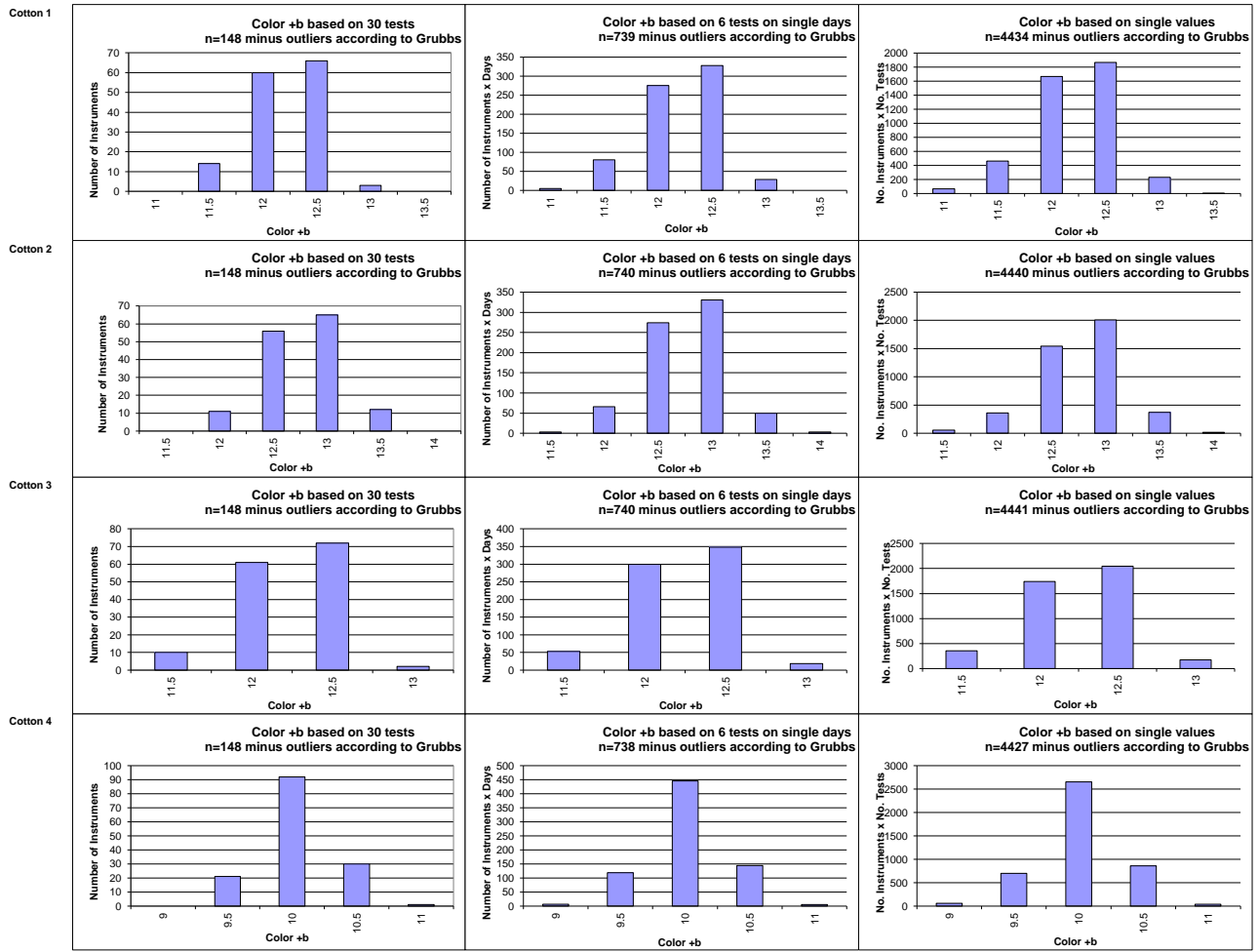
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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

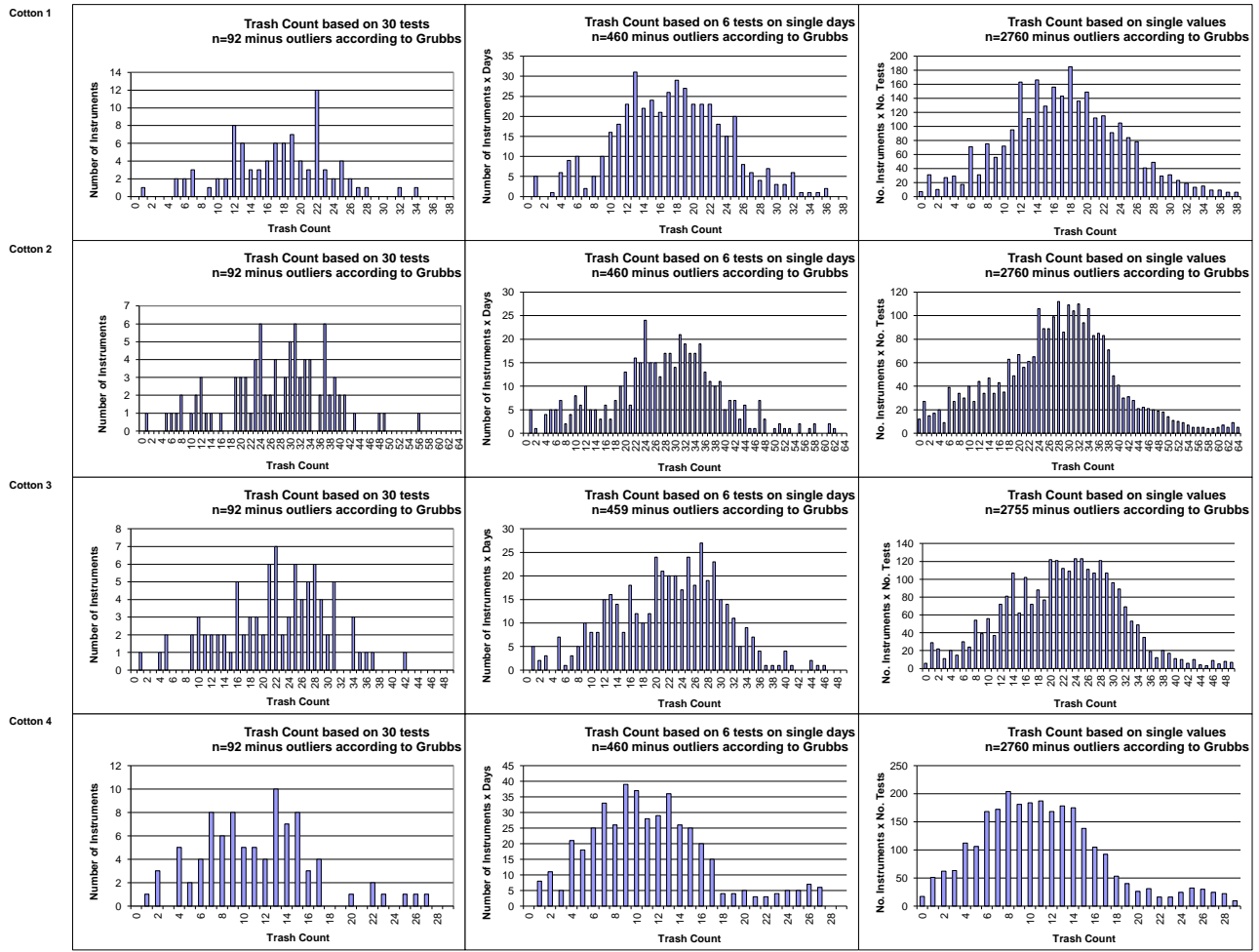
Trash Count							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			17.33	27.31	22.02	11.32	
Reference Values for Evaluation			17.33	27.31	22.02	11.32	
Number Of Instruments			92	92	92	92	92
Inter-Instrument Variation	based on 30 tests	SD	6.19	10.62	8.08	5.28	7.54
		CV %	35.7	38.9	36.7	46.6	39.5
		SD	6.69	11.50	8.51	5.64	8.09
	based on 6 tests	CV %	38.6	42.1	38.6	49.8	42.3
		SD	7.08	12.07	9.08	5.88	8.53
		CV %	40.8	44.2	41.3	51.9	44.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	1.81	2.27	2.15	1.45	1.92
		CV %	10.4	8.3	9.8	12.8	10.3
	between single tests on one day	SD	2.22	2.65	2.39	1.59	2.21
		CV %	12.8	9.7	10.9	14.1	11.9
	between all tests on different days	SD	2.80	3.75	3.42	2.38	3.09
		CV %	16.2	13.7	15.5	21.0	16.6

Trash Area							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			0.158	0.214	0.188	0.106	
Reference Values for Evaluation			0.158	0.214	0.188	0.106	
Number Of Instruments			92	92	92	92	92
Inter-Instrument Variation	based on 30 tests	SD	0.045	0.071	0.063	0.029	0.052
		CV %	28.7	33.3	33.3	27.2	30.6
		SD	0.049	0.071	0.066	0.033	0.055
	based on 6 tests	CV %	31.2	33.1	35.0	30.6	32.5
		SD	0.055	0.075	0.070	0.041	0.060
		CV %	35.0	35.1	37.5	38.7	36.6
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.020	0.026	0.023	0.015	0.021
		CV %	12.5	12.4	12.5	14.0	12.8
	between single tests on one day	SD	0.027	0.027	0.032	0.018	0.026
		CV %	17.2	12.4	17.2	16.5	15.8
	between all tests on different days	SD	0.034	0.039	0.042	0.027	0.036
		CV %	21.4	18.4	22.6	25.4	22.0

Maturity							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			85.27	84.32	81.98	83.91	
Reference Values for Evaluation			85.27	84.32	81.98	83.91	
Number Of Instruments			92	92	92	92	92
Inter-Instrument Variation	based on 30 tests	SD	1.66	1.14	2.46	1.58	1.71
		CV %	2.0	1.4	3.0	1.9	2.0
		SD	1.69	1.16	2.45	1.50	1.70
	based on 6 tests	CV %	2.0	1.4	3.0	1.8	2.0
		SD	1.72	1.18	2.38	1.54	1.71
		CV %	2.0	1.4	2.9	1.8	2.0
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.20	0.18	0.17	0.22	0.19
		CV %	0.2	0.2	0.2	0.3	0.2
	between single tests on one day	SD	0.27	0.28	0.27	0.33	0.29
		CV %	0.3	0.3	0.3	0.4	0.3
	between all tests on different days	SD	0.45	0.43	0.41	0.45	0.44
		CV %	0.5	0.5	0.5	0.5	0.5

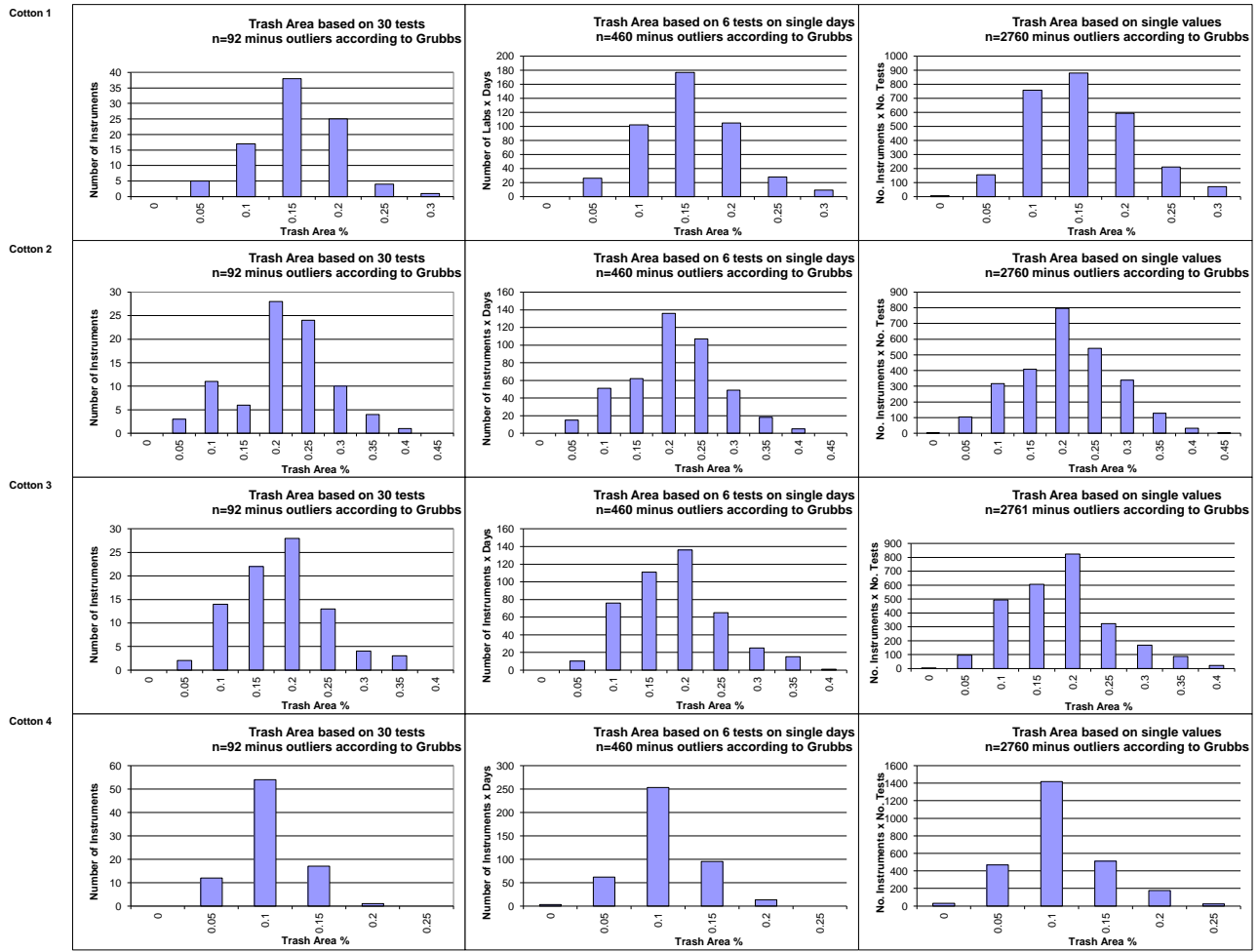
SFI							
			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average
Average of Instruments (Grubbs)			12.65	7.54	11.48	12.71	
Reference Values for Evaluation			12.65	7.54	11.48	12.71	
Number Of Instruments			103	103	103	103	103
Inter-Instrument Variation	based on 30 tests	SD	1.17	0.69	1.22	1.29	1.09
		CV %	9.2	9.1	10.6	10.1	9.8
	based on 6 tests	SD	1.25	0.70	1.27	1.33	1.14
		CV %	9.9	9.3	11.0	10.5	10.2
	based on single tests	SD	1.38	0.78	1.36	1.46	1.25
		CV %	10.9	10.4	11.9	11.5	11.2
Typical within-instrument Variation (Median)	between different days	SD	0.30	0.14	0.30	0.34	0.27
		CV %	2.4	1.9	2.6	2.7	2.4
	between single tests	SD	0.57	0.30	0.53	0.59	0.50
		CV %	4.5	3.9	4.6	4.7	4.4
	on one day	SD	0.62	0.33	0.62	0.68	0.56
		CV %	4.9	4.4	5.4	5.3	5.0

Test Result Distributions
Trash Count



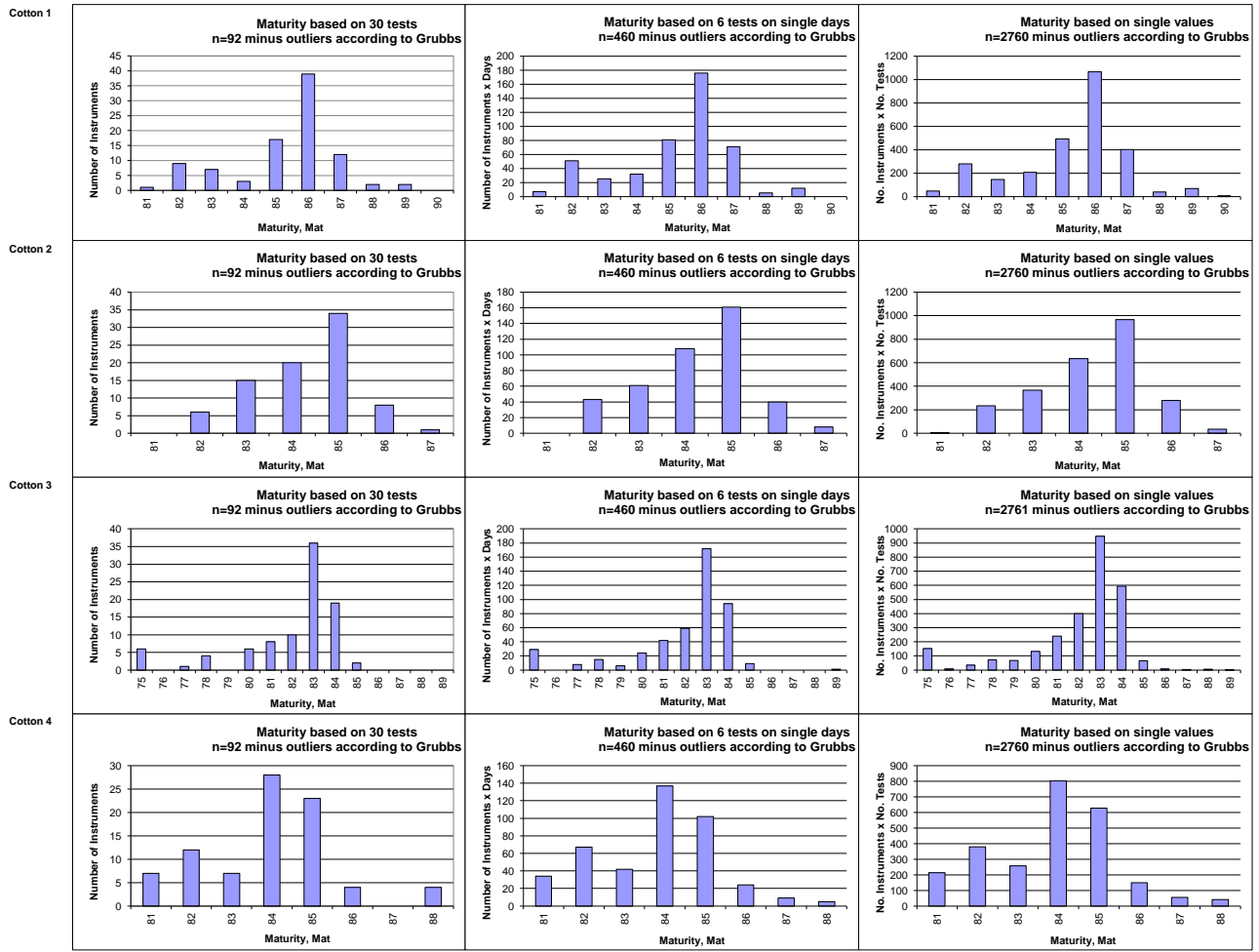
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



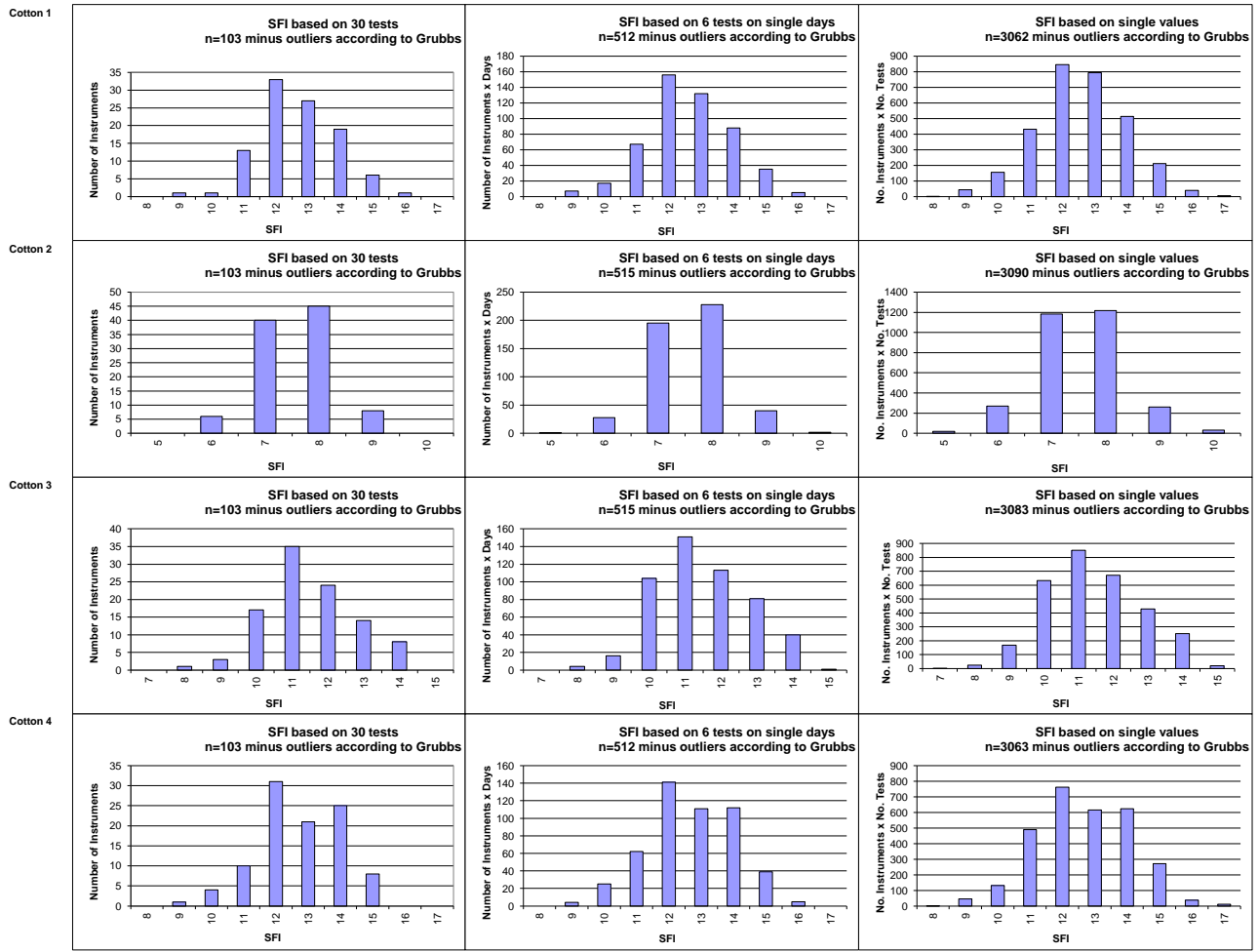
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method) (classes are defined as > lower limit and <= upper limit)

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 2015 - 4 General Evaluation

Section One: Result Distribution

Section Two: Instrument Evaluation

Section Three: Within Limits Evaluation

Section Two: Instrument Evaluation

Content:

- Evaluation of Combined Parameters
- Evaluation of Single Parameters

Executed By:

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

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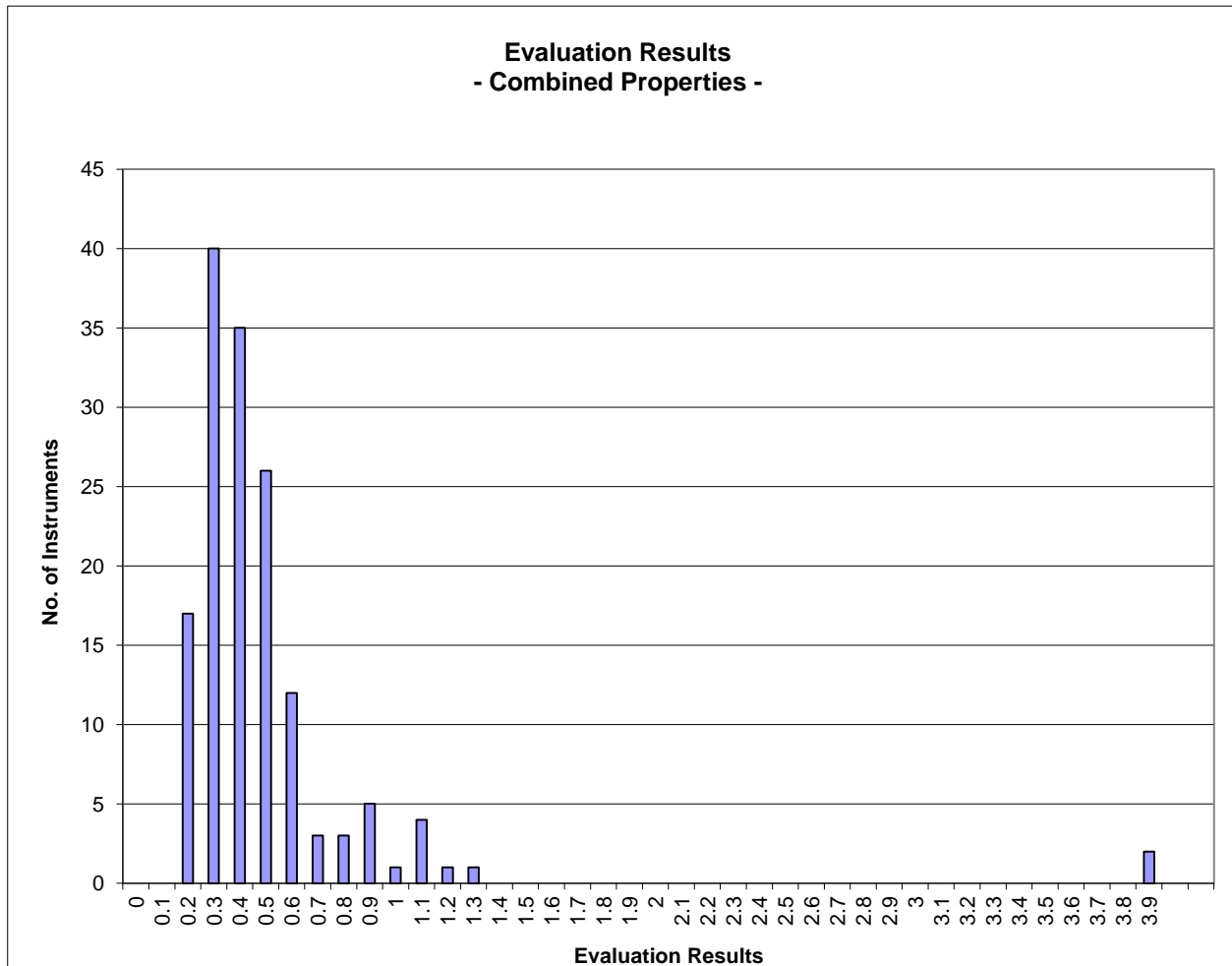
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2015 - 4

		Evaluation Combined Prop.
Statistics	Average	0.49
	Median	0.41
	Best Instrument	0.19
	Worst Instrument	3.91

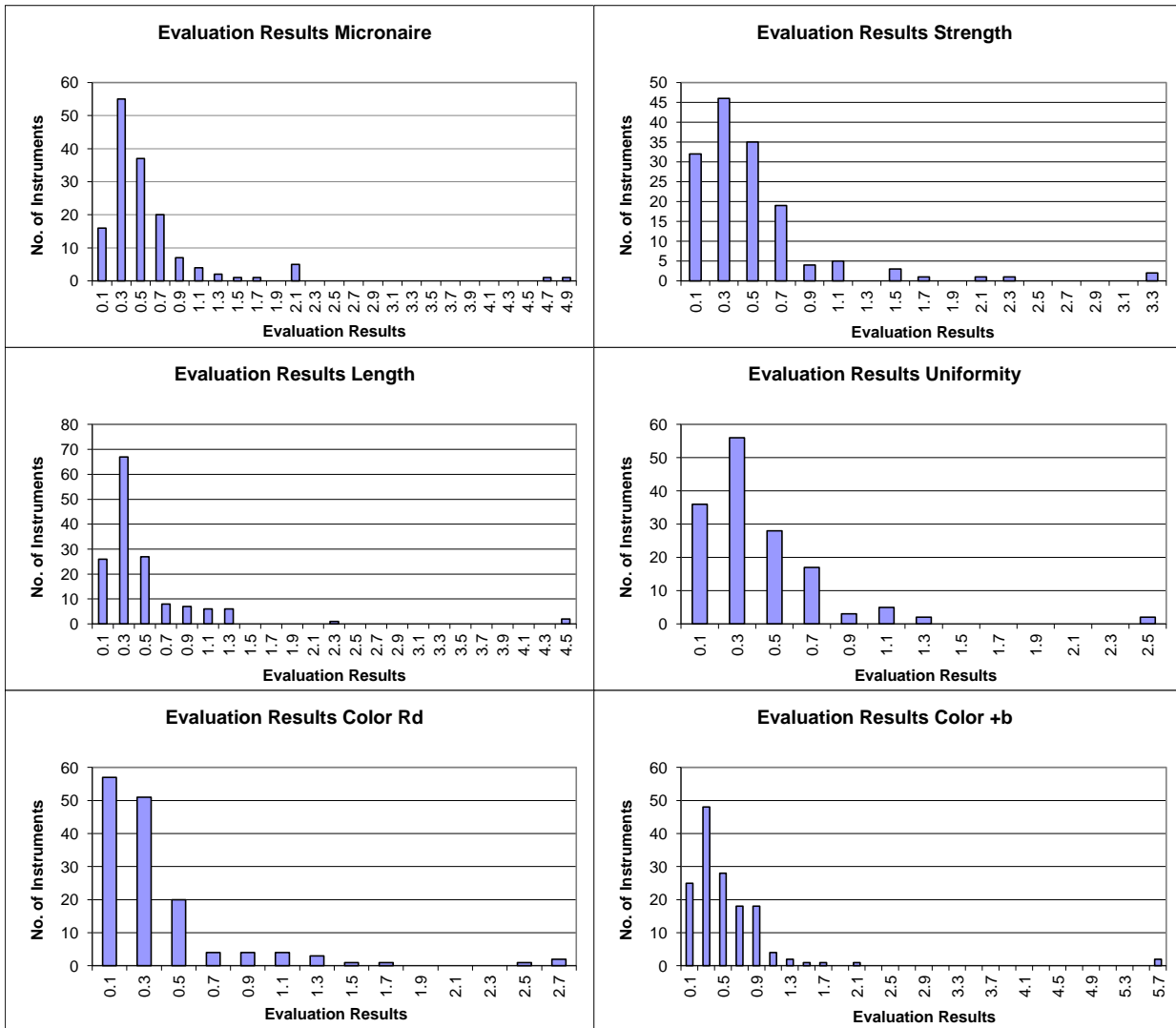


x-Axis shows midpoints of classes

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 2015 - 4

	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average 0.58	0.50	0.50	0.41	0.39	0.57
	Median 0.41	0.36	0.35	0.30	0.25	0.42
	Best Instr. 0.06	0.06	0.06	0.04	0.03	0.08
	Worst Instr. 4.86	3.28	4.56	2.51	2.78	5.65



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



International Cotton Advisory Committee



CSITC
Global - Round Trial 2015 - 4
General Evaluation

Section One: Result Distribution
Section Two: Instrument Evaluation
Section Three: Within Limits Evaluation

Section Three: Within Limits Evaluation

Content:

- Based on Average of 30 Test Results
- Based on Single Test Results

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	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	96.3	94.1	95.7	99.5	92.1	88.2
Completely within limits	94.0	88.6	86.7	98.0	88.5	75.7
% of Instruments $\geq 75\%$ within limits	95.3	94.0	98.0	100.0	91.2	87.2
% of Instruments $\geq 50\%$ within limits	96.0	95.3	98.0	100.0	93.2	93.2

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL154-001-01	100	100	100	100	100	100
GL154-001-02	100	100	100	100	100	100
GL154-001-06	100	100	100	100	100	100
GL154-002-25	100	100	100	100	100	25
GL154-003-01	100	100	100	100	100	50
GL154-004-01	100	100	100	100	100	100
GL154-005-01	100	100	100	100	100	100
GL154-005-02	100	100	100	100	100	100
GL154-006-02	100	100	100	100	100	75
GL154-007-01	100	100	100	100	100	100
GL154-008-02	100	100	100	100	100	75
GL154-008-03	100	100	100	100	100	25
GL154-008-05	100	100	100	100	100	100
GL154-008-06	100	100	100	100	75	100
GL154-009-01	100	100	100	100	100	75
GL154-010-20	100	100	100	100	100	100
GL154-010-22	100	100	100	100	100	100
GL154-011-01	100	100	100	100	100	100
GL154-012-03	100	100	100	100	100	100
GL154-012-04	100	100	100	100	100	100
GL154-012-06	100	100	100	100	100	100
GL154-013-01	100	100	100	100	100	100
GL154-014-01	25	0	25	75	25	0
GL154-014-02	25	25	25	75	0	0
GL154-016-01	100	100	100	100	25	100
GL154-017-01	100	100	100	100	100	100
GL154-017-02	100	100	100	100	100	100
GL154-017-03	100	100	100	100	100	100
GL154-017-04	100	100	100	100	100	100
GL154-018-02	100	100	100	100	100	50
GL154-019-01	100	100	100	100	100	100
GL154-020-01	100	100	100	100	100	100
GL154-020-02	100	100	100	100	100	100
GL154-021-01	100	75	100	100	0	100

GL154-022-01	100	100	100	100	100	100
GL154-023-01	100	100	100	100	100	100
GL154-023-02	100	100	100	100	100	100
GL154-024-01	100	100	100	100	100	100
GL154-024-04	100	100	100	100	100	100
GL154-024-05	100	100	100	100	100	100
GL154-025-12	100	100	100	100	100	100
GL154-025-16	100	100	100	100	100	100
GL154-026-01	100	75	100	100	50	100
GL154-027-01	100	100	75	100	100	100
GL154-027-02	100	100	75	100	100	100
GL154-027-05	100	100	100	100	100	100
GL154-027-07	100	100	100	100	100	100
GL154-028-01	100	75	100	100	100	0
GL154-028-02	100	100	100	100	100	75
GL154-028-03	100	100	100	100	100	75
GL154-029-26	100	100	100	100	100	100
GL154-029-32	100	100	100	100	100	100
GL154-032-06	100	100	100	100	100	50
GL154-033-01	25	100	75	100	100	75
GL154-033-09	25	100	75	100	100	75
GL154-033-11	25	100	75	100	100	75
GL154-033-12	25	100	75	100	100	75
GL154-034-04	100	100	100	100	100	100
GL154-035-01	100	75	100	100	100	75
GL154-036-02	100	100	100	100	100	100
GL154-036-03	100	25	75	100	100	25
GL154-036-04	100	100	75	100	0	75
GL154-036-06	100	25	100	100	0	100
GL154-036-07	100	25	100	100	100	100
GL154-036-08	100	100	100	100	100	100
GL154-037-01	100	100	100	100	50	100
GL154-038-01	100	100	100	100	75	100
GL154-039-01	100	50	100	100	100	100
GL154-040-02	100	100	100	100	100	75
GL154-041-01	100	100	100	100	100	75
GL154-041-02	100	100	75	100	100	50
GL154-041-03	100	100	100	100	100	100
GL154-041-04	100	100	100	100	100	100
GL154-043-03	100	100	100	100	100	100
GL154-044-01	100	100	100	100	100	100
GL154-045-01	100	100	100	100	100	100
GL154-045-02	100	100	100	100	100	100
GL154-046-01	100	100	100	100	100	100
GL154-047-02	100	100	100	100	100	100
GL154-049-01	100	100	100	100	100	100
GL154-049-02	100	100	100	100	100	100
GL154-050-02	100	100	100	100	75	100
GL154-050-03	100	100	100	100	100	100
GL154-051-24	100	100	100	100	100	100
GL154-051-30	100	100	100	100	100	100
GL154-052-01	100	100	100	100	100	50
GL154-053-02	100	100	100	100	100	100
GL154-053-03	100	100	100	100	100	100
GL154-053-04	100	100	100	100	100	100

GL154-054-01	75	100	100	100	100	100
GL154-055-01	100	100	100	100	100	100
GL154-055-02	100	100	100	100	100	100
GL154-056-01	100	100	100	100	100	50
GL154-057-01	100	100	100	100	100	100
GL154-058-01	100	100	100	100	100	100
GL154-059-05	100		75			
GL154-060-01	100	75	100	100	0	100
GL154-064-01	100	100	100	100	100	100
GL154-065-01	100	50	100	100	0	75
GL154-066-01	100	100	100	100	100	100
GL154-067-05	100	100	100	100	100	100
GL154-067-09	100	100	100	100	100	100
GL154-068-01	100	100	100	100	100	100
GL154-069-01	100	75	25	100		
GL154-070-01	100	100	100	100	100	100
GL154-071-01	100	100	100	100	100	100
GL154-071-02	100	100	100	100	100	100
GL154-071-04	100	100	100	100	100	100
GL154-072-01	100	100	100	100	100	100
GL154-073-03	100	100	100	100	100	100
GL154-074-01	100	100	100	100	100	100
GL154-074-03	100	100	100	100	100	100
GL154-075-04	100	100	100	100	100	75
GL154-075-05	100	100	100	100	100	100
GL154-076-01	100	100	100	100	100	100
GL154-077-01	100	100	100	100	100	100
GL154-078-01	100	100	75	100	100	50
GL154-078-02	100	100	100	100	0	25
GL154-079-03	100	100	100	100	100	100
GL154-079-05	100	100	100	100	100	100
GL154-080-01	100	100	100	100	100	50
GL154-080-02	100	100	100	100	100	50
GL154-081-62	100	100	100	100	100	100
GL154-081-63	100	100	100	100	100	100
GL154-082-01	100	100	100	100	100	100
GL154-083-03	75	75	100	75	75	100
GL154-083-05	100	0	75	100	100	100
GL154-084-01	100	100	100	100	100	100
GL154-085-01	100	75	100	100	25	100
GL154-087-01	100	100	100	100	100	100
GL154-089-02	100	100	100	100	100	75
GL154-092-03	100	100	100	100	100	100
GL154-092-14	100	100	100	100	100	100
GL154-095-04	100	100	75	100	100	100
GL154-096-01	100	100	100	100	100	100
GL154-097-01	100	100	75	100	100	100
GL154-097-02	100	100	75	100	100	100
GL154-097-05	100	100	75	100	100	100
GL154-097-06	100	100	75	100	100	100
GL154-098-01	100	100	100	100	100	100
GL154-099-01	100	100	100	100	100	100
GL154-100-01	100	100	100	100	100	0
GL154-100-02	50	100	100	100	100	100
GL154-100-03	100	100	100	100	100	75

GL154-100-04	100	100	100	100	100	25
GL154-100-05	100	100	100	100	100	0
GL154-101-01	100	100	100	100	100	100
GL154-102-01	100	100	100	100	100	100
GL154-102-02	100	100	100	100	100	100
GL154-104-01	100	25	100	100	50	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	0.5
	units	g/tex	inch	%	units	units
Average % Results within Limits	95.7	90.7	93.1	98.3	91.9	83.9
% of Instruments 100% within limits	66.0	38.9	34.7	59.7	58.8	31.1
% of Instruments ≥95% within limits	89.3	63.8	66.0	90.6	83.1	46.6
% of Instruments ≥75% within limits	94.7	89.3	94.7	98.7	88.5	75.0
% of Instruments ≥65% within limits	94.7	91.3	96.7	100.0	91.2	80.4
% of Instruments ≥50% within limits	95.3	96.0	98.0	100.0	93.9	92.6

Percentage of Results Within Limits						
Instrument	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL154-001-01	100	100	100	100	100	100
GL154-001-02	100	100	100	100	100	88
GL154-001-06	100	100	100	100	100	100
GL154-002-25	100	88	85	99	97	50
GL154-003-01	98	93	94	100	100	64
GL154-004-01	100	100	100	100	100	97
GL154-005-01	98	100	100	99	99	57
GL154-005-02	98	100	100	99	99	57
GL154-006-02	98	100	100	100	100	65
GL154-007-01	93	100	95	93	98	68
GL154-008-02	100	100	100	100	88	74
GL154-008-03	100	99	100	100	100	40
GL154-008-05	100	98	99	100	80	93
GL154-008-06	100	100	96	100	68	98
GL154-009-01	100	100	97	98	98	71
GL154-010-20	99	98	100	100	100	89
GL154-010-22	100	100	100	100	100	100
GL154-011-01	98	94	97	94	100	82
GL154-012-03	100	100	99	100	100	100
GL154-012-04	100	100	100	100	100	100
GL154-012-06	100	100	100	100	100	100
GL154-013-01	100	100	100	100	99	94
GL154-014-01	25	8	25	75	13	0
GL154-014-02	25	17	25	74	11	0
GL154-016-01	100	88	94	100	57	95
GL154-017-01	98	99	99	100	100	99
GL154-017-02	100	99	100	98	100	96
GL154-017-03	100	100	99	100	100	100
GL154-017-04	100	100	99	100	100	93
GL154-018-02	99	100	100	99	99	44

GL154-019-01	100	97	98	100	100	97
GL154-020-01	100	100	99	100	100	100
GL154-020-02	100	98	95	100	100	100
GL154-021-01	100	88	100	99	12	93
GL154-022-01	100	100	99	98	97	97
GL154-023-01	100	95	96	100	100	92
GL154-023-02	99	78	94	98	100	93
GL154-024-01	100	100	100	100	100	100
GL154-024-04	100	100	100	100	100	98
GL154-024-05	100	100	100	100	100	100
GL154-025-12	100	99	100	100	100	100
GL154-025-16	100	98	100	100	100	100
GL154-026-01	100	73	98	98	53	99
GL154-027-01	100	100	87	100	100	90
GL154-027-02	100	100	89	100	100	100
GL154-027-05	100	100	93	100	100	98
GL154-027-07	99	100	97	100	100	100
GL154-028-01	96	75	93	98	100	27
GL154-028-02	99	78	92	100	100	64
GL154-028-03	100	62	91	96	100	76
GL154-029-26	100	93	98	100	100	100
GL154-029-32	100	98	99	100	99	100
GL154-032-06	99	100	100	99	96	50
GL154-033-01	37	98	82	100	100	65
GL154-033-09	31	96	81	100	100	61
GL154-033-11	33	98	77	100	100	63
GL154-033-12	38	98	85	100	100	64
GL154-034-04	99	98	96	99	100	100
GL154-035-01	100	73	79	98	98	78
GL154-036-02	98	93	94	99	97	98
GL154-036-03	96	36	63	88	85	55
GL154-036-04	98	86	80	95	32	93
GL154-036-06	95	56	83	99	29	96
GL154-036-07	100	39	98	100	98	94
GL154-036-08	95	76	88	98	99	98
GL154-037-01	98	93	97	98	53	99
GL154-038-01	100	58	90	100	68	87
GL154-039-01	100	60	100	98	95	69
GL154-040-02	100	80	79	73	95	68
GL154-041-01	100	100	93	93	99	87
GL154-041-02	88	100	87	95	93	63
GL154-041-03	99	100	100	100	99	80
GL154-041-04	93	100	87	100	100	93
GL154-043-03	100	96	99	99	100	97
GL154-044-01	99	92	99	98	100	100
GL154-045-01	100	100	98	100	97	89
GL154-045-02	100	100	99	100	100	90
GL154-046-01	100	95	100	100	100	94
GL154-047-02	100	100	98	100	88	84
GL154-049-01	100	98	100	100	100	98
GL154-049-02	100	100	100	100	100	94
GL154-050-02	100	90	98	98	68	87
GL154-050-03	100	98	100	100	100	100
GL154-051-24	100	92	98	100	100	89
GL154-051-30	99	92	98	98	95	100