



International Cotton Advisory Committee



CSITC Global - Round Trial 2025 - 2 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 2025 - 2

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

| Micronaire | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|--------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 4.130 | 4.254 | 5.046 | 4.137 | |
| Reference Values for Evaluation | | | 4.130 | 4.254 | 5.046 | 4.137 | |
| Number Of Instruments | | | 116 | 115 | 115 | 115 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.065 | 0.051 | 0.061 | 0.056 | 0.058 |
| | | CV % | 1.6 | 1.2 | 1.2 | 1.3 | 1.3 |
| | based on 6 tests | SD | 0.071 | 0.059 | 0.064 | 0.058 | 0.063 |
| | | CV % | 1.7 | 1.4 | 1.3 | 1.4 | 1.4 |
| | based on single tests | SD | 0.078 | 0.065 | 0.068 | 0.065 | 0.069 |
| | | CV % | 1.9 | 1.5 | 1.3 | 1.6 | 1.6 |
| Typical within-instrument Variation (Median) | between different days | SD | 0.023 | 0.019 | 0.017 | 0.020 | 0.020 |
| | with each 6 tests | CV % | 0.6 | 0.4 | 0.3 | 0.5 | 0.5 |
| | between single tests | SD | 0.033 | 0.030 | 0.028 | 0.029 | 0.030 |
| | on one day | CV % | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 |
| | between all tests | SD | 0.042 | 0.037 | 0.037 | 0.036 | 0.038 |
| | on different days | CV % | 1.0 | 0.9 | 0.7 | 0.9 | 0.9 |

| Strength | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|--------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 31.066 | 28.181 | 28.334 | 23.703 | |
| Reference Values for Evaluation | | | 31.066 | 28.181 | 28.334 | 23.703 | |
| Number Of Instruments | | | 116 | 115 | 115 | 115 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.651 | 0.652 | 0.575 | 0.603 | 0.620 |
| | | CV % | 2.1 | 2.3 | 2.0 | 2.5 | 2.2 |
| | based on 6 tests | SD | 0.748 | 0.714 | 0.656 | 0.674 | 0.698 |
| | | CV % | 2.4 | 2.5 | 2.3 | 2.8 | 2.5 |
| | based on single tests | SD | 0.925 | 0.847 | 0.822 | 0.807 | 0.850 |
| | | CV % | 3.0 | 3.0 | 2.9 | 3.4 | 3.1 |
| Typical within-instrument Variation (Median) | between different days | SD | 0.339 | 0.279 | 0.254 | 0.279 | 0.288 |
| | with each 6 tests | CV % | 1.1 | 1.0 | 0.9 | 1.2 | 1.0 |
| | between single tests | SD | 0.569 | 0.472 | 0.472 | 0.492 | 0.501 |
| | on one day | CV % | 1.8 | 1.7 | 1.7 | 2.1 | 1.8 |
| | between all tests | SD | 0.675 | 0.546 | 0.551 | 0.572 | 0.586 |
| | on different days | CV % | 2.2 | 1.9 | 1.9 | 2.4 | 2.1 |

| Length | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|---------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 1.2016 | 1.0673 | 1.1043 | 0.9574 | |
| Reference Values for Evaluation | | | 1.2016 | 1.0673 | 1.1043 | 0.9574 | |
| Number Of Instruments | | | 116 | 115 | 115 | 114 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.0079 | 0.0088 | 0.0076 | 0.0092 | 0.0084 |
| | | CV % | 0.7 | 0.8 | 0.7 | 1.0 | 0.8 |
| | based on 6 tests | SD | 0.0096 | 0.0099 | 0.0095 | 0.0104 | 0.0098 |
| | | CV % | 0.8 | 0.9 | 0.9 | 1.1 | 0.9 |
| | based on single tests | SD | 0.0142 | 0.0144 | 0.0131 | 0.0141 | 0.0139 |
| | | CV % | 1.2 | 1.3 | 1.2 | 1.5 | 1.3 |
| Typical within-instrument Variation (Median) | between different days | SD | 0.0054 | 0.0048 | 0.0049 | 0.0052 | 0.0051 |
| | with each 6 tests | CV % | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 |
| | between single tests | SD | 0.0110 | 0.0089 | 0.0093 | 0.0092 | 0.0096 |
| | on one day | CV % | 0.9 | 0.8 | 0.8 | 1.0 | 0.9 |
| | between all tests | SD | 0.0122 | 0.0100 | 0.0100 | 0.0105 | 0.0107 |
| | on different days | CV % | 1.0 | 0.9 | 0.9 | 1.1 | 1.0 |

| Uniformity | | | | | | | |
|--|--|------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 83.575 | 80.722 | 82.061 | 77.854 | |
| Reference Values for Evaluation | | | 83.575 | 80.722 | 82.061 | 77.854 | |
| Number Of Instruments | | | 116 | 115 | 115 | 115 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.372 | 0.355 | 0.432 | 0.430 | 0.397 |
| | | CV % | 0.4 | 0.4 | 0.5 | 0.6 | 0.5 |
| | based on 6 tests | SD | 0.426 | 0.396 | 0.481 | 0.509 | 0.453 |
| | | CV % | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 |
| | based on single tests | SD | 0.624 | 0.597 | 0.655 | 0.686 | 0.640 |
| | | CV % | 0.7 | 0.7 | 0.8 | 0.9 | 0.8 |
| Typical within-instrument Variation (Median) | between different days with each 6 tests | SD | 0.221 | 0.238 | 0.235 | 0.245 | 0.235 |
| | | CV % | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| | between single tests on one day | SD | 0.509 | 0.465 | 0.474 | 0.504 | 0.488 |
| | | CV % | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| | between all tests on different days | SD | 0.549 | 0.511 | 0.521 | 0.565 | 0.537 |
| | | CV % | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 |

| Color Rd | | | | | | | |
|--|--|------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 77.367 | 75.370 | 76.503 | 77.507 | |
| Reference Values for Evaluation | | | 77.367 | 75.370 | 76.503 | 77.507 | |
| Number Of Instruments | | | 116 | 115 | 115 | 115 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.427 | 0.347 | 0.421 | 0.440 | 0.409 |
| | | CV % | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 |
| | based on 6 tests | SD | 0.489 | 0.384 | 0.450 | 0.446 | 0.442 |
| | | CV % | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 |
| | based on single tests | SD | 0.541 | 0.443 | 0.498 | 0.474 | 0.489 |
| | | CV % | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 |
| Typical within-instrument Variation (Median) | between different days with each 6 tests | SD | 0.171 | 0.103 | 0.128 | 0.117 | 0.130 |
| | | CV % | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 |
| | between single tests on one day | SD | 0.187 | 0.130 | 0.130 | 0.111 | 0.139 |
| | | CV % | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 |
| | between all tests on different days | SD | 0.284 | 0.183 | 0.205 | 0.181 | 0.213 |
| | | CV % | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 |

| Color +b | | | | | | | |
|--|--|------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 10.662 | 9.955 | 11.881 | 13.206 | |
| Reference Values for Evaluation | | | 10.662 | 9.955 | 11.881 | 13.206 | |
| Number Of Instruments | | | 116 | 115 | 115 | 115 | 115 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.250 | 0.246 | 0.290 | 0.278 | 0.266 |
| | | CV % | 2.3 | 2.5 | 2.4 | 2.1 | 2.3 |
| | based on 6 tests | SD | 0.284 | 0.248 | 0.301 | 0.307 | 0.285 |
| | | CV % | 2.7 | 2.5 | 2.5 | 2.3 | 2.5 |
| | based on single tests | SD | 0.308 | 0.259 | 0.319 | 0.340 | 0.307 |
| | | CV % | 2.9 | 2.6 | 2.7 | 2.6 | 2.7 |
| Typical within-instrument Variation (Median) | between different days with each 6 tests | SD | 0.099 | 0.084 | 0.109 | 0.104 | 0.099 |
| | | CV % | 0.9 | 0.8 | 0.9 | 0.8 | 0.9 |
| | between single tests on one day | SD | 0.099 | 0.065 | 0.097 | 0.079 | 0.085 |
| | | CV % | 0.9 | 0.7 | 0.8 | 0.6 | 0.7 |
| | between all tests on different days | SD | 0.161 | 0.109 | 0.155 | 0.136 | 0.140 |
| | | CV % | 1.5 | 1.1 | 1.3 | 1.0 | 1.2 |

Optional Parameters

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

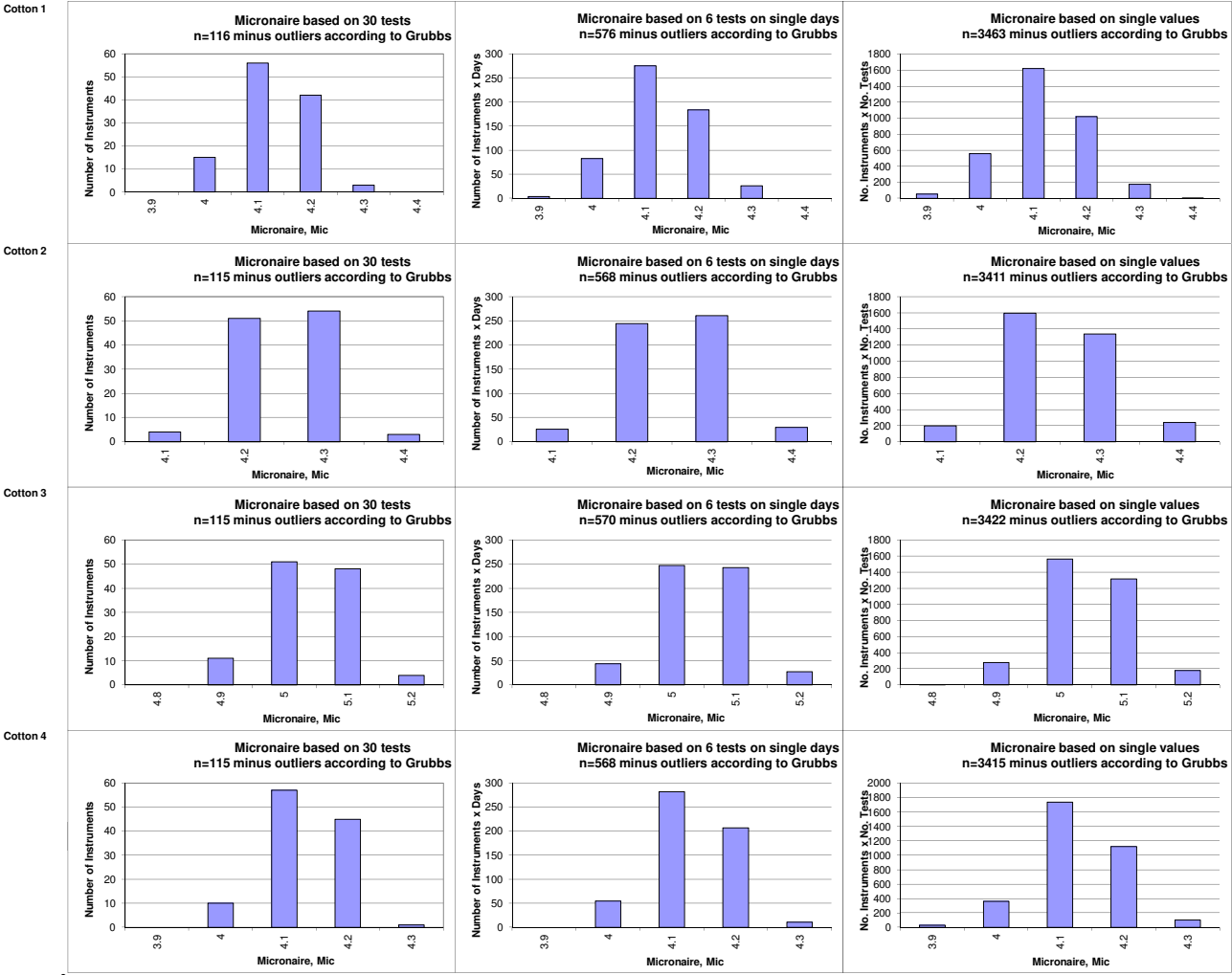
| Trash Count | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|-------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 28.18 | 20.57 | 9.71 | 9.20 | |
| Reference Values for Evaluation | | | 28.18 | 20.57 | 9.71 | 9.20 | |
| Number Of Instruments | | | 96 | 95 | 95 | 95 | 95 |
| Inter-Instrument Variation | based on 30 tests | SD | 4.52 | 3.80 | 2.15 | 2.16 | 3.16 |
| | | CV % | 16.1 | 18.5 | 22.1 | 23.5 | 20.0 |
| | based on 6 tests | SD | 5.14 | 4.35 | 2.51 | 2.35 | 3.59 |
| | | CV % | 18.2 | 21.1 | 25.9 | 25.6 | 22.7 |
| | based on single tests | SD | 5.82 | 4.98 | 3.18 | 2.79 | 4.19 |
| | | CV % | 20.7 | 24.2 | 32.7 | 30.3 | 27.0 |
| Typical within-instrument Variation (Median) | between different days | SD | 2.30 | 1.83 | 1.08 | 1.10 | 1.58 |
| | with each 6 tests | CV % | 8.2 | 8.9 | 11.1 | 11.9 | 10.0 |
| | between single tests | SD | 2.60 | 1.61 | 1.16 | 1.15 | 1.63 |
| | on one day | CV % | 9.2 | 7.8 | 11.9 | 12.5 | 10.4 |
| | between all tests | SD | 3.78 | 3.05 | 1.70 | 1.88 | 2.61 |
| | on different days | CV % | 13.4 | 14.8 | 17.6 | 20.5 | 16.6 |

| Trash Area | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|--------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 0.289 | 0.263 | 0.113 | 0.098 | |
| Reference Values for Evaluation | | | 0.289 | 0.263 | 0.113 | 0.098 | |
| Number Of Instruments | | | 96 | 95 | 95 | 95 | 95 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.061 | 0.062 | 0.033 | 0.019 | 0.044 |
| | | CV % | 21.0 | 23.7 | 29.1 | 19.7 | 23.4 |
| | based on 6 tests | SD | 0.076 | 0.068 | 0.032 | 0.025 | 0.050 |
| | | CV % | 26.3 | 26.0 | 28.6 | 25.1 | 26.5 |
| | based on single tests | SD | 0.090 | 0.082 | 0.040 | 0.029 | 0.060 |
| | | CV % | 31.0 | 31.1 | 35.0 | 29.7 | 31.7 |
| Typical within-instrument Variation (Median) | between different days | SD | 0.041 | 0.031 | 0.013 | 0.012 | 0.024 |
| | with each 6 tests | CV % | 14.1 | 12.0 | 11.9 | 11.8 | 12.4 |
| | between single tests | SD | 0.030 | 0.023 | 0.012 | 0.013 | 0.019 |
| | on one day | CV % | 10.2 | 8.8 | 10.8 | 13.0 | 10.7 |
| | between all tests | SD | 0.060 | 0.046 | 0.024 | 0.020 | 0.038 |
| | on different days | CV % | 20.8 | 17.6 | 20.9 | 20.2 | 19.9 |

| Maturity | | | | | | | |
|--|------------------------|------|----------|----------|----------|----------|-------------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 85.80 | 84.90 | 87.69 | 85.48 | |
| Reference Values for Evaluation | | | 85.80 | 84.90 | 87.69 | 85.48 | |
| Number Of Instruments | | | 96 | 95 | 95 | 95 | 95 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.78 | 0.86 | 0.77 | 0.71 | 0.78 |
| | | CV % | 0.9 | 1.0 | 0.9 | 0.8 | 0.9 |
| | based on 6 tests | SD | 0.75 | 0.87 | 0.77 | 0.72 | 0.78 |
| | | CV % | 0.9 | 1.0 | 0.9 | 0.8 | 0.9 |
| | based on single tests | SD | 0.81 | 0.86 | 0.81 | 0.74 | 0.81 |
| | | CV % | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 |
| Typical within-instrument Variation (Median) | between different days | SD | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 |
| | with each 6 tests | CV % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | between single tests | SD | 0.11 | 0.09 | 0.08 | 0.08 | 0.09 |
| | on one day | CV % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | between all tests | SD | 0.18 | 0.18 | 0.18 | 0.15 | 0.18 |
| | on different days | CV % | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

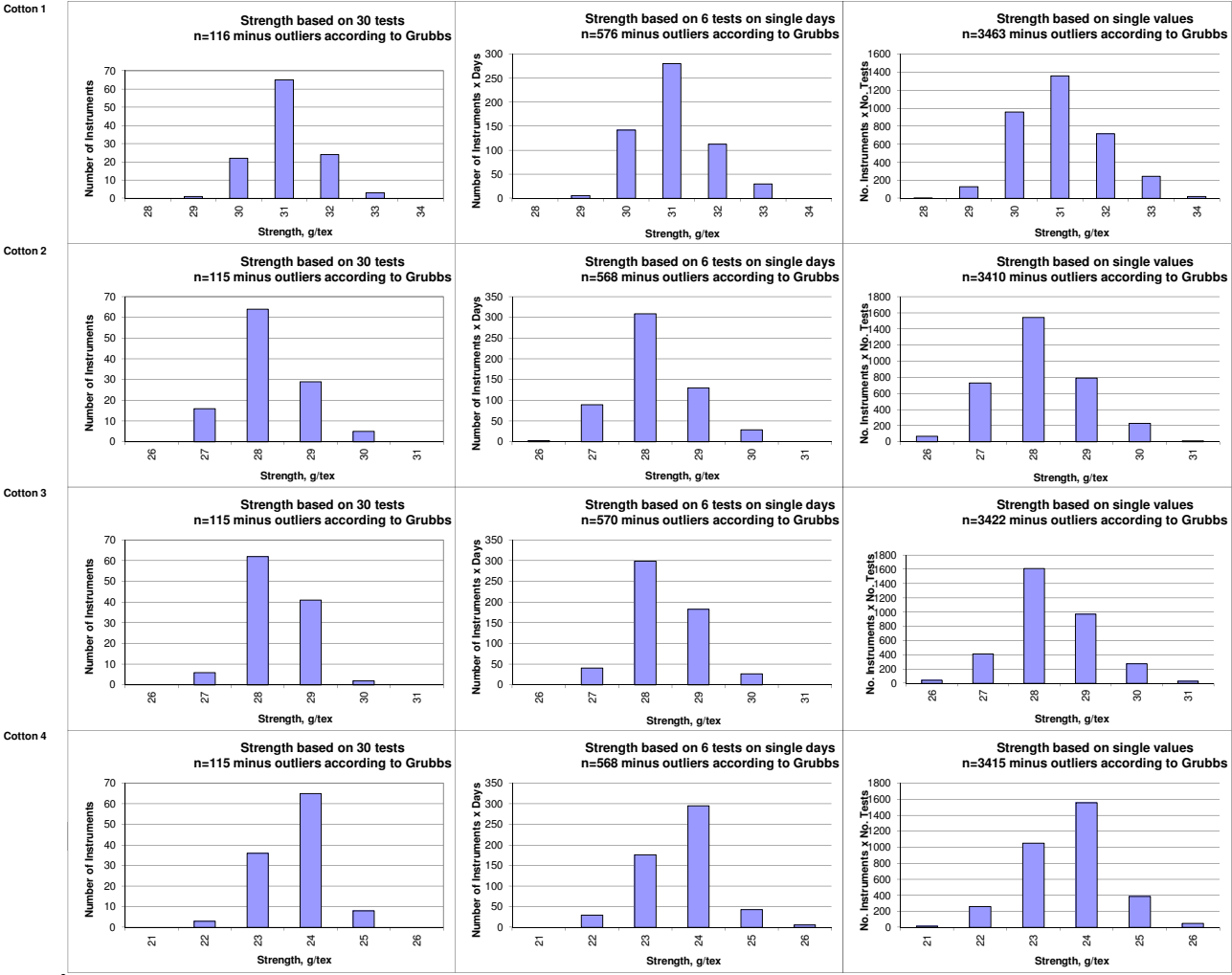
| SFI | | | | | | |
|--|--|------|----------|----------|----------|----------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 |
| Average of Instruments (Grubbs) | | | 7.49 | 10.81 | 9.22 | 16.47 |
| Reference Values for Evaluation | | | 7.49 | 10.81 | 9.22 | 16.47 |
| Number Of Instruments | | | 101 | 100 | 100 | 99 |
| Inter-Instrument Variation | based on 30 tests | SD | 0.67 | 0.88 | 0.71 | 1.70 |
| | | CV % | 9.0 | 8.1 | 7.6 | 10.3 |
| | based on 6 tests | SD | 0.71 | 0.85 | 0.72 | 1.65 |
| | | CV % | 9.5 | 7.9 | 7.8 | 10.0 |
| | based on single tests | SD | 0.80 | 1.05 | 0.86 | 1.97 |
| | | CV % | 10.7 | 9.7 | 9.3 | 12.0 |
| Typical within-instrument Variation (Median) | between different days with each 6 tests | SD | 0.16 | 0.27 | 0.22 | 0.45 |
| | | CV % | 2.1 | 2.5 | 2.4 | 2.7 |
| | between single tests on one day | SD | 0.35 | 0.55 | 0.44 | 0.82 |
| | | CV % | 4.6 | 5.1 | 4.8 | 5.0 |
| | between all tests on different days | SD | 0.39 | 0.62 | 0.50 | 0.93 |
| | | CV % | 5.1 | 5.8 | 5.4 | 5.6 |

Test Result Distributions
Micronaire



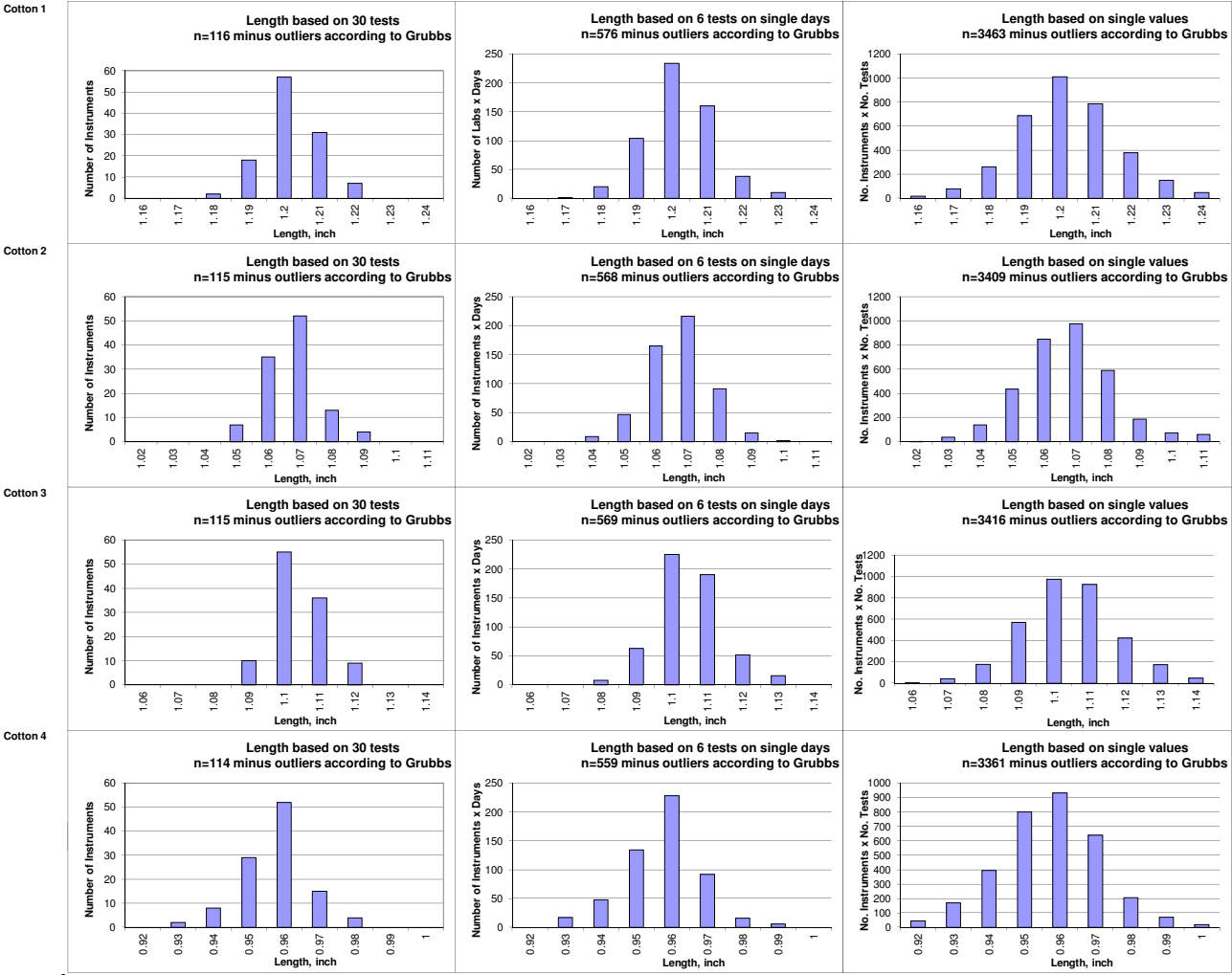
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method.)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Strength



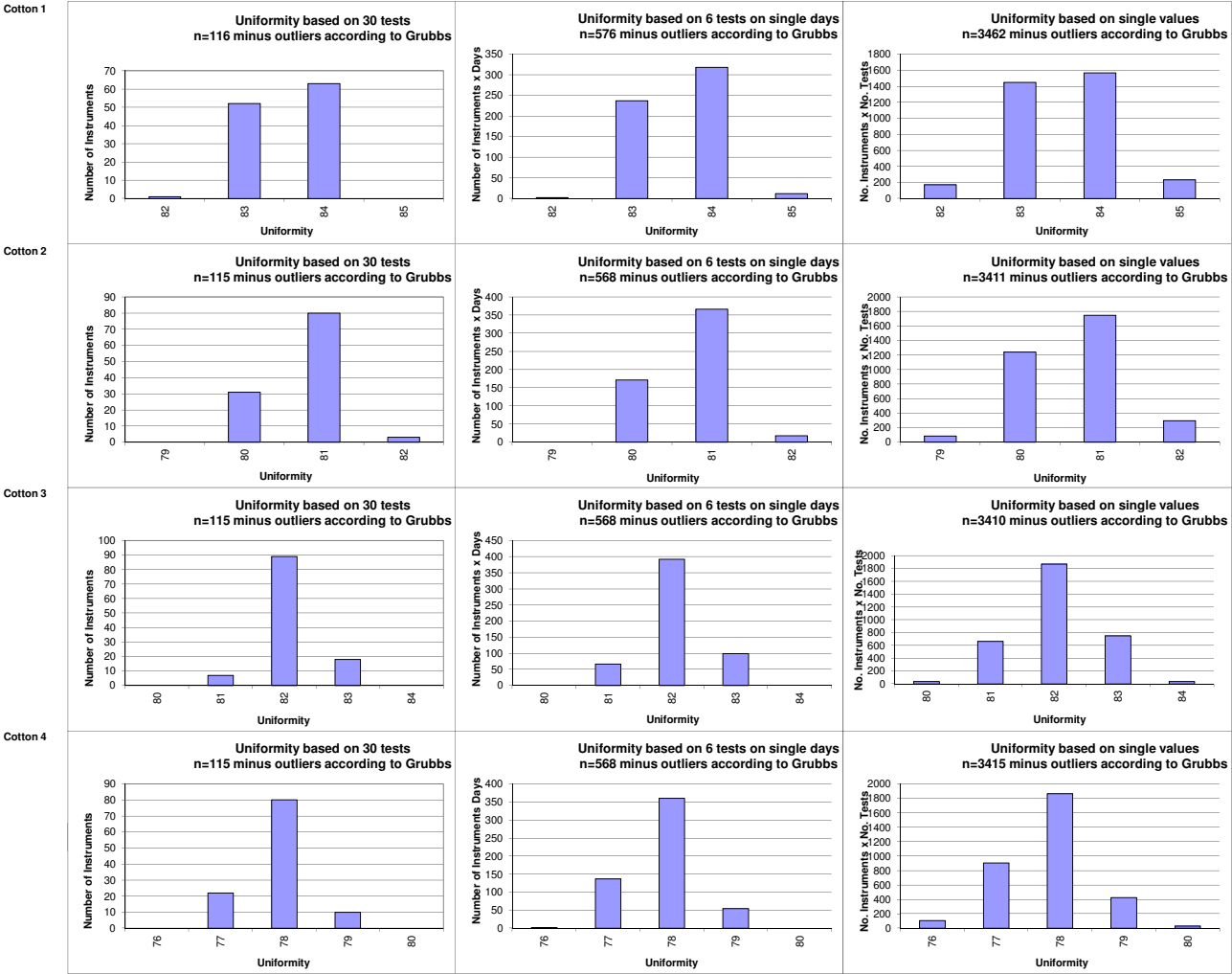
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Length



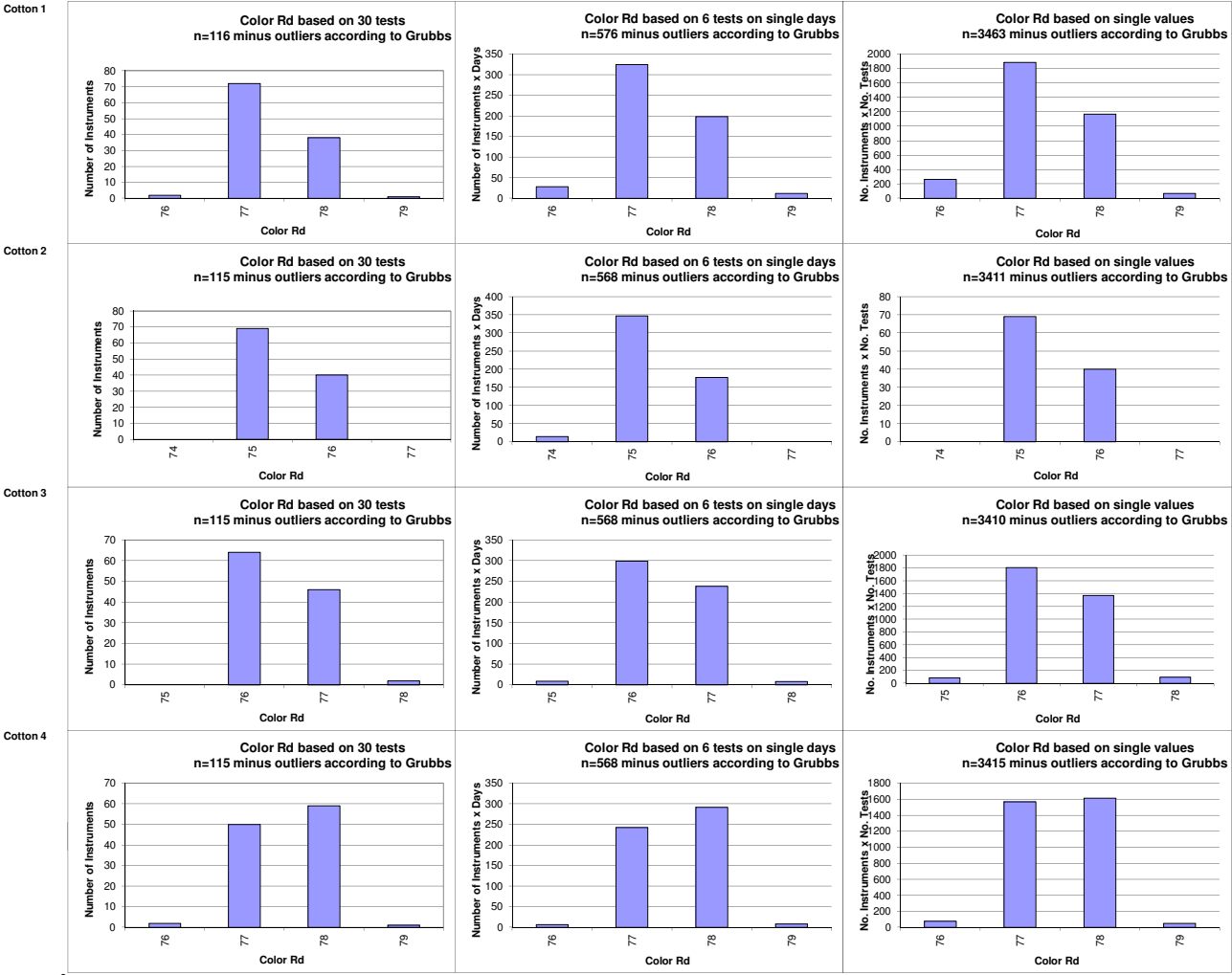
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Uniformity



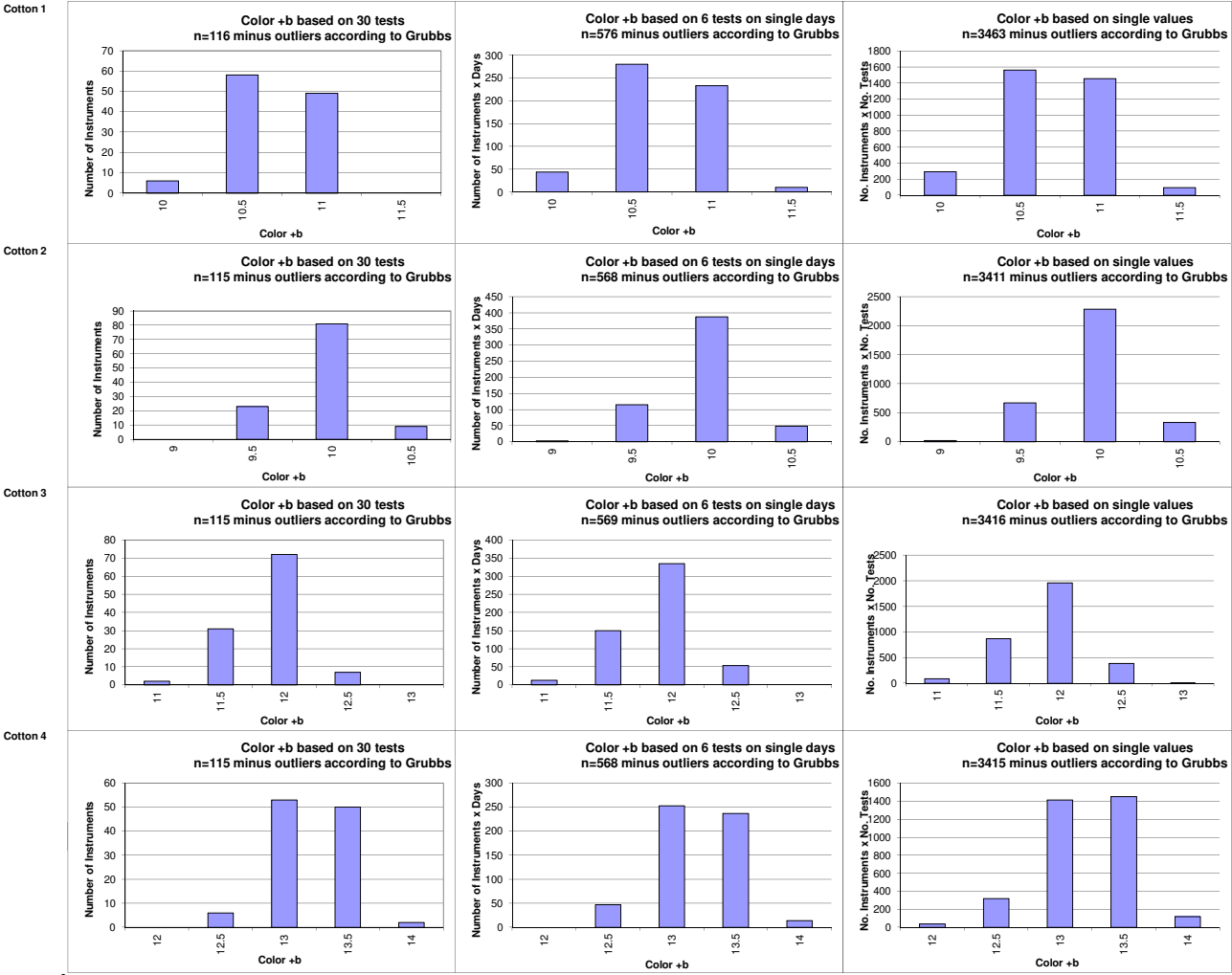
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color Rd



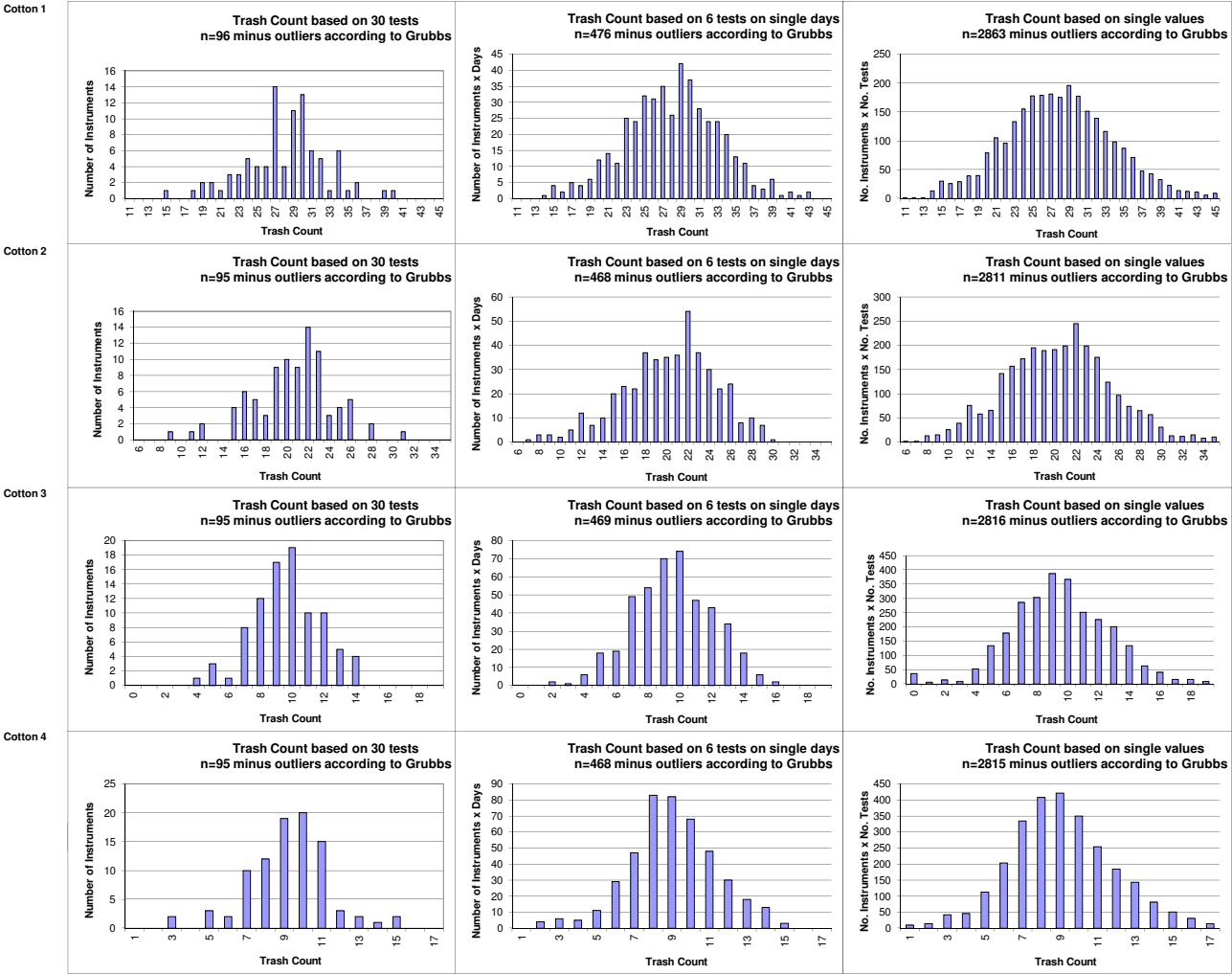
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Color +b



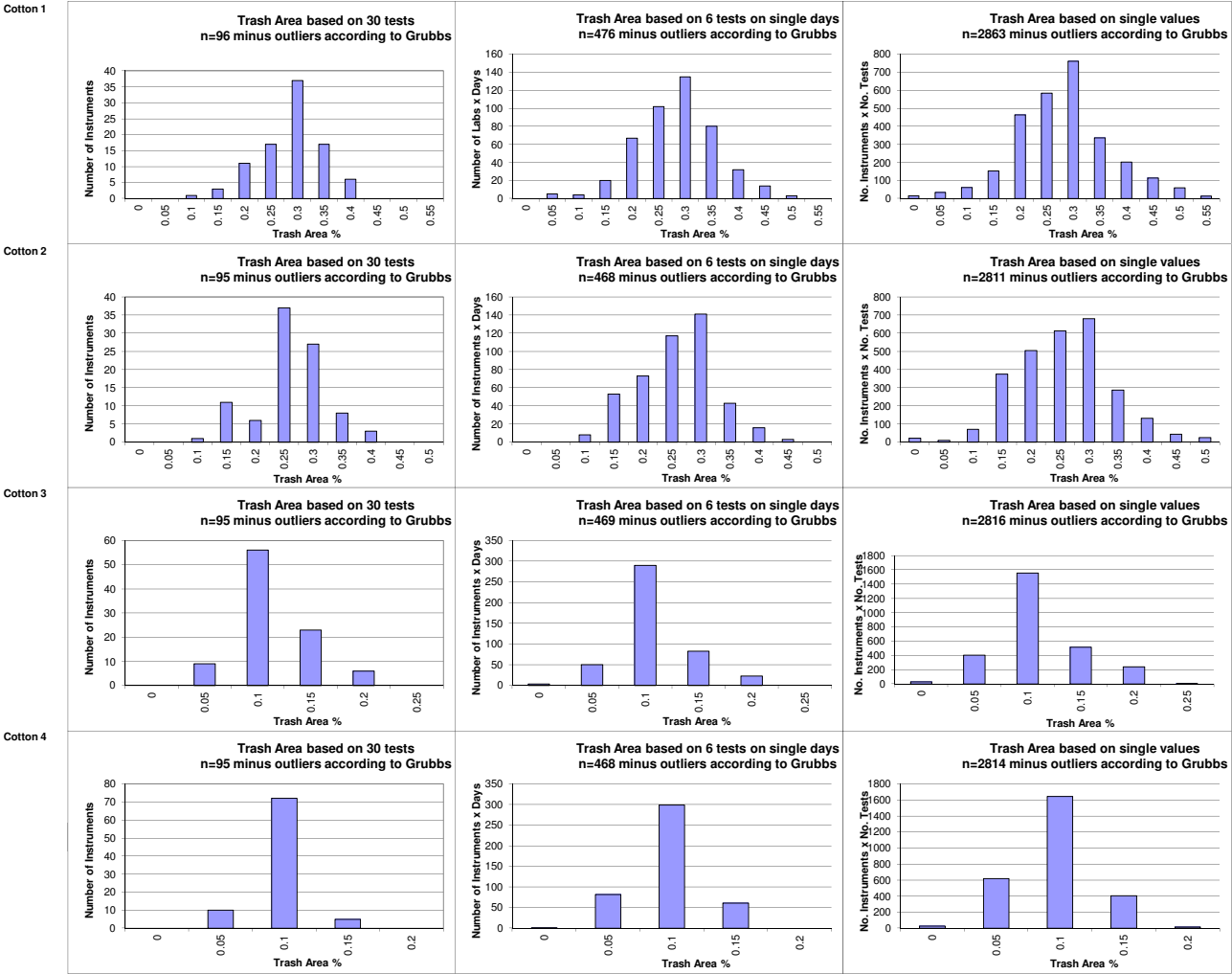
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Count



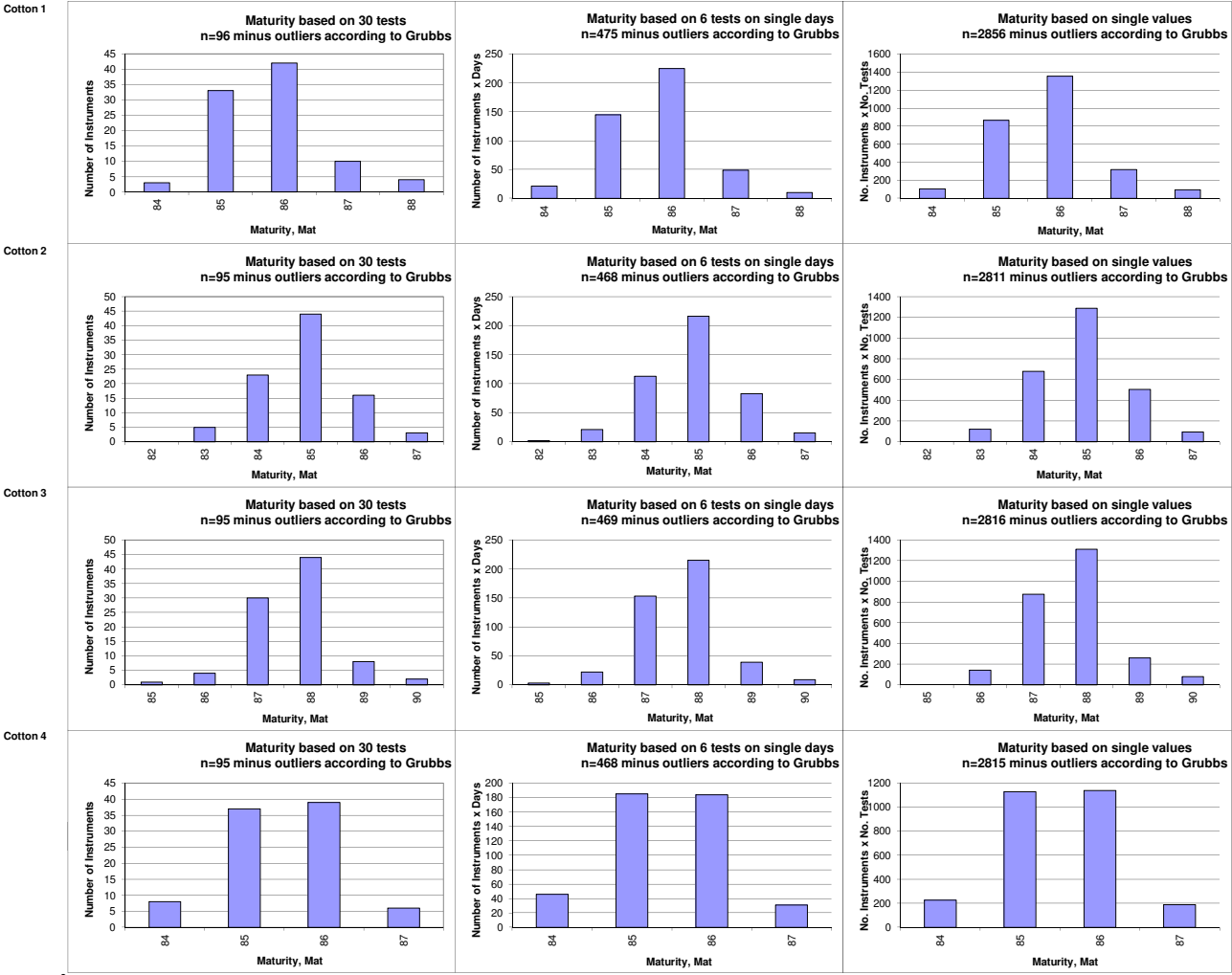
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

Test Result Distributions
Trash Area



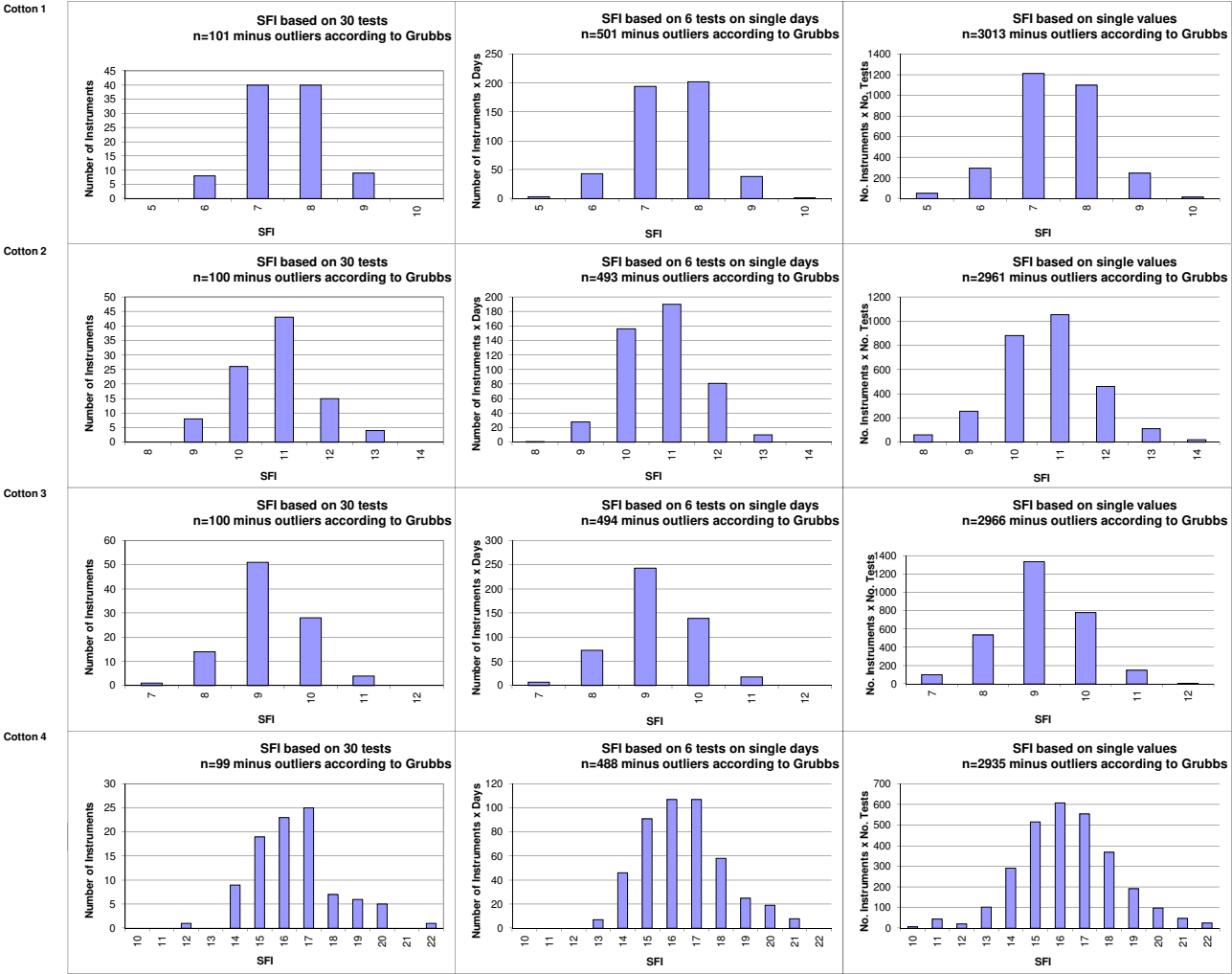
(Only results from instruments/days/single tests that are not regarded as outliers according to Grubbs' method)
(classes are defined as > lower limit and <= upper limit)

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 2025 - 2 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



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which benefitted from support from the Common Fund for Commodities
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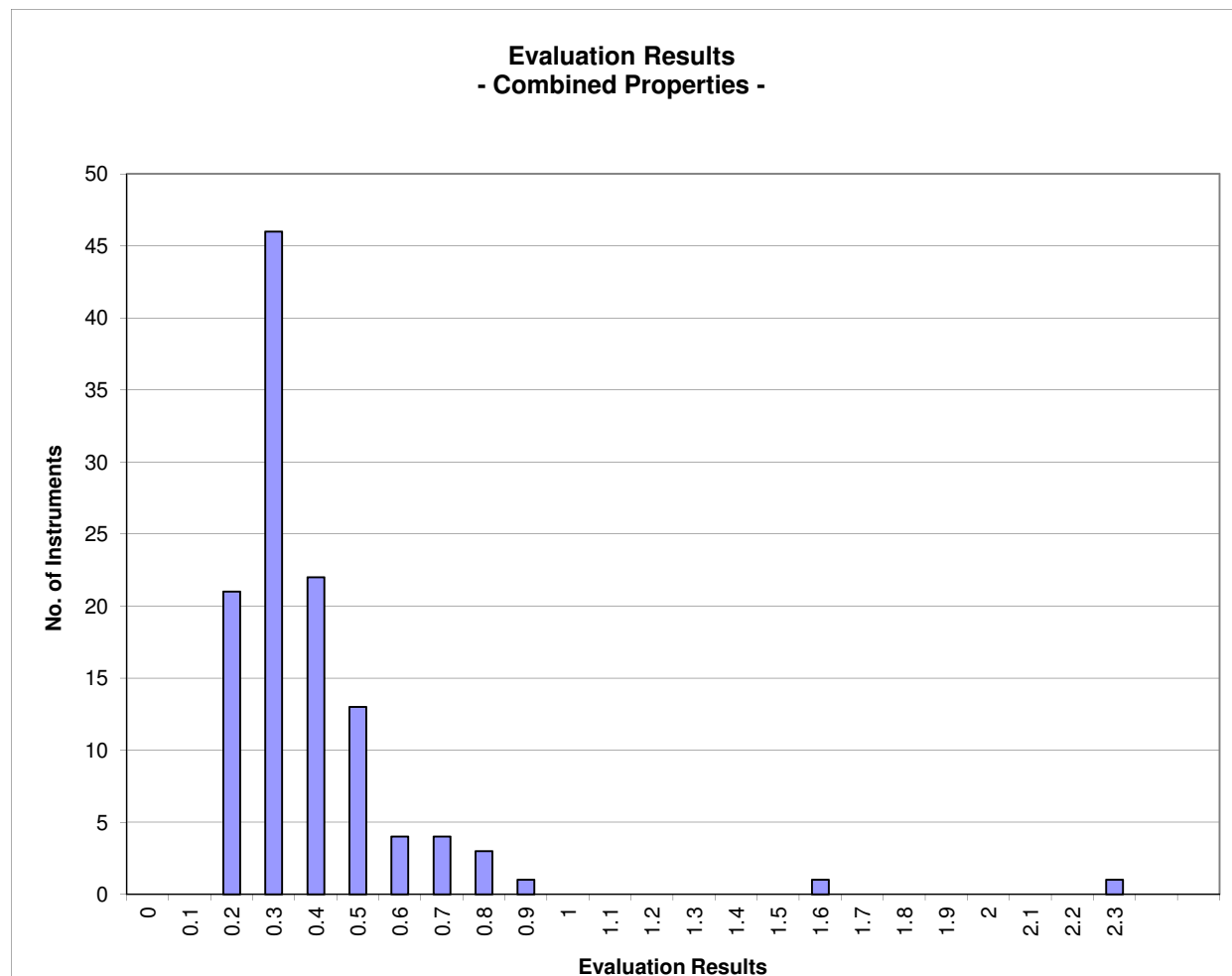
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2025 - 2

| Statistics | Evaluation Combined Prop. |
|--|---------------------------|
| Average Overall Evaluation Result (OER) | 0.39 |
| OER Rating for the best instrument | 0.17 |
| max. OER Limit for belonging to the best 10% of the instruments | 0.23 |
| max. OER Limit for belonging to the best 25% of the instruments | 0.27 |
| max. OER Limit for belonging to the best 50% of the instruments | 0.33 |
| max. OER Limit for belonging to the best 75% of the instruments | 0.43 |
| OER Rating for the worst instrument | 2.35 |



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)

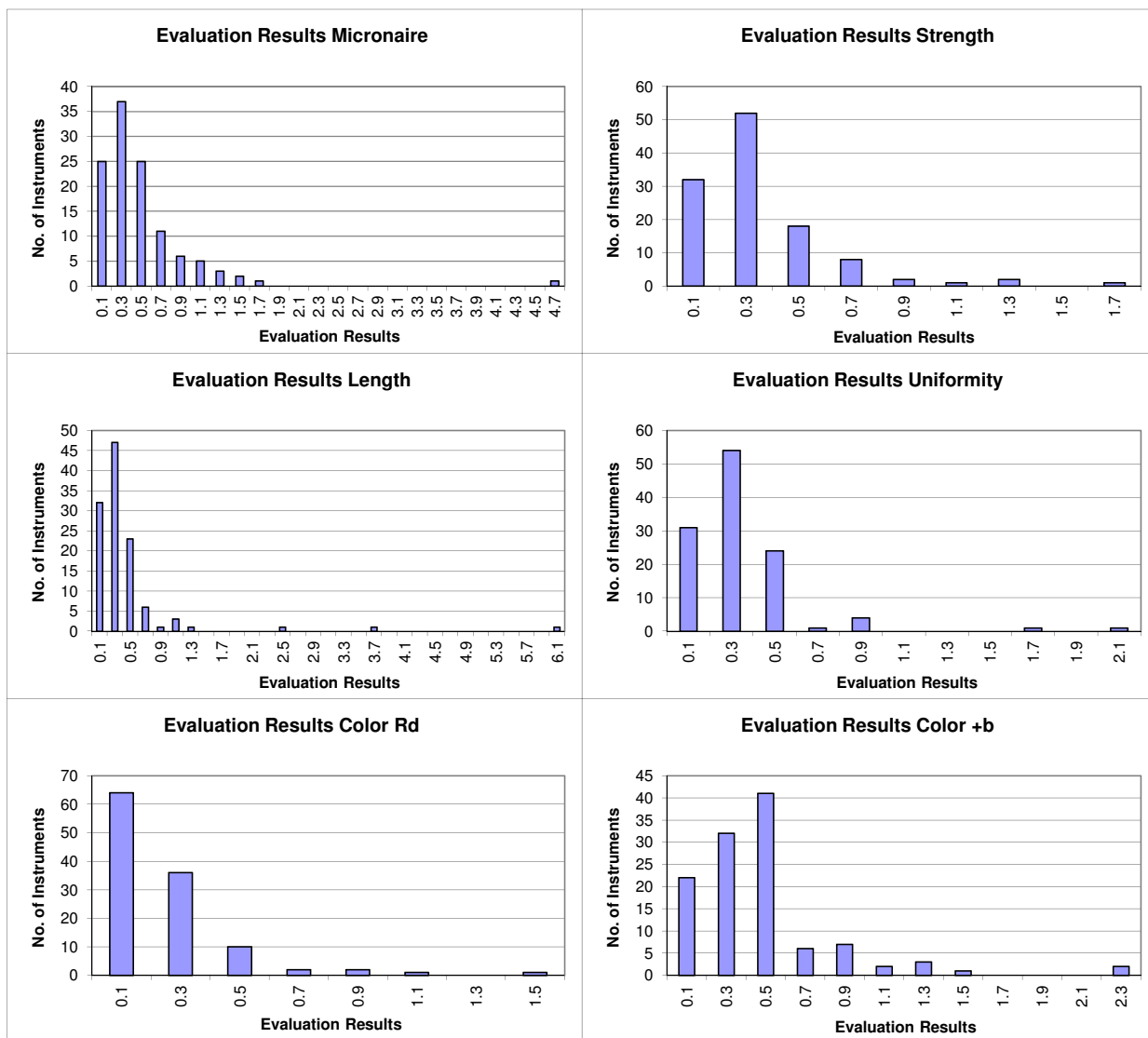
Instrument Evaluation

- Graph of Single Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2025 - 2

| | | Evaluation Micronaire | Evaluation Strength | Evaluation Length | Evaluation Uniformity | Evaluation Color Rd | Evaluation Color +b |
|------------|--------------|--------------------------|------------------------|----------------------|--------------------------|------------------------|------------------------|
| Statistics | Average | 0.50 | 0.35 | 0.45 | 0.34 | 0.25 | 0.47 |
| | Median | 0.38 | 0.30 | 0.29 | 0.26 | 0.19 | 0.42 |
| | Best Instr. | 0.03 | 0.07 | 0.06 | 0.05 | 0.03 | 0.05 |
| | Worst Instr. | 4.75 | 1.69 | 6.14 | 2.13 | 1.53 | 2.36 |



x-Axis shows midpoints of classes

The evaluation results are entered based on the unrounded values



International Cotton Advisory Committee



CSITC Global - Round Trial 2025 - 2 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:
Generation 10 Limited



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* Faserinstitut Bremen are a Cooperation Partner with ICA Bremen

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 | 99.1 | 98.3 | 97.8 | 99.1 | 97.6 | 92.2 |
| Completely within limits | 97.4 | 95.7 | 94.8 | 98.3 | 94.8 | 84.5 |
| % of Instruments $\geq 75\%$ within limits | 99.1 | 97.4 | 96.6 | 98.3 | 98.3 | 92.2 |
| % of Instruments $\geq 50\%$ within limits | 100.0 | 100.0 | 99.1 | 100.0 | 98.3 | 94.8 |

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 | 97.8 | 95.7 | 91.5 | 98.2 | 97.5 | 87.1 |
| % of Instruments 100% within limits | 59.5 | 39.7 | 18.1 | 58.6 | 79.3 | 37.1 |
| % of Instruments $\geq 95\%$ within limits | 89.7 | 78.4 | 56.0 | 94.0 | 90.5 | 53.4 |
| % of Instruments $\geq 75\%$ within limits | 98.3 | 95.7 | 91.4 | 98.3 | 97.4 | 84.5 |
| % of Instruments $\geq 65\%$ within limits | 98.3 | 97.4 | 93.1 | 99.1 | 98.3 | 87.9 |
| % of Instruments $\geq 50\%$ within limits | 100.0 | 99.1 | 98.3 | 100.0 | 99.1 | 93.1 |