

International Cotton Advisory Committee



CSITC Global - Round Trial 2024 - 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.



Global - Round Trial 2024 - 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) | | | 3.233 | 4.144 | 5.133 | 4.347 | | | | |
| Reference Values for Evaluation | | | 3.233 | 4.144 | 5.133 | 4.347 | | | | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 | | | |
| Inter-Instrument Variation | | SD | 0.053 | 0.049 | 0.059 | 0.063 | 0.056 | | | |
| | based on 30 tests | CV % | 1.6 | 1.2 | 1.1 | 1.5 | 1.4 | | | |
| | | SD | 0.057 | 0.056 | 0.065 | 0.067 | 0.061 | | | |
| inter-instrument variation | based on 6 tests | CV % | 1.8 | 1.4 | 1.3 | 1.5 | 1.5 | | | |
| | | SD | 0.063 | 0.061 | 0.071 | 0.072 | 0.067 | | | |
| | based on single tests | CV % | 1.9 | 1.5 | 1.4 | 1.7 | 1.6 | | | |
| | between different days | SD | 0.021 | 0.023 | 0.025 | 0.027 | 0.024 | | | |
| | with each 6 tests | CV % | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | | | |
| Typical within-instrument Variation | between single tests | SD | 0.026 | 0.028 | 0.032 | 0.033 | 0.030 | | | |
| (Median) | on one day | CV % | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | | | |
| | between all tests | SD | 0.036 | 0.037 | 0.041 | 0.041 | 0.039 | | | |
| | on different days | CV % | 1.1 | 0.9 | 0.8 | 0.9 | 0.9 | | | |

| | St | trength | | | | | |
|-------------------------------------------------|------------------------|---------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 30.815 | 23.561 | 28.666 | 31.063 | |
| Reference Values for Evaluation | | | 30.815 | 23.561 | 28.666 | 31.063 | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 |
| Inter-Instrument Variation | | SD | 1.005 | 0.690 | 0.712 | 0.733 | 0.785 |
| | based on 30 tests | CV % | 3.3 | 2.9 | 2.5 | 2.4 | 2.8 |
| | | SD | 1.071 | 0.770 | 0.769 | 0.896 | 0.876 |
| | based on 6 tests | CV % | 3.5 | 3.3 | 2.7 | 2.9 | 3.1 |
| | | SD | 1.200 | 0.902 | 0.906 | 1.056 | 1.016 |
| | based on single tests | CV % | 3.9 | 3.8 | 3.2 | 3.4 | 3.6 |
| | between different days | SD | 0.358 | 0.266 | 0.284 | 0.322 | 0.308 |
| | with each 6 tests | CV % | 1.2 | 1.1 | 1.0 | 1.0 | 1.1 |
| Typical within-instrument Variation (Median) | between single tests | SD | 0.565 | 0.482 | 0.476 | 0.544 | 0.517 |
| | on one day | CV % | 1.8 | 2.0 | 1.7 | 1.8 | 1.8 |
| | between all tests | SD | 0.660 | 0.564 | 0.561 | 0.674 | 0.615 |
| | on different days | CV % | 2.1 | 2.4 | 2.0 | 2.2 | 2.2 |

| | L | ength | | | | | |
|-------------------------------------|------------------------|-------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 1.0636 | 0.9547 | 1.1159 | 1.1877 | |
| Reference Values for Evaluation | | | 1.0636 | 0.9547 | 1.1159 | 1.1877 | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 |
| | | SD | 0.0092 | 0.0112 | 0.0083 | 0.0074 | 0.0090 |
| Inter-Instrument Variation | based on 30 tests | CV % | 0.9 | 1.2 | 0.7 | 0.6 | 0.9 |
| | | SD | 0.0104 | 0.0124 | 0.0094 | 0.0093 | 0.0104 |
| inter-instrument variation | based on 6 tests | CV % | 1.0 | 1.3 | 0.8 | 8.0 | 1.0 |
| | | SD | 0.0140 | 0.0152 | 0.0125 | 0.0133 | 0.0137 |
| | based on single tests | CV % | 1.3 | 1.6 | 1.1 | 1.1 | 1.3 |
| | between different days | SD | 0.0054 | 0.0054 | 0.0046 | 0.0055 | 0.0052 |
| | with each 6 tests | CV % | 0.5 | 0.6 | 0.4 | 0.5 | 0.5 |
| Typical within-instrument Variation | between single tests | SD | 0.0094 | 0.0093 | 0.0084 | 0.0100 | 0.0093 |
| (Median) | on one day | CV % | 0.9 | 1.0 | 0.8 | 8.0 | 0.9 |
| | between all tests | SD | 0.0107 | 0.0105 | 0.0093 | 0.0114 | 0.0105 |
| | on different days | CV % | 1.0 | 1.1 | 0.8 | 1.0 | 1.0 |

| Uniformity | | | | | | | | | | |
|-------------------------------------|------------------------|------|----------|----------|----------|----------|---------|--|--|--|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average | | | |
| Average of Instruments (Grubbs) | | | 80.077 | 77.815 | 83.427 | 83.183 | | | | |
| Reference Values for Evaluation | | | 80.077 | 77.815 | 83.427 | 83.183 | | | | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 | | | |
| | | SD | 0.422 | 0.528 | 0.479 | 0.397 | 0.457 | | | |
| Inter-Instrument Variation | based on 30 tests | CV % | 0.5 | 0.7 | 0.6 | 0.5 | 0.6 | | | |
| | | SD | 0.473 | 0.581 | 0.492 | 0.468 | 0.504 | | | |
| | based on 6 tests | CV % | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | | | |
| | | SD | 0.656 | 0.763 | 0.636 | 0.648 | 0.676 | | | |
| | based on single tests | CV % | 0.8 | 1.0 | 0.8 | 0.8 | 0.8 | | | |
| | between different days | SD | 0.236 | 0.253 | 0.204 | 0.231 | 0.231 | | | |
| | with each 6 tests | CV % | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | | | |
| Typical within-instrument Variation | between single tests | SD | 0.492 | 0.526 | 0.421 | 0.486 | 0.481 | | | |
| (Median) | on one day | CV % | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | | | |
| | between all tests | SD | 0.520 | 0.565 | 0.463 | 0.544 | 0.523 | | | |
| | on different days | CV % | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | | | |

| | Color Rd | | | | | | | | | | |
|-------------------------------------|------------------------|------|----------|----------|----------|----------|---------|--|--|--|--|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average | | | | |
| Average of Instruments (Grubbs) | | | 77.168 | 78.023 | 72.370 | 73.183 | | | | | |
| Reference Values for Evaluation | | | 77.168 | 78.023 | 72.370 | 73.183 | | | | | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 | | | | |
| Inter-Instrument Variation | | SD | 0.578 | 0.577 | 0.585 | 0.641 | 0.595 | | | | |
| | based on 30 tests | CV % | 0.7 | 0.7 | 0.8 | 0.9 | 0.8 | | | | |
| | | SD | 0.619 | 0.595 | 0.609 | 0.643 | 0.617 | | | | |
| inter-instrument variation | based on 6 tests | CV % | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | | | | |
| | | SD | 0.638 | 0.598 | 0.633 | 0.676 | 0.636 | | | | |
| | based on single tests | CV % | 0.8 | 0.8 | 0.9 | 0.9 | 0.8 | | | | |
| | between different days | SD | 0.149 | 0.104 | 0.136 | 0.146 | 0.134 | | | | |
| | with each 6 tests | CV % | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | | | | |
| Typical within-instrument Variation | between single tests | SD | 0.124 | 0.102 | 0.094 | 0.130 | 0.113 | | | | |
| (Median) | on one day | CV % | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | | | | |
| | between all tests | SD | 0.213 | 0.161 | 0.186 | 0.210 | 0.192 | | | | |
| | on different days | CV % | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | | | | |

| Color +b | | | | | | | | | | |
|-------------------------------------|------------------------|------|----------|----------|----------|----------|---------|--|--|--|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average | | | |
| Average of Instruments (Grubbs) | | | 12.784 | 12.849 | 16.616 | 15.783 | | | | |
| Reference Values for Evaluation | | | 12.784 | 12.849 | 16.616 | 15.783 | | | | |
| Number Of Instruments | | | 109 | 109 | 110 | 113 | 110 | | | |
| Inter-Instrument Variation | | SD | 0.278 | 0.255 | 0.328 | 0.340 | 0.300 | | | |
| | based on 30 tests | CV % | 2.2 | 2.0 | 2.0 | 2.2 | 2.1 | | | |
| | | SD | 0.301 | 0.267 | 0.336 | 0.357 | 0.315 | | | |
| | based on 6 tests | CV % | 2.4 | 2.1 | 2.0 | 2.3 | 2.2 | | | |
| | | SD | 0.320 | 0.280 | 0.355 | 0.347 | 0.326 | | | |
| | based on single tests | CV % | 2.5 | 2.2 | 2.1 | 2.2 | 2.3 | | | |
| | between different days | SD | 0.085 | 0.076 | 0.084 | 0.084 | 0.082 | | | |
| | with each 6 tests | CV % | 0.7 | 0.6 | 0.5 | 0.5 | 0.6 | | | |
| Typical within-instrument Variation | between single tests | SD | 0.057 | 0.054 | 0.064 | 0.079 | 0.063 | | | |
| (Median) | on one day | CV % | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | | | |
| | between all tests | SD | 0.134 | 0.116 | 0.142 | 0.135 | 0.132 | | | |
| | on different days | CV % | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | | | |

Optional Parameters

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

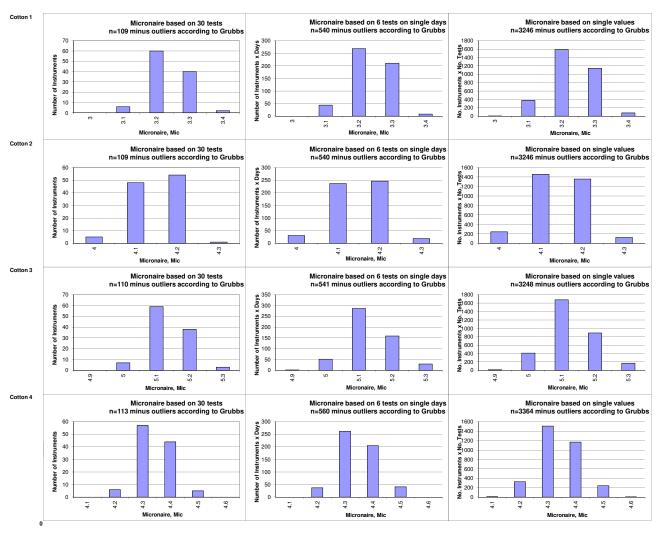
| Trash Count | | | | | | | | | | |
|-------------------------------------|------------------------|------|----------|----------|----------|----------|---------|--|--|--|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average | | | |
| Average of Instruments (Grubbs) | | | 20.64 | 9.85 | 11.80 | 9.87 | | | | |
| Reference Values for Evaluation | | | 20.64 | 9.85 | 11.80 | 9.87 | | | | |
| Number Of Instruments | | | 85 | 85 | 86 | 89 | 86 | | | |
| Inter-Instrument Variation | | SD | 5.75 | 2.61 | 2.79 | 2.92 | 3.52 | | | |
| | based on 30 tests | CV % | 27.9 | 26.5 | 23.7 | 29.6 | 26.9 | | | |
| | | SD | 4.66 | 2.87 | 3.25 | 3.10 | 3.47 | | | |
| inter-instrument variation | based on 6 tests | CV % | 22.6 | 29.1 | 27.5 | 31.4 | 27.6 | | | |
| | | SD | 5.92 | 3.14 | 3.62 | 3.45 | 4.03 | | | |
| | based on single tests | CV % | 28.7 | 31.9 | 30.7 | 35.0 | 31.6 | | | |
| | between different days | SD | 1.80 | 1.05 | 1.09 | 1.20 | 1.29 | | | |
| | with each 6 tests | CV % | 8.7 | 10.7 | 9.3 | 12.2 | 10.2 | | | |
| Typical within-instrument Variation | between single tests | SD | 1.85 | 1.28 | 1.30 | 1.28 | 1.43 | | | |
| (Median) | on one day | CV % | 9.0 | 13.0 | 11.0 | 13.0 | 11.5 | | | |
| | between all tests | SD | 2.93 | 1.96 | 1.99 | 1.98 | 2.21 | | | |
| | on different days | CV % | 14.2 | 19.9 | 16.8 | 20.1 | 17.7 | | | |

| | Trash Area | | | | | | | | | | |
|-------------------------------------|------------------------|------|----------|----------|----------|----------|---------|--|--|--|--|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average | | | | |
| Average of Instruments (Grubbs) | | | 0.183 | 0.104 | 0.111 | 0.093 | | | | | |
| Reference Values for Evaluation | | | 0.183 | 0.104 | 0.111 | 0.093 | | | | | |
| Number Of Instruments | | | 85 | 85 | 86 | 89 | 86 | | | | |
| Inter-Instrument Variation | | SD | 0.042 | 0.018 | 0.024 | 0.022 | 0.026 | | | | |
| | based on 30 tests | CV % | 22.8 | 17.3 | 21.9 | 23.3 | 21.3 | | | | |
| | | SD | 0.047 | 0.024 | 0.028 | 0.026 | 0.031 | | | | |
| inter-instrument variation | based on 6 tests | CV % | 25.9 | 22.7 | 25.0 | 27.7 | 25.3 | | | | |
| | | SD | 0.051 | 0.027 | 0.032 | 0.028 | 0.034 | | | | |
| | based on single tests | CV % | 27.8 | 26.0 | 28.9 | 30.1 | 28.2 | | | | |
| | between different days | SD | 0.018 | 0.013 | 0.015 | 0.012 | 0.014 | | | | |
| | with each 6 tests | CV % | 9.8 | 12.3 | 13.8 | 12.5 | 12.1 | | | | |
| Typical within-instrument Variation | between single tests | SD | 0.018 | 0.012 | 0.011 | 0.010 | 0.013 | | | | |
| (Median) | on one day | CV % | 9.7 | 11.9 | 9.6 | 11.0 | 10.5 | | | | |
| | between all tests | SD | 0.029 | 0.021 | 0.021 | 0.020 | 0.023 | | | | |
| | on different days | CV % | 15.7 | 20.7 | 19.1 | 21.4 | 19.2 | | | | |

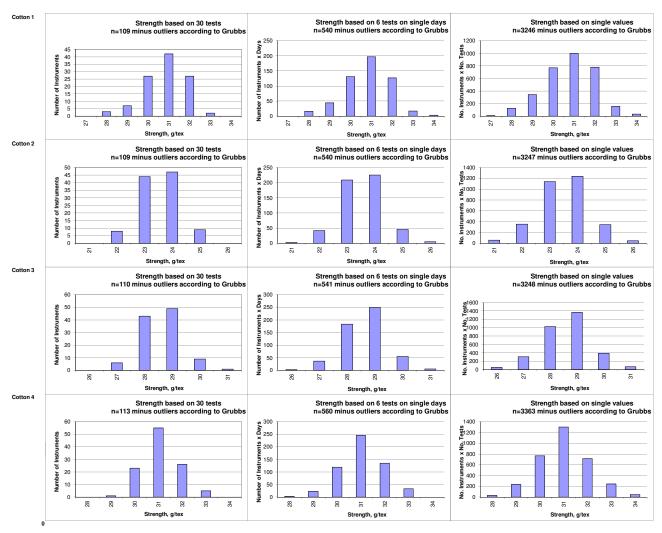
| | M | aturity | | | | | |
|-------------------------------------|------------------------|---------|----------|----------|----------|----------|---------|
| | | | Cotton 1 | Cotton 2 | Cotton 3 | Cotton 4 | Average |
| Average of Instruments (Grubbs) | | | 83.63 | 85.60 | 87.65 | 86.27 | |
| Reference Values for Evaluation | | | 83.63 | 85.60 | 87.65 | 86.27 | |
| Number Of Instruments | | | 86 | 86 | 87 | 90 | 87 |
| | | SD | 0.83 | 0.73 | 0.68 | 0.66 | 0.72 |
| Inter-Instrument Variation | based on 30 tests | CV % | 1.0 | 0.9 | 0.8 | 8.0 | 8.0 |
| | | SD | 0.82 | 0.72 | 0.70 | 0.91 | 0.79 |
| | based on 6 tests | CV % | 1.0 | 0.8 | 8.0 | 1.1 | 0.9 |
| | | SD | 0.89 | 0.73 | 0.88 | 0.93 | 0.86 |
| | based on single tests | CV % | 1.1 | 0.9 | 1.0 | 1.1 | 1.0 |
| | between different days | SD | 0.07 | 0.09 | 0.08 | 0.09 | 0.09 |
| | with each 6 tests | CV % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Typical within-instrument Variation | between single tests | SD | 0.08 | 0.09 | 0.10 | 0.11 | 0.09 |
| (Median) | on one day | CV % | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | between all tests | SD | 0.14 | 0.18 | 0.18 | 0.20 | 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 |
| Average of Instruments (Grubbs) | | | 11.21 | 16.21 | 7.62 | 7.71 | |
| Reference Values for Evaluation | | | 11.21 | 16.21 | 7.62 | 7.71 | |
| Number Of Instruments | | | 90 | 89 | 91 | 94 | 91 |
| | | SD | 1.01 | 2.05 | 0.83 | 0.72 | 1.15 |
| Inter-Instrument Variation | based on 30 tests | CV % | 9.0 | 12.7 | 10.8 | 9.3 | 10.4 |
| | | SD | 1.00 | 2.01 | 0.82 | 0.73 | 1.14 |
| | based on 6 tests | CV % | 8.9 | 12.4 | 10.8 | 9.5 | 10.4 |
| | | SD | 1.21 | 2.26 | 0.86 | 0.80 | 1.28 |
| | based on single tests | CV % | 10.8 | 13.9 | 11.3 | 10.4 | 11.6 |
| | between different days | SD | 0.29 | 0.41 | 0.18 | 0.18 | 0.26 |
| | with each 6 tests | CV % | 2.6 | 2.5 | 2.3 | 2.3 | 2.4 |
| Typical within-instrument Variation | between single tests | SD | 0.60 | 0.82 | 0.34 | 0.32 | 0.52 |
| (Median) | on one day | CV % | 5.3 | 5.1 | 4.5 | 4.2 | 4.8 |
| | between all tests | SD | 0.66 | 0.93 | 0.37 | 0.38 | 0.59 |
| | on different days | CV % | 5.9 | 5.7 | 4.9 | 4.9 | 5.4 |

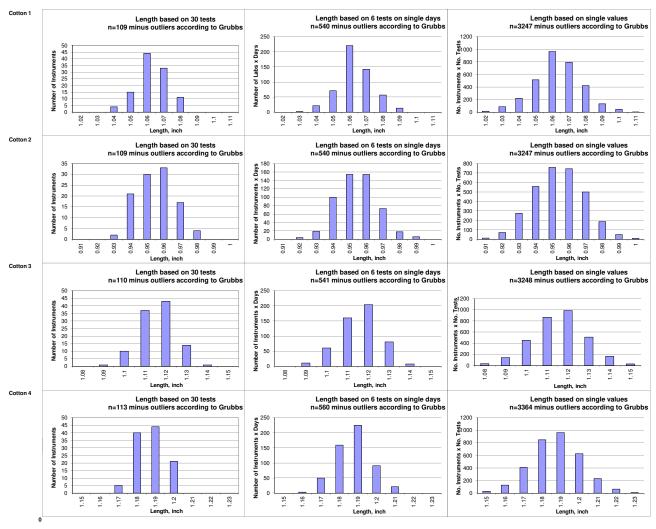
Test Result Distributions Micronaire



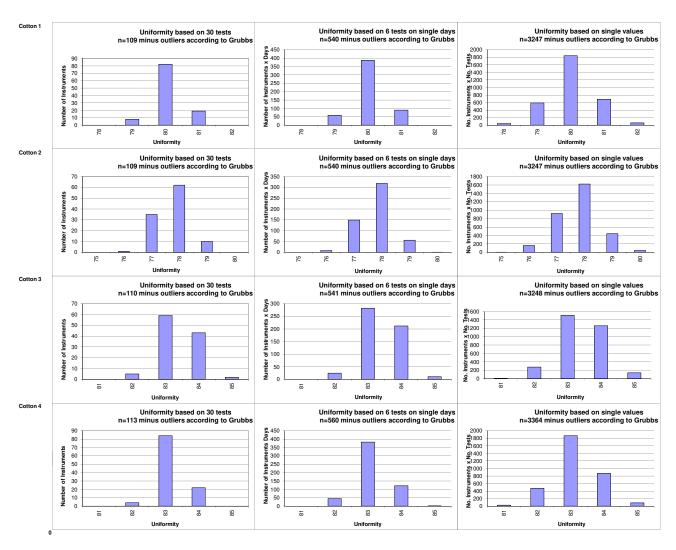
Test Result Distributions Strength



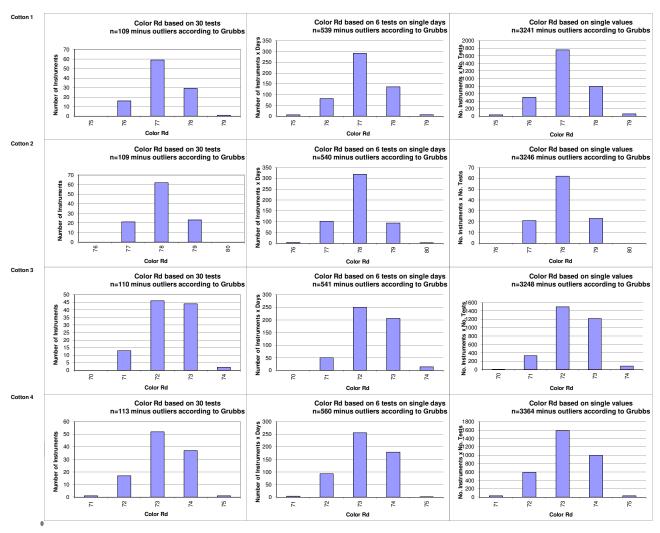
Test Result Distributions Length



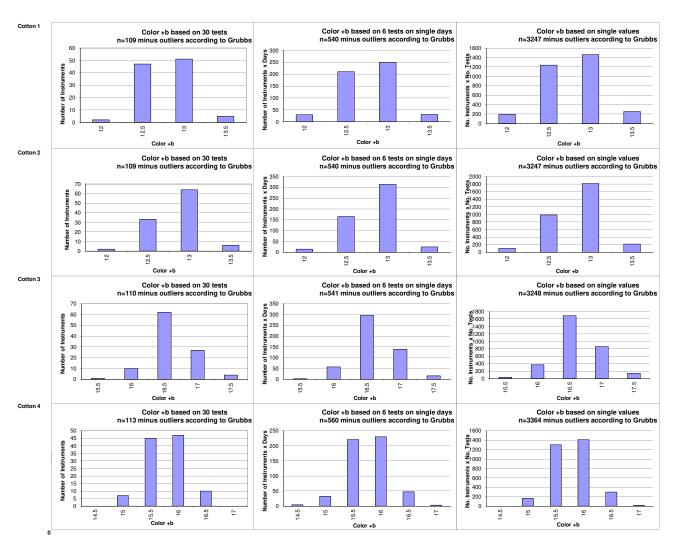
Test Result Distributions Uniformity



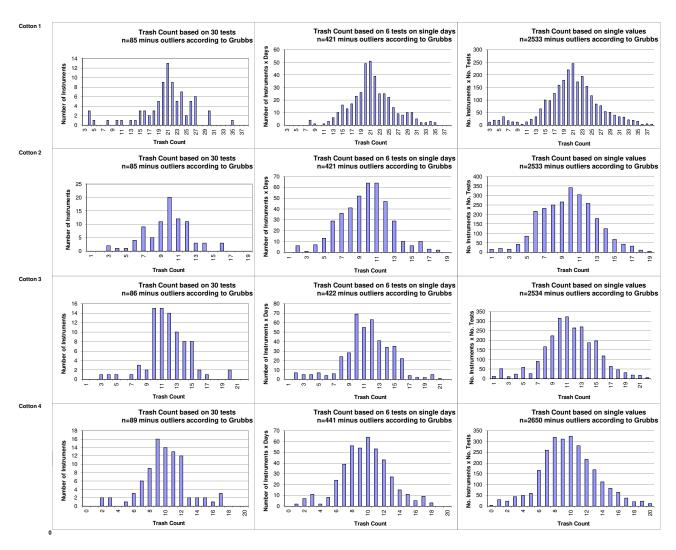
Test Result Distributions Color Rd



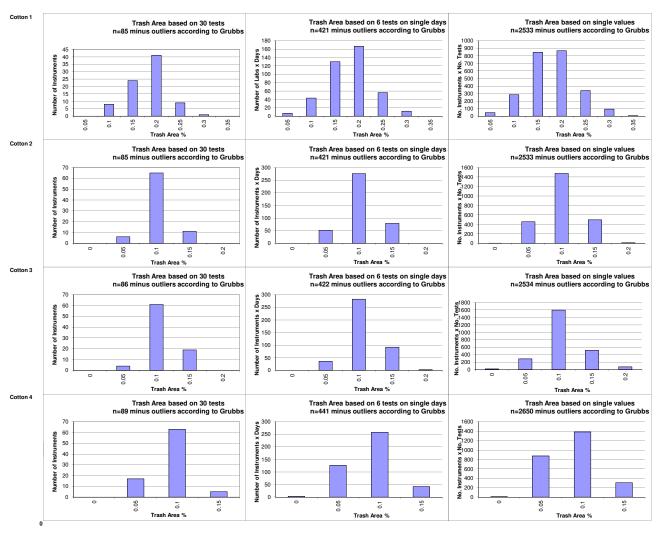
Test Result Distributions Color +b



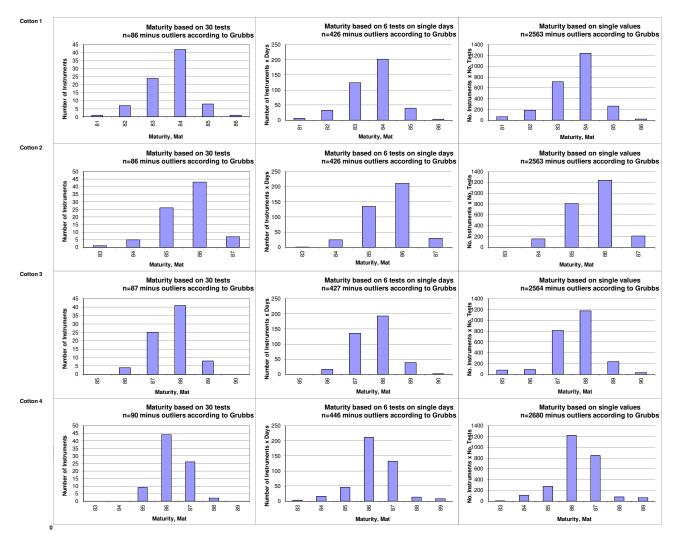
Test Result Distributions Trash Count



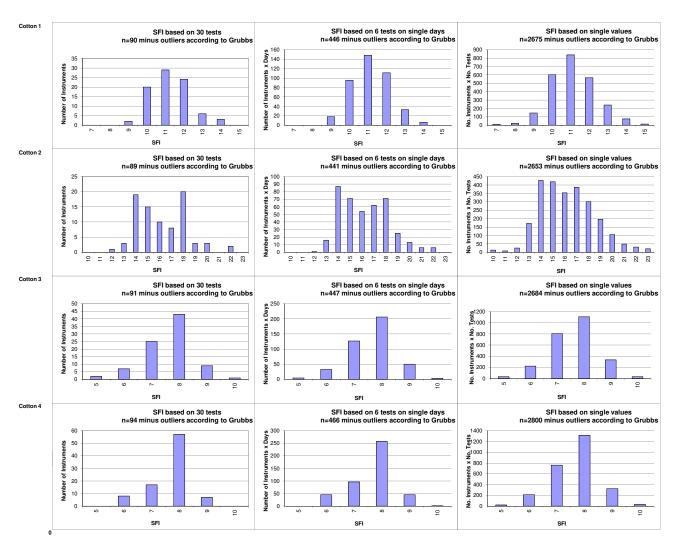
Test Result Distributions Trash Area



Test Result Distributions Maturity



Test Result Distributions





International Cotton Advisory Committee



CSITC Global - Round Trial 2024 - 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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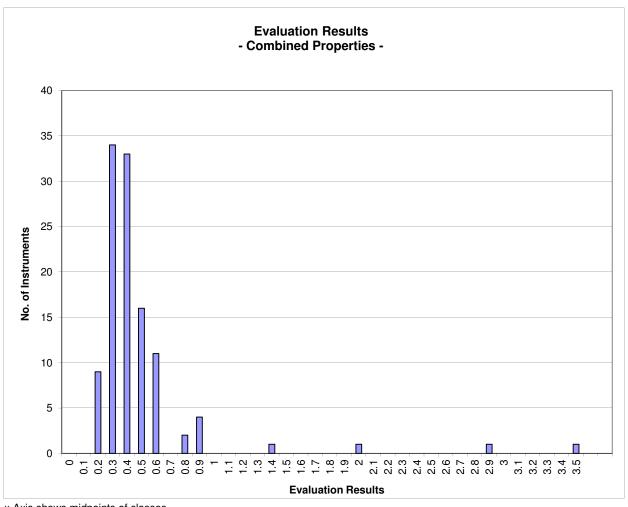
Instrument Evaluation

- Graph of Combined Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2024 - 2

| | | Evaluation Combined Prop. |
|------------|------------------|---------------------------|
| Statistics | Average | 0.48 |
| | Median | 0.38 |
| | Best Instrument | 0.17 |
| | Worst Instrument | 3.55 |



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)

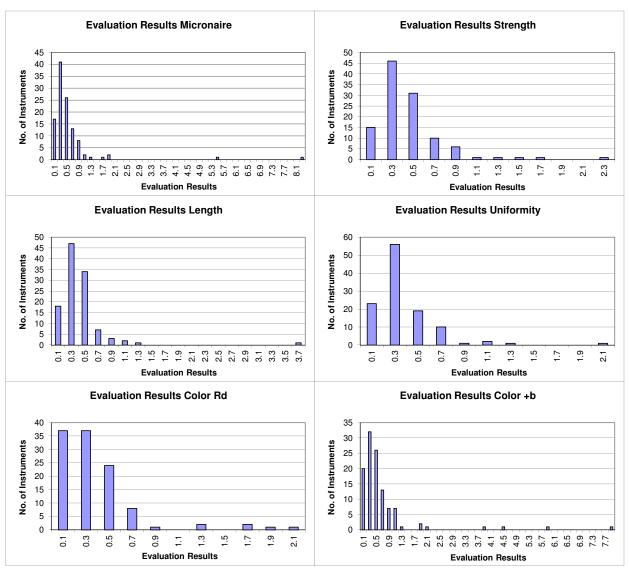
Instrument Evaluation

- Graph of Single Properties -

According to ICAC CSITC Task Force Recommendations

Global - Round Trial 2024 - 2

| | | Evaluation Micronaire | | Evaluation Length | Evaluation Uniformity | Evaluation Color Rd | Evaluation Color +b |
|------------|--------------|--------------------------|------|----------------------|--------------------------|------------------------|------------------------|
| Statistics | Average | 0.59 | 0.45 | 0.43 | 0.37 | 0.38 | 0.68 |
| | Median | 0.39 | 0.39 | 0.36 | 0.29 | 0.28 | 0.43 |
| | Best Instr. | 0.11 | 0.07 | 0.08 | 0.05 | 0.04 | 0.00 |
| | Worst Instr. | 8.39 | 2.27 | 3.62 | 2.15 | 2.10 | 7.97 |



x-Axis shows midpoints of classes

The evaluation results are entered based on the unrounded values



International Cotton Advisory Committee



CSITC Global - Round Trial 2024 - 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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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 | 98.5 | 96.0 | 97.8 | 99.3 | 94.9 | 86.1 |
| Completely within limits | 96.5 | 89.4 | 92.9 | 98.2 | 91.2 | 71.7 |
| % of Instruments ≥75% within limits | 97.3 | 97.3 | 99.1 | 99.1 | 94.7 | 85.8 |
| % of Instruments ≥50% within limits | 100.0 | 98.2 | 99.1 | 100.0 | 95.6 | 92.0 |

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 | 97.3 | 92.4 | 96.5 | 98.3 | 94.3 | 82.6 |
| % of Instruments 100% within limits | 61.1 | 27.4 | 40.7 | 60.2 | 73.5 | 34.5 |
| % of Instruments ≥95% within limits | 89.4 | 61.1 | 79.6 | 92.0 | 83.2 | 46.9 |
| % of Instruments ≥75% within limits | 96.5 | 93.8 | 98.2 | 98.2 | 93.8 | 78.8 |
| % of Instruments ≥65% within limits | 97.3 | 96.5 | 99.1 | 99.1 | 95.6 | 83.2 |
| % of Instruments ≥50% within limits | 99.1 | 98.2 | 99.1 | 100.0 | 95.6 | 89.4 |