International Cotton Advisory Committee

CSITC
Global - Round Trial 2017 - 1
General Evaluation

Section One: Result Distribution
Section Two: Instrument Evaluation
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Section One: Result Distribution

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Optional Parameters
- -Summary Table
- -Distribution Graphs

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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
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* Faserinstitut Bremen are a Cooperation Partner with ICA Bremen

Global - Round Trial 2017 - 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)			5.484	4.357	4.874	4.743	
Reference Values for Evaluation			5.484	4.357	4.874	4.743	
Number Of Instruments			115	115	115	115	**115**
Inter-Instrument Variation	based on 30 tests	SD	0.040	0.058	0.052	0.052	**0.050**
		CV %	0.7	1.3	1.1	1.1	**1.1**
	based on 6 tests	SD	0.050	0.060	0.057	0.057	**0.056**
		CV %	0.9	1.4	1.2	1.2	**1.2**
	based on single tests	SD	0.062	0.068	0.065	0.066	**0.065**
		CV %	1.1	1.6	1.3	1.4	**1.4**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.024	0.022	0.024	0.025	**0.024**
		CV %	0.4	0.5	0.5	0.5	**0.5**
	between single tests on one day	SD	0.032	0.036	0.031	0.033	**0.033**
		CV %	0.6	0.8	0.6	0.7	**0.7**
	between all tests on different days	SD	0.041	0.044	0.042	0.042	**0.042**
		CV %	0.7	1.0	0.9	0.9	**0.9**

Strength							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			27.941	27.421	25.852	30.953	
Reference Values for Evaluation			27.941	27.421	25.852	30.953	
Number Of Instruments			115	115	115	115	**115**
Inter-Instrument Variation	based on 30 tests	SD	0.576	0.550	0.761	0.635	**0.631**
		CV %	2.1	2.0	2.9	2.1	**2.3**
	based on 6 tests	SD	0.830	0.675	0.867	0.767	**0.785**
		CV %	3.0	2.5	3.4	2.5	**2.8**
	based on single tests	SD	0.966	0.824	0.973	0.938	**0.926**
		CV %	3.5	3.0	3.8	3.0	**3.3**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.293	0.380	0.327	0.372	**0.343**
		CV %	1.0	1.4	1.3	1.2	**1.2**
	between single tests on one day	SD	0.495	0.470	0.456	0.497	**0.480**
		CV %	1.8	1.7	1.8	1.6	**1.7**
	between all tests on different days	SD	0.569	0.591	0.561	0.620	**0.585**
		CV %	2.0	2.2	2.2	2.0	**2.1**

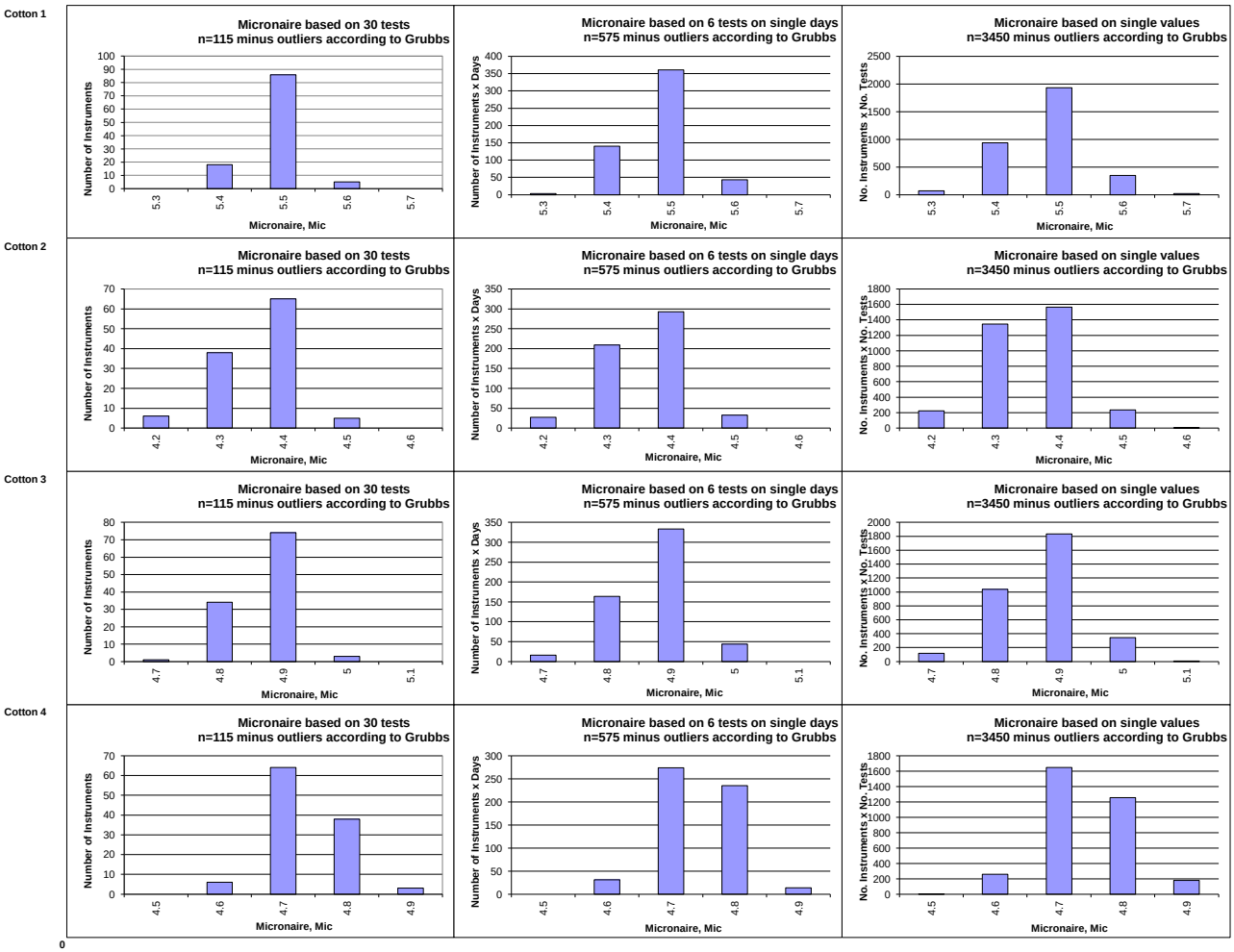
Length							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			1.0337	1.0919	1.0160	1.1644	
Reference Values for Evaluation			1.0337	1.0919	1.0160	1.1644	
Number Of Instruments			116	116	116	116	**116**
Inter-Instrument Variation	based on 30 tests	SD	0.0079	0.0115	0.0099	0.0097	**0.0097**
		CV %	0.8	1.1	1.0	0.8	**0.9**
	based on 6 tests	SD	0.0097	0.0125	0.0122	0.0114	**0.0114**
		CV %	0.9	1.1	1.2	1.0	**1.1**
	based on single tests	SD	0.0136	0.0149	0.0149	0.0150	**0.0146**
		CV %	1.3	1.4	1.5	1.3	**1.4**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.0053	0.0058	0.0057	0.0049	**0.0054**
		CV %	0.5	0.5	0.6	0.4	**0.5**
	between single tests on one day	SD	0.0093	0.0090	0.0084	0.0093	**0.0090**
		CV %	0.9	0.8	0.8	0.8	**0.8**
	between all tests on different days	SD	0.0105	0.0102	0.0102	0.0107	**0.0104**
		CV %	1.0	0.9	1.0	0.9	**1.0**

Uniformity							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			80.662	81.378	81.160	82.993	
Reference Values for Evaluation			80.662	81.378	81.160	82.993	
Number Of Instruments			115	115	115	115	**115**
Inter-Instrument Variation	based on 30 tests	SD	0.415	0.386	0.671	0.449	**0.480**
		CV %	0.5	0.5	0.8	0.5	**0.6**
	based on 6 tests	SD	0.498	0.492	0.722	0.532	**0.561**
		CV %	0.6	0.6	0.9	0.6	**0.7**
	based on single tests	SD	0.691	0.708	0.869	0.715	**0.746**
		CV %	0.9	0.9	1.1	0.9	**0.9**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.248	0.287	0.267	0.273	**0.269**
		CV %	0.3	0.4	0.3	0.3	**0.3**
	between single tests on one day	SD	0.483	0.474	0.504	0.480	**0.485**
		CV %	0.6	0.6	0.6	0.6	**0.6**
	between all tests on different days	SD	0.535	0.538	0.562	0.555	**0.548**
		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)			78.440	78.273	72.854	78.965	
Reference Values for Evaluation			78.440	78.273	72.854	78.965	
Number Of Instruments			113	113	113	113	**113**
Inter-Instrument Variation	based on 30 tests	SD	0.436	0.477	0.622	0.490	**0.506**
		CV %	0.6	0.6	0.9	0.6	**0.7**
	based on 6 tests	SD	0.475	0.514	0.660	0.528	**0.544**
		CV %	0.6	0.7	0.9	0.7	**0.7**
	based on single tests	SD	0.545	0.560	0.710	0.587	**0.600**
		CV %	0.7	0.7	1.0	0.7	**0.8**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.143	0.154	0.172	0.144	**0.153**
		CV %	0.2	0.2	0.2	0.2	**0.2**
	between single tests on one day	SD	0.164	0.137	0.168	0.181	**0.162**
		CV %	0.2	0.2	0.2	0.2	**0.2**
	between all tests on different days	SD	0.224	0.217	0.239	0.244	**0.231**
		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)			9.376	12.259	15.369	9.949	
Reference Values for Evaluation			9.376	12.259	15.369	9.949	
Number Of Instruments			113	113	113	113	**113**
Inter-Instrument Variation	based on 30 tests	SD	0.196	0.412	0.296	0.234	**0.285**
		CV %	2.1	3.4	1.9	2.4	**2.4**
	based on 6 tests	SD	0.233	0.416	0.281	0.246	**0.294**
		CV %	2.5	3.4	1.8	2.5	**2.5**
	based on single tests	SD	0.258	0.446	0.309	0.282	**0.324**
		CV %	2.8	3.6	2.0	2.8	**2.8**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.083	0.094	0.103	0.095	**0.094**
		CV %	0.9	0.8	0.7	1.0	**0.8**
	between single tests on one day	SD	0.079	0.099	0.096	0.086	**0.090**
		CV %	0.8	0.8	0.6	0.9	**0.8**
	between all tests on different days	SD	0.124	0.155	0.163	0.135	**0.144**
		CV %	1.3	1.3	1.1	1.4	**1.2**

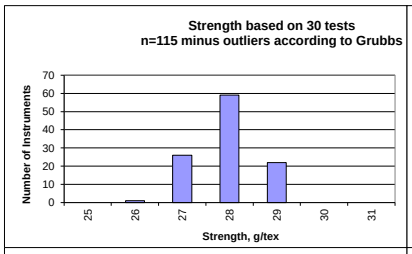
Test Result Distributions
Micronaire

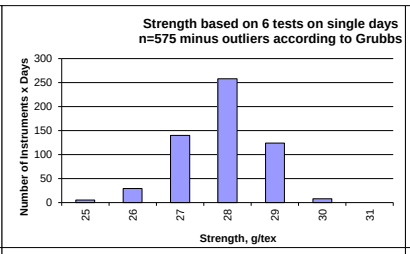


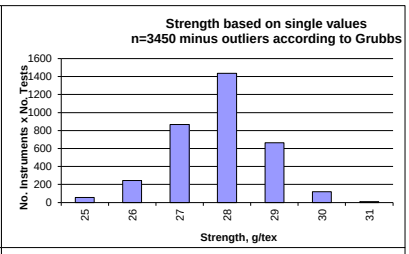
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength

Cotton 1







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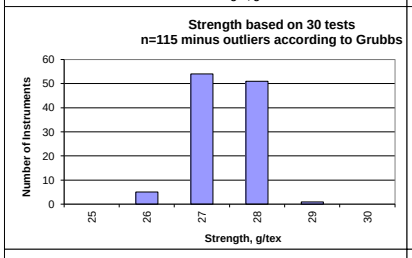
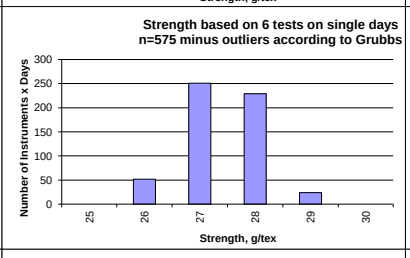
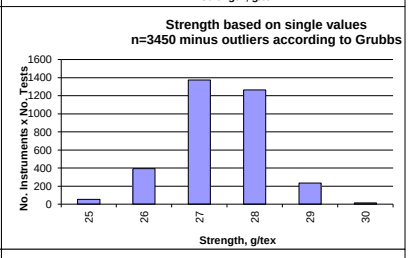
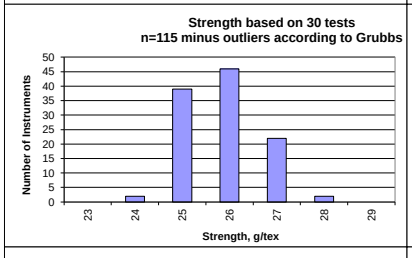
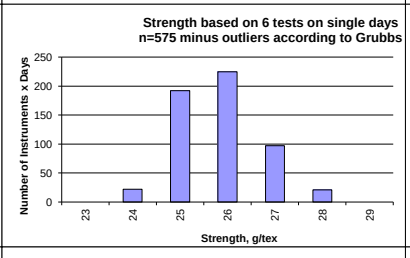


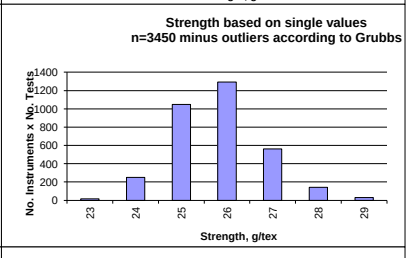




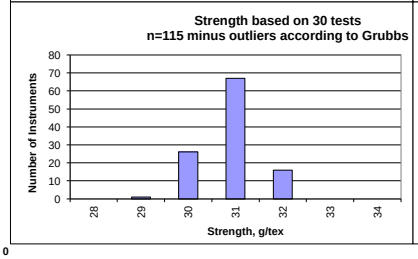
Cotton 3

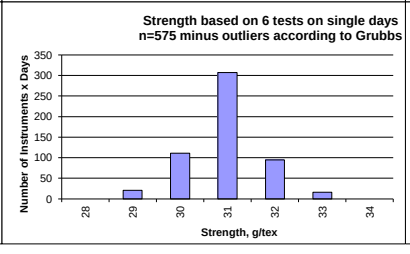


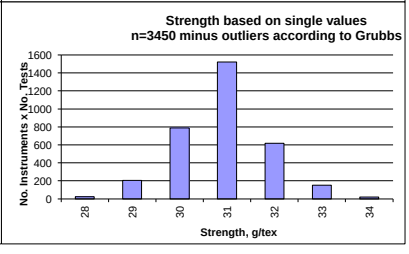




Cotton 4







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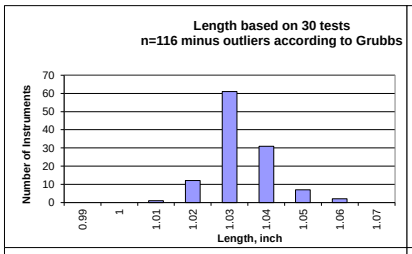
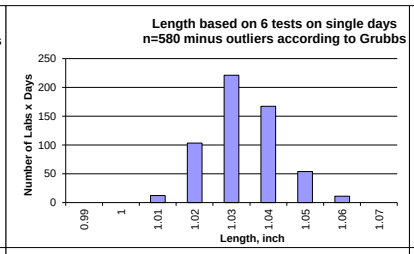
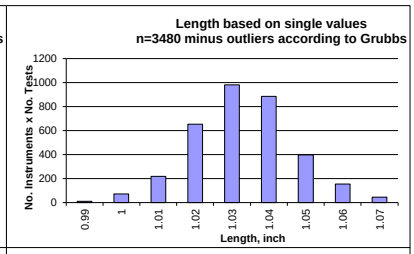
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Length

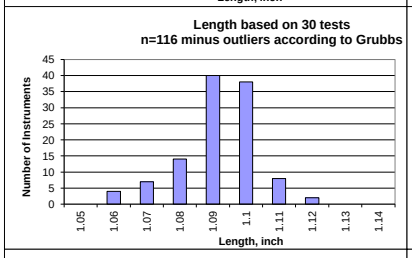
Cotton 1

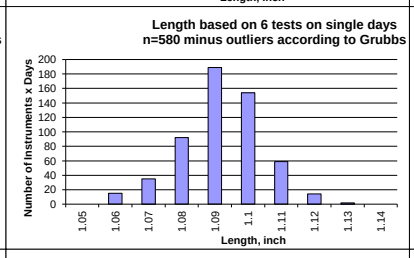


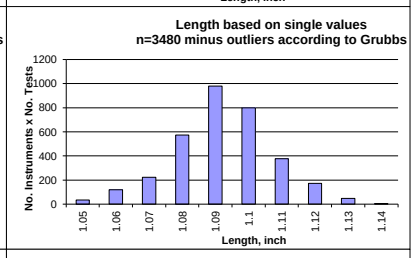




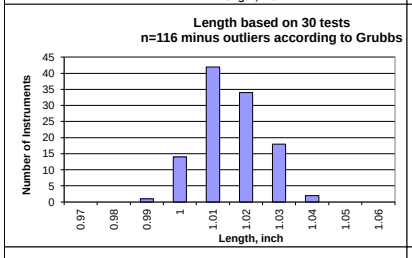
Cotton 2

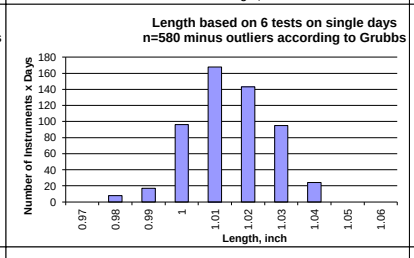


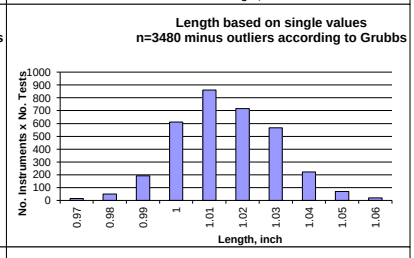




Cotton 3







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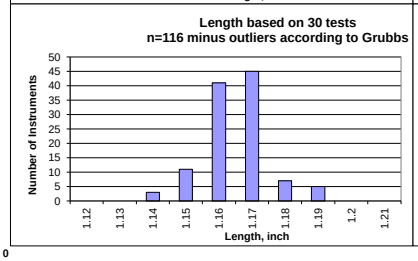

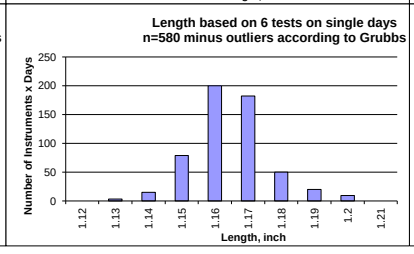

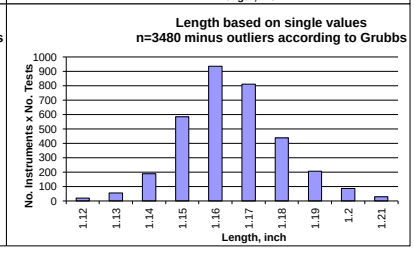

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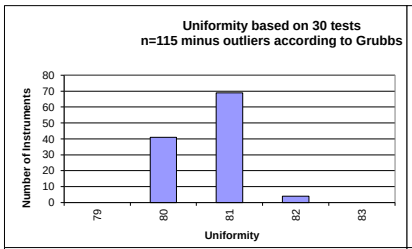
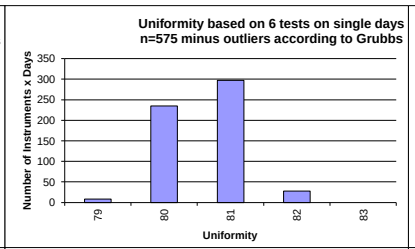
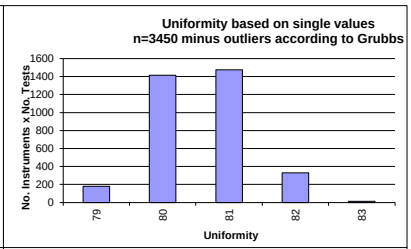
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Uniformity

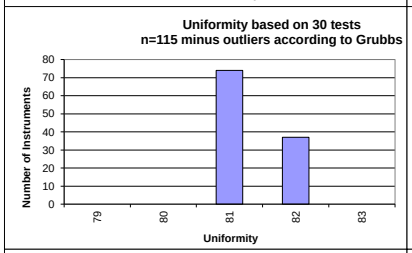
Cotton 1

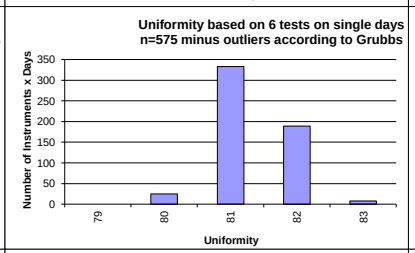


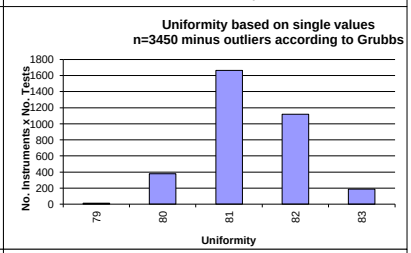




Cotton 2







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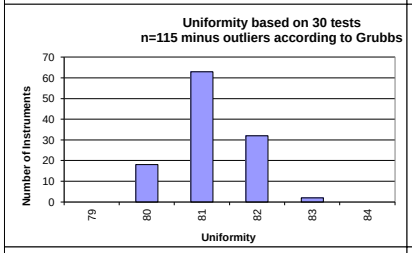

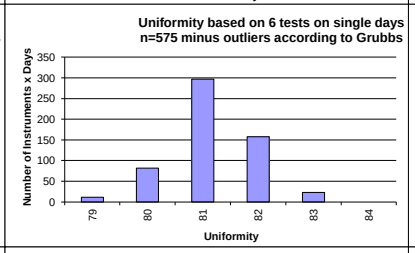

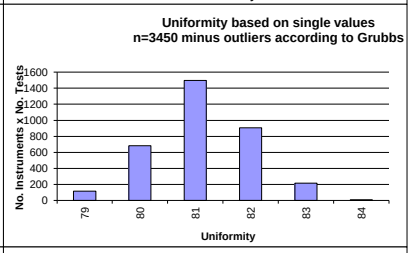

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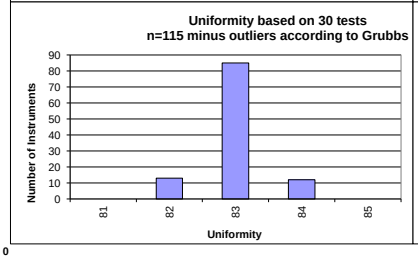

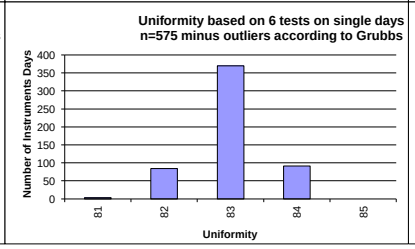

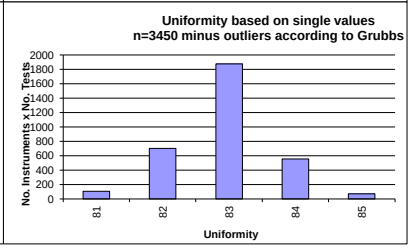

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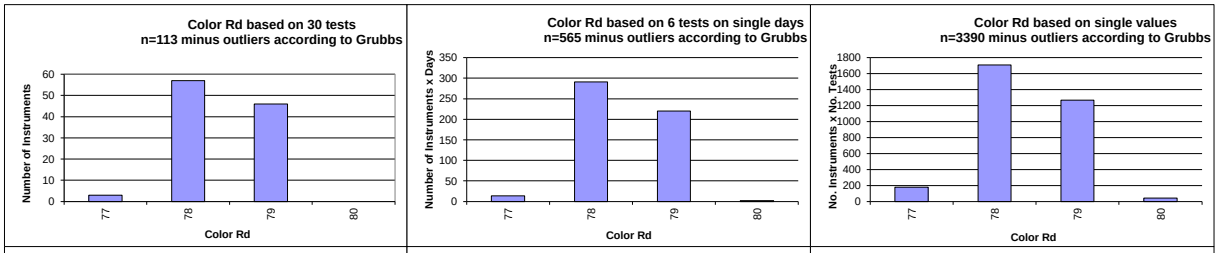
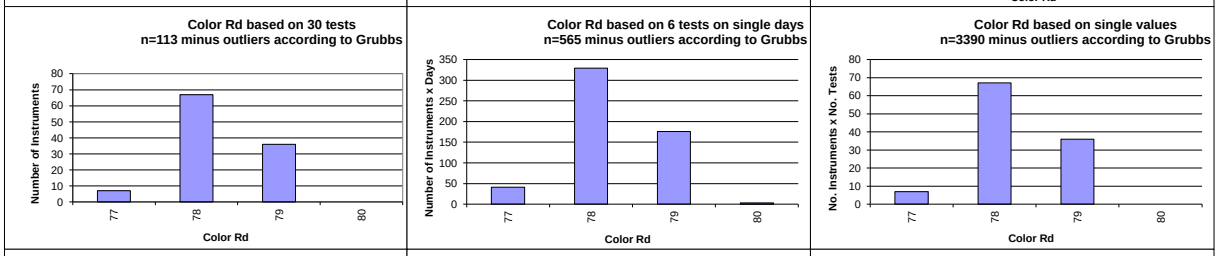
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color Rd

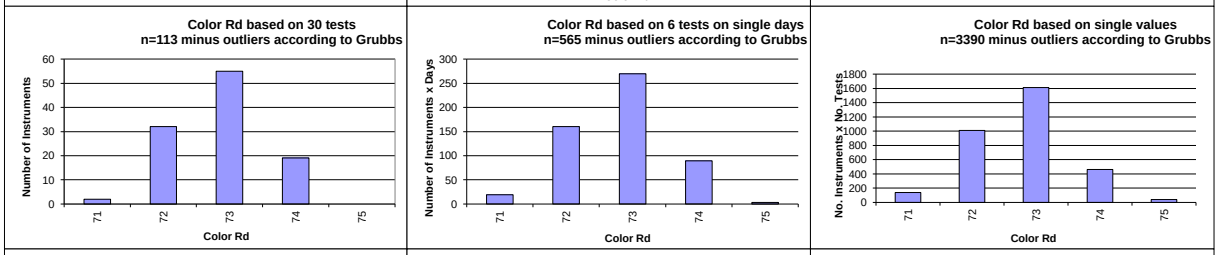
Cotton 1



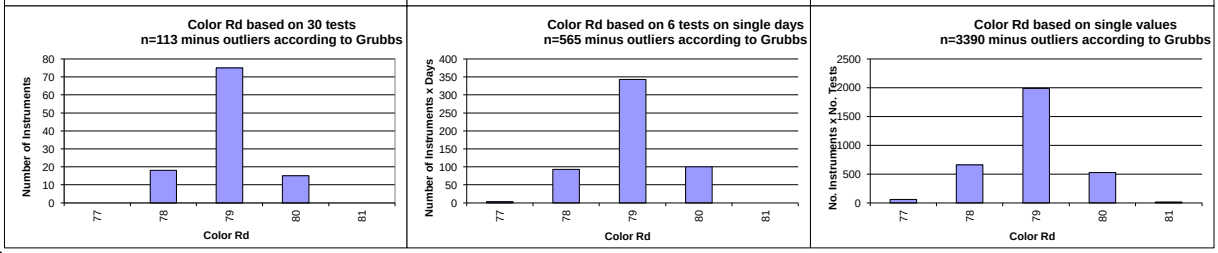
Cotton 2



Cotton 3



Cotton 4



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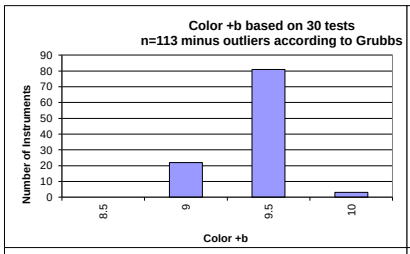
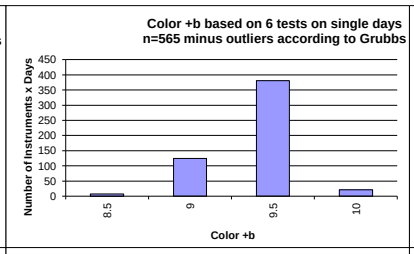
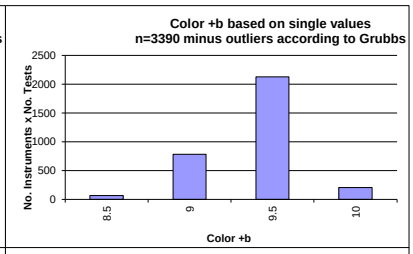
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color +b

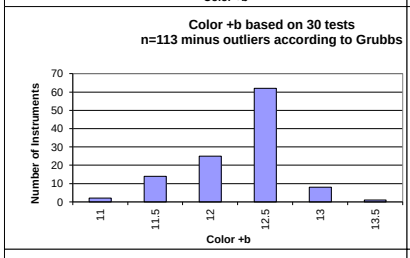
Cotton 1

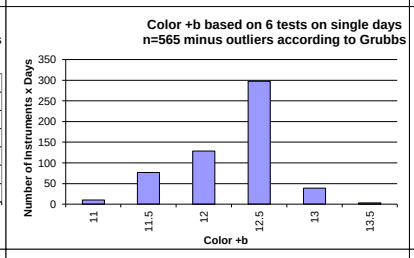


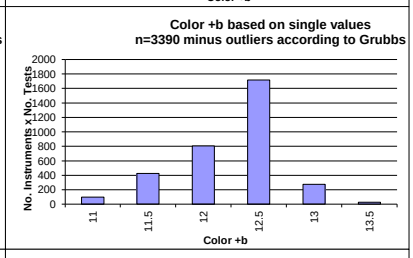




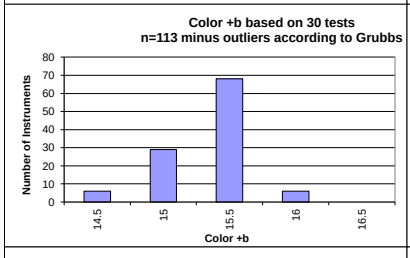
Cotton 2

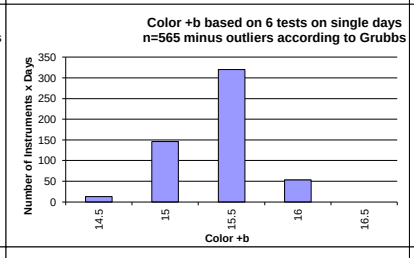


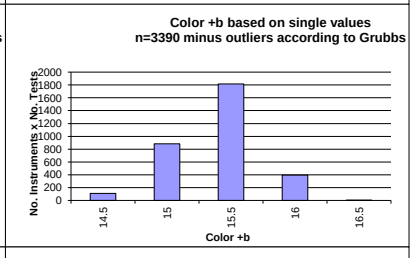




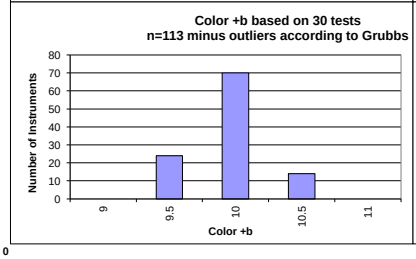
Cotton 3

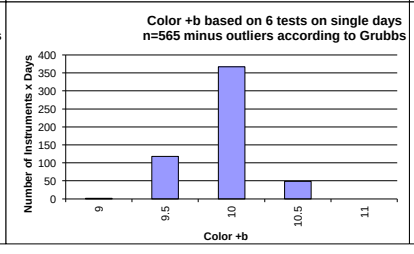


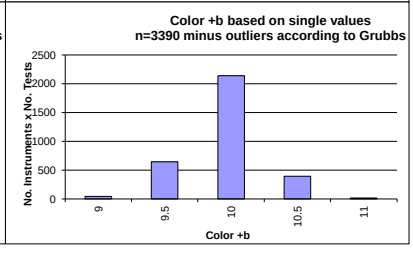




Cotton 4







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(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)			13.95	19.15	29.60	10.82	
Reference Values for Evaluation			13.95	19.15	29.60	10.82	
Number Of Instruments			82	82	82	82	**82**
Inter-Instrument Variation	based on 30 tests	SD	5.15	7.64	9.97	4.44	**6.80**
		CV %	36.9	39.9	33.7	41.1	**37.9**
	based on 6 tests	SD	5.52	7.93	10.40	4.72	**7.14**
		CV %	39.6	41.4	35.1	43.6	**39.9**
	based on single tests	SD	5.89	8.29	10.75	5.08	**7.50**
		CV %	42.2	43.3	36.3	46.9	**42.2**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	1.57	1.71	2.45	1.53	**1.82**
		CV %	11.3	8.9	8.3	14.2	**10.7**
	between single tests on one day	SD	1.73	1.88	2.57	1.72	**1.98**
		CV %	12.4	9.8	8.7	15.9	**11.7**
	between all tests on different days	SD	2.61	2.70	3.68	2.46	**2.86**
		CV %	18.7	14.1	12.4	22.7	**17.0**

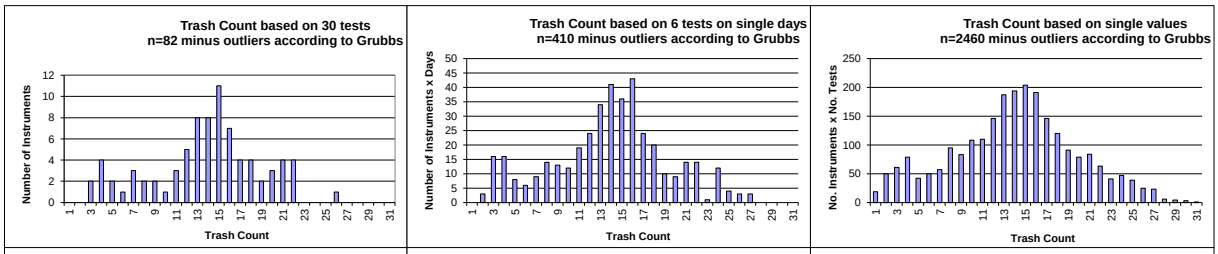
Trash Area							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			0.121	0.157	0.288	0.114	
Reference Values for Evaluation			0.121	0.157	0.288	0.114	
Number Of Instruments			82	82	82	82	**82**
Inter-Instrument Variation	based on 30 tests	SD	0.030	0.048	0.081	0.038	**0.049**
		CV %	25.1	30.3	28.2	33.2	**29.2**
	based on 6 tests	SD	0.035	0.051	0.094	0.040	**0.055**
		CV %	29.1	32.4	32.5	34.7	**32.2**
	based on single tests	SD	0.041	0.056	0.099	0.044	**0.060**
		CV %	34.1	35.6	34.3	38.4	**35.6**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.017	0.018	0.030	0.015	**0.020**
		CV %	13.8	11.7	10.4	13.2	**12.3**
	between single tests on one day	SD	0.018	0.020	0.031	0.020	**0.022**
		CV %	15.0	12.9	10.7	17.9	**14.1**
	between all tests on different days	SD	0.028	0.029	0.045	0.030	**0.033**
		CV %	23.0	18.3	15.6	26.5	**20.9**

Maturity							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			88.42	85.22	86.69	87.14	
Reference Values for Evaluation			88.42	85.22	86.69	87.14	
Number Of Instruments			81	81	81	81	**81**
Inter-Instrument Variation	based on 30 tests	SD	1.53	1.64	0.93	1.60	**1.42**
		CV %	1.7	1.9	1.1	1.8	**1.6**
	based on 6 tests	SD	1.48	1.60	0.96	1.62	**1.42**
		CV %	1.7	1.9	1.1	1.9	**1.6**
	based on single tests	SD	1.54	1.64	1.21	1.64	**1.50**
		CV %	1.7	1.9	1.4	1.9	**1.7**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.18	0.19	0.22	0.20	**0.20**
		CV %	0.2	0.2	0.3	0.2	**0.2**
	between single tests on one day	SD	0.27	0.27	0.27	0.29	**0.28**
		CV %	0.3	0.3	0.3	0.3	**0.3**
	between all tests on different days	SD	0.41	0.43	0.45	0.45	**0.43**
		CV %	0.5	0.5	0.5	0.5	**0.5**

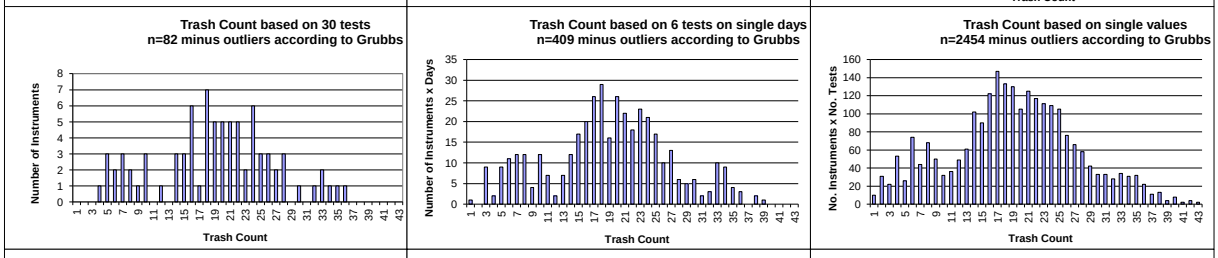
SFI							
			Cotton 1	**Cotton 2**	**Cotton 3**	**Cotton 4**	**Average**
Average of Instruments (Grubbs)			10.90	10.00	10.26	8.33	
Reference Values for Evaluation			10.90	10.00	10.26	8.33	
Number Of Instruments			94	94	94	94	**94**
Inter-Instrument Variation	based on 30 tests	SD	0.83	1.17	1.12	1.01	**1.03**
		CV %	7.6	11.7	10.9	12.1	**10.6**
	based on 6 tests	SD	0.91	1.17	1.20	0.93	**1.05**
		CV %	8.4	11.7	11.7	11.1	**10.7**
	based on single tests	SD	1.16	1.27	1.35	1.05	**1.21**
		CV %	10.7	12.7	13.2	12.6	**12.3**
Typical within-instrument Variation (Median)	between different days with each 6 tests	SD	0.32	0.32	0.33	0.21	**0.29**
		CV %	3.0	3.2	3.2	2.5	**3.0**
	between single tests on one day	SD	0.58	0.48	0.53	0.38	**0.49**
		CV %	5.3	4.8	5.2	4.5	**5.0**
	between all tests on different days	SD	0.67	0.58	0.64	0.42	**0.58**
		CV %	6.1	5.8	6.2	5.1	**5.8**

Test Result Distributions
Trash Count

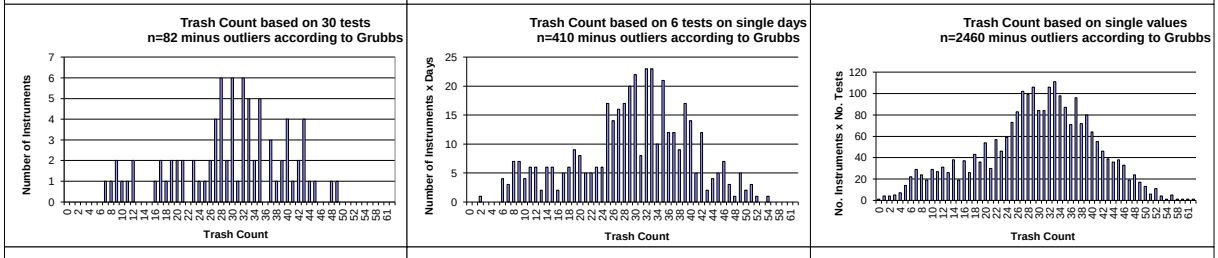
Cotton 1



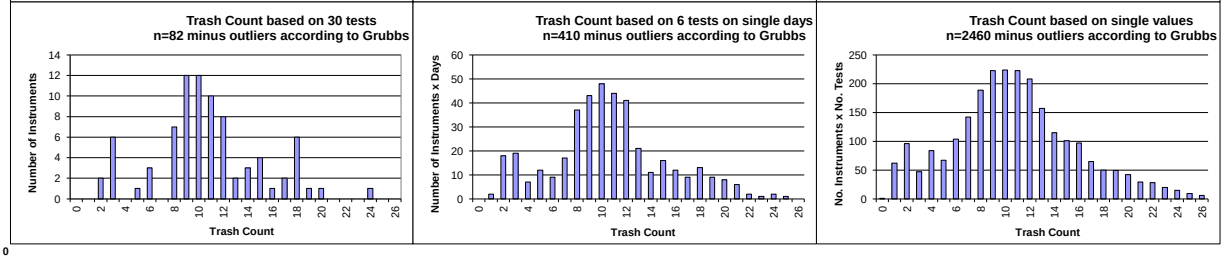
Cotton 2



Cotton 3



Cotton 4



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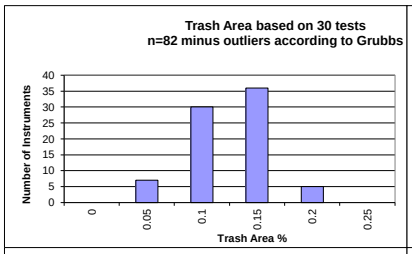
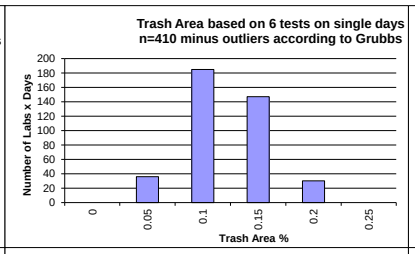
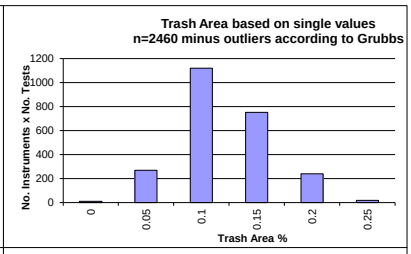
Test Result Distributions
Trash Area

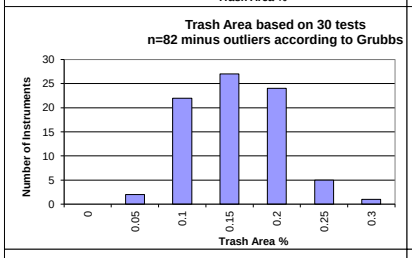
Cotton 1

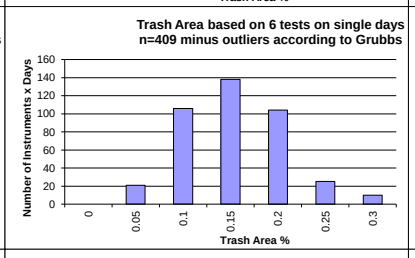


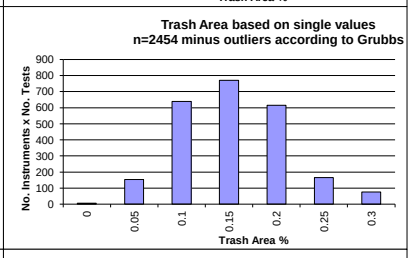




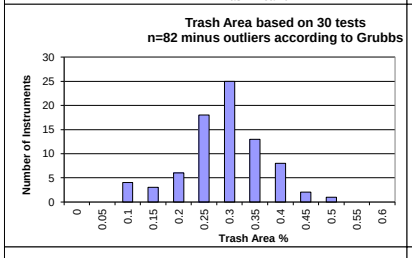
Cotton 2

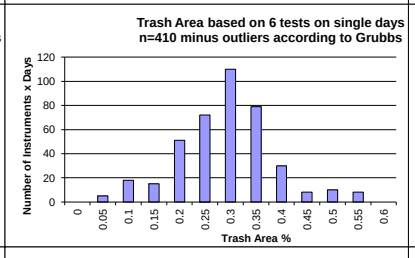


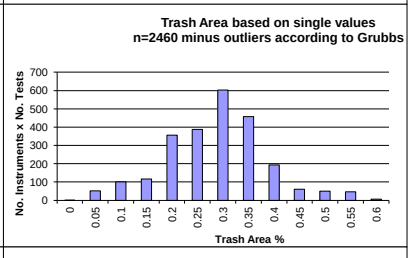




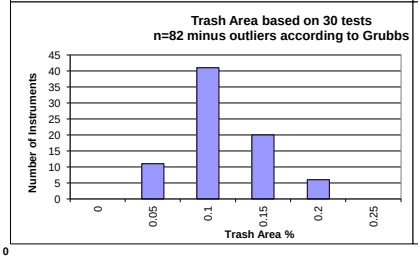
Cotton 3

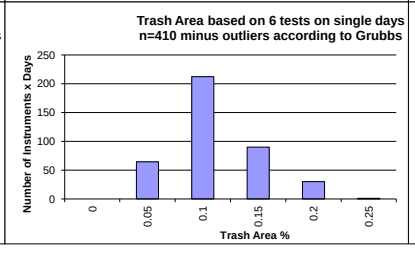


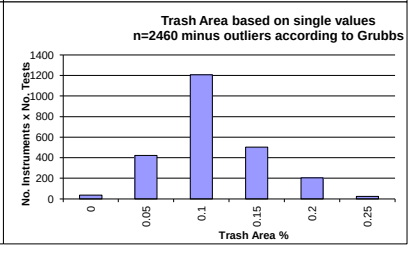




Cotton 4







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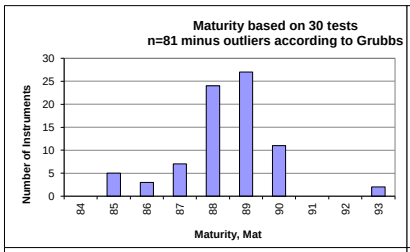
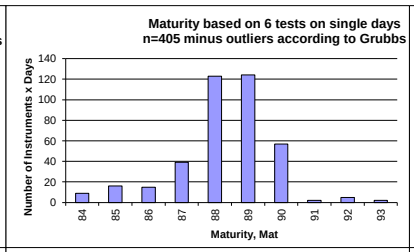
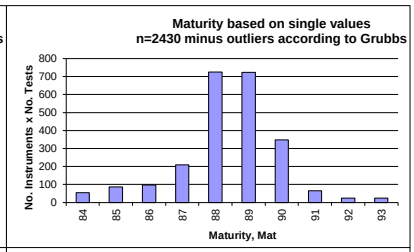
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Maturity

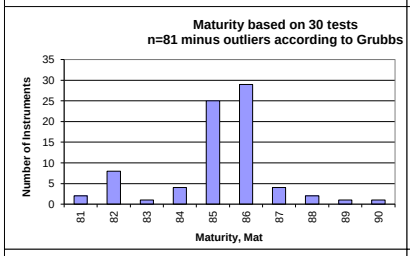
Cotton 1

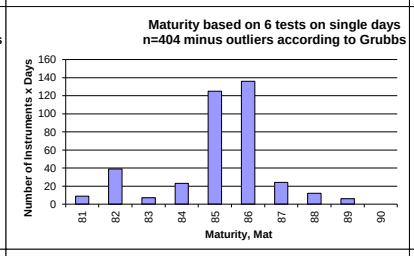


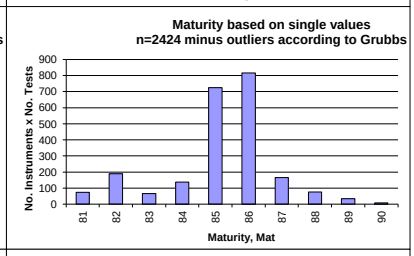




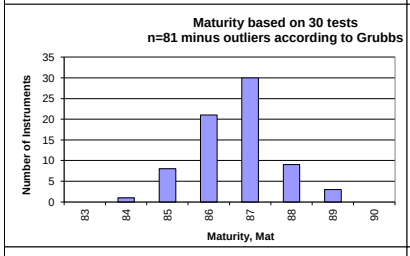
Cotton 2

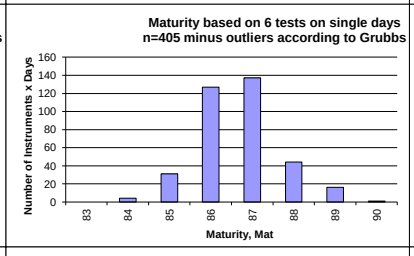


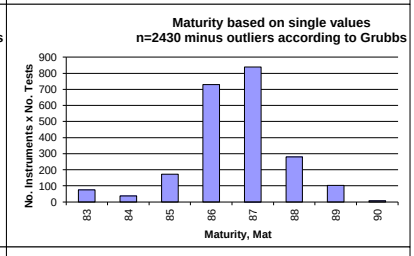




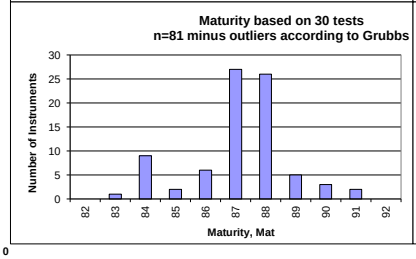
Cotton 3

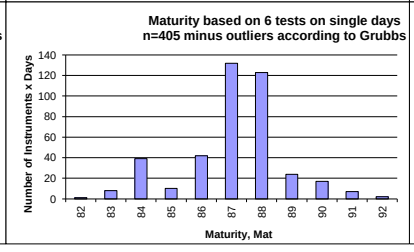


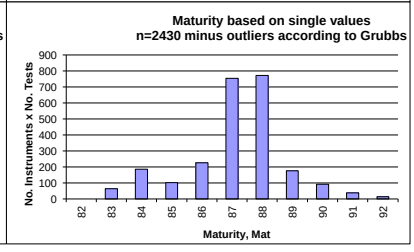




Cotton 4







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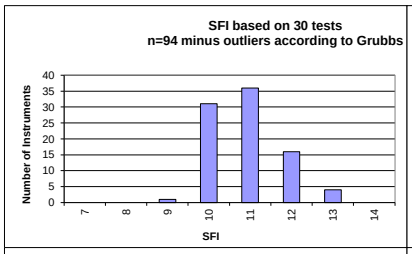
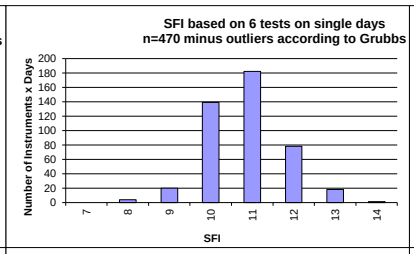
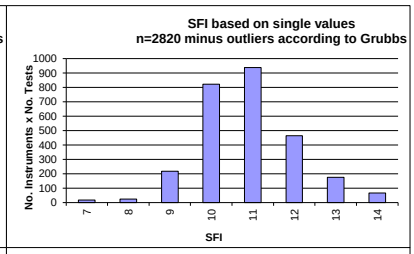
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
SFI

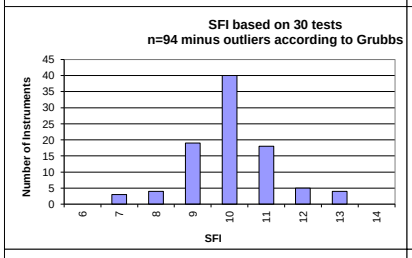
Cotton 1

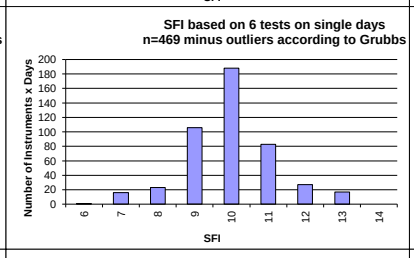


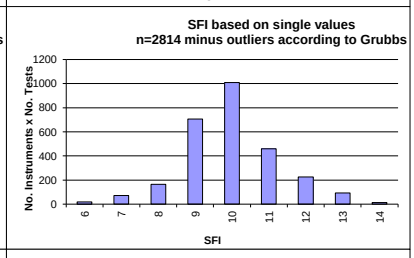




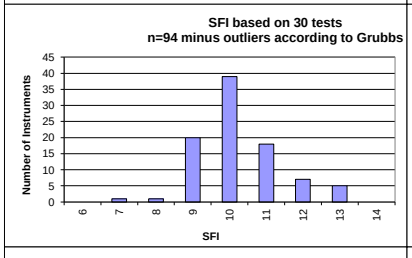
Cotton 2

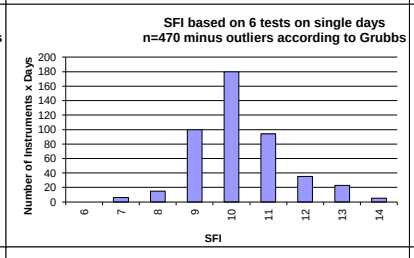


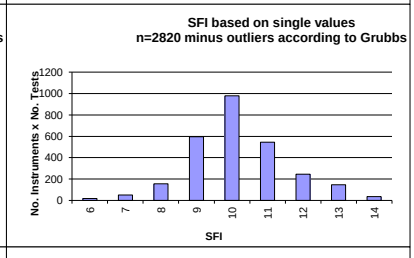




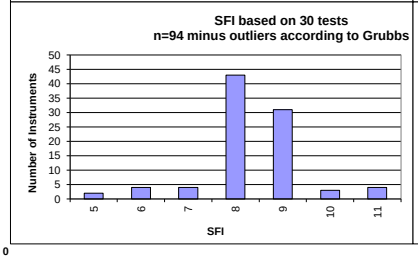
Cotton 3

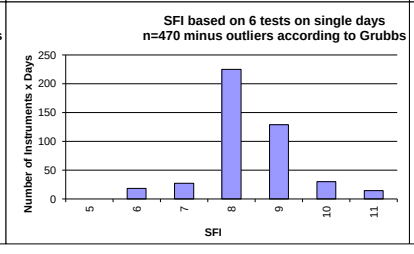


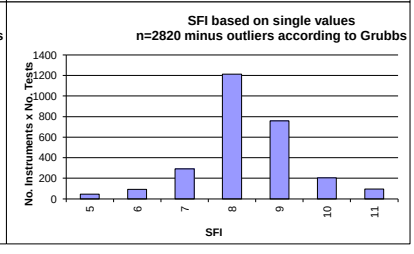




Cotton 4







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(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 2017 - 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

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*

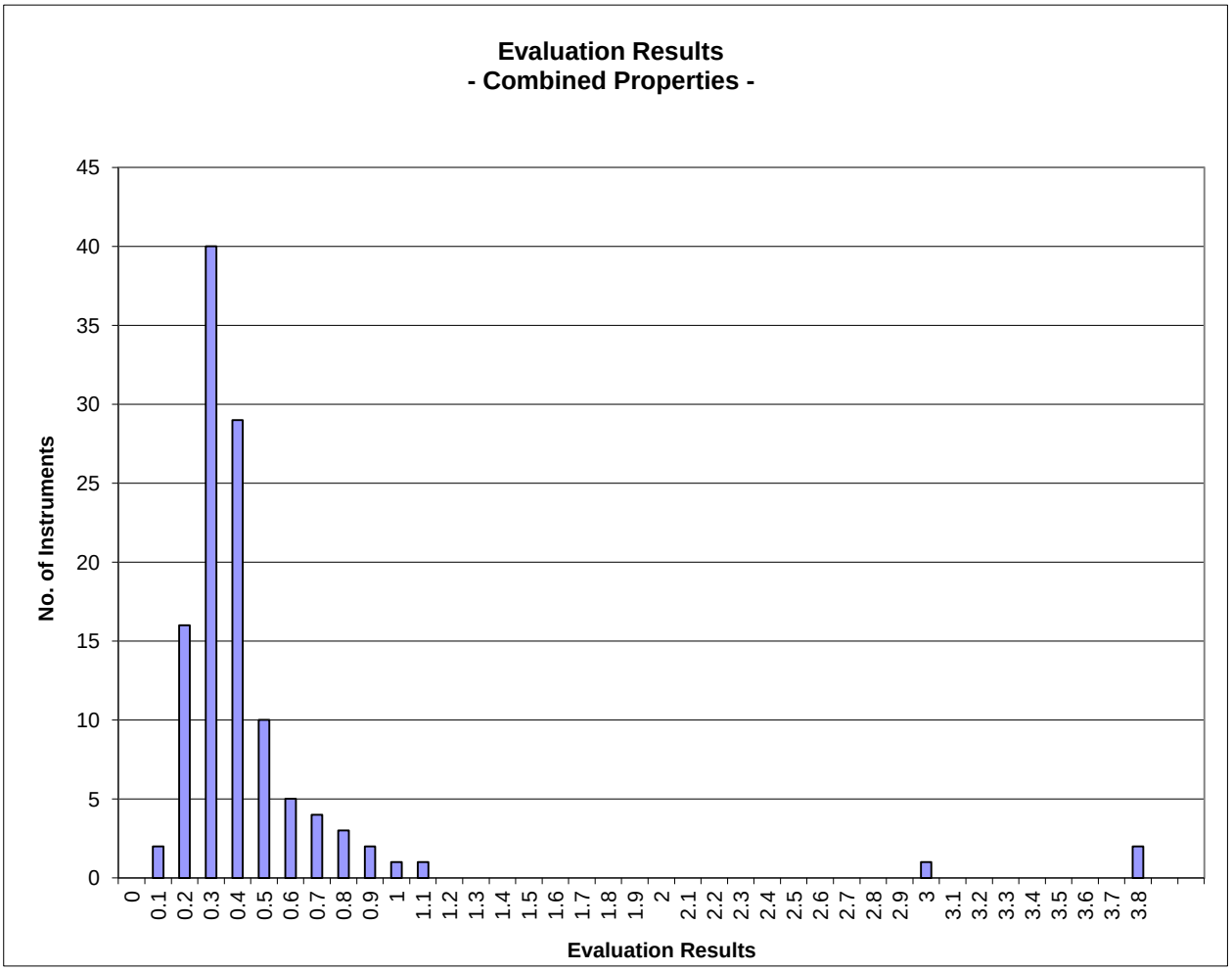
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2017 - 1

		Evaluation Combined Prop.
Statistics	Average	0.47
	Median	0.35
	Best Instrument	0.14
	Worst Instrument	3.79



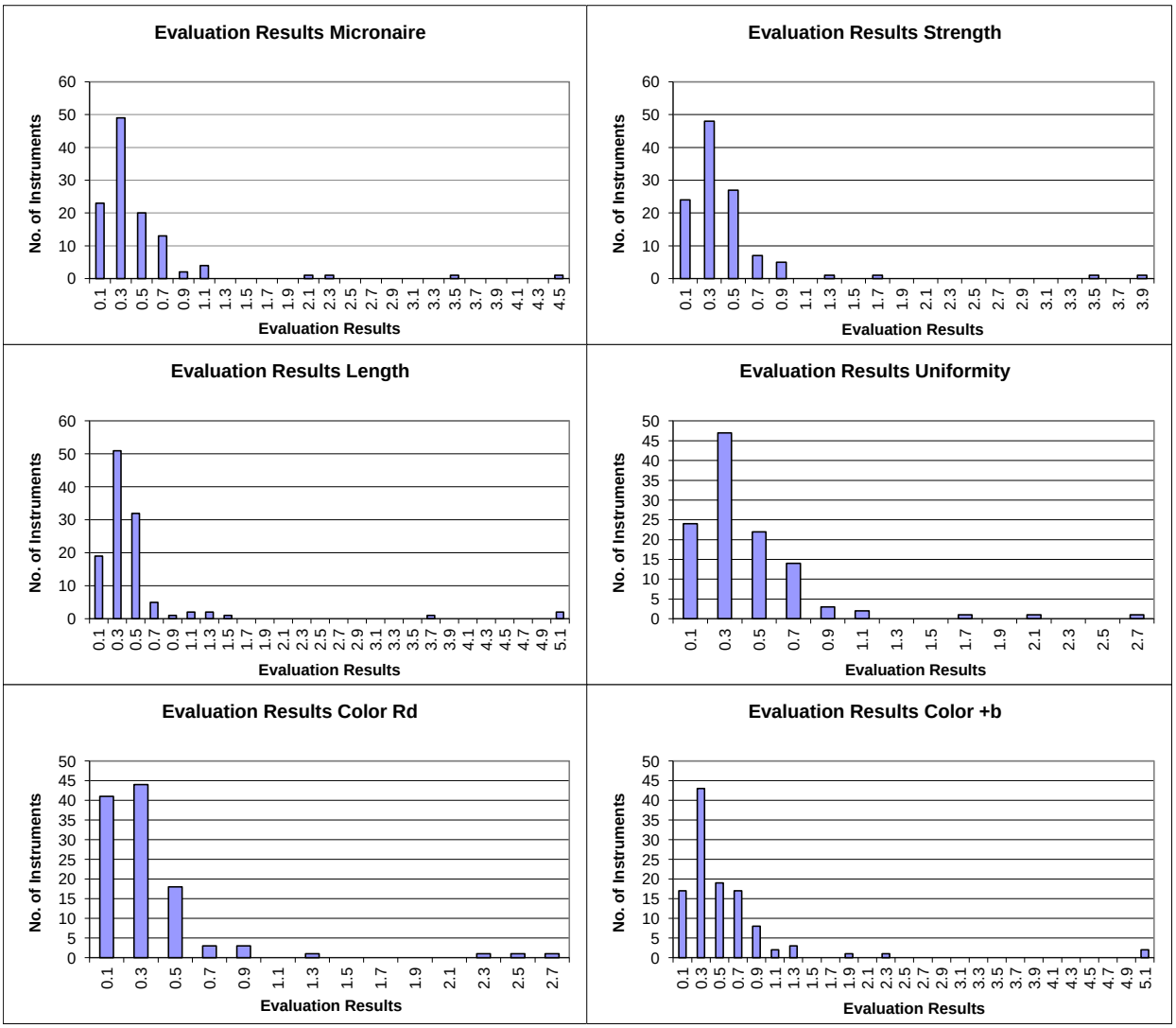
x-Axis shows midpoints of classes

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 2017 - 1

		Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Statistics	Average	0.48	0.44	0.50	0.42	0.36	0.56
	Median	0.35	0.37	0.35	0.32	0.27	0.37
	Best Instr.	0.06	0.05	0.09	0.05	0.04	0.08
	Worst Instr.	4.49	3.93	5.19	2.68	2.62	5.10



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

International Cotton Advisory Committee

CSITC
Global - Round Trial 2017 - 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

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

System Provided by:
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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	97.6	95.7	97.0	98.5	95.4	87.8
Completely within limits	96.5	92.2	94.8	96.5	92.0	69.9
% of Instruments ≥75% within limits	96.5	96.5	96.6	97.4	94.7	90.3
% of Instruments ≥50% within limits	97.4	96.5	97.4	100.0	96.5	94.7

Percentage of Results Within Limits						
Instrument	**Micronaire**	**Strength**	**Length**	**Uniformity**	**Color Rd**	**Color +b**
GL171-001-01	100	100	100	100	100	75
GL171-002-01	100	100	100	100	100	100
GL171-003-01	100	100	100	100	100	100
GL171-004-53	100	100	100	100	100	100
GL171-004-62	100	100	100	100	100	100
GL171-008-01	100	100	100	100	100	100
GL171-011-15	100	100	100	100	100	100
GL171-011-20	100	100	100	100	100	100
GL171-012-01	100	100	100	100	100	100
GL171-013-01	100	100	100	50	100	100
GL171-014-01	100	100	100	100	100	100
GL171-016-01	100	100	100	100	100	100
GL171-017-04	100	100	100	100	100	50
GL171-017-05	100	100	100	100	100	100
GL171-018-01	100	100	100	100	100	100
GL171-018-04	100	100	100	100	100	100
GL171-018-05	100	100	100	100	100	100
GL171-019-01	100	100	100	100	75	100
GL171-019-02	100	100	100	100	100	75
GL171-020-04	100	100	100	100	100	100
GL171-021-04	100	100	100	75	100	75
GL171-022-02	100	100	100	100	100	100
GL171-023-01	100	100	100	100	100	100
GL171-024-30	100	100	100	100	100	100
GL171-025-31	100	100	100	100	100	100
GL171-025-33	100	100	100	100	100	100
GL171-026-01	100	100	100	100	100	100
GL171-028-01	100	100	100	100	100	100
GL171-029-01	100	25	100	100	0	100
GL171-030-01	100	100	100	100	100	100
GL171-030-02	100	100	100	100	100	100
GL171-031-14	100	100	100	100	100	100
GL171-032-14		100	100	100		
GL171-033-01	100	100	100	100	100	100

GL171-033-06	100	100	100	100	100	100
GL171-033-07	100	100	100	100	100	100
GL171-034-02	100	75	100	100		
GL171-034-03	100	100	100	100	100	100
GL171-036-26	100	100	100	100	100	100
GL171-036-34	100	100	100	100	100	100
GL171-037-01	100	100	100	100	100	75
GL171-038-03	100	100	100	100	100	100
GL171-039-01	100	100	100	100	100	100
GL171-041-01	100	100	100	100	100	100
GL171-042-03	100	75	75	100	100	100
GL171-043-01	100	100	100	100	100	100
GL171-045-01	100	100	100	100	100	100
GL171-046-01	100	100	100	100	100	100
GL171-046-02	100	100	100	100	100	100
GL171-046-03	100	100	100	100	100	100
GL171-047-01	100	0	100	100	50	100
GL171-048-01	100	100	100	100	100	100
GL171-049-01	100	100	100	100	100	100
GL171-050-06	100	100	100	100	100	75
GL171-051-01	100	100	100	100	100	100
GL171-051-02	100	100	100	100	100	100
GL171-052-01	100	100	100	100	100	100
GL171-053-01	100	100	100	100	100	100
GL171-055-02	100	100	100	100	100	100
GL171-055-03	100	100	50	100	100	75
GL171-055-06	100	100	100	100	75	50
GL171-055-07	100	100	100	100	100	100
GL171-055-08	100	100	100	100	100	100
GL171-057-02	100	100	100	100	100	100
GL171-058-03	100	100	100	100	100	100
GL171-058-06	100	100	100	100	100	100
GL171-060-01	100	100	100	100	100	75
GL171-061-01	100	100	100	100	100	75
GL171-062-01	100	100	100	100	100	75
GL171-063-03	100	100	100	100	100	100
GL171-064-01	100	100	100	100	100	100
GL171-064-03	100	100	100	100	100	100
GL171-065-02	100	100	100	100	100	75
GL171-066-01	100	100	100	100	100	100
GL171-066-02	100	100	100	100	100	100
GL171-068-01	100	75	75	100	50	75
GL171-069-01	100	100	100	100	100	100
GL171-069-02	100	100	100	100	100	100
GL171-071-01	100	100	100	100	100	75
GL171-072-01	100	100	100	100	100	75
GL171-073-34	100	100	100	100	100	100
GL171-073-36	100	100	100	100	100	100
GL171-074-03	100	100	100	100	100	50
GL171-074-04	100	100	100	100	100	75
GL171-074-05	100	100	100	100	100	50
GL171-075-01	100	100	100	100	100	100
GL171-075-02	100	100	100	100	100	100
GL171-077-01	100	100	100	100	100	75
GL171-077-02	100	75	100	100	75	50

GL171-078-05	50		0			
GL171-080-01	100	100	100	100	100	100
GL171-080-02	100	100	100	100	100	100
GL171-081-01	100	100	100	100	100	100
GL171-082-01	25	100	100	100	100	0
GL171-082-02	100	100	100	100	100	0
GL171-082-03	100	100	100	100	100	25
GL171-083-01	25	0	25	50	25	0
GL171-083-02	100	100	100	100	100	75
GL171-083-03	100	100	100	100	100	100
GL171-083-04	100	75	100	100	100	100
GL171-084-01	100	100	100	100	100	100
GL171-086-01	25	0	25	50	0	0
GL171-087-01	100	100	100	100	25	75
GL171-088-21	100	100	100	100	100	100
GL171-088-25	100	100	100	100	100	100
GL171-089-04	100	100	100	100	100	100
GL171-091-01	100	100	100	100	100	75
GL171-093-01	100	100	100	100	100	100
GL171-094-01	100	100	100	100	100	75
GL171-095-03	100	100	100	100	100	100
GL171-096-01	100	100	100	100	100	75
GL171-096-02	100	100	100	100	100	75
GL171-096-04	100	100	100	100	100	75
GL171-097-01	100	100	100	100	100	100
GL171-098-01	100	100	100	100	100	75
GL171-098-02	100	100	100	100	100	25

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	96.9	93.1	93.8	96.8	93.8	83.7
% of Instruments 100% within limits	67.8	34.8	46.6	53.0	61.1	26.5
% of Instruments ≥95% within limits	93.0	75.7	75.9	85.2	77.0	51.3
% of Instruments ≥75% within limits	96.5	93.0	95.7	96.5	91.2	74.3
% of Instruments ≥65% within limits	96.5	95.7	95.7	97.4	93.8	86.7
% of Instruments ≥50% within limits	97.4	96.5	97.4	100.0	96.5	93.8

Percentage of Results Within Limits						
Instrument	**Micronaire**	**Strength**	**Length**	**Uniformity**	**Color Rd**	**Color +b**
GL171-001-01	100	100	99	100	100	75
GL171-002-01	100	100	98	85	100	95
GL171-003-01	100	100	100	100	100	100
GL171-004-53	100	99	100	100	100	100
GL171-004-62	100	98	100	100	100	99
GL171-008-01	100	85	98	99	92	86
GL171-011-15	100	100	100	100	100	95
GL171-011-20	100	88	100	100	100	100
GL171-012-01	99	93	100	99	86	98
GL171-013-01	93	88	100	58	97	88
GL171-014-01	99	98	100	100	100	83
GL171-016-01	98	99	100	100	100	100
GL171-017-04	100	100	96	99	100	66
GL171-017-05	100	96	93	99	100	75
GL171-018-01	100	100	100	100	100	100
GL171-018-04	100	100	93	100	100	100
GL171-018-05	100	100	100	100	100	100
GL171-019-01	99	100	100	100	68	77
GL171-019-02	100	100	100	100	99	70
GL171-020-04	100	98	98	97	100	97
GL171-021-04	99	97	100	77	98	74
GL171-022-02	100	88	93	93	99	83
GL171-023-01	100	100	100	100	100	99
GL171-024-30	100	99	99	100	100	78
GL171-025-31	98	93	100	99	100	100
GL171-025-33	96	94	98	100	100	100
GL171-026-01	100	98	100	98	99	96
GL171-028-01	100	99	100	99	100	88
GL171-029-01	99	46	83	67	41	85
GL171-030-01	98	98	98	100	100	91

GL171-030-02	98	98	98	100	100	91
GL171-031-14	100	97	100	100	100	100
GL171-032-14		58	85	93		
GL171-033-01	100	100	100	100	100	100
GL171-033-06	100	100	100	100	100	100
GL171-033-07	100	100	100	100	100	100
GL171-034-02	100	73	99	100		
GL171-034-03	100	93	100	100	100	98
GL171-036-26	100	84	100	100	100	100
GL171-036-34	100	98	100	100	100	97
GL171-037-01	100	95	80	93	88	60
GL171-038-03	99	98	99	100	89	98
GL171-039-01	100	98	90	97	100	100
GL171-041-01	100	99	100	100	100	93
GL171-042-03	99	73	60	97	100	80
GL171-043-01	100	90	97	99	100	100
GL171-045-01	100	100	98	96	100	79
GL171-046-01	100	100	99	100	100	99
GL171-046-02	100	99	100	100	100	99
GL171-046-03	100	96	100	100	100	100
GL171-047-01	100	24	83	97	61	98
GL171-048-01	83	99	96	99	99	95
GL171-049-01	100	100	100	100	98	70
GL171-050-06	97	100	95	97	93	68
GL171-051-01	100	100	100	100	100	100
GL171-051-02	100	100	100	99	100	100
GL171-052-01	97	100	87	97	99	98
GL171-053-01	99	91	97	98	100	98
GL171-055-02	100	98	100	100	97	95
GL171-055-03	90	90	58	92	89	77
GL171-055-06	96	78	91	95	58	47
GL171-055-07	100	100	84	99	88	66
GL171-055-08	99	96	97	99	99	98
GL171-057-02	100	100	97	100	96	93
GL171-058-03	100	100	100	100	100	100
GL171-058-06	100	100	100	100	100	100
GL171-060-01	98	99	90	98	93	74
GL171-061-01	100	100	100	100	100	75
GL171-062-01	100	95	81	93	88	58
GL171-063-03	100	97	97	99	99	100
GL171-064-01	100	100	98	100	100	100
GL171-064-03	100	99	92	98	100	93
GL171-065-02	100	95	78	93	88	60
GL171-066-01	100	100	100	100	100	100
GL171-066-02	100	100	100	100	100	100
GL171-068-01	100	72	75	90	63	73
GL171-069-01	100	100	100	100	100	97
GL171-069-02	100	100	100	100	100	99
GL171-071-01	100	95	81	93	88	58
GL171-072-01	98	98	89	98	98	70
GL171-073-34	99	95	100	98	100	100
GL171-073-36	99	95	98	99	100	100
GL171-074-03	100	99	90	100	100	64
GL171-074-04	100	100	93	100	100	71
GL171-074-05	100	100	98	100	100	52

GL171-075-01	100	98	100	100	100	100
GL171-075-02	100	100	100	100	100	100
GL171-077-01	97	100	95	97	93	68
GL171-077-02	98	79	85	99	69	58
GL171-078-05	61		4			
GL171-080-01	100	99	97	99	100	92
GL171-080-02	100	95	98	99	100	95
GL171-081-01	100	100	100	100	100	99
GL171-082-01	44	98	99	97	81	1
GL171-082-02	98	85	100	100	74	5
GL171-082-03	95	99	100	100	94	34
GL171-083-01	25	0	25	50	25	0
GL171-083-02	100	100	100	100	100	75
GL171-083-03	100	93	100	99	94	96
GL171-083-04	100	77	100	100	99	98
GL171-084-01	100	88	99	99	100	89
GL171-086-01	25	4	25	55	23	0
GL171-087-01	83	96	95	93	20	55
GL171-088-21	100	99	99	100	100	98
GL171-088-25	100	99	100	100	100	94
GL171-089-04	98	99	92	93	98	100
GL171-091-01	99	98	97	96	100	79
GL171-093-01	98	100	100	100	100	95
GL171-094-01	100	100	100	100	100	75
GL171-095-03	100	100	98	100	99	99
GL171-096-01	100	92	98	99	93	68
GL171-096-02	100	97	100	100	100	67
GL171-096-04	100	94	99	100	100	73
GL171-097-01	100	99	78	100	98	96
GL171-098-01	99	99	100	96	100	76
GL171-098-02	100	99	100	90	97	33