

DEVELOPMENT OF THE INTERNATIONAL ROUND TRIAL SYSTEM

CHAPTER 3.1

ANNEX C: INSTRUMENT EVALUATION

Project CFC/ICAC/33

Commercial Standardization of Instrument Testing of Cotton with particular consideration of Africa



This project is co-funded by the European Union
and the Common Fund for Commodities





International Cotton Advisory Committee



CSITC
Global - Round Trial 2012 - 1
Instrument Evaluation for: GL121-010-01

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/Rating

Section Three: Within Limits Evaluation

Section One: Instrument Test Results and Detailed Analysis

Content:

- Instrument Test Results and Comparison

- Detailed Analysis of Results
 - Accuracy
 - Precision

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.



Performance of Instrument: GL121-010-01							
		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	4.028	28.591	1.1086	80.341	80.502	9.211
	Cotton 2	2.496	22.116	0.9747	77.432	79.007	12.256
	Cotton 3	4.200	33.990	1.2274	83.689	75.748	11.616
	Cotton 4	4.324	27.981	1.0640	80.548	76.790	9.827
	<i>Cotton 5</i>	<i>4.195</i>	<i>33.960</i>	<i>1.2114</i>	<i>84.581</i>	<i>77.953</i>	<i>11.595</i>
Instrument Average of All Days	Cotton 1	4.113	27.270	1.1160	79.877	78.633	8.967
	Cotton 2	2.622	23.740	0.9916	77.150	76.017	12.543
	Cotton 3	4.238	34.973	1.2415	84.400	72.353	11.753
	Cotton 4	4.402	28.027	1.0798	80.520	73.787	9.903
	<i>Cotton 5</i>	<i>4.249</i>	<i>33.847</i>	<i>1.2192</i>	<i>84.967</i>	<i>75.153</i>	<i>11.870</i>
Distance to Reference	Cotton 1	0.085	-1.321	0.0074	-0.464	-1.869	-0.244
	Cotton 2	0.125	1.624	0.0168	-0.282	-2.990	0.287
	Cotton 3	0.038	0.983	0.0141	0.711	-3.394	0.137
	Cotton 4	0.078	0.046	0.0158	-0.028	-3.004	0.076
	<i>Cotton 5</i>	<i>0.053</i>	<i>-0.114</i>	<i>0.0078</i>	<i>0.385</i>	<i>-2.799</i>	<i>0.275</i>
Mean Absolute Distance to Reference (Cotton 1 - 4 Only)		0.082	0.993	0.0135	0.371	2.814	0.186
Scale Factor		0.10	1.50	0.02	1.00	1.50	0.50
Summary Evaluation for Each Property		0.82	0.66	0.68	0.37	1.88	0.37
Relevance of Property		1.00	1.00	1.00	1.00	1.00	1.00
Summary Evaluation of All Properties		0.80					

Number of outliers in submitted test data:

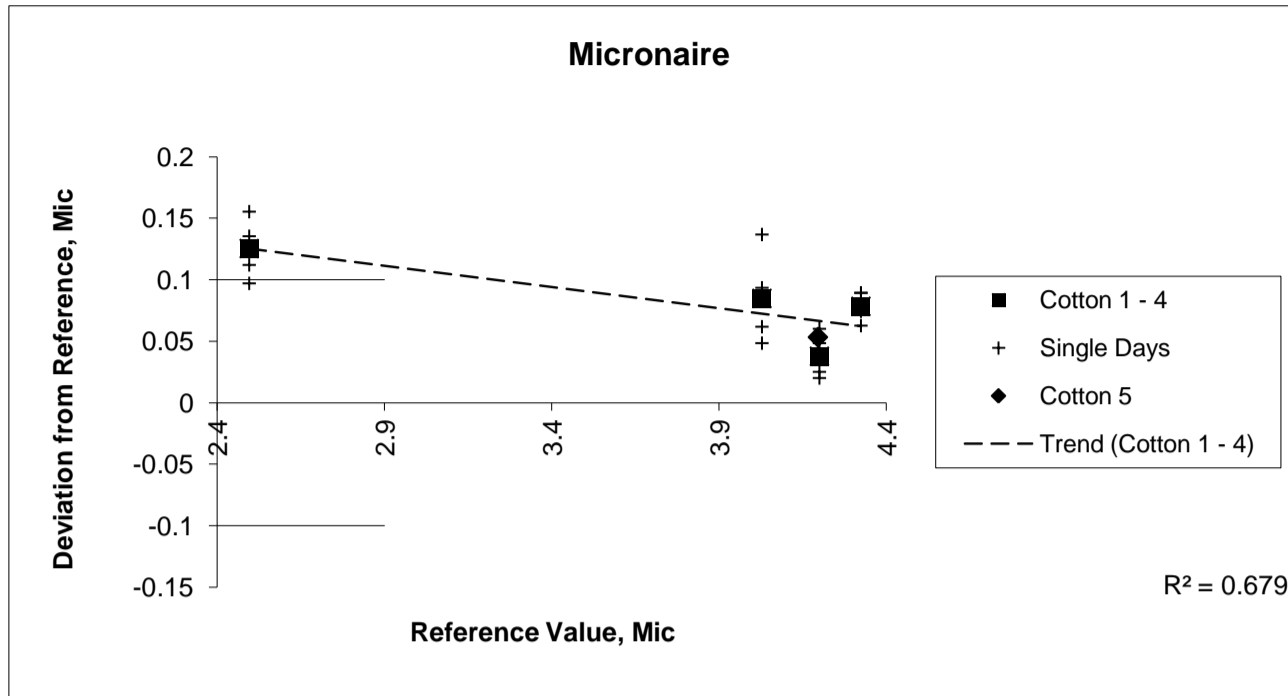
Parameter	Allowed Range	Number of total outliers in your submitted test data
Micronaire	1.5 to 8	0
Strength	15 to 60 g/tex	0
Length	0.7 to 1.7 inches 17.78 to 43.18 mm	0
Uniformity	60 to 100	0
Color Rd	40 to 90	0
Color +b	4 to 18	0
	Total Number	0

Performance of Instrument: GL121-010-01					
		Maturity	SFI	Trash Count	Trash Area
Round Trial Average	Cotton 1	84.414	10.572	15.6184	0.174
	Cotton 2	78.436	15.936	18.2039	0.182
	Cotton 3	84.765	6.773	21.4107	0.188
	Cotton 4	83.534	10.955	13.3227	0.170
	<i>Cotton 5</i>	<i>85.673</i>	<i>6.607</i>	<i>14.4438</i>	<i>0.158</i>
Instrument Average of All Days	Cotton 1	86.367	9.083	11.6667	0.158
	Cotton 2	77.700	12.050	13.4000	0.168
	Cotton 3	90.067	6.097	16.2333	0.203
	Cotton 4	88.300	8.630	10.0000	0.124
	<i>Cotton 5</i>	<i>89.533</i>	<i>6.060</i>	<i>13.0000</i>	<i>0.141</i>
Distance to Round Trial Average	Cotton 1	1.953	-1.489	-3.9517	-0.015
	Cotton 2	-0.736	-3.886	-4.8039	-0.013
	Cotton 3	5.302	-0.676	-5.1774	0.015
	Cotton 4	4.766	-2.325	-3.3227	-0.046
	<i>Cotton 5</i>	<i>3.861</i>	<i>-0.547</i>	<i>-1.4438</i>	<i>-0.018</i>

Number of outliers in submitted test data:

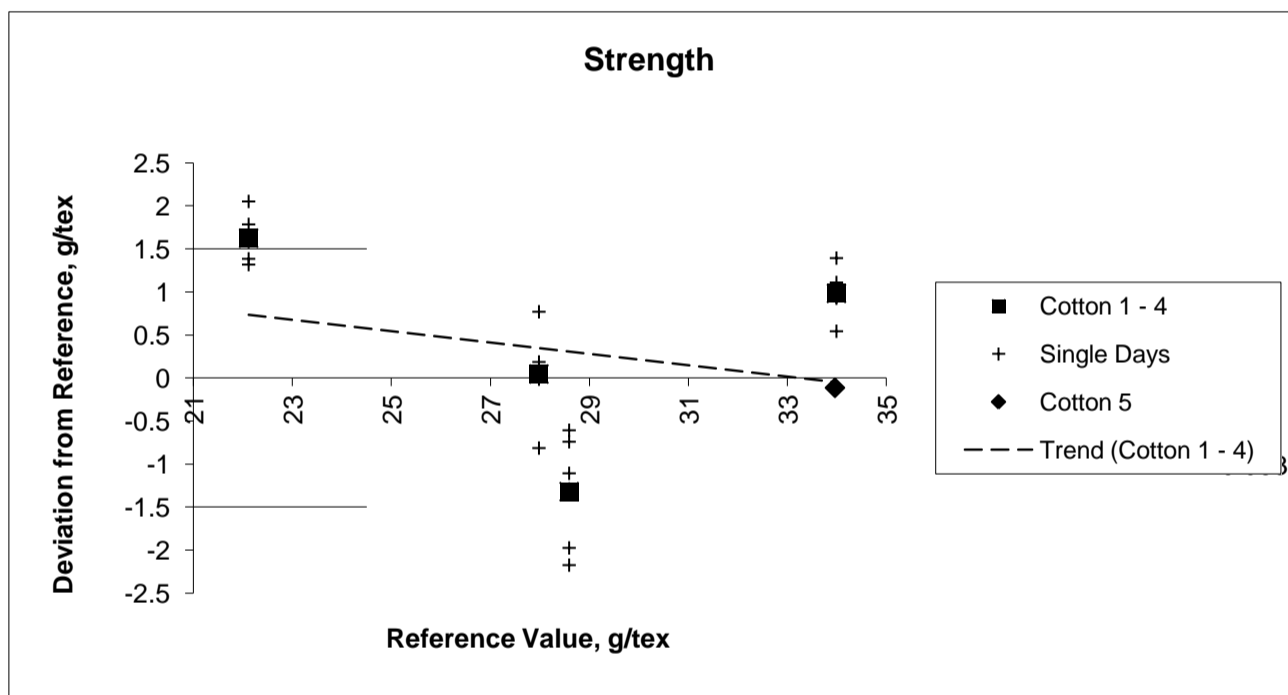
Parameter	Allowed Range	Number of total outliers in your submitted test data
Maturity	20 to 150	0
SFI	2 to 30	0
Trash Count	0 to 10,000	0
Trash Area	0 to 100	0
	Total Number	0

Detailed Analysis
Accuracy Evaluation
Instrument: GL121-010-01



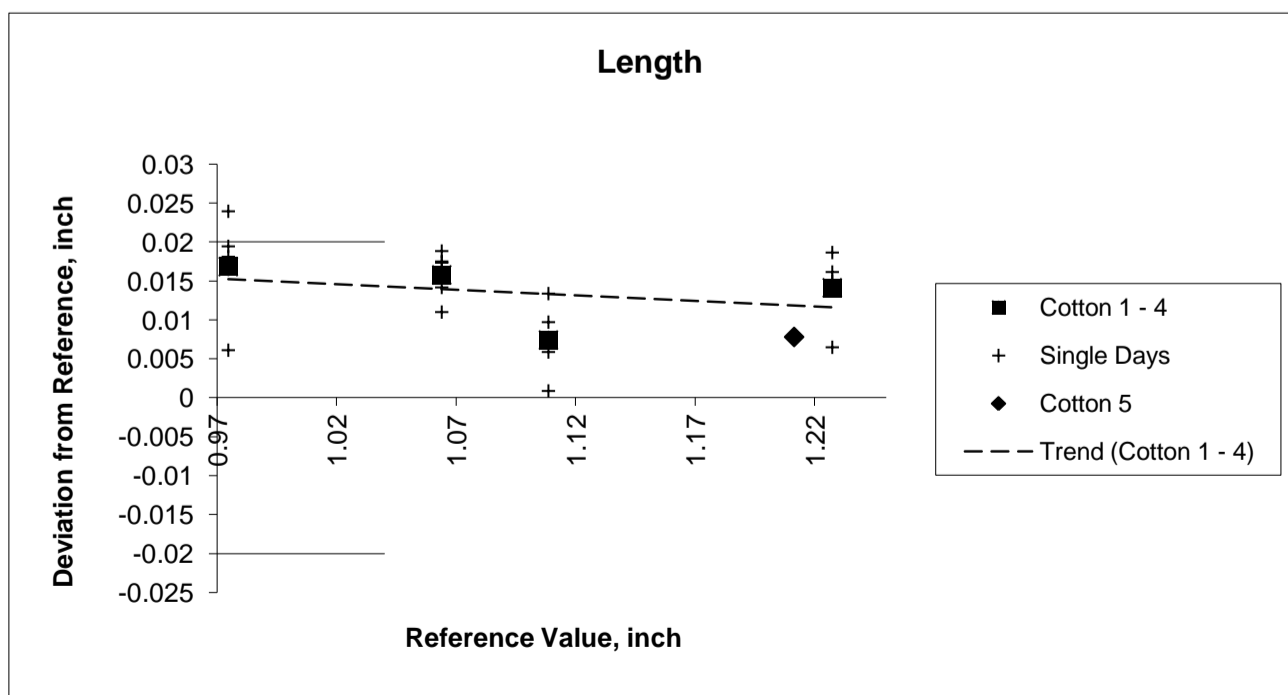
Comments

Offset:
Slope:
Additional:



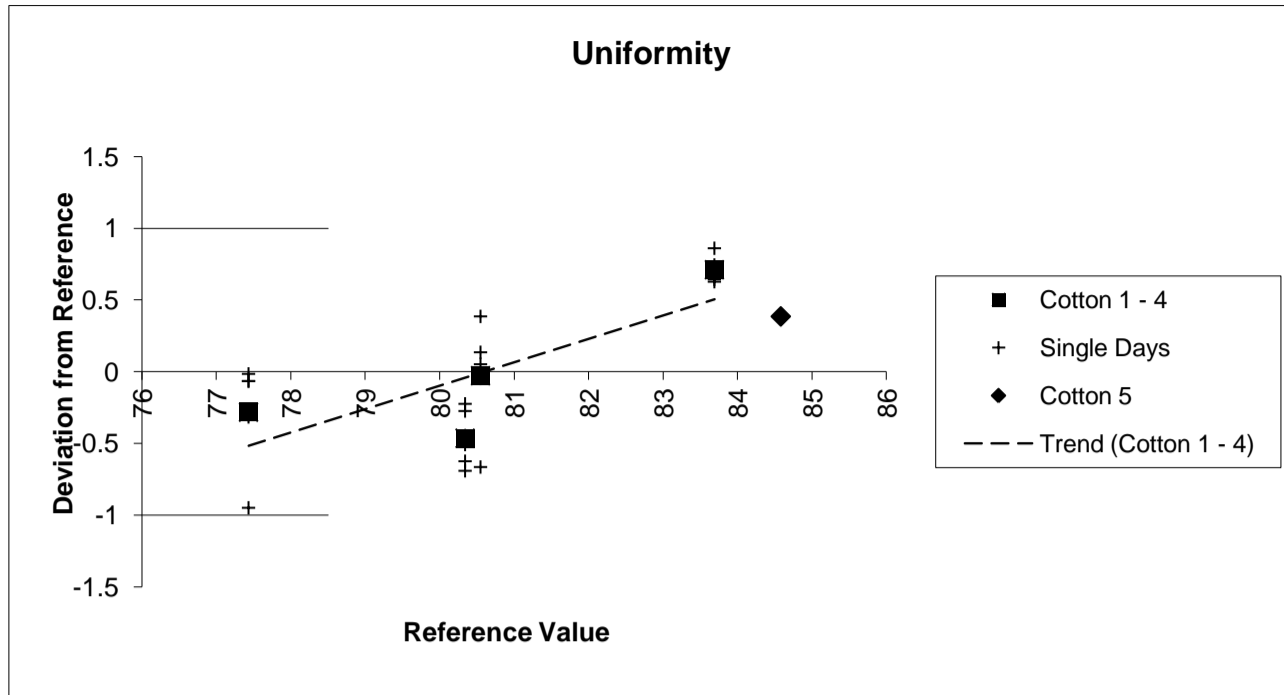
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Slope:
Additional:

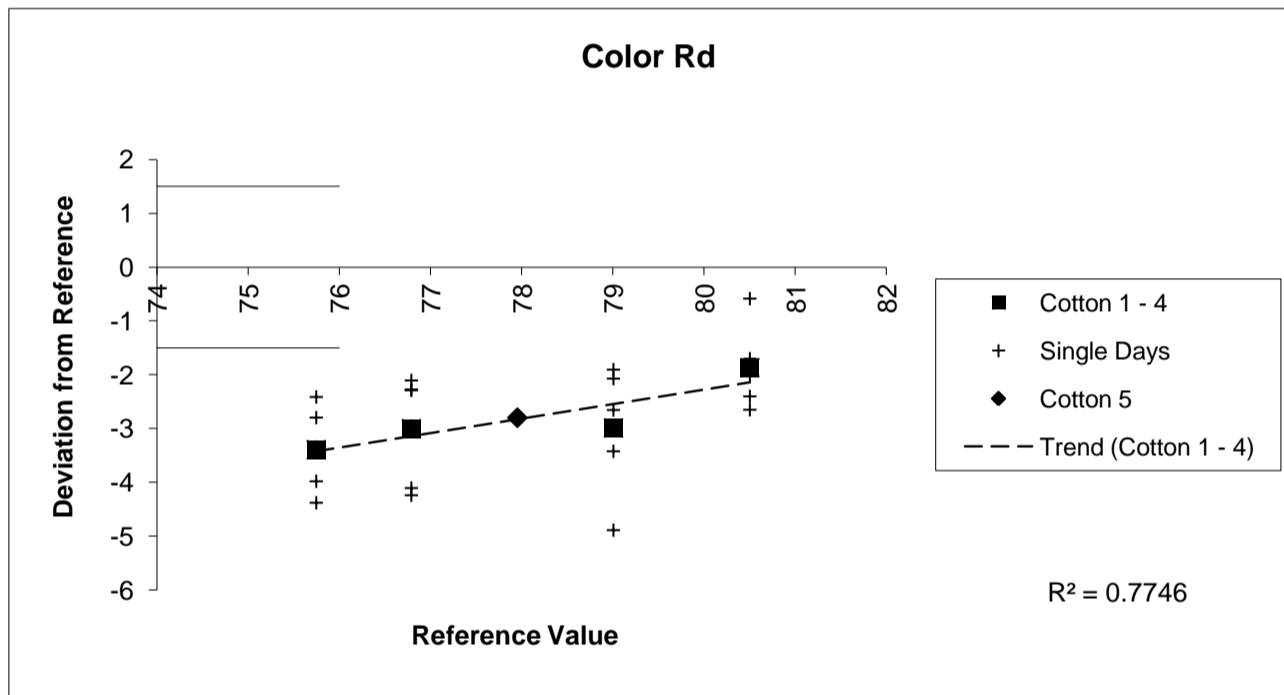


Comments

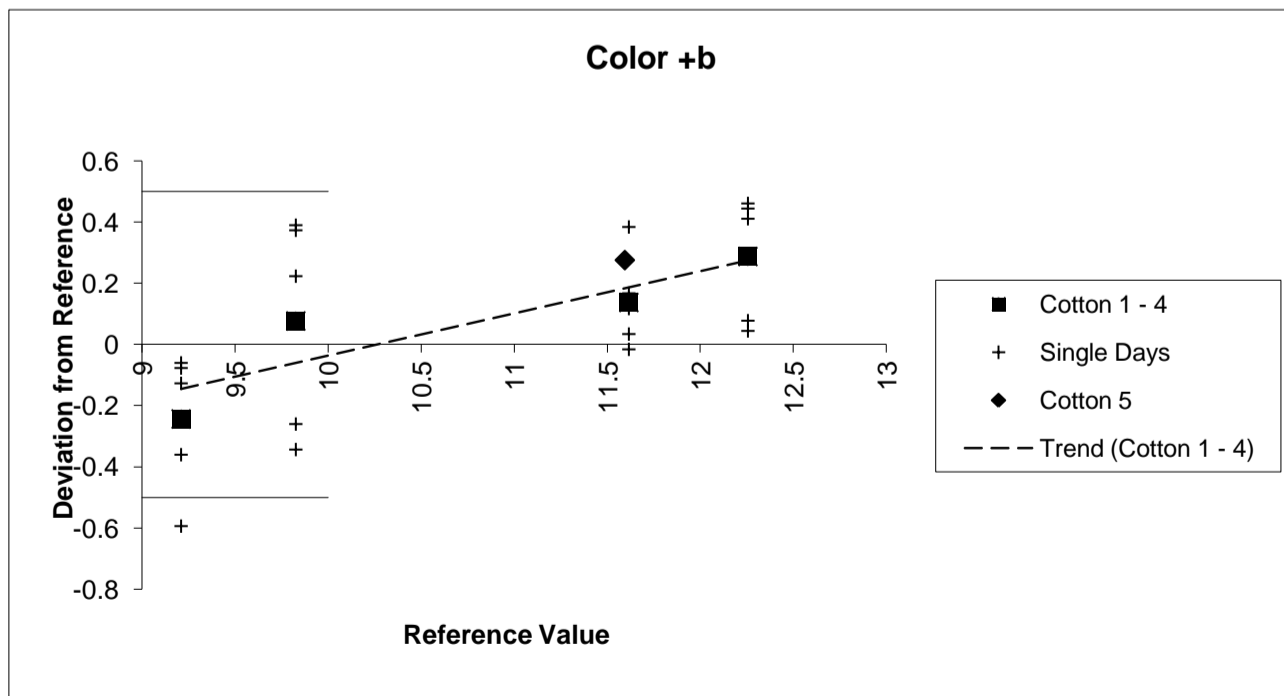
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Comments
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Comments
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Comments
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 Additional:

General Comments:

Detailed Analysis
 Precision Evaluation
 Instrument: GL121-010-01

Micronaire								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			4.028	2.496	4.200	4.324	4.195
between different days each with 6 tests	Median variation of all instruments	SD	0.025	0.025	0.023	0.025	0.028	0.025
	Variation of your instrument	SD	0.021	0.034	0.022	0.017	0.011	0.009
	Ratio (your variation divided by median variation)	-	0.8	1.3	1.0	0.7	0.4	0.3
between single tests on one day	Median variation of all instruments	SD	0.034	0.041	0.026	0.033	0.037	0.039
	Variation of your instrument	SD	0.032	0.033	0.037	0.029	0.030	0.028
	Ratio (your variation divided by median variation)	-	0.9	0.8	1.4	0.9	0.8	0.7
between all tests on different days	Median variation of all instruments	SD	0.043	0.048	0.035	0.043	0.048	0.047
	Variation of your instrument	SD	0.038	0.044	0.045	0.031	0.030	0.028
	Ratio (your variation divided by median variation)	-	0.9	0.9	1.3	0.7	0.6	0.6

Strength								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			28.591	22.116	33.990	27.981	33.960
between different days each with 6 tests	Median variation of all instruments	SD	0.359	0.334	0.346	0.388	0.367	0.373
	Variation of your instrument	SD	0.473	0.715	0.300	0.309	0.568	0.547
	Ratio (your variation divided by median variation)	-	1.3	2.1	0.9	0.8	1.5	1.5
between single tests on one day	Median variation of all instruments	SD	0.553	0.598	0.462	0.618	0.533	0.605
	Variation of your instrument	SD	0.789	0.796	0.653	0.881	0.827	0.775
	Ratio (your variation divided by median variation)	-	1.4	1.3	1.4	1.4	1.6	1.3
between all tests on different days	Median variation of all instruments	SD	0.667	0.693	0.581	0.730	0.664	0.766
	Variation of your instrument	SD	0.904	0.991	0.710	0.957	0.959	0.904
	Ratio (your variation divided by median variation)	-	1.4	1.4	1.2	1.3	1.4	1.2

Length								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			1.109	0.975	1.227	1.064	1.211
between different days each with 6 tests	Median variation of all instruments	SD	0.005	0.005	0.006	0.006	0.005	0.005
	Variation of your instrument	SD	0.005	0.005	0.007	0.005	0.003	0.004
	Ratio (your variation divided by median variation)	-	0.9	0.9	1.2	0.8	0.6	0.9
between single tests on one day	Median variation of all instruments	SD	0.010	0.010	0.010	0.010	0.009	0.009
	Variation of your instrument	SD	0.012	0.013	0.013	0.012	0.010	0.013
	Ratio (your variation divided by median variation)	-	1.2	1.2	1.3	1.2	1.0	1.5
between all tests on different days	Median variation of all instruments	SD	0.011	0.011	0.012	0.011	0.011	0.010
	Variation of your instrument	SD	0.012	0.013	0.014	0.012	0.010	0.013
	Ratio (your variation divided by median variation)	-	1.1	1.1	1.2	1.1	0.9	1.3

Uniformity								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			80.341	77.432	83.689	80.548	84.581
between different days each with 6 tests	Median variation of all instruments	SD	0.285	0.286	0.325	0.256	0.272	0.261
	Variation of your instrument	SD	0.271	0.208	0.391	0.095	0.390	0.323
	Ratio (your variation divided by median variation)	-	1.0	0.7	1.2	0.4	1.4	1.2
between single tests on one day	Median variation of all instruments	SD	0.511	0.560	0.527	0.460	0.496	0.437
	Variation of your instrument	SD	0.670	0.774	0.531	0.599	0.778	0.559
	Ratio (your variation divided by median variation)	-	1.3	1.4	1.0	1.3	1.6	1.3
between all tests on different days	Median variation of all instruments	SD	0.584	0.625	0.599	0.509	0.603	0.501
	Variation of your instrument	SD	0.702	0.772	0.624	0.566	0.848	0.608
	Ratio (your variation divided by median variation)	-	1.2	1.2	1.0	1.1	1.4	1.2

Color Rd								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			80.502	79.007	75.748	76.790	77.953
between different days each with 6 tests	Median variation of all instruments	SD	0.209	0.218	0.219	0.201	0.201	0.219
	Variation of your instrument	SD	0.976	0.805	1.217	0.811	1.071	1.349
	Ratio (your variation divided by median variation)	-	4.7	3.7	5.6	4.0	5.3	6.2
between single tests on one day	Median variation of all instruments	SD	0.207	0.243	0.208	0.198	0.181	0.203
	Variation of your instrument	SD	0.978	0.727	1.117	0.921	1.149	0.888
	Ratio (your variation divided by median variation)	-	4.7	3.0	5.4	4.7	6.3	4.4
between all tests on different days	Median variation of all instruments	SD	0.307	0.334	0.310	0.289	0.294	0.306
	Variation of your instrument	SD	1.361	1.008	1.676	1.279	1.480	1.550
	Ratio (your variation divided by median variation)	-	4.4	3.0	5.4	4.4	5.0	5.1

Color +b								
Within Instrument Variation			Average (Cotton 1-4)	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
	Reference Values for Evaluation			9.211	12.256	11.616	9.827	11.595
between different days each with 6 tests	Median variation of all instruments	SD	0.112	0.115	0.122	0.108	0.100	0.128
	Variation of your instrument	SD	0.236	0.230	0.208	0.155	0.353	0.182
	Ratio (your variation divided by median variation)	-	2.1	2.0	1.7	1.4	3.5	1.4
between single tests on one day	Median variation of all instruments	SD	0.108	0.114	0.109	0.110	0.098	0.112
	Variation of your instrument	SD	0.293	0.266	0.214	0.371	0.319	0.247
	Ratio (your variation divided by median variation)	-	2.7	2.3	2.0	3.4	3.2	2.2
between all tests on different days	Median variation of all instruments	SD	0.164	0.166	0.180	0.158	0.150	0.170
	Variation of your instrument	SD	0.378	0.326	0.299	0.401	0.485	0.328
	Ratio (your variation divided by median variation)	-	2.3	2.0	1.7	2.5	3.2	1.9



International Cotton Advisory Committee



CSITC Global - Round Trial 2012 - 1 Instrument Evaluation for: GL121-010-01

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/ Rating

Section Three: Within Limits Evaluation

Section Two: Instrument Evaluation/Rating

Content:

- Overall Evaluation
- Single Property Evaluation

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

System Provided by:
Generation 10 Limited



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



Instrument Evaluation

Instrument: GL121-010-01

- Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2012 - 1

	Instrument No.	Evaluation Combined Prop.
Your Evaluation	GL121-010-01	0.80

		Evaluation Combined Prop.
Statistics	Average	0.57
	Median	0.50
	Best Lab.	0.15
	Worst Lab.	4.93

- table is divided into 2 pages -

No.	Instrument No.	Evaluation Combined Prop.
1	GL121-087-03	0.15
2	GL121-067-03	0.22
3	GL121-017-03	0.24
4	GL121-080-01	0.25
5	GL121-051-01	0.25
6	GL121-082-02	0.26
7	GL121-061-01	0.26
8	GL121-003-01	0.27
9	GL121-080-04	0.28
10	GL121-082-04	0.28
11	GL121-080-05	0.29
12	GL121-049-02	0.29
13	GL121-082-01	0.29
14	GL121-061-02	0.30
15	GL121-034-01	0.30
16	GL121-068-12	0.30
17	GL121-080-03	0.30
18	GL121-001-02	0.31
19	GL121-053-11	0.31
20	GL121-061-04	0.31
21	GL121-076-08	0.31
22	GL121-042-01	0.31
23	GL121-061-05	0.31
24	GL121-082-05	0.32
25	GL121-049-04	0.32
26	GL121-049-05	0.32
27	GL121-081-18	0.33
28	GL121-079-01	0.33
29	GL121-020-01	0.34
30	GL121-049-01	0.34
31	GL121-001-03	0.35
32	GL121-001-01	0.36
33	GL121-038-01	0.36
34	GL121-012-16	0.36
35	GL121-068-23	0.36
36	GL121-071-02	0.37
37	GL121-004-01	0.38
38	GL121-044-01	0.38
39	GL121-004-02	0.39
40	GL121-009-01	0.40
41	GL121-015-01	0.43
42	GL121-056-01	0.44
43	GL121-012-19	0.45
44	GL121-031-01	0.46

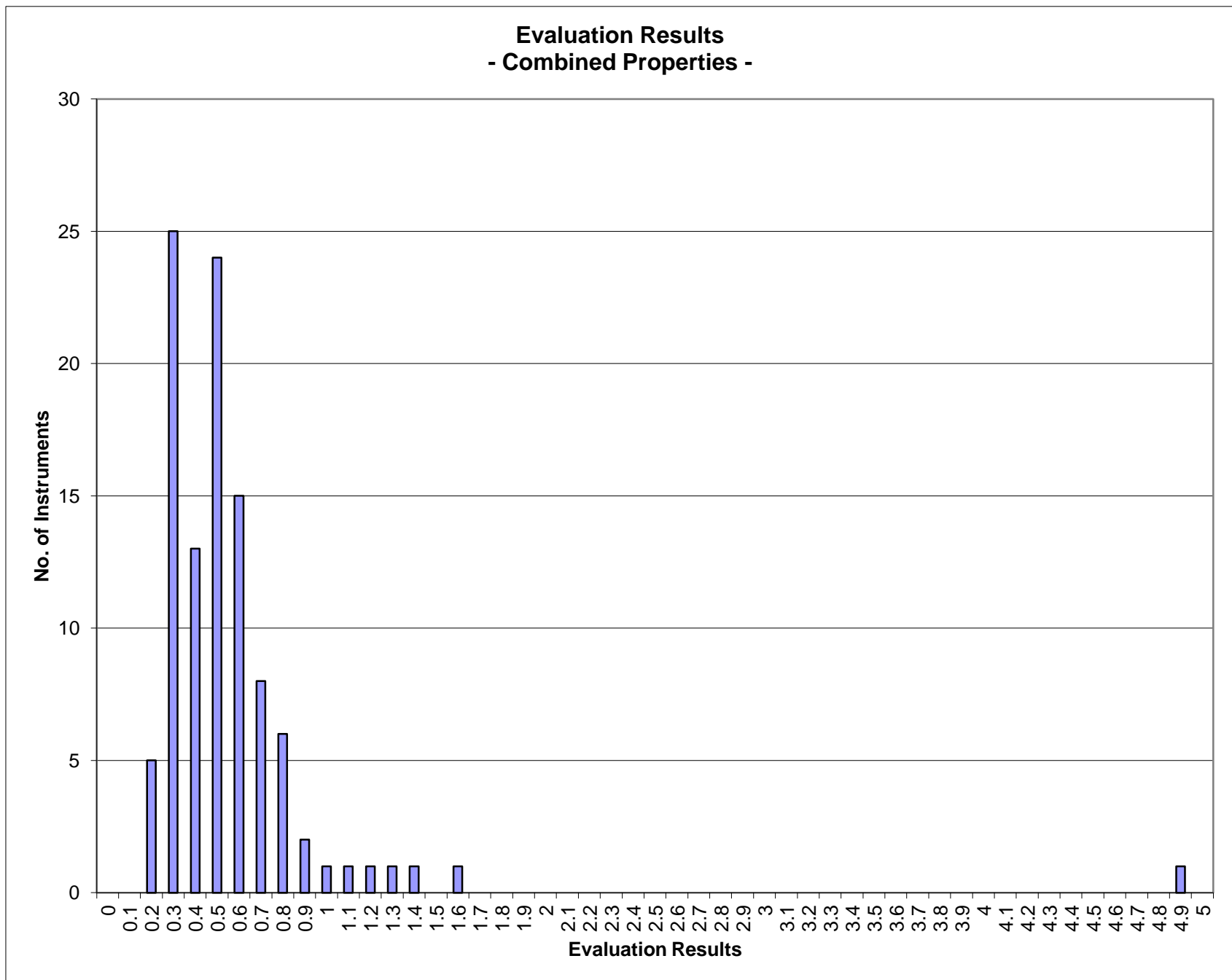
No.	Instrument No.	Evaluation Combined Prop.
45	GL121-072-01	0.46
46	GL121-055-01	0.46
47	GL121-062-02	0.47
48	GL121-081-01	0.48
49	GL121-081-17	0.48
50	GL121-076-01	0.48
51	GL121-046-01	0.49
52	GL121-084-02	0.49
53	GL121-079-02	0.50
54	GL121-050-01	0.50
55	GL121-023-01	0.50
56	GL121-062-01	0.51
57	GL121-064-02	0.51
58	GL121-013-01	0.51
59	GL121-057-01	0.51
60	GL121-048-03	0.52
61	GL121-040-21	0.53
62	GL121-065-01	0.53
63	GL121-066-01	0.54
64	GL121-085-03	0.54
65	GL121-039-02	0.54
66	GL121-039-06	0.55
67	GL121-056-02	0.55
68	GL121-063-01	0.56
69	GL121-017-02	0.57
70	GL121-021-01	0.58
71	GL121-084-01	0.59
72	GL121-077-01	0.59
73	GL121-057-02	0.59
74	GL121-029-01	0.61
75	GL121-075-01	0.62
76	GL121-040-40	0.62
77	GL121-086-01	0.62
78	GL121-071-04	0.62
79	GL121-078-01	0.62
80	GL121-047-02	0.63
81	GL121-071-07	0.64
82	GL121-013-04	0.64
83	GL121-083-01	0.65
84	GL121-058-01	0.67
85	GL121-014-01	0.67
86	GL121-018-01	0.68
87	GL121-053-19	0.68
88	GL121-013-02	0.69
89	GL121-073-11	0.72
90	GL121-011-01	0.72
91	GL121-047-01	0.75
92	GL121-048-01	0.79
93	GL121-047-03	0.79
94	GL121-010-01	0.80
95	GL121-017-01	0.85
96	GL121-019-01	0.85
97	GL121-013-03	0.85
98	GL121-024-01	0.93
99	GL121-059-01	0.97
100	GL121-085-01	1.15
101	GL121-007-01	1.17
102	GL121-032-01	1.27
103	GL121-060-03	1.38
104	GL121-008-01	1.63
105	GL121-069-01	4.93

Instrument Evaluation
 - Graph of Combined Properties -
 According to ICAC CSITC Task Force Recommendations
 Global - Round Trial 2012 - 1

Instrument: GL121-010-01

	Instrument No.	Evaluation Combined Prop.
Your Evaluation	GL121-010-01	0.80

Statistics		Evaluation Combined Prop.
	Average	0.57
	Median	0.50
	Best Lab.	0.15
	Worst Lab.	4.93



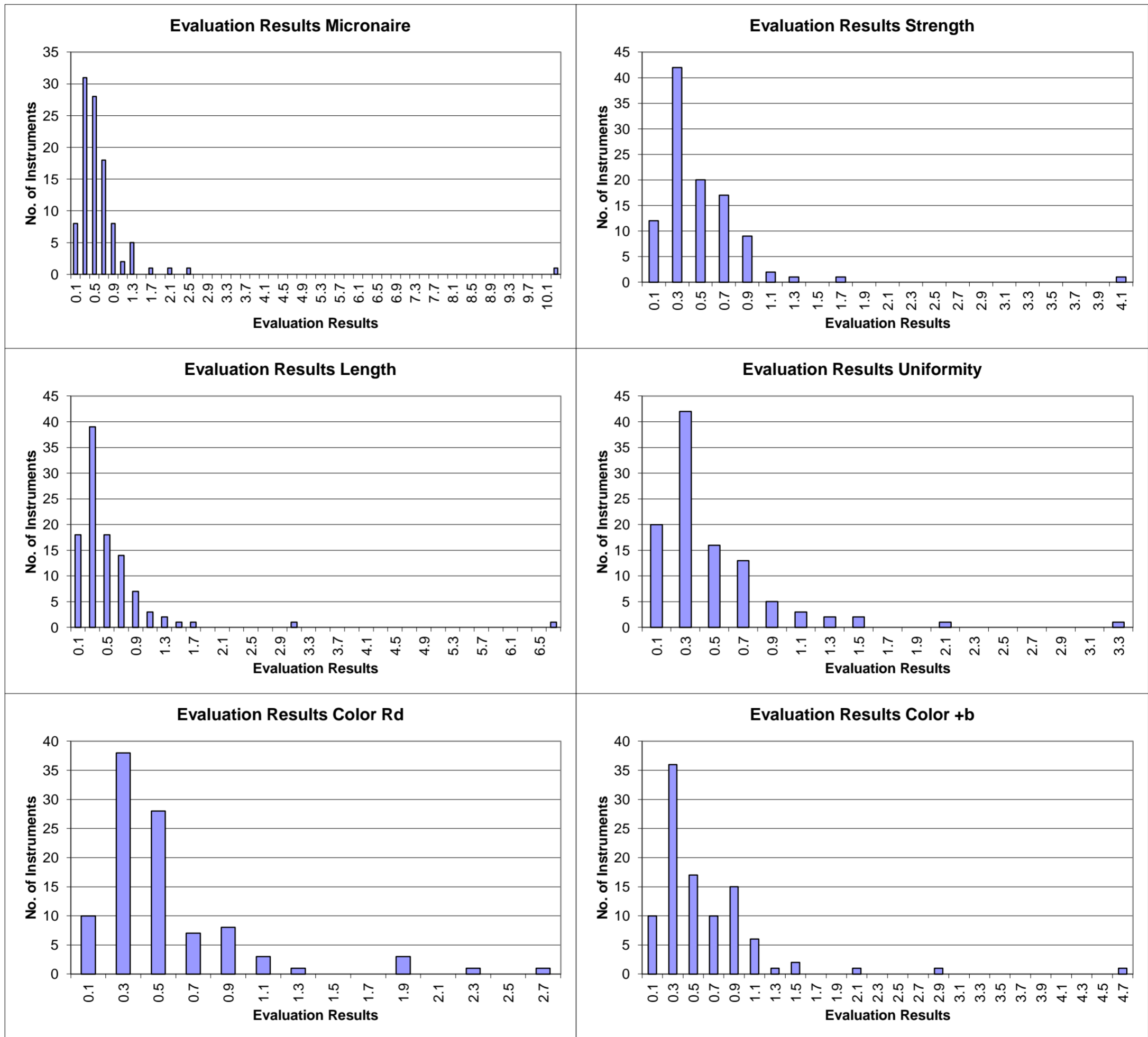
x-Axis shows midpoints of classes
 The evaluation results are entered based on the unrounded values
 (classes are defined as > lower limit and <= upper limit)

No.	Instrument No	Evaluation Micronaire	Instrument No	Evaluation Strength	Instrument No	Evaluation Length	Instrument No	Evaluation Uniformity	Instrument No	Evaluation Color Rd	Instrument No	Evaluation Color +b
62	GL121-019-01	0.56	GL121-040-40	0.48	GL121-083-01	0.43	GL121-084-01	0.40	GL121-049-05	0.45	GL121-081-18	0.56
63	GL121-048-01	0.56	GL121-057-01	0.48	GL121-085-03	0.45	GL121-047-02	0.47	GL121-049-02	0.45	GL121-013-04	0.58
64	GL121-071-02	0.56	GL121-015-01	0.50	GL121-017-02	0.48	GL121-057-02	0.47	GL121-049-04	0.48	GL121-055-01	0.63
65	GL121-063-01	0.57	GL121-071-04	0.50	GL121-044-01	0.49	GL121-009-01	0.48	GL121-046-01	0.48	GL121-072-01	0.64
66	GL121-047-01	0.58	GL121-065-01	0.51	GL121-015-01	0.50	GL121-075-01	0.48	GL121-056-02	0.49	GL121-021-01	0.67
67	GL121-077-01	0.60	GL121-075-01	0.52	GL121-078-01	0.50	GL121-029-01	0.49	GL121-068-23	0.49	GL121-071-07	0.68
68	GL121-013-02	0.61	GL121-013-02	0.52	GL121-064-02	0.51	GL121-038-01	0.49	GL121-049-01	0.49	GL121-012-16	0.74
69	GL121-082-05	0.61	GL121-047-03	0.53	GL121-014-01	0.51	GL121-071-02	0.52	GL121-050-01	0.51	GL121-084-02	0.76
70	GL121-066-01	0.62	GL121-001-01	0.54	GL121-047-01	0.53	GL121-013-04	0.53	GL121-053-19	0.53	GL121-044-01	0.76
71	GL121-068-23	0.63	GL121-078-01	0.54	GL121-062-02	0.54	GL121-085-03	0.53	GL121-012-19	0.54	GL121-048-03	0.78
72	GL121-081-18	0.65	GL121-017-02	0.56	GL121-081-01	0.56	GL121-050-01	0.54	GL121-057-01	0.57	GL121-081-01	0.79
73	GL121-013-04	0.66	GL121-051-01	0.56	GL121-081-17	0.56	GL121-079-01	0.54	GL121-055-01	0.58	GL121-081-17	0.79
74	GL121-084-01	0.66	GL121-050-01	0.57	GL121-013-04	0.56	GL121-078-01	0.56	GL121-013-04	0.58	GL121-048-01	0.81
75	GL121-017-01	0.66	GL121-048-03	0.61	GL121-075-01	0.58	GL121-084-02	0.58	GL121-085-01	0.59	GL121-056-02	0.82
76	GL121-017-02	0.66	GL121-073-11	0.62	GL121-017-01	0.63	GL121-077-01	0.59	GL121-077-01	0.59	GL121-053-19	0.84
77	GL121-058-01	0.68	GL121-064-02	0.62	GL121-029-01	0.63	GL121-003-01	0.59	GL121-083-01	0.61	GL121-073-11	0.84
78	GL121-083-01	0.70	GL121-032-01	0.64	GL121-024-01	0.64	GL121-062-01	0.59	GL121-001-03	0.64	GL121-012-19	0.84
79	GL121-032-01	0.72	GL121-085-03	0.64	GL121-023-01	0.65	GL121-048-03	0.61	GL121-017-02	0.65	GL121-039-02	0.86
80	GL121-024-01	0.73	GL121-071-07	0.65	GL121-013-03	0.67	GL121-008-01	0.65	GL121-013-03	0.67	GL121-039-06	0.88
81	GL121-085-03	0.74	GL121-081-01	0.66	GL121-004-02	0.67	GL121-007-01	0.69	GL121-086-01	0.70	GL121-057-02	0.93
82	GL121-050-01	0.75	GL121-081-17	0.66	GL121-071-04	0.67	GL121-057-01	0.69	GL121-064-02	0.72	GL121-076-08	0.93
83	GL121-056-01	0.75	GL121-010-01	0.66	GL121-010-01	0.68	GL121-063-01	0.70	GL121-072-01	0.78	GL121-085-01	0.93
84	GL121-039-02	0.76	GL121-047-01	0.68	GL121-071-07	0.69	GL121-058-01	0.72	GL121-059-01	0.82	GL121-083-01	0.94
85	GL121-040-40	0.78	GL121-038-01	0.69	GL121-046-01	0.70	GL121-040-40	0.73	GL121-075-01	0.83	GL121-078-01	0.95
86	GL121-010-01	0.82	GL121-059-01	0.69	GL121-048-01	0.71	GL121-053-19	0.73	GL121-079-02	0.89	GL121-075-01	0.95
87	GL121-039-06	0.84	GL121-014-01	0.72	GL121-039-06	0.72	GL121-085-01	0.75	GL121-021-01	0.89	GL121-029-01	0.96
88	GL121-057-01	0.85	GL121-053-19	0.73	GL121-055-01	0.73	GL121-017-02	0.75	GL121-032-01	0.90	GL121-019-01	0.97
89	GL121-057-02	0.85	GL121-048-01	0.76	GL121-039-02	0.73	GL121-024-01	0.77	GL121-062-02	0.91	GL121-079-02	1.00
90	GL121-071-04	0.92	GL121-046-01	0.79	GL121-004-01	0.81	GL121-015-01	0.78	GL121-078-01	0.93	GL121-076-01	1.01
91	GL121-007-01	0.94	GL121-031-01	0.80	GL121-084-02	0.82	GL121-066-01	0.80	GL121-040-40	1.00	GL121-058-01	1.10
92	GL121-059-01	0.97	GL121-057-02	0.82	GL121-008-01	0.86	GL121-011-01	0.82	GL121-071-04	1.07	GL121-024-01	1.10
93	GL121-021-01	0.99	GL121-086-01	0.82	GL121-053-19	0.94	GL121-073-11	0.90	GL121-066-01	1.15	GL121-014-01	1.12
94	GL121-086-01	1.13	GL121-017-01	0.87	GL121-019-01	0.94	GL121-013-01	0.91	GL121-040-21	1.17	GL121-018-01	1.20
95	GL121-009-01	1.18	GL121-085-01	0.89	GL121-013-01	0.99	GL121-013-03	0.94	GL121-062-01	1.26	GL121-059-01	1.21
96	GL121-014-01	1.21	GL121-029-01	0.95	GL121-058-01	1.00	GL121-017-01	0.94	GL121-010-01	1.88	GL121-017-01	1.54
97	GL121-047-02	1.25	GL121-013-04	0.96	GL121-059-01	1.01	GL121-019-01	1.09	GL121-024-01	1.88	GL121-084-01	1.59
98	GL121-071-07	1.28	GL121-013-03	0.98	GL121-007-01	1.04	GL121-059-01	1.10	GL121-007-01	1.98	GL121-007-01	2.02
99	GL121-073-11	1.28	GL121-083-01	0.99	GL121-013-02	1.04	GL121-013-02	1.14	GL121-069-01	2.27	GL121-069-01	2.93
100	GL121-013-03	1.40	GL121-011-01	1.00	GL121-085-01	1.28	GL121-023-01	1.23	GL121-008-01	2.70	GL121-008-01	4.71
101	GL121-018-01	1.71	GL121-056-02	1.03	GL121-063-01	1.38	GL121-047-01	1.23				
102	GL121-047-03	2.16	GL121-077-01	1.05	GL121-065-01	1.53	GL121-060-03	1.48				
103	GL121-085-01	2.45	GL121-019-01	1.21	GL121-060-03	1.78	GL121-048-01	1.50				
104	GL121-069-01	10.21	GL121-060-03	1.78	GL121-032-01	3.10	GL121-032-01	2.01				
105			GL121-069-01	4.17	GL121-069-01	6.63	GL121-069-01	3.38				

Instrument Evaluation Instrument: GL121-010-01
 - Graph of Single Properties -
 According to ICAC CSITC Task Force Recommendations
 Global - Round Trial 2012 - 1

Instrument No	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
GL121-010-01	0.82	0.66	0.68	0.37	1.88	0.37

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0.67	0.50	0.55	0.50	0.53	0.62
Median	0.49	0.39	0.37	0.36	0.40	0.43
Best Instr.	0.08	0.07	0.08	0.10	0.05	0.05
Worst Instr.	10.21	4.17	6.63	3.38	2.70	4.71



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)



International Cotton Advisory Committee



CSITC
Global - Round Trial 2012 - 1
Instrument Evaluation for: GL121-010-01

Section One: Instrument Test Results and Detailed Analysis

Section Two: Instrument Evaluation/ Rating

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:
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.



Within Limits Evaluation

Based on average of 30 test results for each sample

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL121-010-01	100	100	100	100	0	100

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	96.9	95.7	94.8	97.6	88.3	97.5
% of Instruments Completely within limits	93.3	87.6	89.5	94.3	80.0	96.0
% of Instruments ≥75% within limits	96.2	96.2	94.3	98.1	87.0	97.0
% of Instruments ≥50% within limits	99.0	99.0	97.1	98.1	92.0	98.0

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL121-001-01	100	100	100	100	100	100
GL121-001-02	100	100	100	100	100	100
GL121-001-03	100	100	100	100	100	100
GL121-003-01	100	100	100	100	100	100
GL121-004-01	100	100	100	100	100	100
GL121-004-02	100	100	100	100	100	100
GL121-007-01	100	100	75	100	0	50
GL121-008-01	100	100	100	100	0	0
GL121-009-01	75	100	100	100	100	100
GL121-010-01	100	100	100	100	0	100
GL121-011-01		75	100	100		
GL121-012-16	100	100	100	100	100	100
GL121-012-19	100	100	100	100	100	100
GL121-013-01	100	100	75	100	100	100
GL121-013-02	100	100	75	100	100	100
GL121-013-03	100	75	100	100	75	100
GL121-013-04	100	75	100	100	75	100
GL121-014-01	100	100	100	100	100	100
GL121-015-01	100	100	100	100	100	100
GL121-017-01	100	50	100	100	100	100
GL121-017-02	100	100	100	100	100	100
GL121-017-03	100	100	100	100	100	100
GL121-018-01	50	100	100	100	100	100
GL121-019-01	100	75	100	75	100	100
GL121-020-01	100	100	100	100	100	100

GL121-021-01	100	100	100	100	100	100
GL121-023-01	100	100	100	100	100	100
GL121-024-01	100	100	100	100	0	100
GL121-029-01	100	75	100	100	100	100
GL121-031-01	100	100	100	100	100	100
GL121-032-01	100	100	0	25	50	100
GL121-034-01	100	100	100	100	100	100
GL121-038-01	100	75	100	100	100	100
GL121-039-02	100	100	100	100	100	100
GL121-039-06	100	100	100	100	100	100
GL121-040-21	100	100	100	100	0	100
GL121-040-40	100	100	100	100	50	100
GL121-042-01	100	100	100	100	100	100
GL121-044-01	100	100	100	100	100	100
GL121-046-01	100	100	100	100	100	100
GL121-047-01	100	100	100	100		
GL121-047-02	100	100	100	100		
GL121-047-03	50	100	100	100		
GL121-048-01	100	100	100	75	100	100
GL121-048-03	100	100	100	100	100	100
GL121-049-01	100	100	100	100	100	100
GL121-049-02	100	100	100	100	100	100
GL121-049-04	100	100	100	100	100	100
GL121-049-05	100	100	100	100	100	100
GL121-050-01	100	100	100	100	100	100
GL121-051-01	100	100	100	100	100	100
GL121-053-11	100	100	100	100	100	100
GL121-053-19	100	100	100	100	100	100
GL121-055-01	100	100	100	100	100	100
GL121-056-01	100	100	100	100	100	100
GL121-056-02	100	100	100	100	100	100
GL121-057-01	100	100	100	100	100	100
GL121-057-02	100	75	100	100	100	100
GL121-058-01	100	100	75	100	100	100
GL121-059-01	100	100	75	75	75	75
GL121-060-03	100	50	25	75		
GL121-061-01	100	100	100	100	100	100
GL121-061-02	100	100	100	100	100	100
GL121-061-04	100	100	100	100	100	100
GL121-061-05	100	100	100	100	100	100
GL121-062-01	100	100	100	100	25	100
GL121-062-02	100	100	100	100	75	100
GL121-063-01	100	100	50	100	100	100
GL121-064-02	100	100	100	100	100	100
GL121-065-01	100	100	50	100	100	100
GL121-066-01	100	100	100	100	25	100
GL121-067-03	100	100	100	100	100	100
GL121-068-12	100	100	100	100	100	100
GL121-068-23	100	100	100	100	100	100
GL121-069-01	0	25	0	25	0	25
GL121-071-02	100	100	100	100	100	100

GL121-071-04	100	100	100	100	50	100
GL121-071-07	75	100	100	100	100	100
GL121-072-01	100	100	100	100	100	100
GL121-073-11	75	100	100	100	100	100
GL121-075-01	100	100	100	100	50	100
GL121-076-01	100	100	100	100	100	100
GL121-076-08	100	100	100	100	100	100
GL121-077-01	100	75	100	100	100	100
GL121-078-01	100	100	100	100	50	100
GL121-079-01	100	100	100	100	100	100
GL121-079-02	100	100	100	100	75	100
GL121-080-01	100	100	100	100	100	100
GL121-080-03	100	100	100	100	100	100
GL121-080-04	100	100	100	100	100	100
GL121-080-05	100	100	100	100	100	100
GL121-081-01	100	100	100	100	100	100
GL121-081-17	100	100	100	100	100	100
GL121-081-18	100	100	100	100	100	100
GL121-082-01	100	100	100	100	100	100
GL121-082-02	100	100	100	100	100	100
GL121-082-04	100	100	100	100	100	100
GL121-082-05	100	100	100	100	100	100
GL121-083-01	100	75	100	100	75	100
GL121-084-01	100	100	100	100	100	100
GL121-084-02	100	100	100	100	100	100
GL121-085-01	50	50	50	100	75	100
GL121-085-03	100	100	100	100	100	100
GL121-086-01	100	100	100	100	100	100
GL121-087-03	100	100	100	100	100	100

Within Limits Evaluation

Based on Single Test Results

Your Evaluation	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL121-010-01	100	81	93	98	14	97

	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Limits	0.20	2.0	0.030	2.0	1.5	1.0
	units	g/tex	inch	%	units	units
Average % Results within Limits	96.5	90.8	92.8	95.0	86.1	96.04
% of Instruments 100% within limits	59.6	25.7	36.2	46.7	44.0	69.00
% of Instruments \geq 95% within limits	86.5	52.4	69.5	74.3	61.0	85.00
% of Instruments \geq 75% within limits	97.1	89.5	93.3	98.1	84.0	97.00
% of Instruments \geq 65% within limits	97.1	96.2	97.1	98.1	84.0	97.00
% of Instruments \geq 50% within limits	99.0	97.1	97.1	99.0	90.0	98.0

Instrument	Percentage of Results Within Limits					
	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
GL121-001-01	100	94	97	100	100	100
GL121-001-02	98	95	98	100	100	100
GL121-001-03	100	88	99	100	100	100
GL121-003-01	99	98	100	98	100	100
GL121-004-01	100	100	100	100	100	100
GL121-004-02	100	100	100	100	100	100
GL121-007-01	97	97	72	90	0	50
GL121-008-01	98	72	83	83	0	3
GL121-009-01	88	100	97	100	96	100
GL121-010-01	100	81	93	98	14	97
GL121-011-01		48	87	79		
GL121-012-16	99	94	100	100	100	100
GL121-012-19	100	98	100	98	100	99
GL121-013-01	100	88	78	86	93	100
GL121-013-02	99	78	83	79	75	96
GL121-013-03	78	74	78	83	78	99
GL121-013-04	89	67	91	93	80	100
GL121-014-01	96	93	98	99	100	100
GL121-015-01	100	95	93	93	98	100
GL121-017-01	100	63	96	93	95	94
GL121-017-02	100	92	100	96	92	100
GL121-017-03	100	100	100	100	100	100
GL121-018-01	63	96	99	98	100	92

GL121-019-01	99	75	86	88	100	87
GL121-020-01	100	96	98	97	100	100
GL121-021-01	100	97	100	100	78	100
GL121-023-01	100	96	88	80	88	100
GL121-024-01	86	83	78	83	7	93
GL121-029-01	100	75	100	100	100	99
GL121-031-01	100	88	99	100	92	99
GL121-032-01	96	88	28	53	58	100
GL121-034-01	100	98	98	99	99	100
GL121-038-01	100	78	100	99	99	100
GL121-039-02	94	100	89	100	93	92
GL121-039-06	92	99	91	99	96	93
GL121-040-21	100	98	100	97	7	100
GL121-040-40	100	98	100	93	52	100
GL121-042-01	100	96	98	100	100	100
GL121-044-01	100	89	91	98	98	100
GL121-046-01	97	94	97	100	98	100
GL121-047-01	98	85	92	90		
GL121-047-02	84	92	97	97		
GL121-047-03	56	90	100	100		
GL121-048-01	97	87	93	75	94	96
GL121-048-03	99	88	95	89	97	99
GL121-049-01	100	100	100	99	99	100
GL121-049-02	100	100	100	100	100	100
GL121-049-04	100	100	100	100	93	100
GL121-049-05	100	100	100	100	97	100
GL121-050-01	100	91	100	100	100	100
GL121-051-01	100	91	99	97	99	100
GL121-053-11	100	99	99	99	100	100
GL121-053-19	100	92	84	96	98	100
GL121-055-01	100	98	98	100	92	100
GL121-056-01	99	98	100	100	100	100
GL121-056-02	100	74	100	100	100	100
GL121-057-01	99	94	100	100	100	100
GL121-057-02	99	74	100	100	100	98
GL121-058-01	98	93	73	92	100	100
GL121-059-01	100	100	82	78	60	81
GL121-060-03	100	48	37	77		
GL121-061-01	100	100	98	100	100	100
GL121-061-02	100	100	98	100	100	100
GL121-061-04	100	100	99	100	98	100
GL121-061-05	99	100	98	100	100	100
GL121-062-01	98	93	93	94	28	99
GL121-062-02	100	98	96	98	48	100
GL121-063-01	100	98	70	96	94	100
GL121-064-02	99	91	98	100	93	100
GL121-065-01	100	96	65	98	93	100
GL121-066-01	100	100	99	96	28	98
GL121-067-03	100	99	100	100	100	100
GL121-068-12	100	100	100	100	100	100
GL121-068-23	100	100	100	100	100	100

GL121-069-01	9	23	6	26	6	28
GL121-071-02	100	100	97	91	92	100
GL121-071-04	97	91	90	100	48	100
GL121-071-07	98	88	87	100	85	97
GL121-072-01	100	100	100	99	86	100
GL121-073-11	77	89	84	94	78	84
GL121-075-01	100	96	98	100	59	99
GL121-076-01	100	89	100	100	100	100
GL121-076-08	100	95	100	100	100	100
GL121-077-01	100	70	99	94	94	100
GL121-078-01	100	96	98	97	53	99
GL121-079-01	99	98	98	93	99	100
GL121-079-02	98	98	99	99	59	84
GL121-080-01	100	100	100	100	100	100
GL121-080-03	100	100	100	100	100	100
GL121-080-04	99	100	100	100	100	100
GL121-080-05	100	100	100	100	91	100
GL121-081-01	99	93	95	95	100	95
GL121-081-17	99	93	95	95	100	95
GL121-081-18	100	97	100	100	100	100
GL121-082-01	100	100	100	100	100	100
GL121-082-02	98	100	100	100	100	100
GL121-082-04	100	100	100	100	100	100
GL121-082-05	100	100	100	100	100	100
GL121-083-01	100	68	98	100	83	84
GL121-084-01	100	93	88	95	100	83
GL121-084-02	100	87	83	95	96	100
GL121-085-01	88	86	90	88	84	93
GL121-085-03	93	81	98	98	100	100
GL121-086-01	92	81	100	100	99	100
GL121-087-03	100	98	99	100	100	100