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ICAR-ALL INDIA COORDINATED RESEARCH PROJECT ON COTTON

(AICRP on Cotton)

COTTON TECHNOLOGICAL REPORT

(2025-26)

ICAR-CENTRAL INSTITUTE FOR RESEARCH ON COTTON TECHNOLOGY

(Indian Council of Agricultural Research)

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Abbreviations

Abbreviation	Description
Mic	Micronaire (micrograms/inch)
Str	Bundle tenacity in gram/tex
E%	Bundle elongation in %
HSC	Highest Standard Count Index
Mean HSC	Mean of HSC of different locations of particular entry
Count 1	Under spun count in English count (Ne)
CSP 1	Corrected count strength product of under spun count
Count 2	Over spun count in English count (Ne)
CSP 2	Corrected count strength product of over spun count
UHML	Upper Half Mean length in mm (HVI mode)
Tenacity	Bundle tenacity in gram/tex (HVI mode)
UI	Uniformity Index (HVI mode)

Quality Analysis of ICAR-AICRP on Cotton samples

The Indian Council of Agricultural Research (ICAR) initiated the All India Coordinated Cotton Improvement Project (AICCIP) in 1967, with its headquarters at Coimbatore, Tamil Nadu. Over the decades, the project has played a pivotal role in the transformation of Indian cotton—from conventional varieties to the widespread adoption of genetically modified cultivars.In recent years, the future of genetically modified cotton has been widely deliberated in the context of changing climatic conditions, sustainability concerns, and evolving market demands. These emerging challenges have further strengthened the importance of a multi-disciplinary and multi-location research approach, involving active collaboration among State Agricultural Universities (SAUs) and research institutions across major cotton-growing regions of the country.

At present, the project, now known as the All India Coordinated Research Project on Cotton (ICAR-AICRP on Cotton), continues to function with its headquarters at Coimbatore. The programme spans 21 centres across 16 State Agricultural Universities, ensuring comprehensive evaluation of cotton genotypes under diverse agro-climatic conditions. The ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT), Mumbai, along with its regional units located at Nagpur, Coimbatore, Sirsa, Guntur, Dharwad, and Surat, plays a crucial role in supporting the AICRP system by evaluating fibre quality parameters of cotton cultures under trial. A significant milestone was achieved through the communication vide letter No. F.No. A.Engg.17(13)/2014-AE dated 30.08.2016 from the SMD, wherein a new discipline, “Quality Research”, was incorporated into the AICRP on Cotton framework, with ICAR-CIRCOT designated as the Principal Investigator, following the approval of the DDG (Crop Science).

Fibre quality is a critical determinant in cotton varietal development, as it directly influences the spinning performance, yarn quality, and market value of cotton. The development of a superior cotton variety is a long and meticulous process. It begins with a limited number of seeds sourced either from germplasm collections or from new crosses. Through successive generations of selection, breeders identify and stabilize lines that consistently exhibit desirable traits such as high yield, superior fibre quality, and resistance to biotic and abiotic stresses.The successful development of improved cotton varieties requires close collaboration among multiple scientific disciplines, including breeding, agronomy, physiology, pathology, entomology, and textile technology. An integrated and coordinated approach involving all

these disciplines significantly accelerates the breeding process and enhances the likelihood of developing varieties that meet both agronomic and industrial requirements.

Multi-location evaluation of promising genotypes across different cotton-growing zones—North, Central, and South Zones—is an essential component of the AICRP system. Such evaluation ensures that selected varieties demonstrate stability and adaptability across diverse environmental conditions, which is a prerequisite for their recommendation and release for commercial cultivation. India has emerged as the world's largest producer and exporter of cotton. However, Indian cotton often trades at a discount of up to 7% in the international market, primarily due to variations in fibre quality and post-harvest handling practices. This highlights the need for strengthening the linkage between market requirements and breeding objectives, thereby enabling the development of cotton varieties that meet global quality standards and enhance the income of cotton producers.

It is important to note that fibre quality is primarily governed by the genetic makeup (pedigree) of the variety, as well as the environmental conditions during crop growth. While fibre quality cannot be improved during post-harvest processing, improper handling and processing can adversely affect the inherent quality of the fibre. Therefore, maintaining quality throughout the value chain is of paramount importance.

In this context, ICAR-CIRCOT undertakes comprehensive evaluation of fibre and yarn quality parameters of cotton samples received under the AICRP system. The data generated form an integral part of the Annual Technological Report. Cotton samples received from breeders across the country under various zonal and national trials are analysed for fibre quality parameters, while samples from agronomy trials are additionally evaluated for spinning performance. The fibre quality parameters—namely Upper Half Mean Length (UHML), Uniformity Index, Micronaire, and Fibre Strength (Tenacity)—are measured using the High Volume Instrument (HVI) operated in HVI mode. The generated data are systematically analysed to assess the performance of different entries and to identify promising genotypes with superior fibre characteristics.

The ICAR-AICRP on Cotton continues to provide strategic direction by promoting multidisciplinary and multi-centre research approaches. A notable contribution of the AICRP system has been its role in evaluating Bt cotton hybrids, the only transgenic crop approved for commercial cultivation in India by the Genetic Engineering Appraisal Committee (GEAC). Since 2002, the AICRP framework has been

instrumental in assessing the suitability of private sector Bt cotton hybrids across major cotton-growing regions.ICAR has recommended that all Bt cotton hybrid events must be evaluated under the AICRP system as per prescribed norms prior to commercial release. Out of the 17 parameters evaluated, ICAR-CIRCOT has been entrusted with the analysis of key fibre quality traits, including UHML, Uniformity Index, Micronaire, and Fibre Strength, using HVI mode.

Leveraging its extensive expertise and advanced infrastructure in fibre quality analysis, ICAR-CIRCOT has been consistently performing these evaluations with high precision and reliability. The data generated contribute significantly to the identification of superior cotton genotypes and support informed decision-making regarding varietal advancement and release.

HVI and ICC Mode Comparison

Since last season onwards the testing of all the lint samples under the AICRP-on Cotton is being carried out in HVI mode of testing. This has brought the fibre attributes data at par with international method of testing. While most institutions in India use either International Calibration Cotton (ICC) or HVI tenacity, many foreign cottons, especially those from the US and Australia, are labeled with only HVI tenacity values which are much higher. Cotton exporters in India are also familiar with HVI mode of testing as they have to submit HVI mode values to get their produce sold in international markets. In international markets, the transaction occur mainly using HVI mode fibre properties. The comparisons with foreign cottons have led to the misnomer that Indian cottons are weaker compared to their foreign counterparts in a given category.

In order to get acquainted with the different parameters obtained in HVI mode following explanation is given. The comparison between ICC and HVI mode parameters are also explained.

Fibre length: The 2.5 per cent span length (ICC mode) is the distance up to which 2.5 per cent of the fibres caught in the sample holding comb are found to extend. On the other hand, Upper Half Mean Length (UHML), obtained in HVI mode, is the average length by number of the longer half (50 per cent) of the fibres distributed by weight. Though different by definition, the two length measures are nearly equal. Hence, there is no difficulty in switching over from the old set of parameters to the new.

Fibre length variation: The length variability index in the ICC mode is the uniformity ratio of span length at 50 per cent and 2.5 per cent density levels.

UR % = (L50 / L2.5) × 100

The UR per cent for all varieties of cotton lies in the 40-54 range.

The uniformity index (UI) determined in the HVI mode is the ratio of the mean length and the UHML:

UI = (Mean length/UHML) × 100

As mean length is very close to, though smaller than, UHML, the ratio is much larger than the UR per cent. Generally, the UI per cent is in the 70-98 range, the theoretical limit being 100 when the fibres are all of constant length.

Tenacity: The fibre tenacity in the ICC mode is available at the Stelo level. These are adjusted to agree with the tenacity obtained with conventional mechanical machines known as the Stelometer. In the HVI mode, the tenacity given by the machine is much higher than the measures obtained in the ICC mode. The HVI tenacity is about 25-30 per cent higher than the tenacity obtained in the ICC mode.

A relationship between ICC & HVI Modes of testing is given below in the form of a regression equation is given. ***It is cautioned that one should not use the equations/thumb rule as an alternate to actual testing.***

ICC Mode	HVI mode	Conversion (ICAR-CIRCOT)	Thumb rule
2.5% Span Length (SL)	Upper Half Mean Length (UHML)	UHML=0.98 x 2.5 SL+0.1827	**2.5% SL is equal to UHML**
Uniformity Ratio (UR)	Uniformity Index (UI)	UI% = -0.1841xUR% + 91.17	**UI is 1.8 times UR**
Tenacity (g/tex) T(ICC)	Tenacity (g/tex) T(HVI)	T(HVI) = 1.0395 x T(ICC) + 4.967	**T (HVI) is 1.25 times of T (ICC)**
Note: Other fibre properties like micronaire, elongation and short fibre index remain the same in both the modes of HVI testing			

The Quality Norms in HVI mode of testing

Over the past 55 years, USTER® STATISTICS has earned legendary status throughout textiles – and its value is more significant than ever in the globalized trading environment today and in the future.Therefore, it is pertinent to take into the account the Uster statistics while formulating the norms for the AICRP- on cotton system. In order to get the realistic scenario, the statistical analysis was carried out on samples of cotton fibre received during the season 2015-16 from all over the country under AICRP-on cotton. These samples were tested on HVI mode on different makes of HVI systems following relevant standard procedures. As per prevailing system the UHML was categorized into 9 groups. The UHML below 24 mm was not considered since fibres with this attribute mostly utilized either by Open end spinning Industry or other purposes such as absorbent cottons. The Uster statistics 2013 values for different parameters were taken as base, since these data are based on the cottons from different part of world. An attempt was made to find out the position of samples received under AICRP-on cotton with respect to world average. Uster statistics gives the value of the fibre attributes for 5 %, 25 %, 50 %, 75 % and 95 % percentiles. These percentiles may be labeled as Excellent, Good, Average, Fair and poor respectively. The case may be reversed in case of micronaire values. The percentages of samples under these labels were determined by calculating the frequencies of samples in these categories. After statistical analysis of the fibre attributes data norms are proposed for HVI mode of testing. The analysis of data will be carried out for the current season and norms will be finalized.

Highest Spinnability Count Index

The commercial value of a cotton variety is related to its spinning performance, which, in turn, is dependent on the yarn count that can be spun from the given cotton and the yarn quality obtained for that count. The quality of any yarn spun from cotton depends on its fibre quality, particularly length, strength, fineness, uniformity ratio, short fibre content and breaking elongation. The prediction of yarn quality and spinnability of a particular cotton is necessary for a better product design. Presently, the test for yarn quality is done by processing a small quantity of a cotton sample to a particular count and ascertaining the quality of yarn so produced. As Initial Evaluation Trials are having very small sample size, it is not possible to spin the cotton by mechanical processing to decide its spinning potential.

An integrated index called highest standard cotton (HSC) was developed by ICAR-CIRCOT long back and it was mainly for used comparing cottons after actual spinning of cottons into 2 to 3 counts. HSC is

the finest count of yarn that can be spun economically with a standard optimum twist and has a certain standard lea CSP. The counts that are spun higher than HSC will have less CSP and counts that are spun lower than HSC will have more CSP than the standard. Thus, the HSC of cotton is a single integrated index, which provides an easy way for comparing the quality of cottons. This is a time consuming as well as labour and machine intensive process apart from requiring minimum sample size of 6.0 kg. To overcome these problems, ICAR-CIRCOT has developed regression equations. HSC being an integrated index reflecting the spinnability of cotton is more suitable index to compare cottons than FQI.

RESEARCH HIGHLIGHTS

Fibre Quality Evaluation of Cotton Samples under Different Breeding Trials

The cotton samples received from various breeding trials conducted across different agro-climatic zones were analysed for their fibre quality characteristics. The analysis was carried out based on Upper Half Mean Length (UHML) ranges, considering the mean values of entries evaluated at different centres**.**

In all the graphical presentations, the X-axis represents the different breeding entries, while the Y-axis represents the respective fibre quality parameters such as fibre length, strength, uniformity index, and micronaire.

The evaluation of fibre quality parameters including UHML (mm), fibre strength (g/tex), uniformity index (%), and micronaire (µg/inch)provides critical insights into thespinning performance, fibre maturity, and overall textile suitability of cotton samples. These parameters are essential for identifying superior entries suitable for further advancement in breeding programmes and potential release for commercial cultivation**.**

The comprehensive evaluation of these fibre quality parameters provides critical insights into the spinning performance, fibre maturity, and overall textile suitability of the cotton samples analysed. By integrating information from UHML, fibre strength, uniformity index, and micronaire, it is possible to identify entries that exhibit a balanced combination of desirable fibre traits. Such entries are of particular importance in cotton breeding programmes, as they contribute to the development of varieties that meet both agronomic and industrial requirements.

A. National Trials

I. Central Zone

(i) Br.02c – Initial Evaluation Trial of *Gossypium hirsutum* under Organic Conditions (Irrigated/Rainfed)

Observations

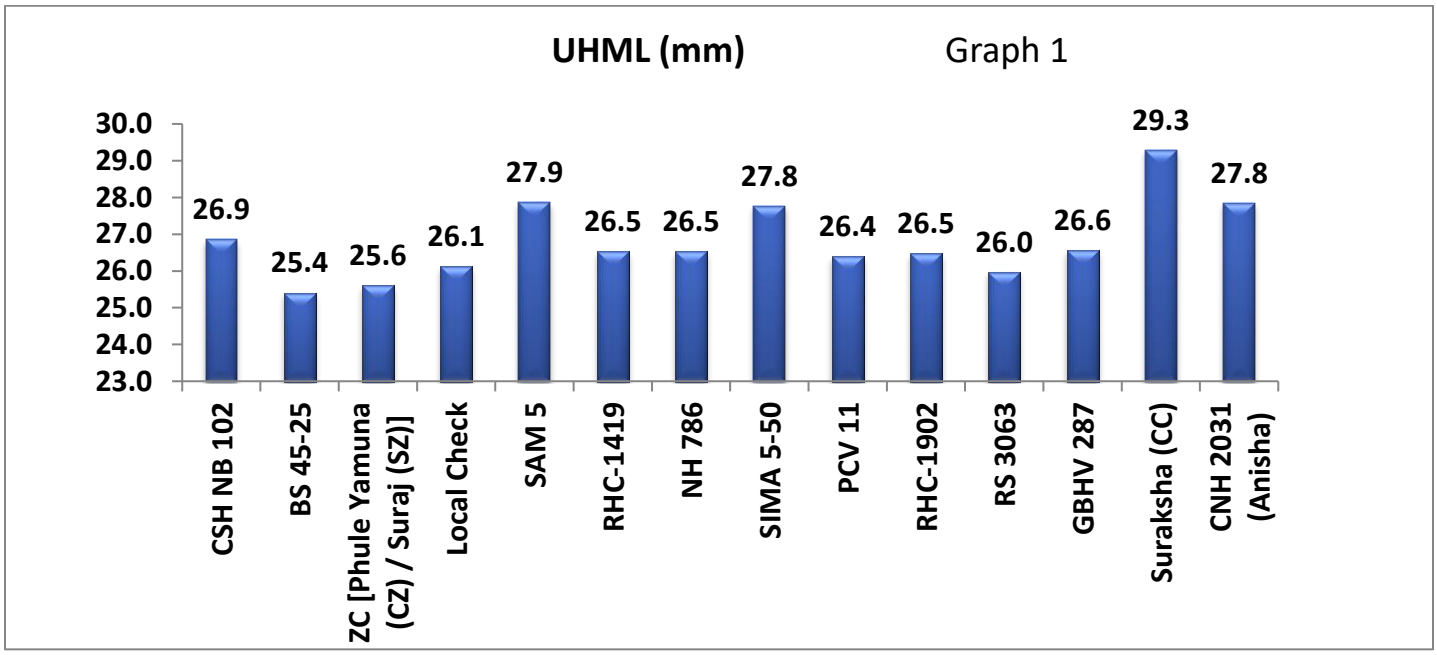
• Majority of the samples recorded UHML values in the range of 27–29 mm, indicating medium to long staple fibre category.

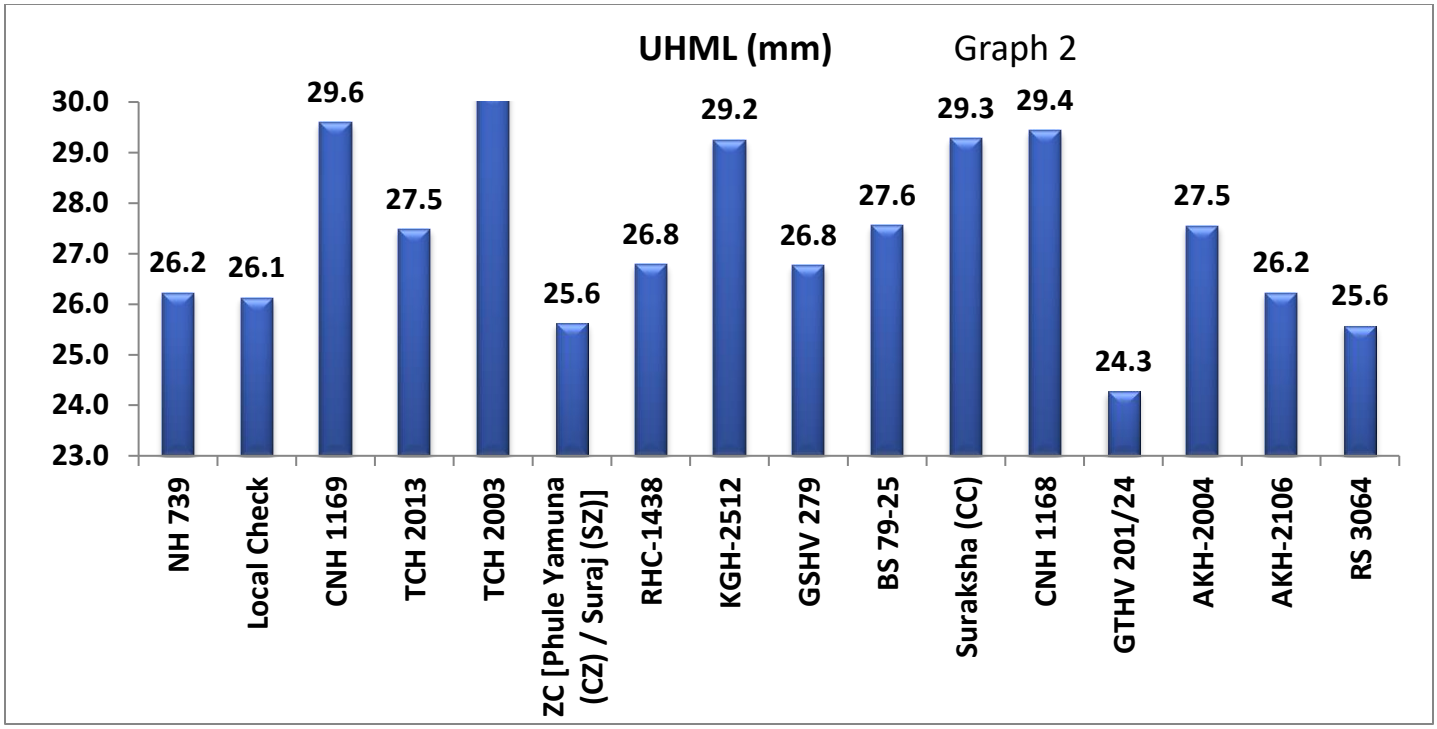
• Fibre strength of several entries was slightly lower than the recommended minimum benchmark, suggesting scope for improvement in fibre tenacity in some breeding lines.

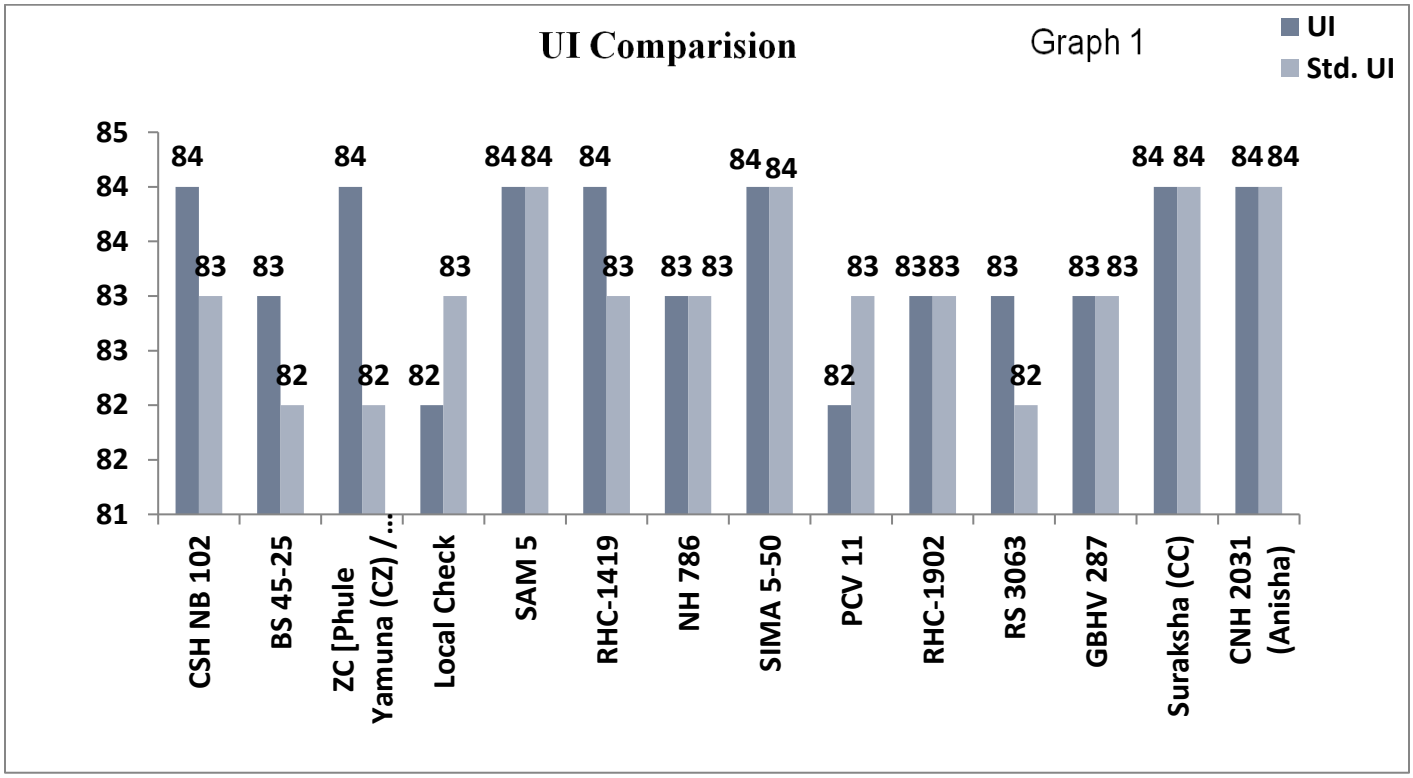
• The Uniformity Index (UI) values of a few entries were observed to be marginally below the desirable minimum level, indicating relatively higher short fibre content.

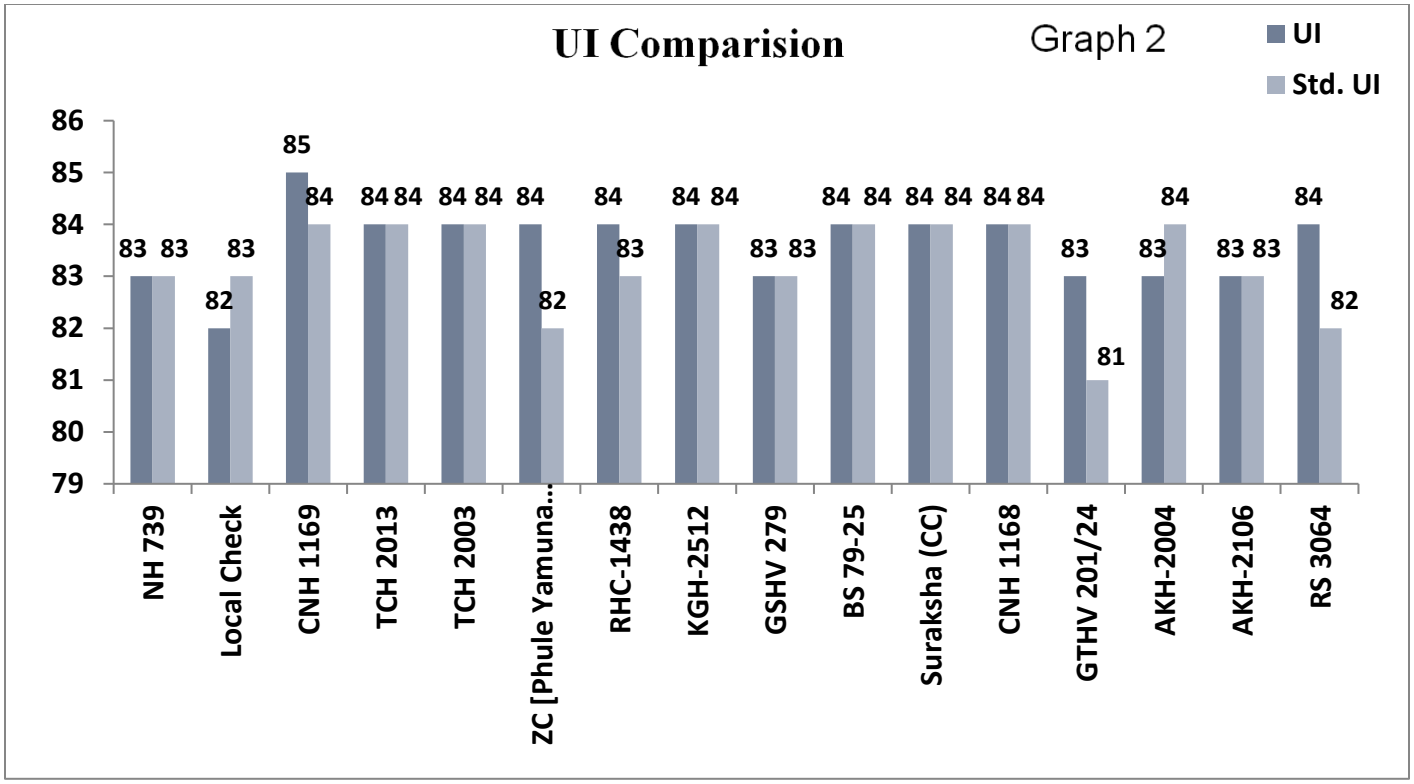
• Micronaire values of most entries were found to be towards the higher side of the acceptable range, indicating relatively coarser fibre in some samples.

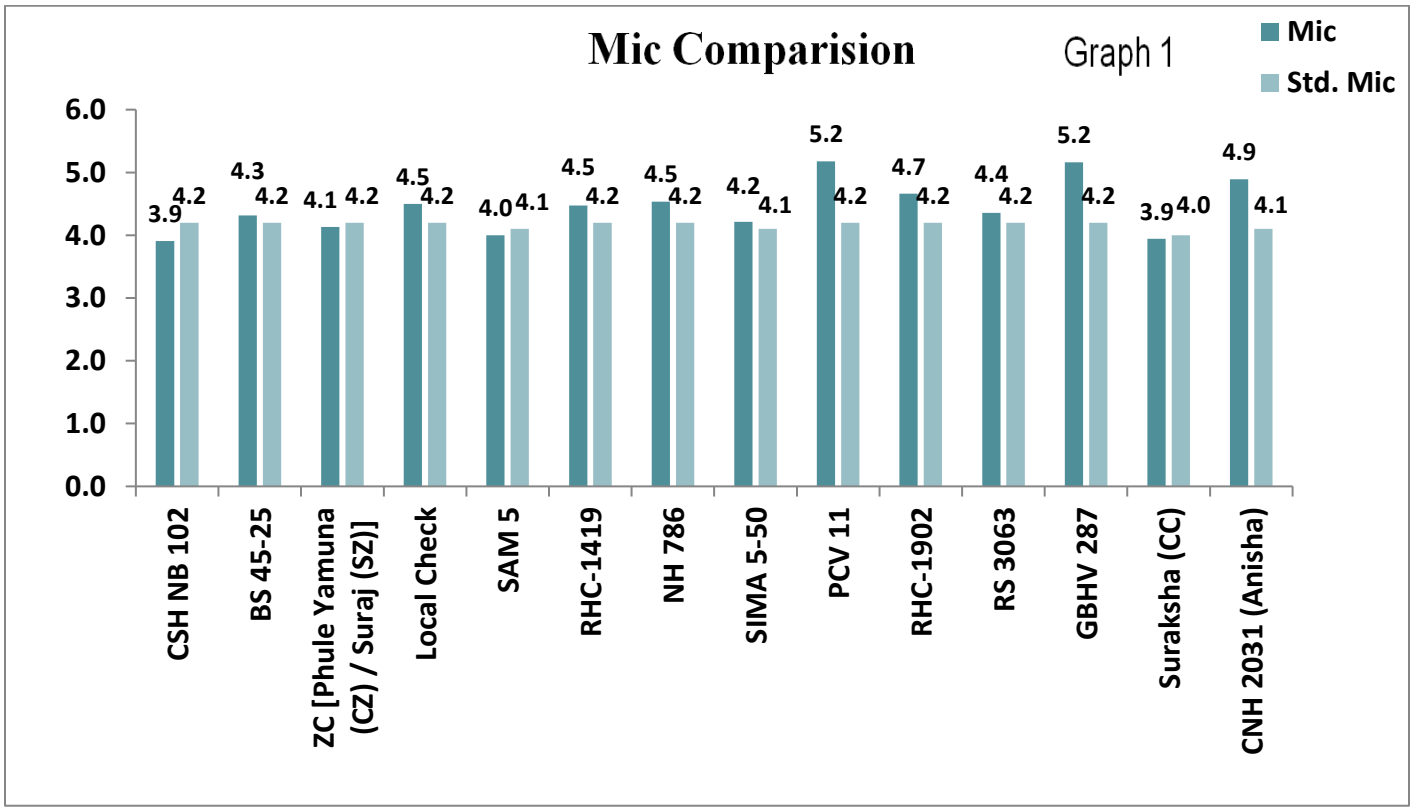
• Despite these variations, a few entries demonstrated balanced fibre quality parameters, combining acceptable fibre length, strength, and fineness.

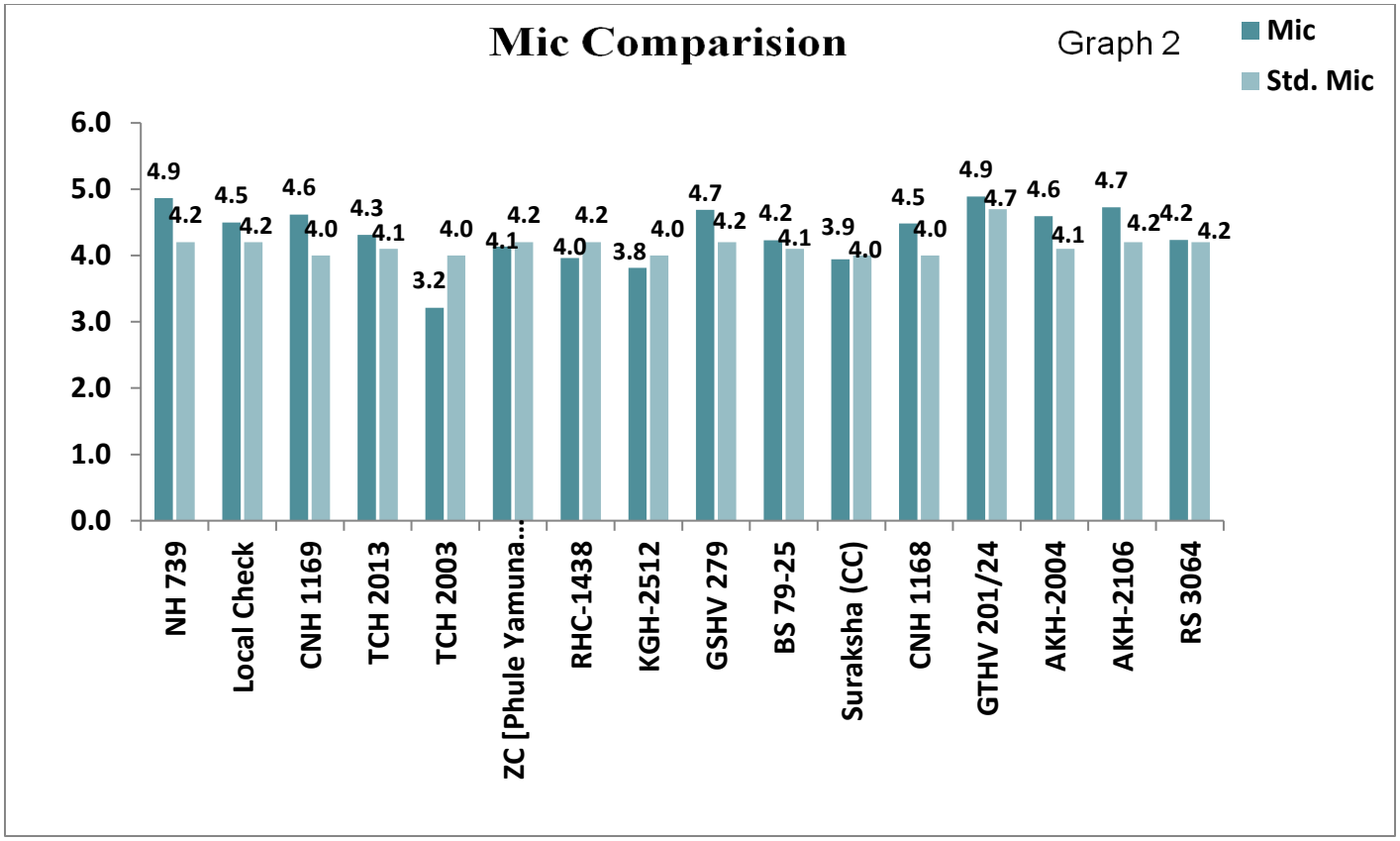


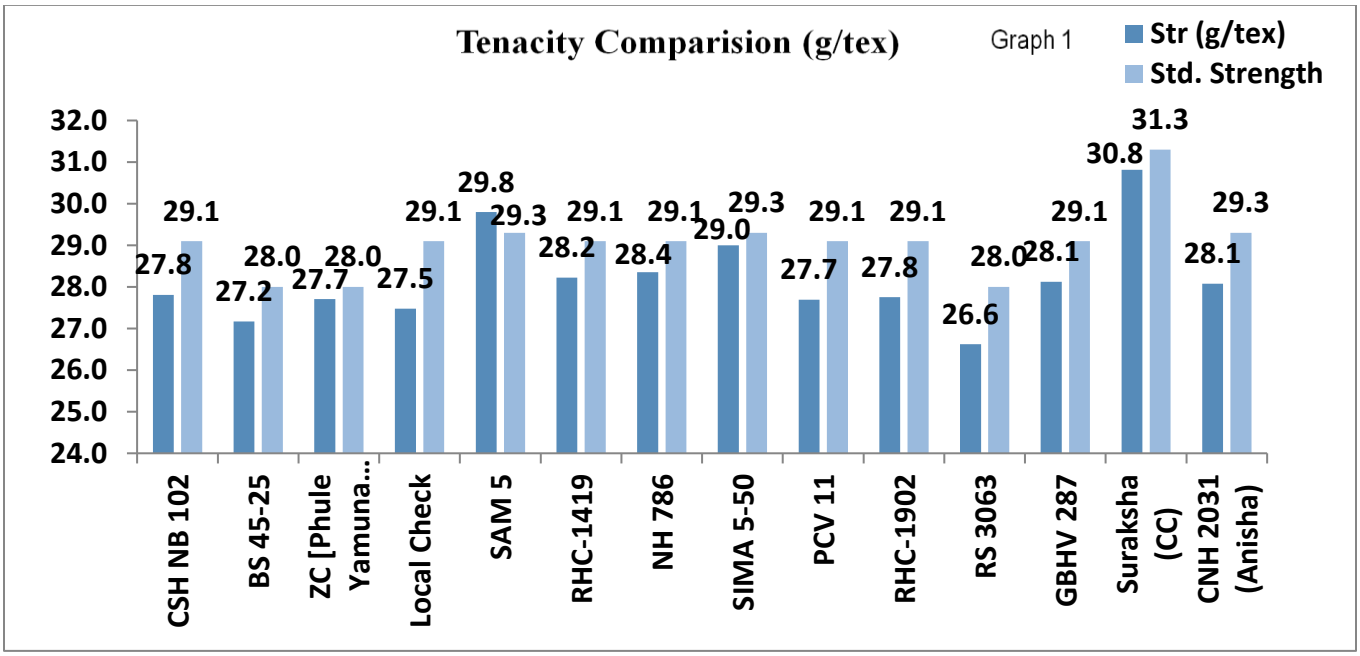

UHML (mm)
Graph 2
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
26.2
26.1
29.6
27.5
29.6
25.6
26.8
29.2
26.8
27.6
29.3
29.4
24.3
27.5
26.2
25.6
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule Yamuna (CZ) / Suraj (SZ)]
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064

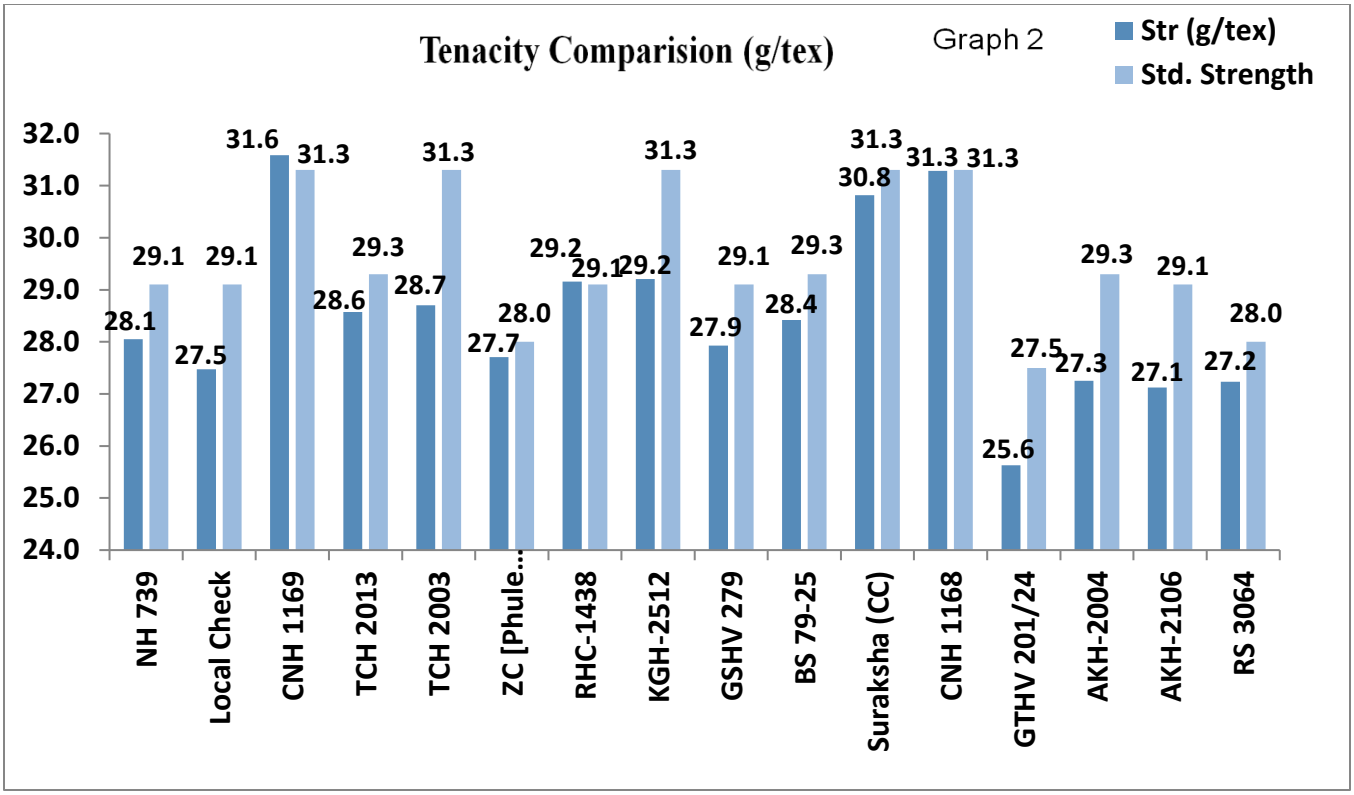

UI Comparision
Graph 1
UI
Std. UI
85
84
84
83
83
82
82
81
84
83
83
82
84
82
82
83
84
84
83
84
83
83
83
84
84
82
83
83
83
83
82
83
83
84
84
84
84
CSH NB 102
BS 45-25
ZC [Phule Yamuna (CZ) /...
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)


UI Comparision
Graph 2
UI
Std. UI
86
85
84
83
82
81
80
79
83 83
82 83
85 84
84 84
84 84
84 82
84 83
84 84
83 83
84 84
84 84
84 84
83 81
83 84
83 83
84 82
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule Yamuna...
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064


Mic Comparision
Graph 1
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
3.9 4.2
4.3 4.2
4.1 4.2
4.5 4.2
4.0 4.1
4.5 4.2
4.5 4.2
4.2 4.1
5.2 4.2
4.7 4.2
4.4 4.2
5.2 4.2
3.9 4.0
4.9 4.1
CSH NB 102
BS 45-25
ZC [Phule Yamuna (CZ) / Suraj (SZ)]
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)


Mic Comparision
Graph 2
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4.9 4.2
4.5 4.2
4.6 4.0
4.3 4.1
3.2 4.0
4.1 4.2
4.0 4.2
3.8 4.0
4.7 4.2
4.2 4.1
3.9 4.0
4.5 4.0
4.9 4.7
4.6 4.1
4.7 4.2
4.2 4.2
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule Yamuna...
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064


Tenacity Comparision (g/tex)
Graph 1
Str (g/tex)
Std. Strength
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
27.8 29.1
27.2 28.0
27.7 28.0
27.5 29.1
29.8 29.3
28.2 29.1
28.4 29.1
29.0 29.3
27.7 29.1
27.8 29.1
26.6 28.0
28.1 29.1
30.8 31.3
28.1 29.3
CSH NB 102
BS 45-25
ZC [Phule Yamuna...
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)



Recommendation

The entries CNH 1169, KGH 2512, SAM 5 and SIMA 5-50 are recommended for promotion due to their better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
Suraksha (CC)	**29.3**	**84**	**3.9**	**30.8**
CNH 1169	**29.6**	**85**	**4.6**	**31.6**
KGH 2512	**29.2**	**84**	**3.8**	**29.2**
SAM 5	27.9	84	4.0	29.8
SIMA 5-50	**27.8**	**84**	**4.2**	**29.0**

(ii) Br.22b – Initial Evaluation Trial of *Gossypium arboreum*

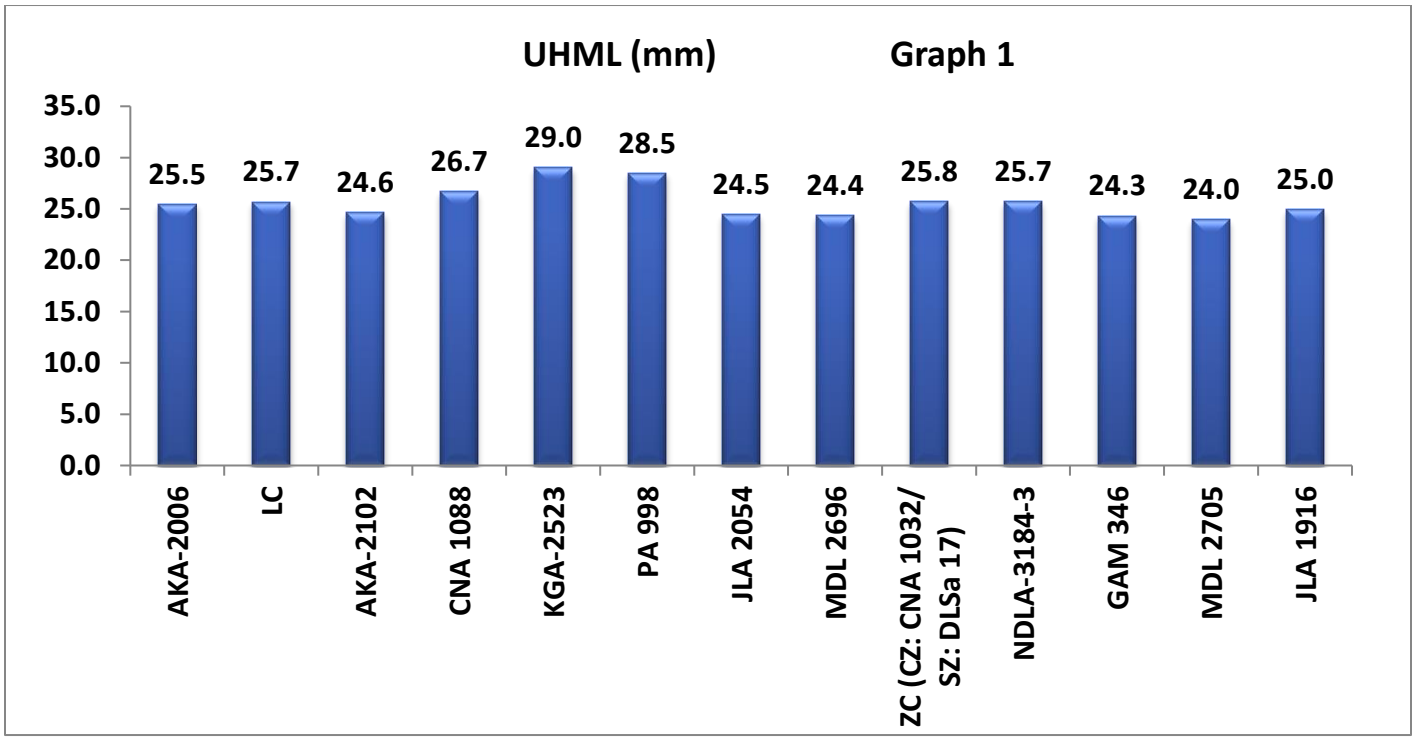
Observations

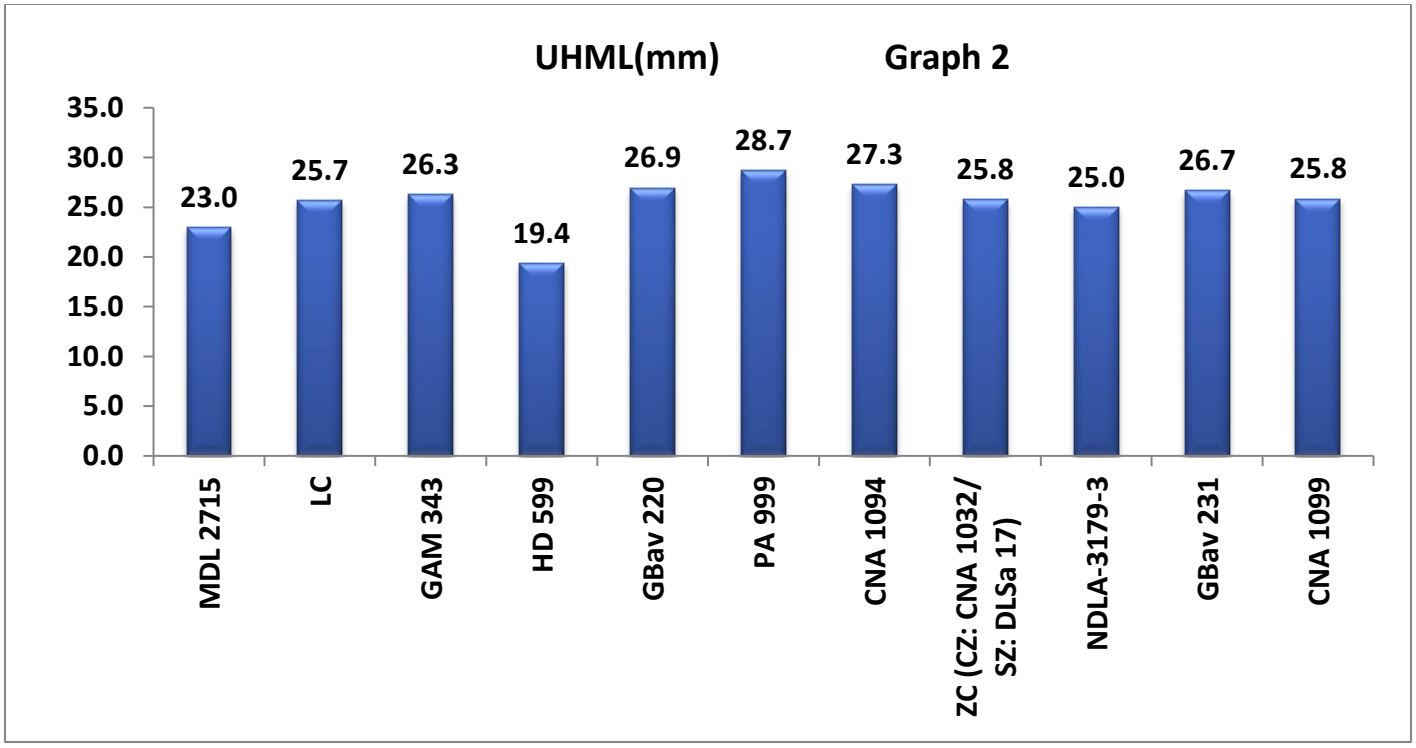
• Most entries recorded UHML values within the typical range of desi cottonvarieties.

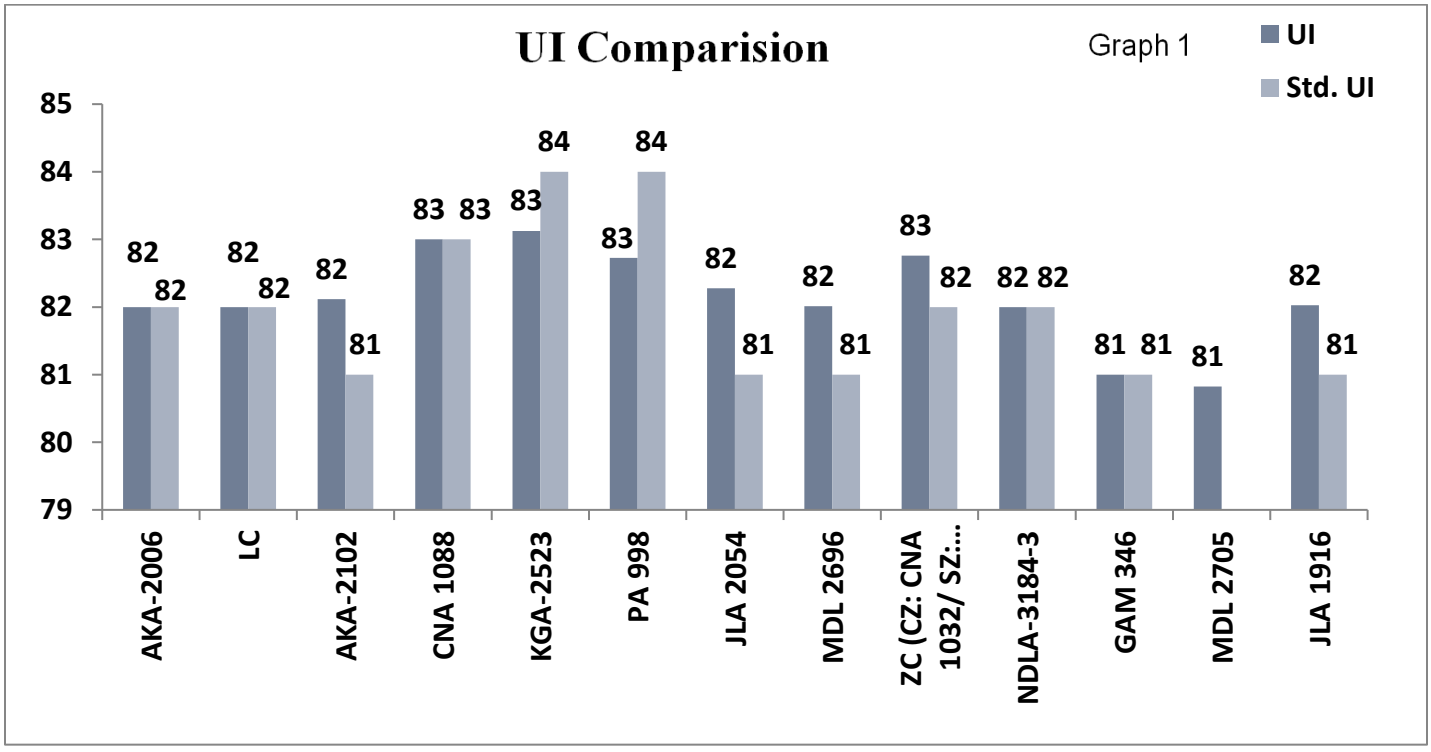
• The fibre strength values observed in the majority of the entries were moderate and comparable with standard arboreum varieties, indicating that several genotypes possess acceptable tenacity suitable for spinning. However, slight variation in strength values among entries suggests scope for further improvement through breeding selection.

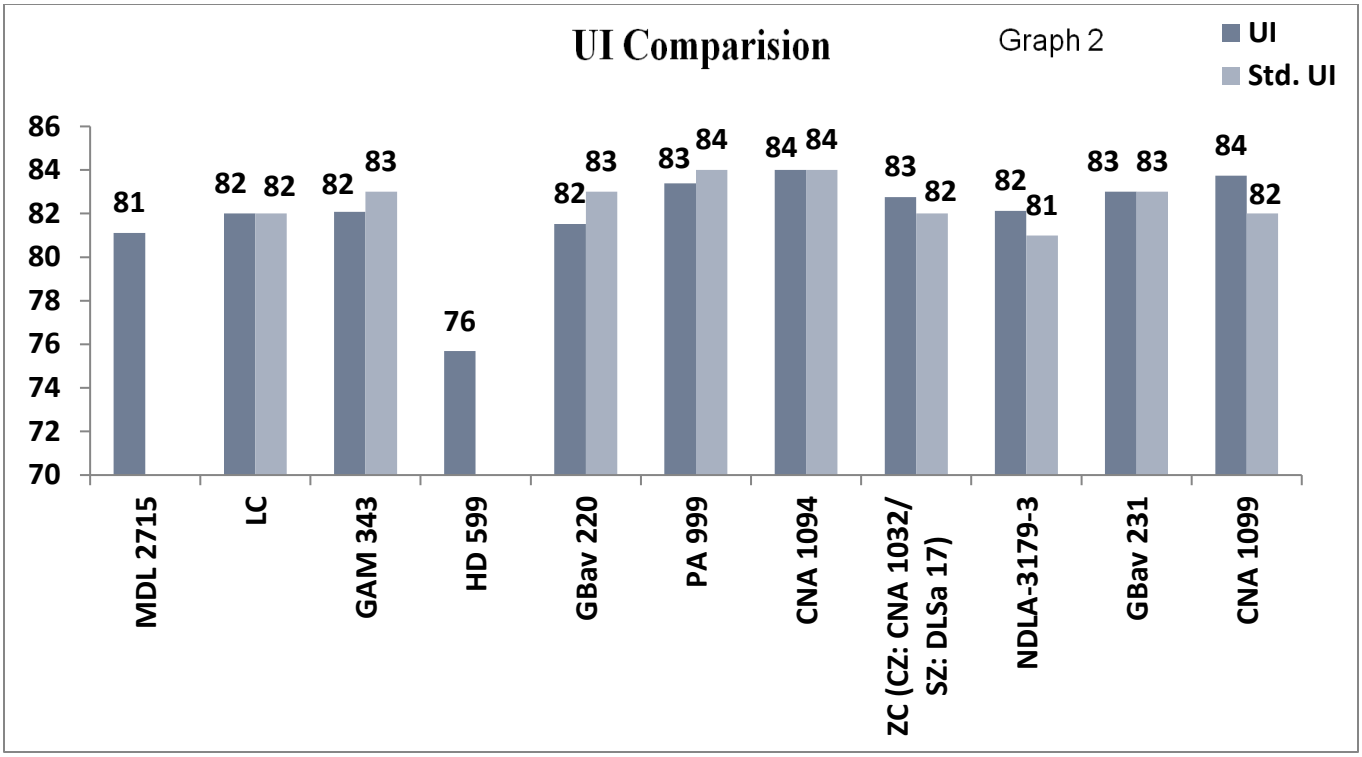
• The uniformity index values exhibited moderate variation among entries.

• Micronaire values were generally within acceptable limits, indicating satisfactory fibre maturity.




UHML(mm)
Graph 2
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
23.0
25.7
26.3
19.4
26.9
28.7
27.3
25.8
25.0
26.7
25.8
MDL 2715
LC
GAM 343
HD 599
GBav 220
PA 999
CNA 1094
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3179-3
GBav 231
CNA 1099


UI Comparision
Graph 1
UI
Std. UI
85
84
83
82
81
80
79
82 82
82 82
82 81
83 83
83 84
83 84
82 81
82 81
83 82
82 82
81 81
81
82 81
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ:...
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916


UI Comparision
Graph 2
UI
Std. UI
86
84
82
80
78
76
74
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70
81
82 82
82 83
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82 83
83 84
84 84
83 82
82 81
83 83
84 82
MDL 2715
LC
GAM 343
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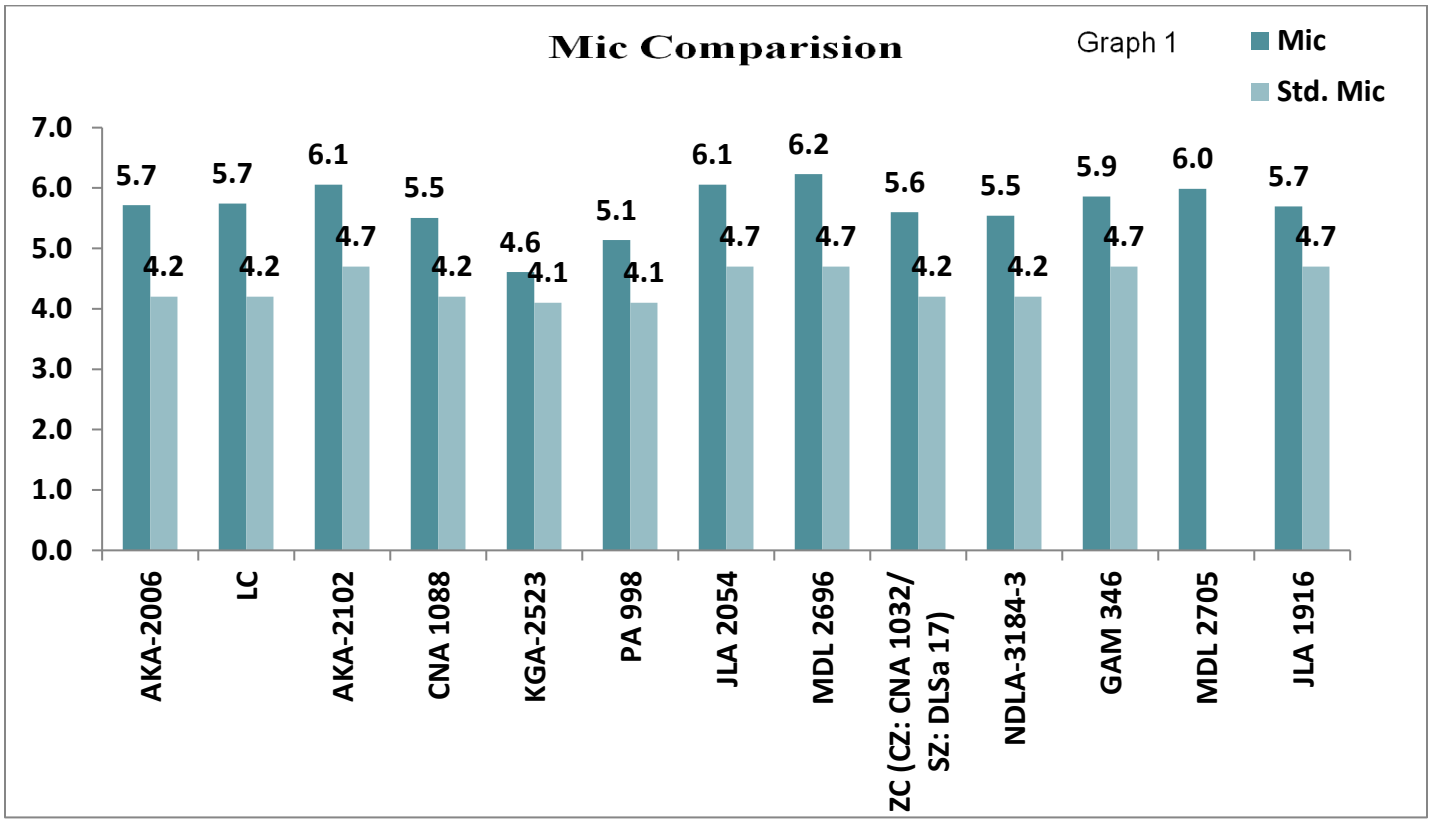
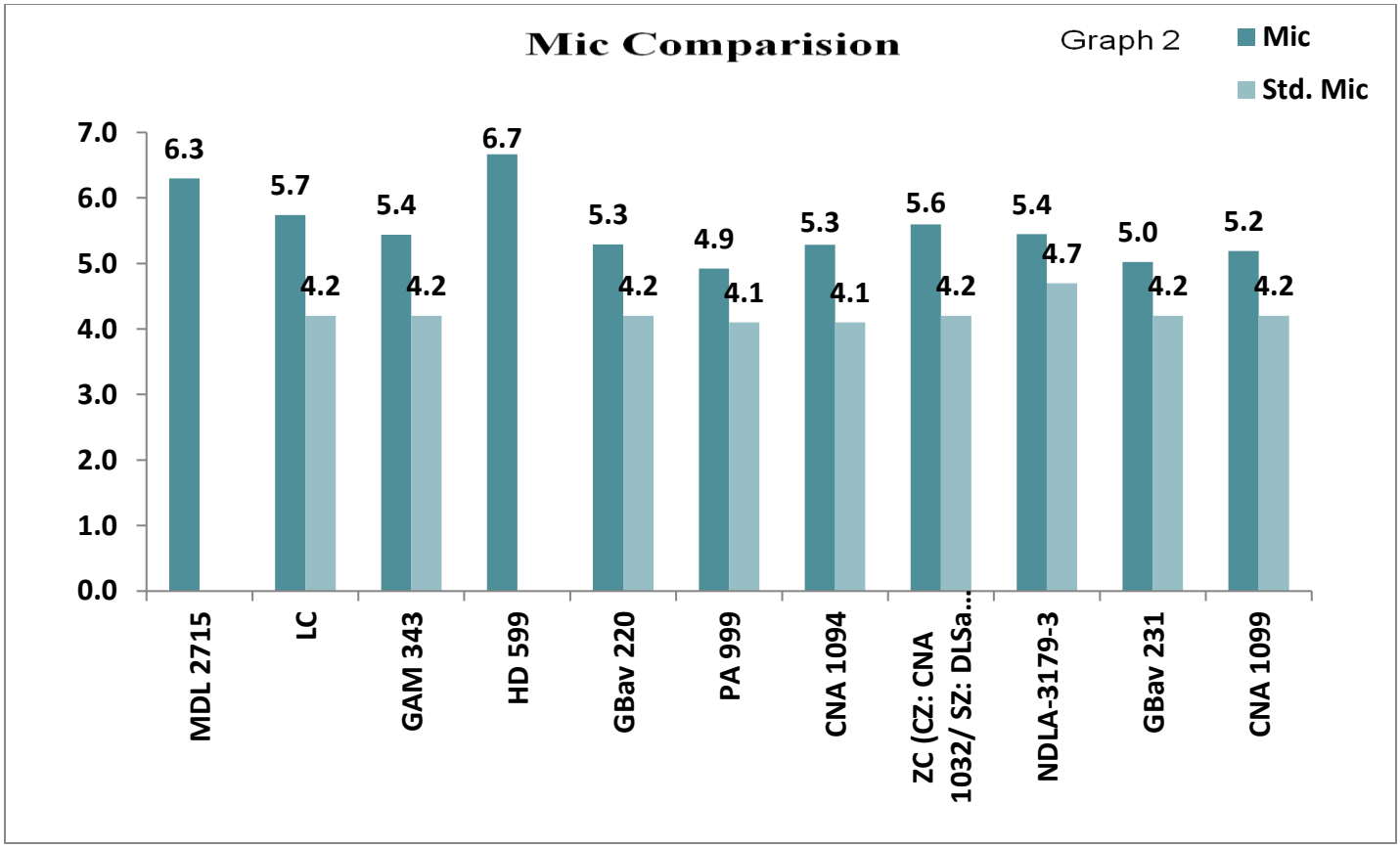
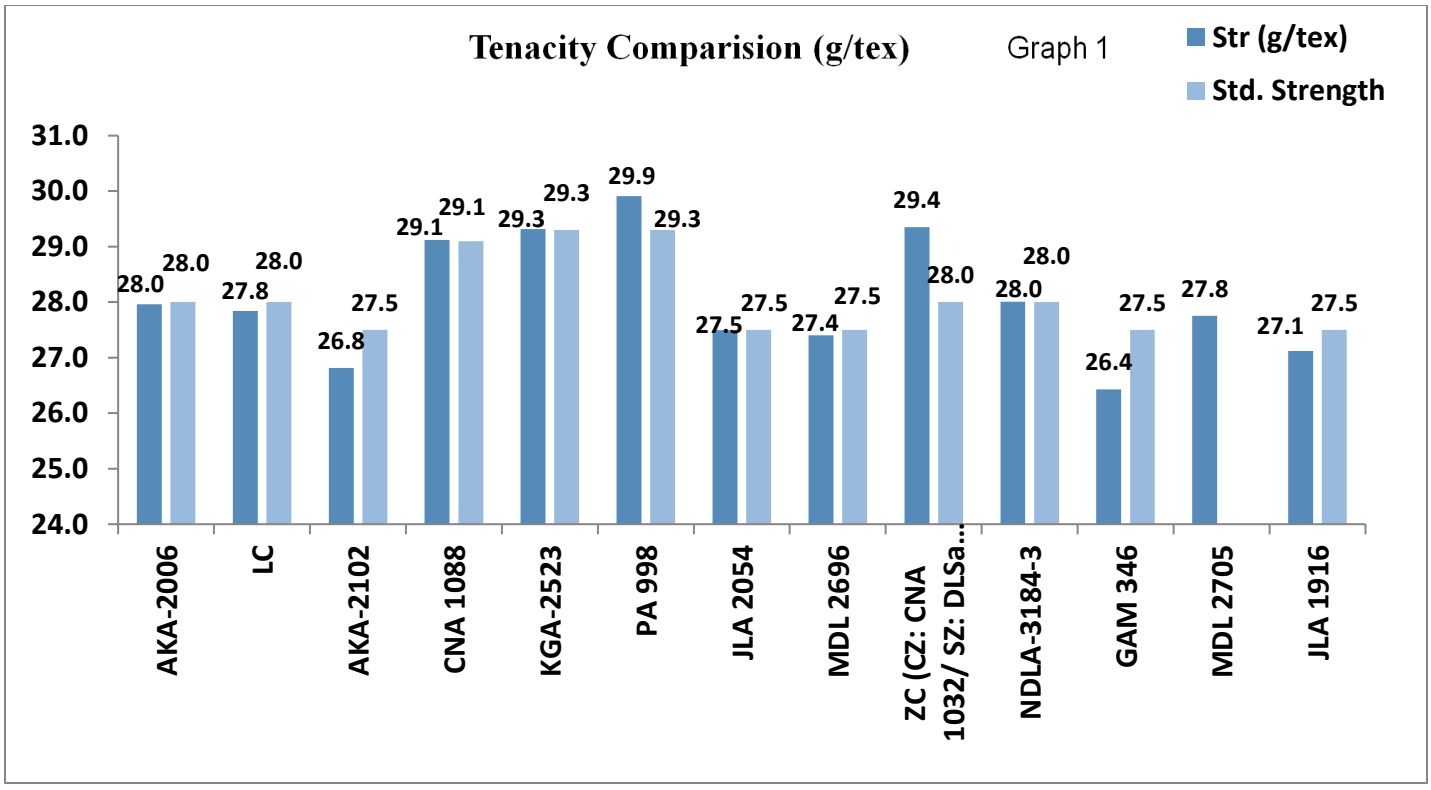
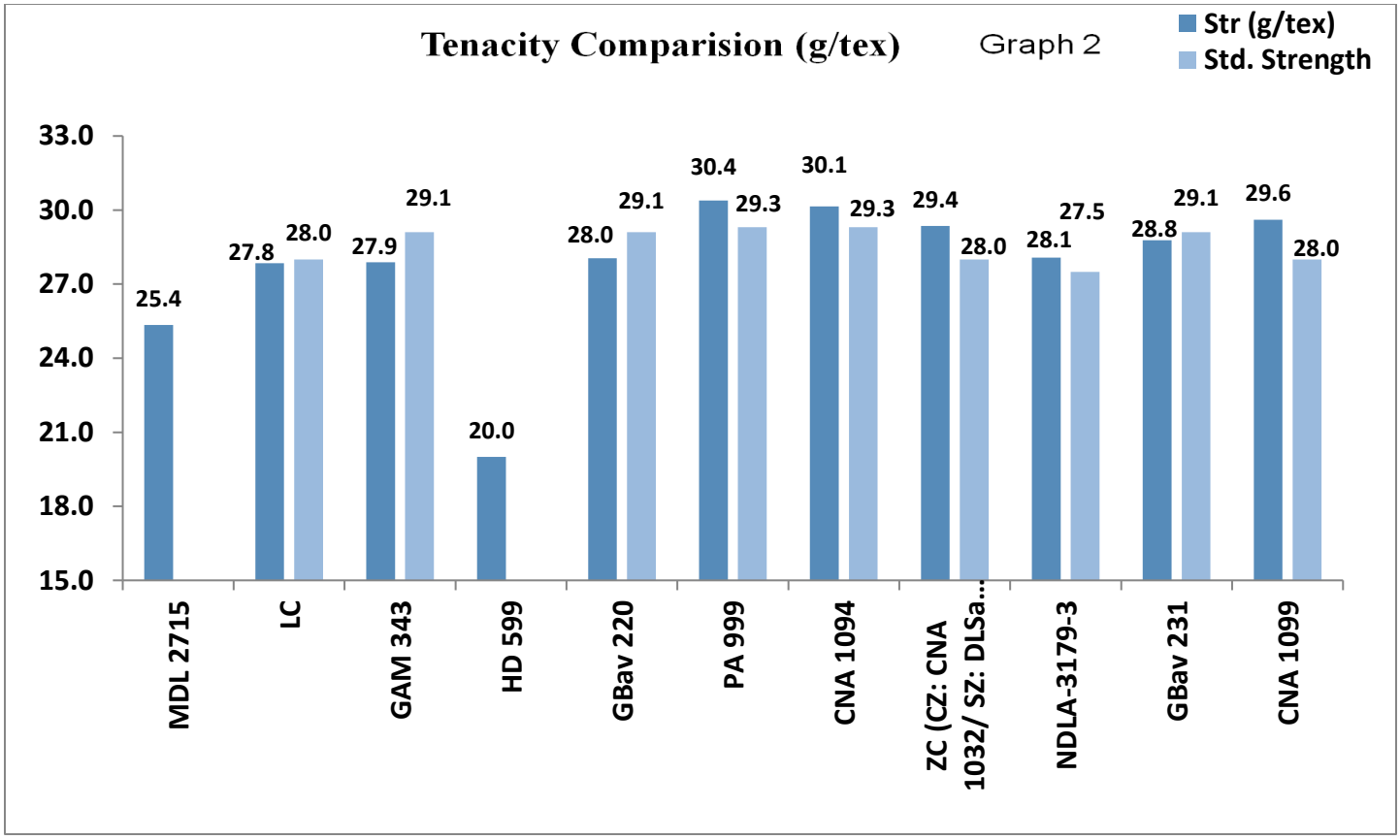

Mic Comparision
Graph 1
Mic
Std. Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
5.7 4.2
5.7 4.2
6.1 4.7
5.5 4.2
4.6 4.1
5.1 4.1
6.1 4.7
6.2 4.7
5.6 4.2
5.5 4.2
5.9 4.7
6.0
5.7 4.7
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916


Mic Comparision
Graph 2
Mic
Std. Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
6.3
5.7
4.2
5.4
4.2
6.7
5.3
4.2
4.9
4.1
5.3
4.1
5.6
4.2
5.4
4.7
5.0
4.2
5.2
4.2
MDL 2715
LC
GAM 343
HD 599
GBav 220
PA 999
CNA 1094
ZC (CZ: CNA 1032/ SZ: DLSa...
NDLA-3179-3
GBav 231
CNA 1099


Tenacity Comparision (g/tex)
Graph 1
Str (g/tex)
Std. Strength
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
28.0
28.0
27.8
28.0
26.8
27.5
29.1
29.1
29.3
29.3
29.9
29.3
27.5
27.5
27.4
27.5
29.4
28.0
28.0
28.0
26.4
27.5
27.8
27.1
27.5
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ: DLSa...
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916



Recommendation

The entries KGA-2528 and PA 999 are recommended for promotion due to their better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
ZC (CZ: CNA 1032/ SZ: DLSa 17)	25.8	83	5.6	29.4
KGA-2523	29.0	83	4.6	29.3
PA 999	28.7	83	4.9	30.4

The other entries except HD 599 showed better fibre quality parameters except Micronaire.

(iii) Br.32b – Initial Evaluation Trial of *Gossypium herbaceum* (Rainfed)

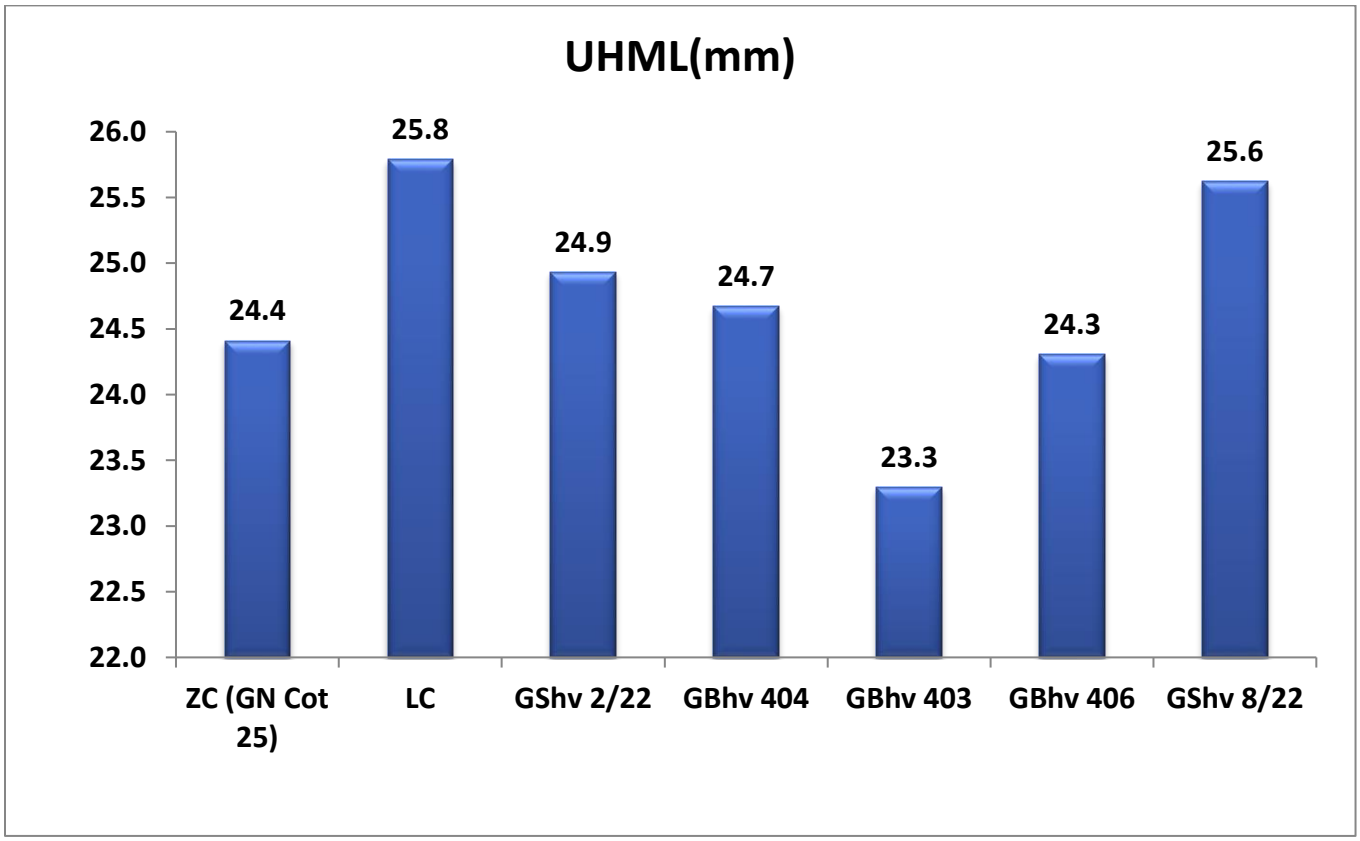
Observations

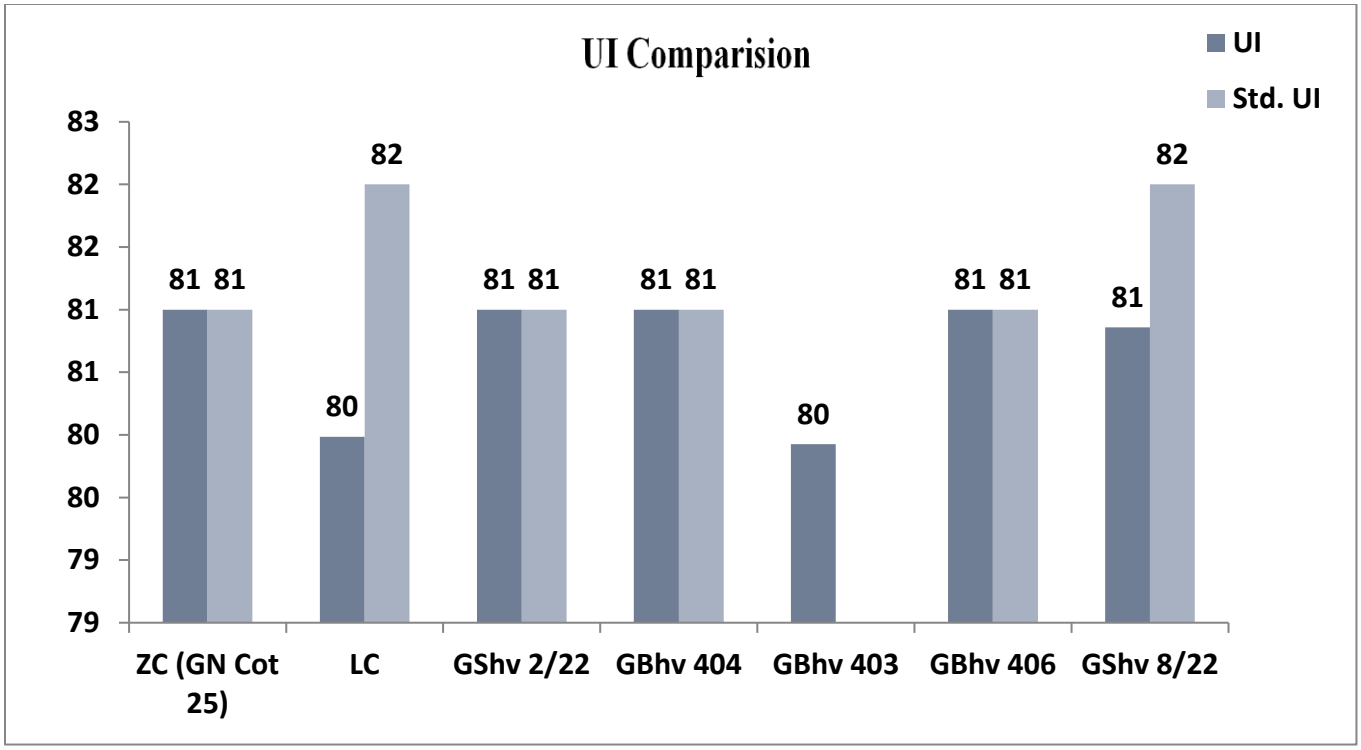
• Majority of the entries exhibited moderate fibre length (24-25 mm) typical of herbaceum cotton.

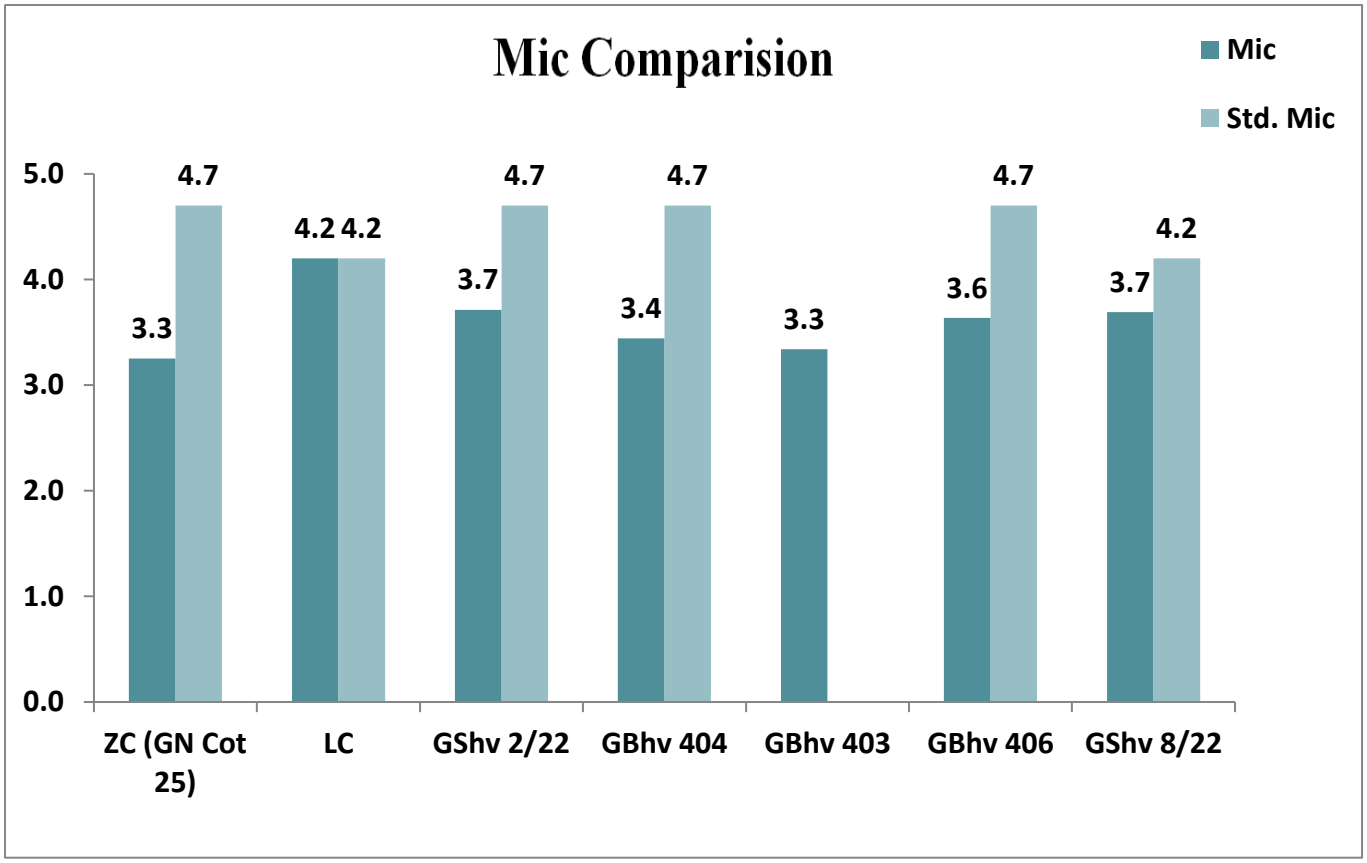
• Fibre strength values were within acceptable limits, though variation among entries was observed.

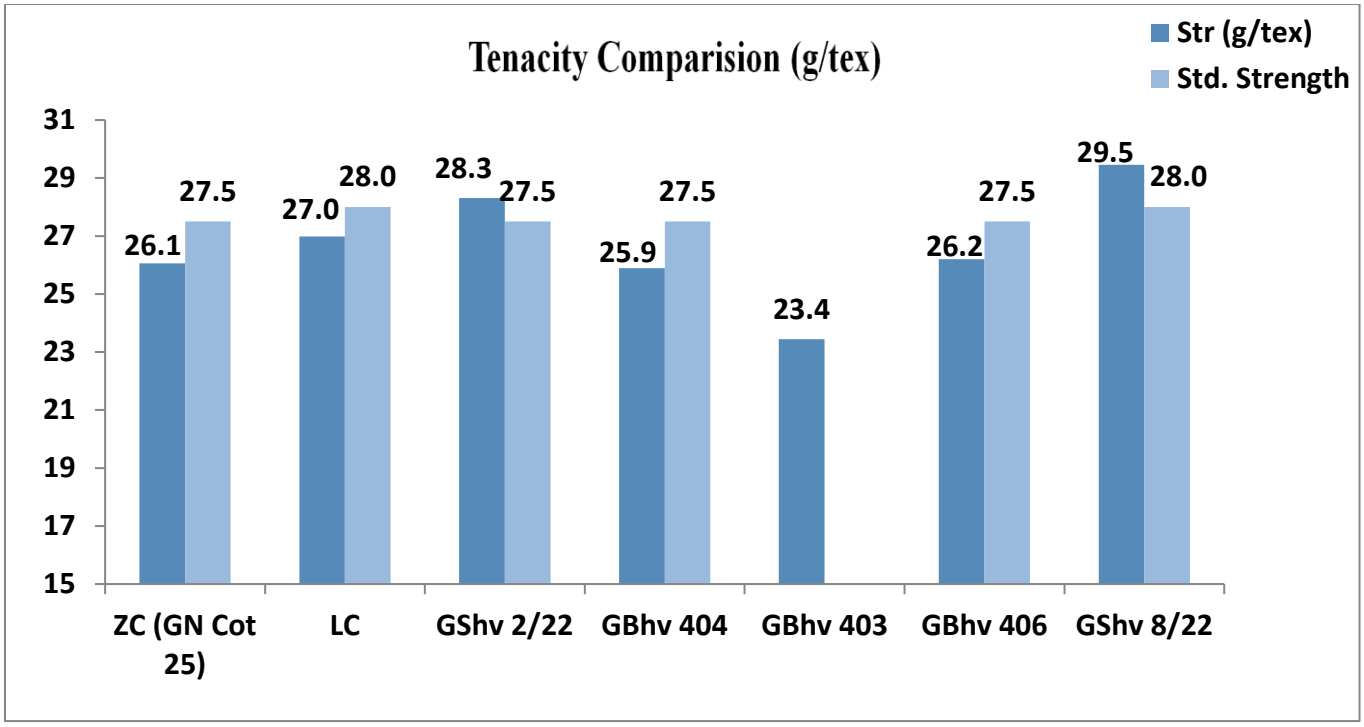
• Uniformity index values were moderate, reflecting little variability in fibre length distribution.

• Micronaire values were lower than the maximum required value




UI Comparision
UI
Std. UI
83
82
82
81
81
80
80
79
79
81 81
80 82
81 81
81 81
80
81 81
81 82
ZC (GN Cot 25)
LC
GShv 2/22
GBhv 404
GBhv 403
GBhv 406
GShv 8/22


Mic Comparision
Mic
Std. Mic
5.0
4.0
3.0
2.0
1.0
0.0
3.3 4.7
4.2 4.2
3.7 4.7
3.4 4.7
3.3
3.6 4.7
3.7 4.2
ZC (GN Cot 25)
LC
GShv 2/22
GBhv 404
GBhv 403
GBhv 406
GShv 8/22



Recommendation

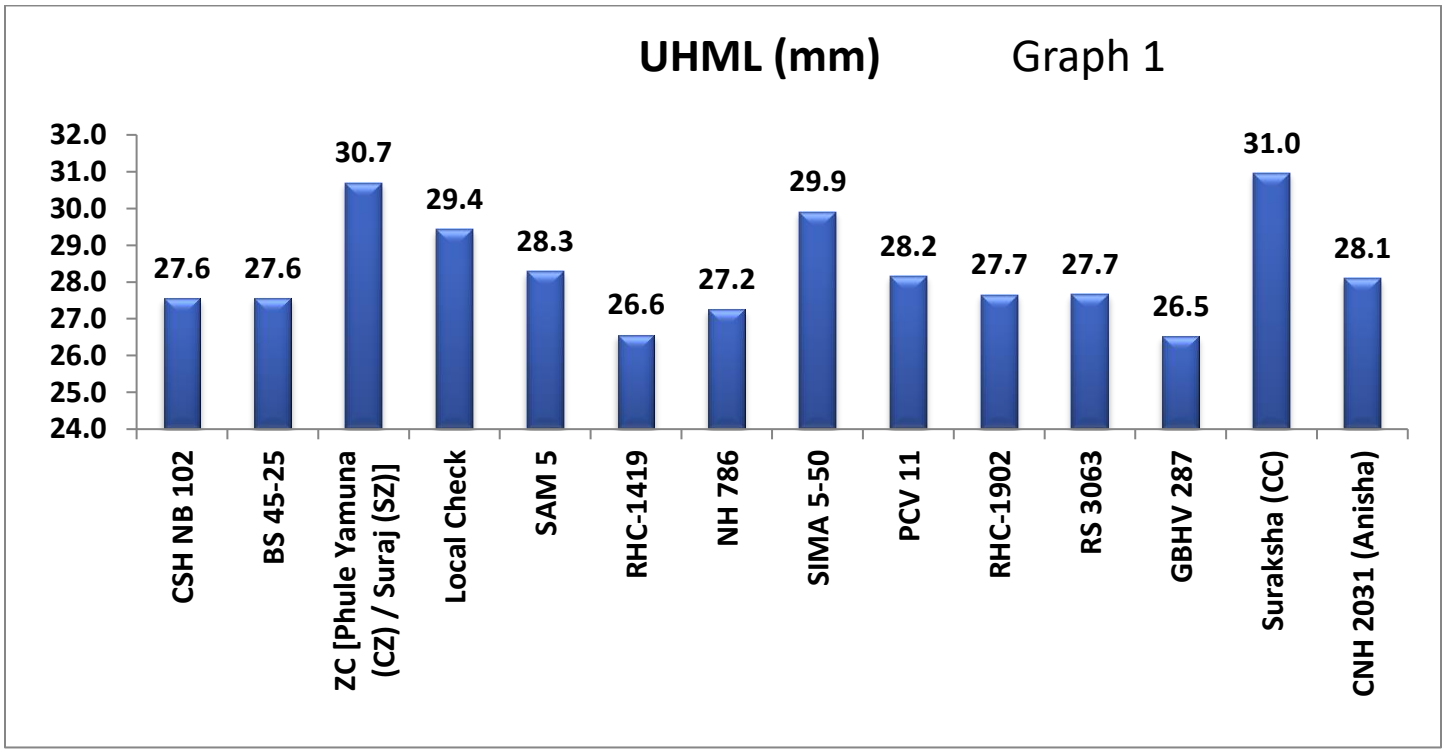
The fibre quality of the entries under this trials showed varied results in the micronaire value in different locations. Hence, it is not able to ascertain the cumulative fibre qualities. Based on Bharuch centre results, the entries such as GBhv 406 , 404 & 403 , GShv 2/22 showed comparable fibre qualities like that of check varieties.

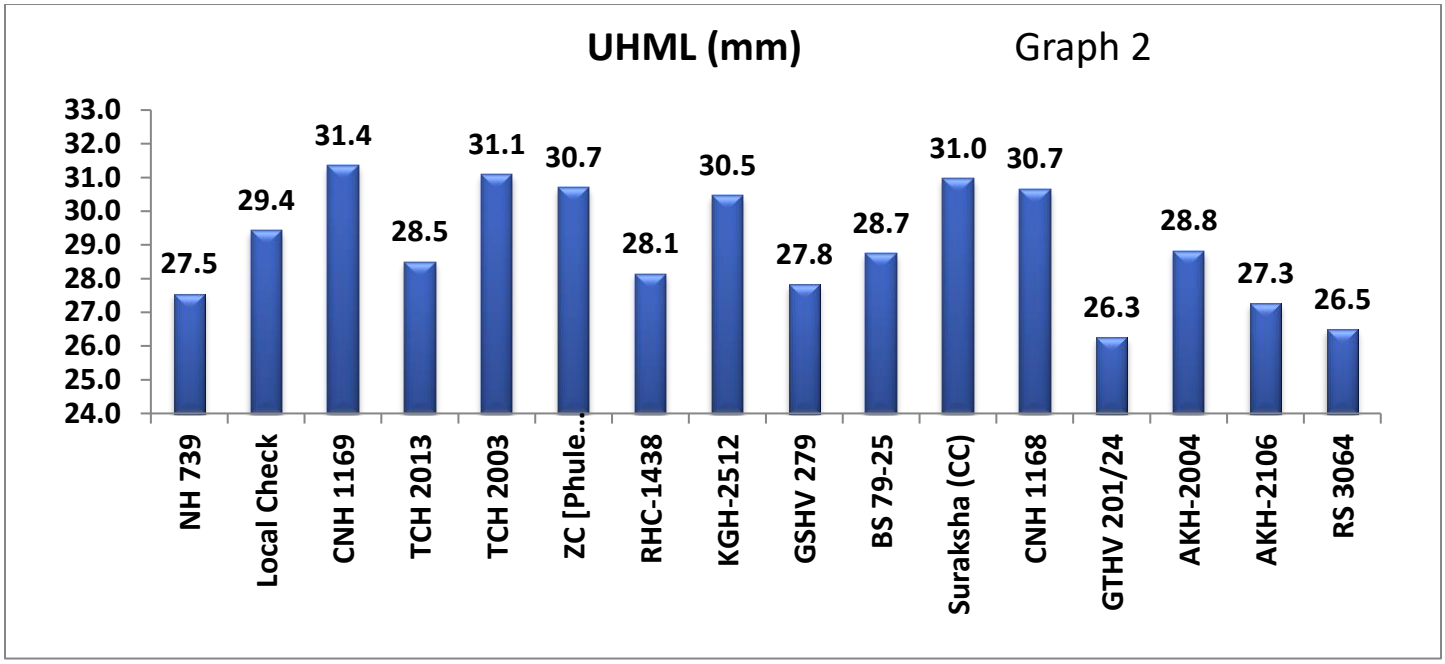
II. South Zone

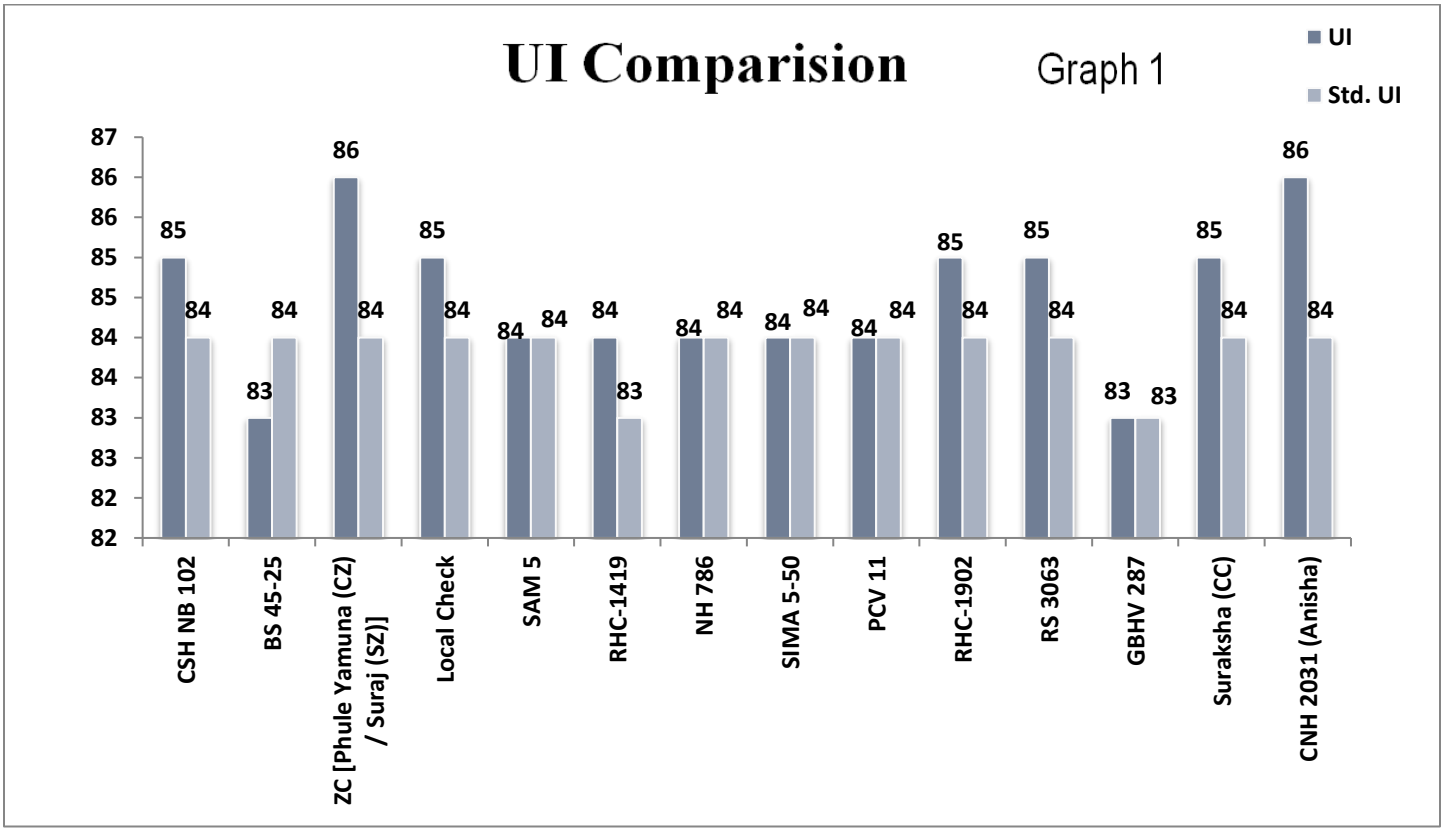
(i) National: Br. 02 c - IET of G. hirsutum under organic condition

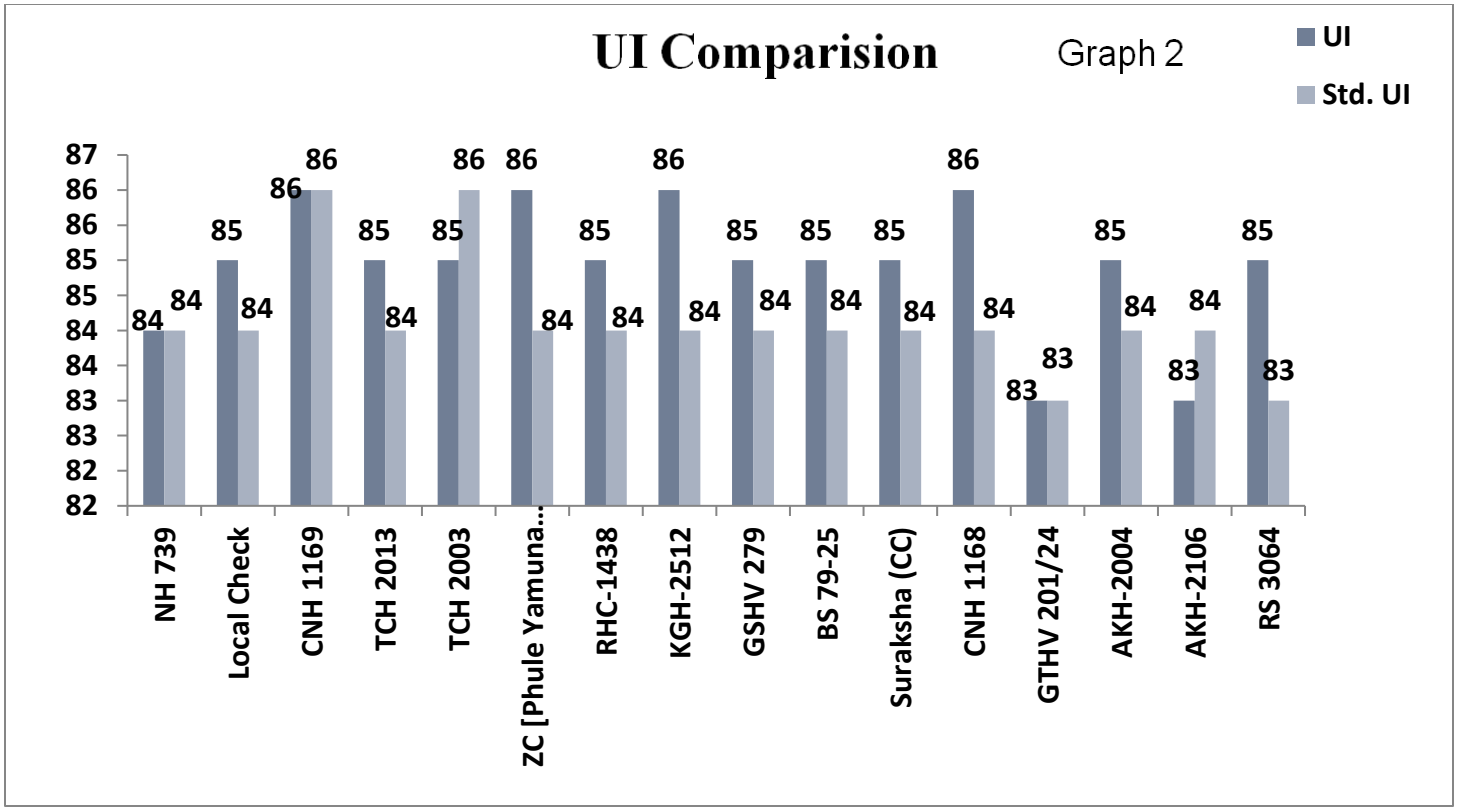
Observations

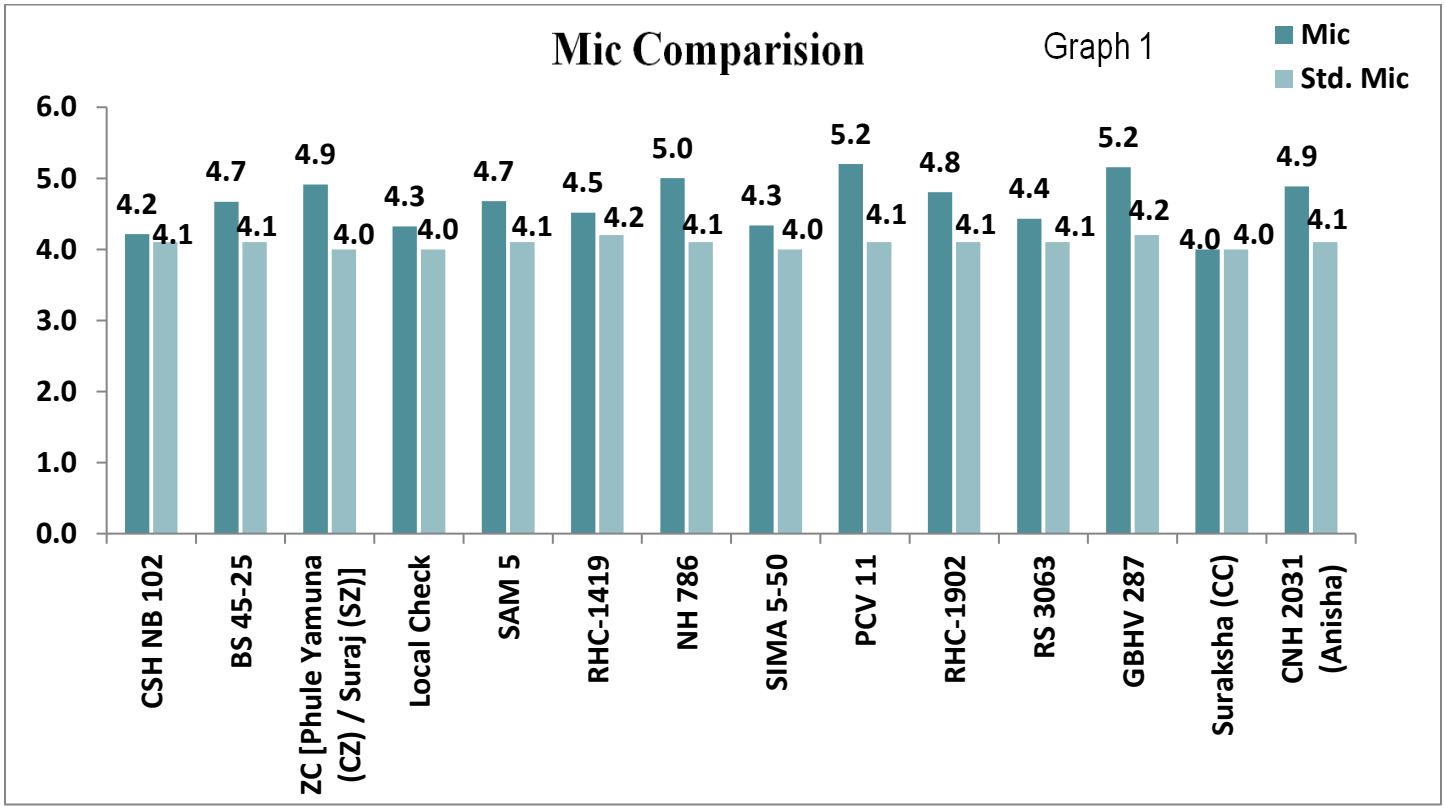
- Most entries recorded UHML values between 27–30 mm, indicating moderate staple length.
- Fibre strength values were moderate, with some entries approaching desirable levels.
- Uniformity index values were satisfactory in several entries.
- Micronaire values were slightly higher than the recommended range in a few samples.

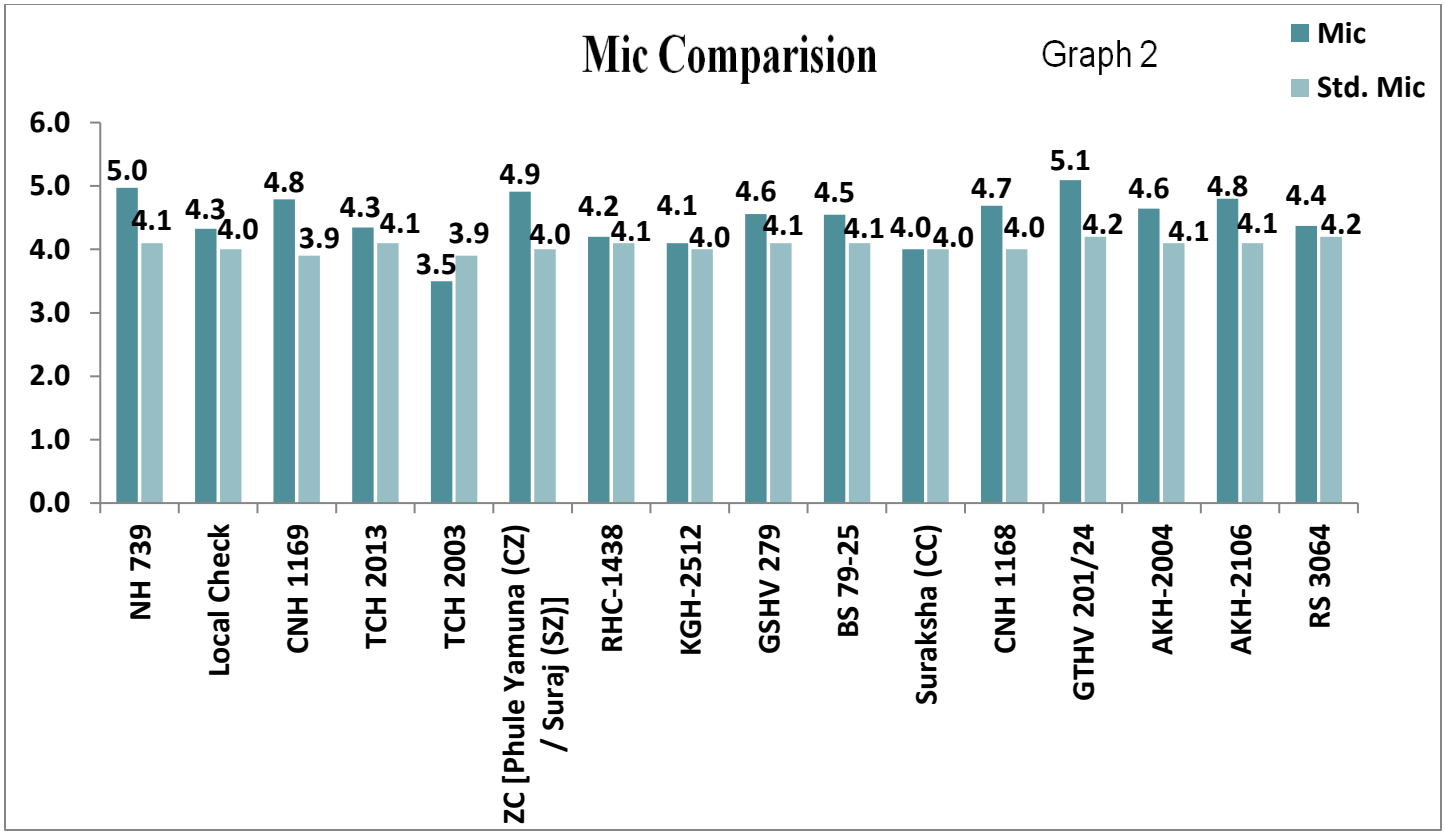


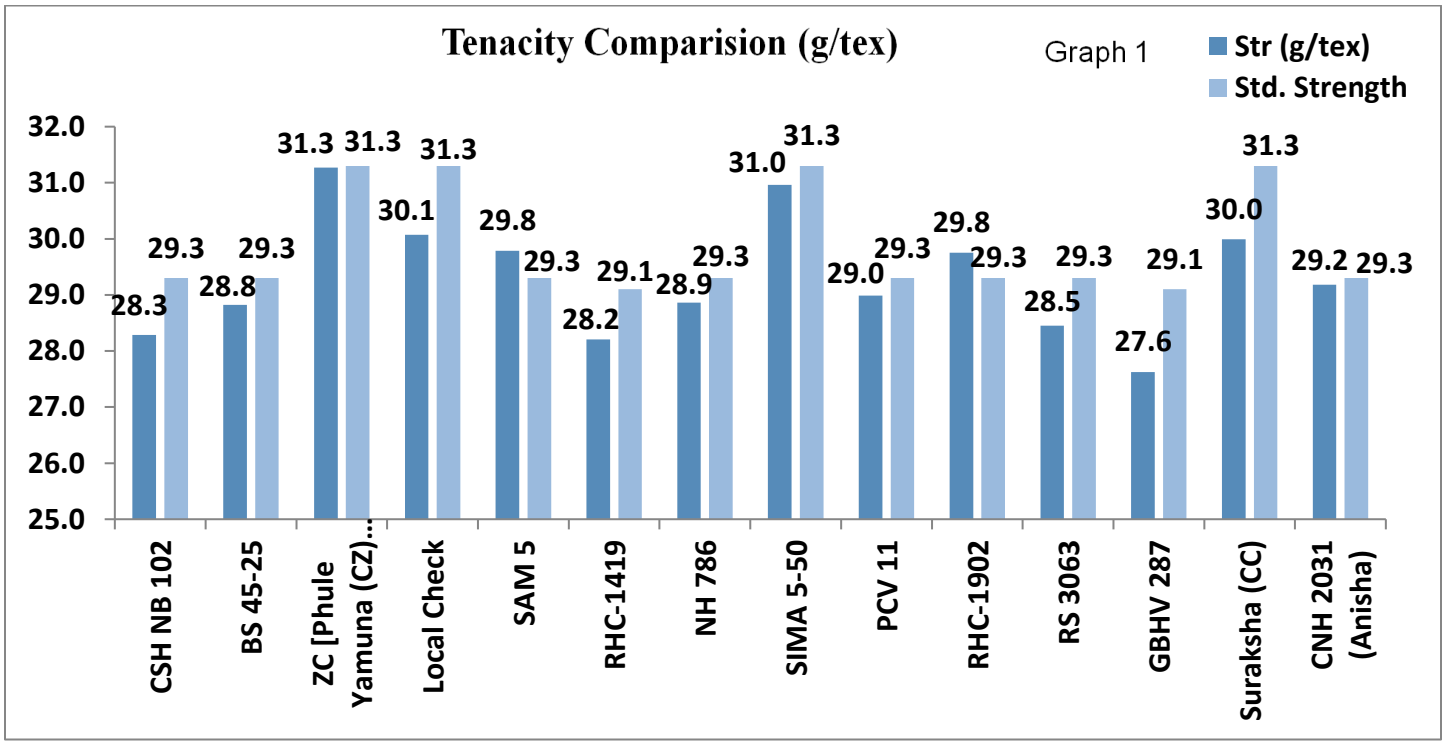

UHML (mm)
Graph 2
33.0
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
27.5
29.4
31.4
28.5
31.1
30.7
28.1
30.5
27.8
28.7
31.0
30.7
26.3
28.8
27.3
26.5
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule...
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064

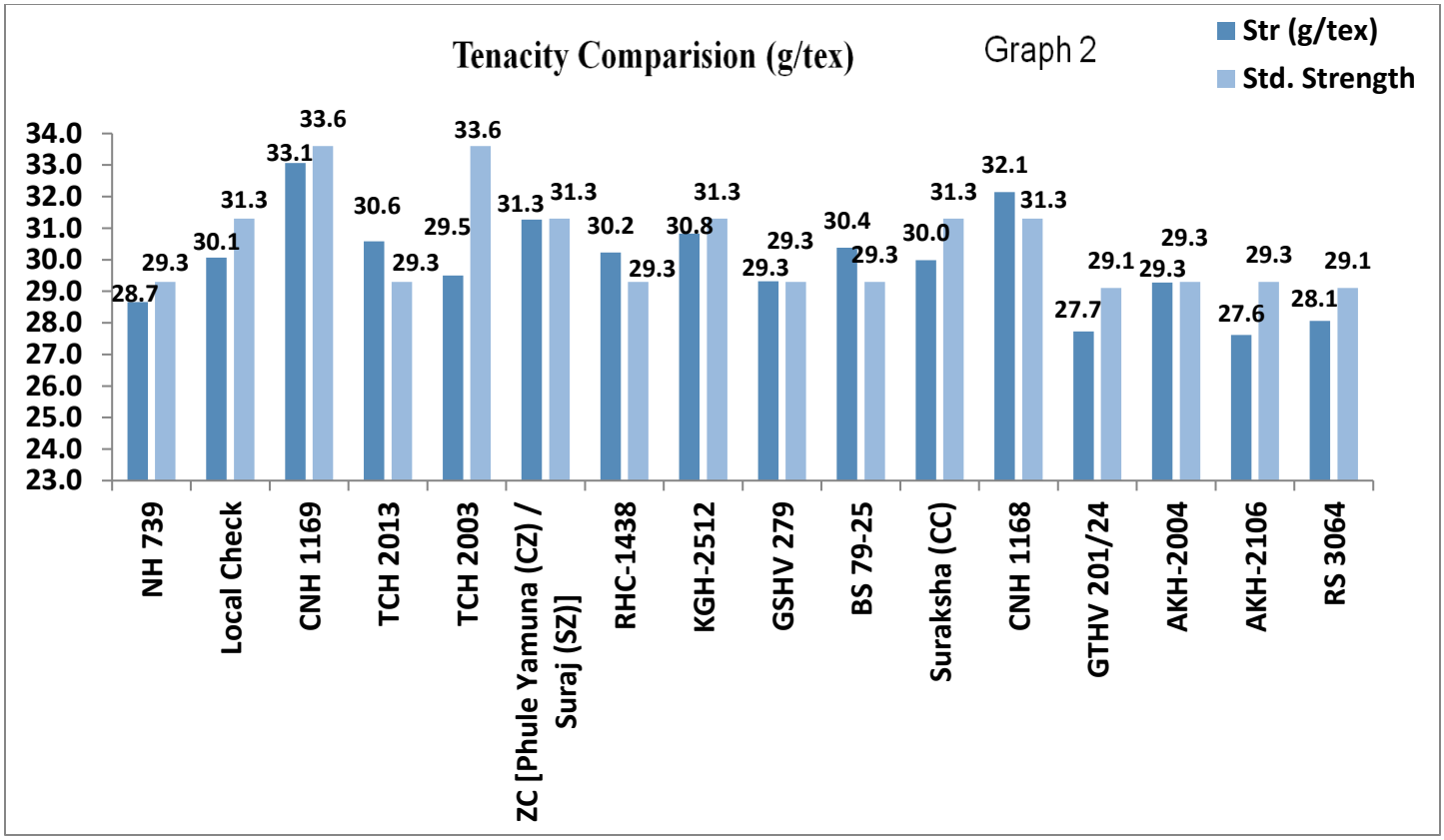

UI Comparision
Graph 1
UI
Std. UI
87
86
86
85
85
84
84
83
83
82
82
85
84
83
84
86
84
85
84
84
84
84
84
84
84
84
84
84
84
84
84
84
85
84
85
84
83
83
85
84
86
84
CSH NB 102
BS 45-25
ZC [Phule Yamuna (CZ) / Suraj (SZ)]
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)


UI Comparision
Graph 2
UI
Std. UI
87
86
86
85
85
84
84
83
83
82
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule Yamuna...
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064


Mic Comparision
Graph 1
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
CSH NB 102
BS 45-25
ZC [Phule Yamuna (CZ) / Suraj (SZ)]
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)


Mic Comparision
Graph 2
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
5.0 4.1
4.3 4.0
4.8 3.9
4.3 4.1
3.5 3.9
4.9 4.0
4.2 4.1
4.1 4.0
4.6 4.1
4.5 4.1
4.0 4.0
4.7 4.0
5.1 4.2
4.6 4.1
4.8 4.1
4.4 4.2
NH 739
Local Check
CNH 1169
TCH 2013
TCH 2003
ZC [Phule Yamuna (CZ) / Suraj (SZ)]
RHC-1438
KGH-2512
GSHV 279
BS 79-25
Suraksha (CC)
CNH 1168
GTHV 201/24
AKH-2004
AKH-2106
RS 3064


Tenacity Comparision (g/tex)
Graph 1
Str (g/tex)
Std. Strength
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
28.3 29.3
28.8 29.3
31.3 31.3
30.1 31.3
29.8 29.3
28.2 29.1
28.9 29.3
31.0 31.3
29.0 29.3
29.8 29.3
28.5 29.3
27.6 29.1
30.0 31.3
29.2 29.3
CSH NB 102
BS 45-25
ZC [Phule Yamuna (CZ)...
Local Check
SAM 5
RHC-1419
NH 786
SIMA 5-50
PCV 11
RHC-1902
RS 3063
GBHV 287
Suraksha (CC)
CNH 2031 (Anisha)



Recommendation

The entries CNH 1169, CNH 1168 and KGH-2512 are recommended for promotion due to their better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
Suraksha (CC)	31.0	85	4.0	30.0
CNH 1169	31.4	86	4.8	33.1
KGH-2512	30.5	86	4.1	30.8
CNH 1168	30.7	86	4.7	32.1

(ii) Br. 22b - IET of G. arboreum

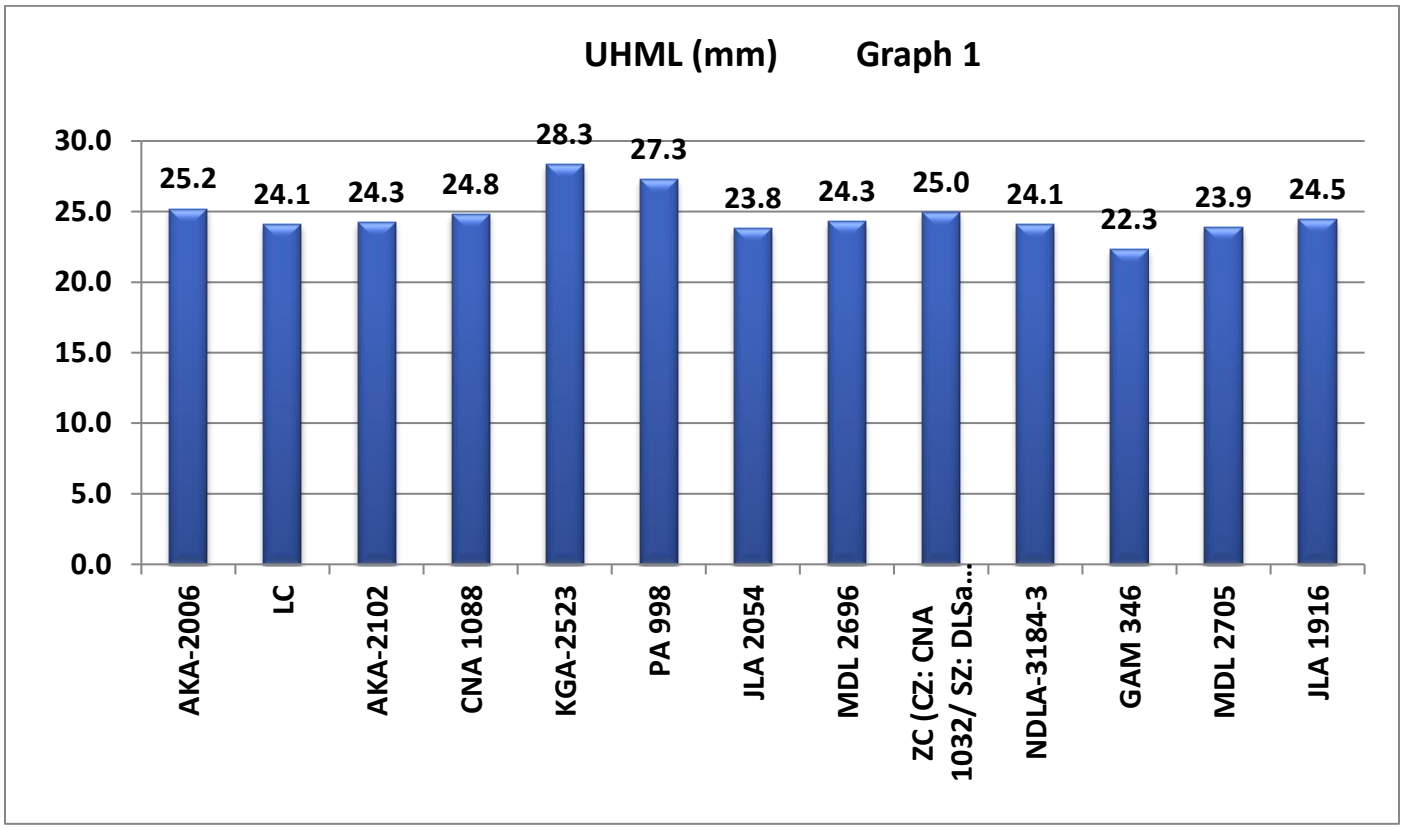
Observations

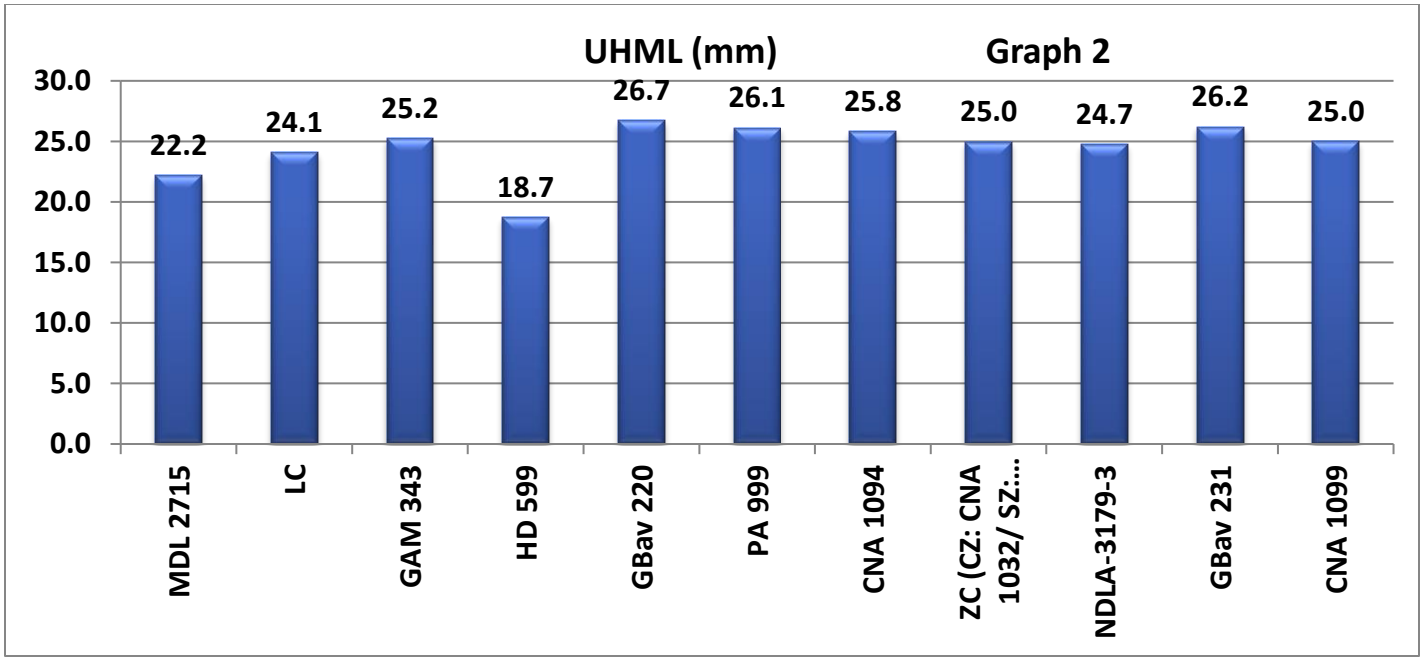
• Fibre length values were consistent with the expected range of arboreum cotton (24-26 mm).

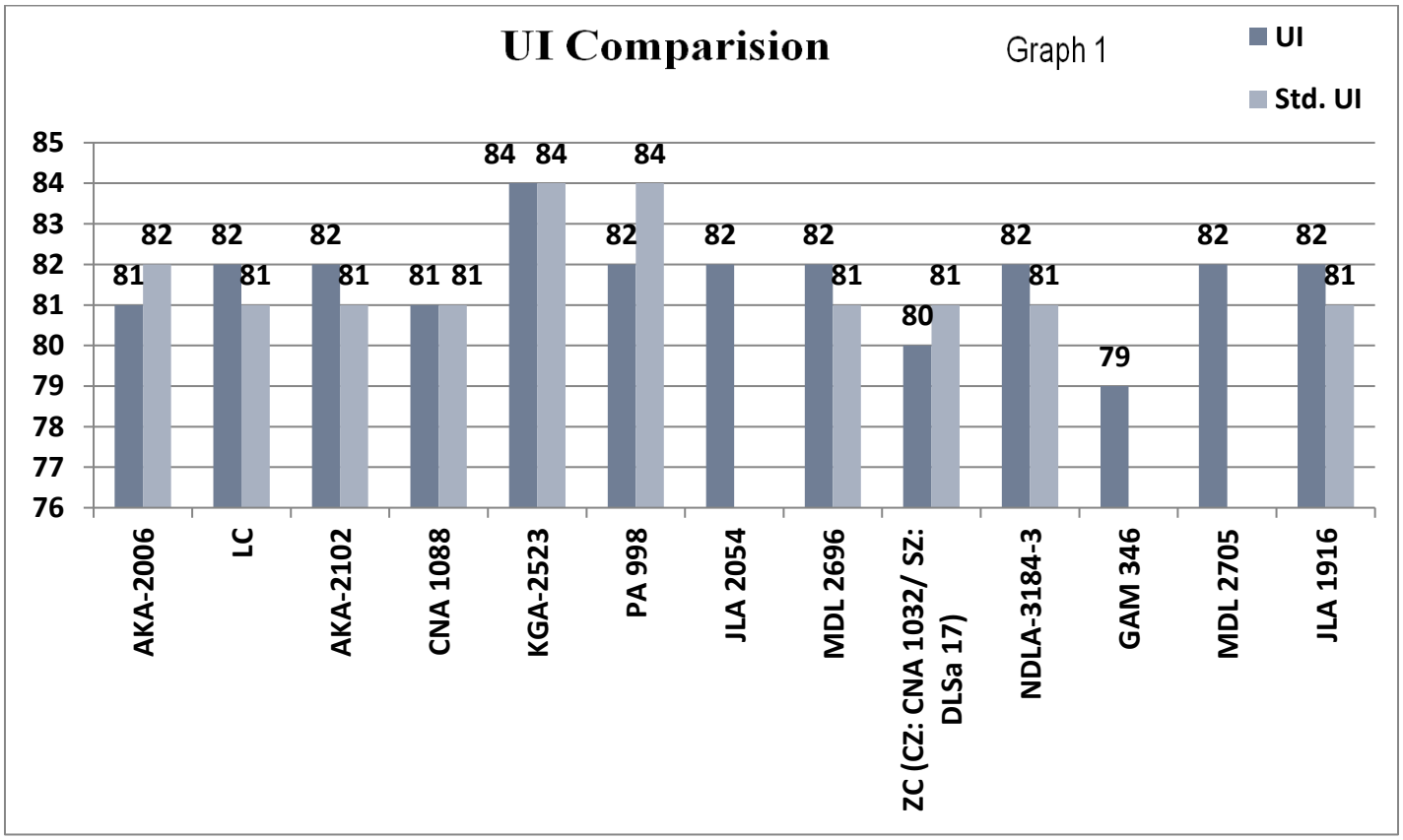
• Strength values were moderate with limited variability among entries.

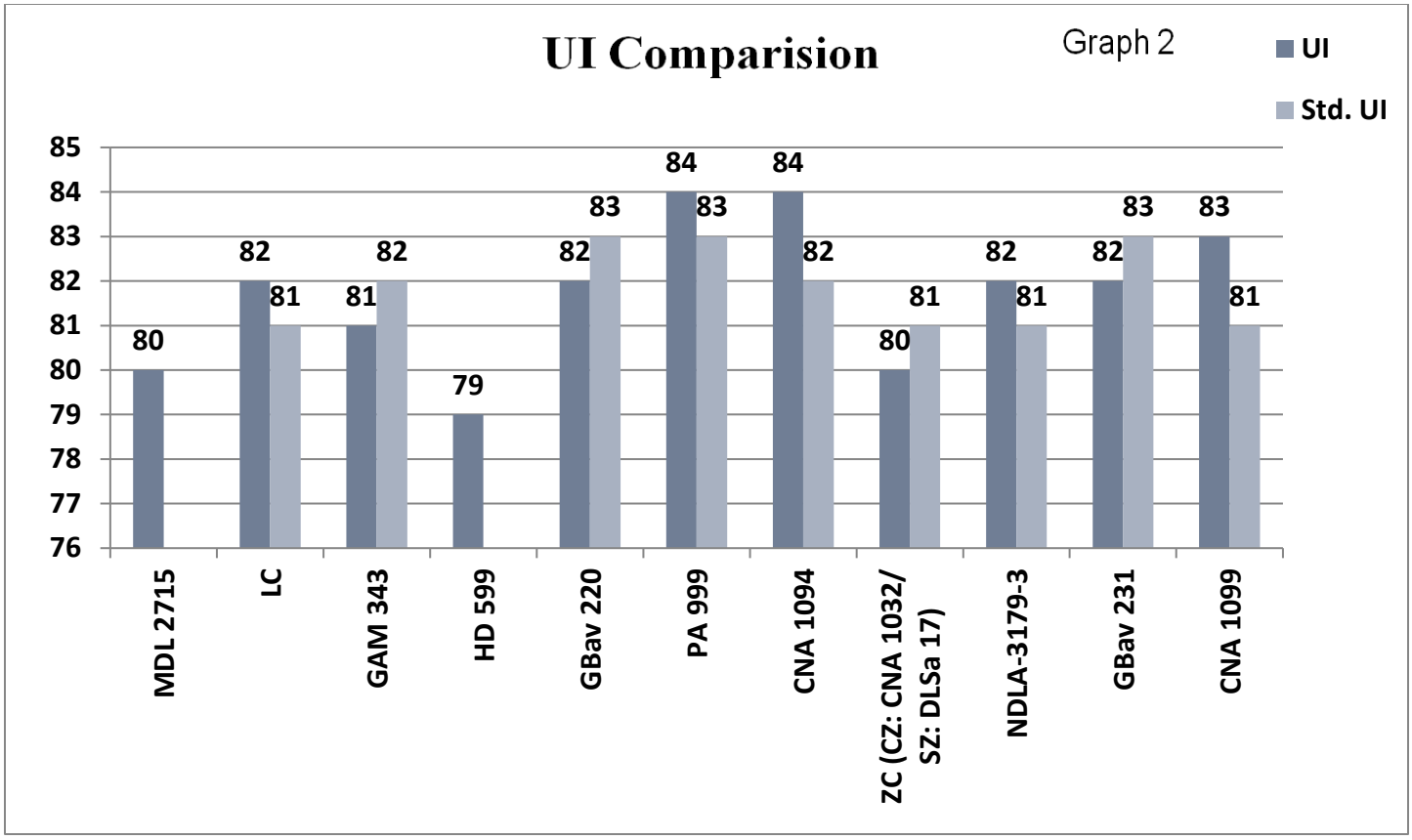
• Uniformity index values were satisfactory for several entries.

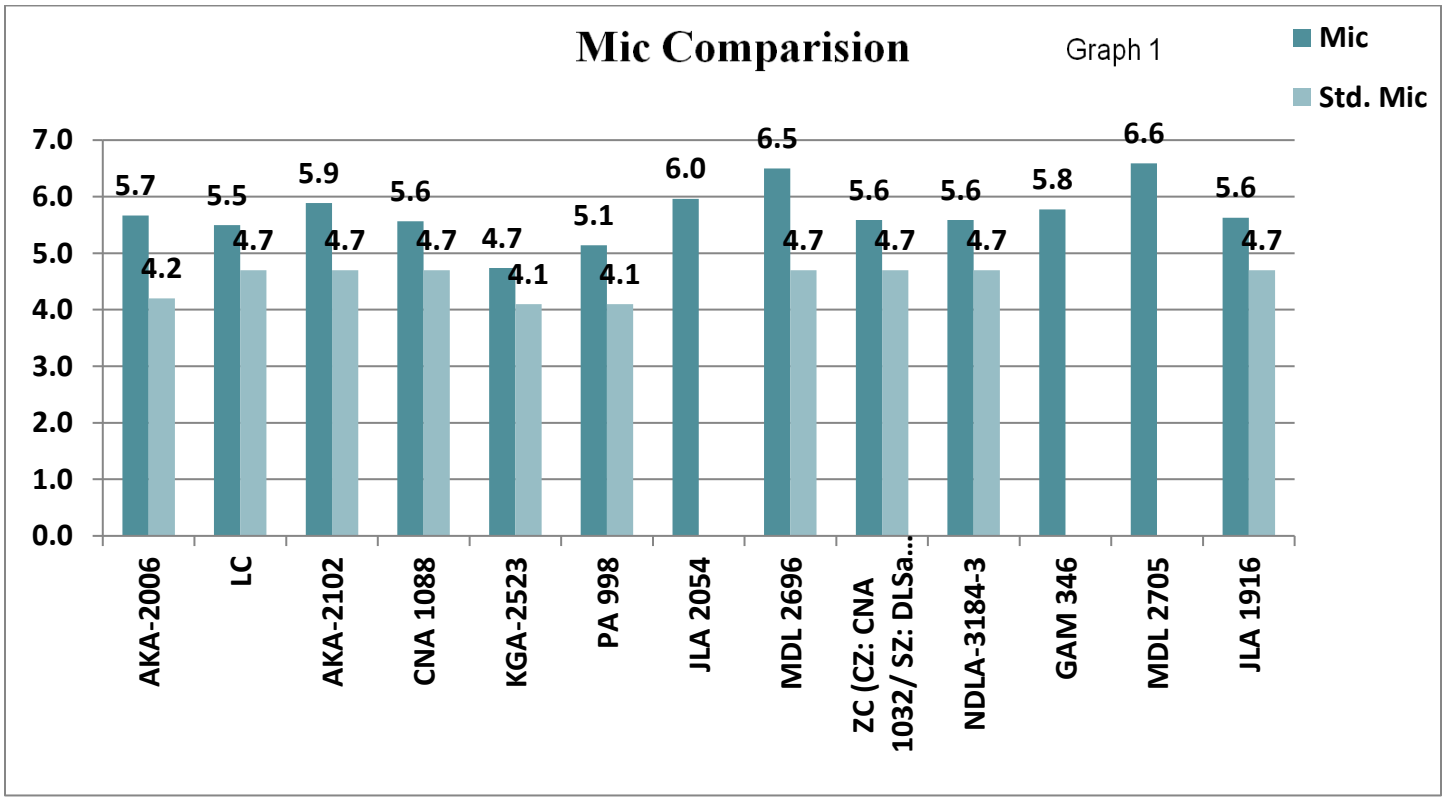
• Micronaire values indicated higher than maximum acceptable limits

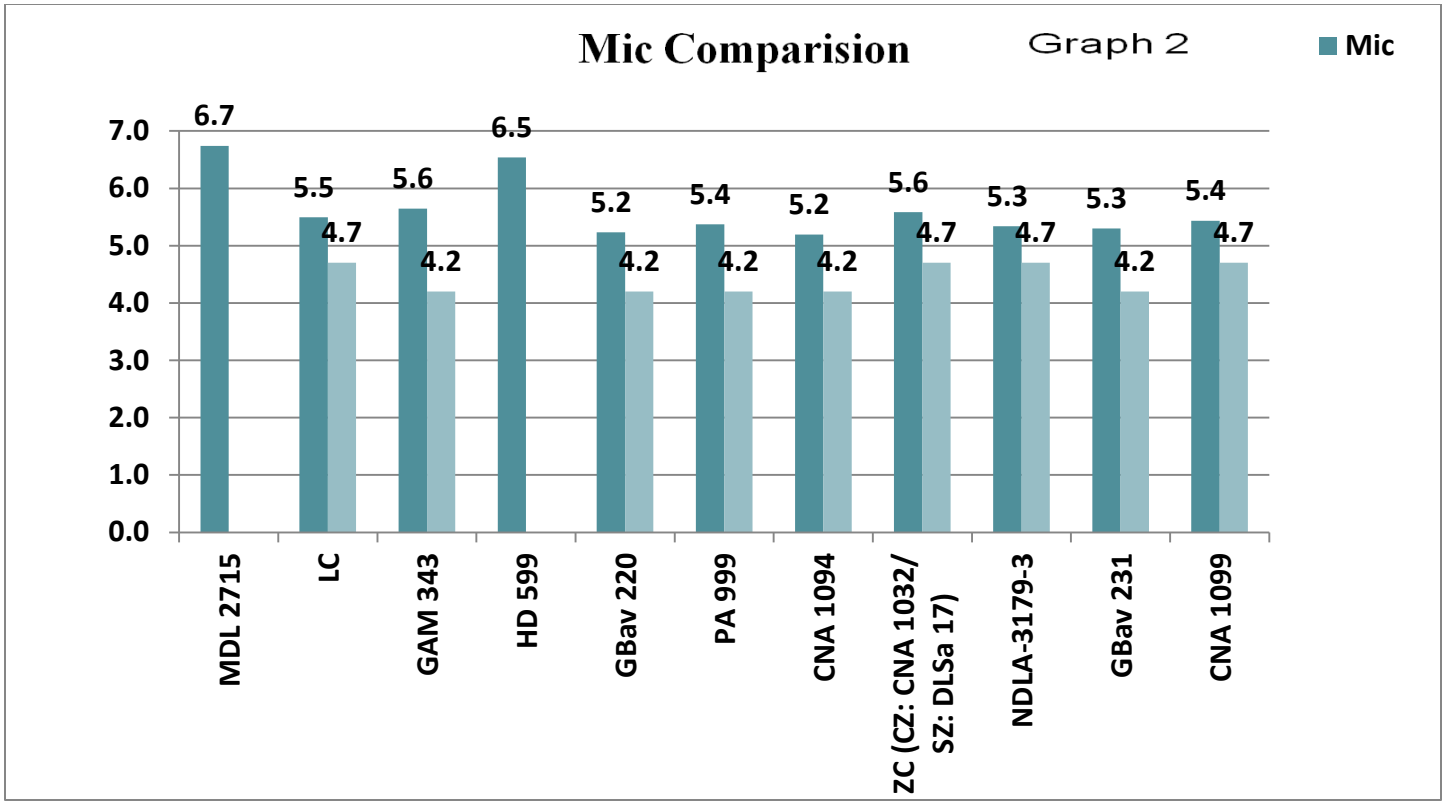


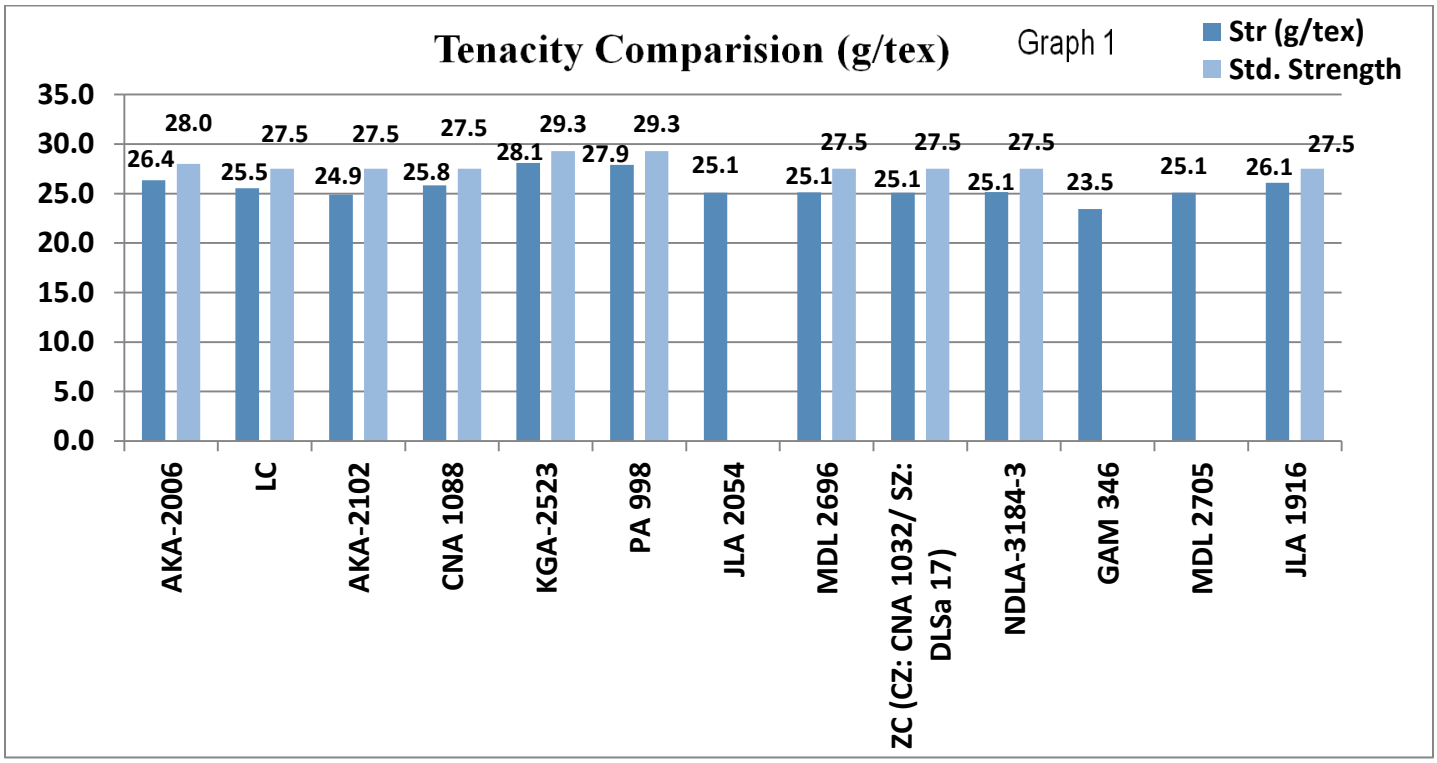

UHML (mm)
Graph 2
30.0
25.0
20.0
15.0
10.0
5.0
0.0
22.2
24.1
25.2
18.7
26.7
26.1
25.8
25.0
24.7
26.2
25.0
MDL 2715
LC
GAM 343
HD 599
GBav 220
PA 999
CNA 1094
ZC (CZ: CNA 1032/ SZ:...
NDLA-3179-3
GBav 231
CNA 1099

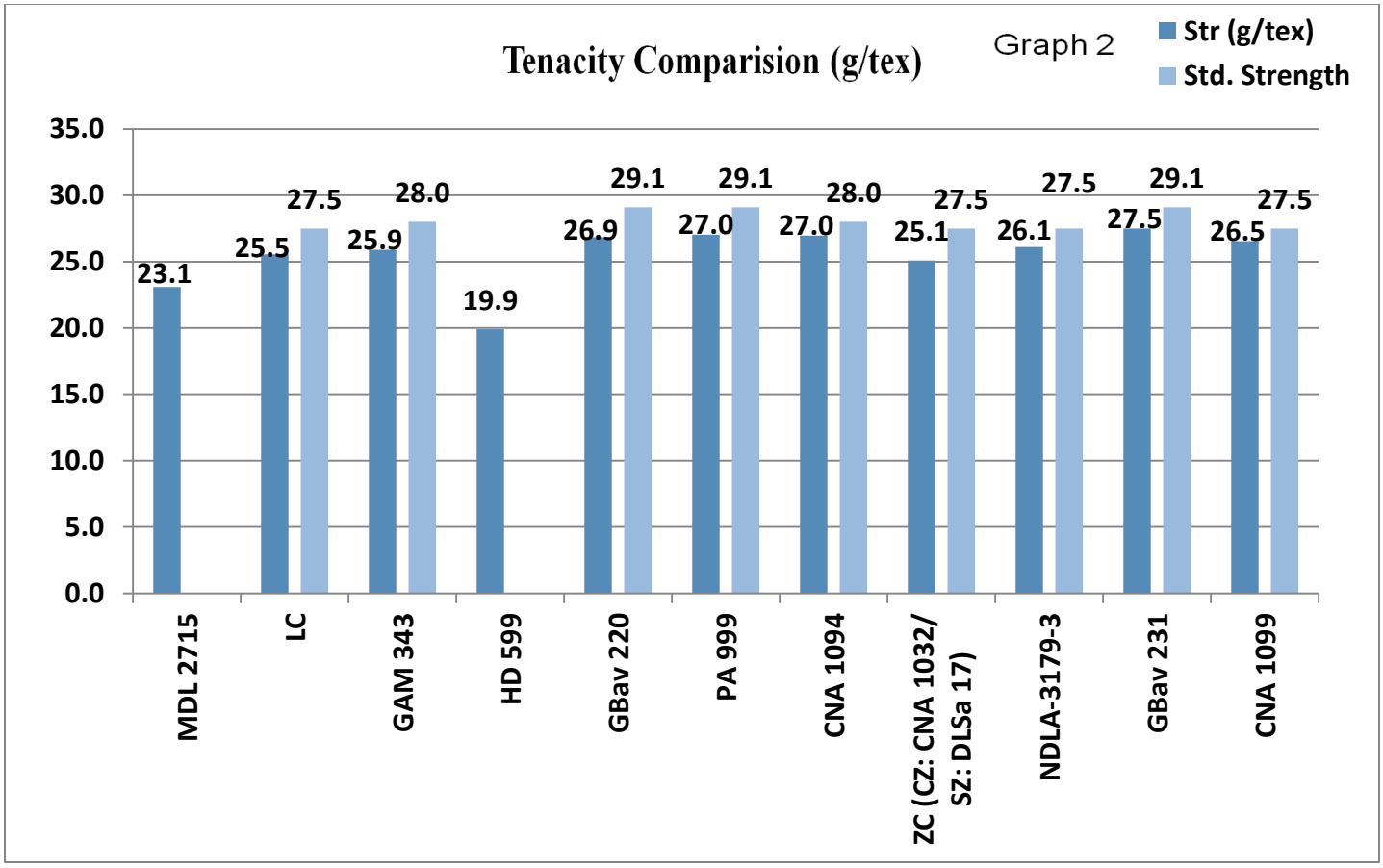

UI Comparision
Graph 1
UI
Std. UI
85
84
83
82
81
80
79
78
77
76
81 82
82 81
82 81
81 81
84 84
82 84
82
82
82 81
80 81
82 81
79
82
82 81
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916


UI Comparision
Graph 2
UI
Std. UI
85
84
83
82
81
80
79
78
77
76
80
82
81
81
82
79
82
83
84
83
84
82
80
81
82
81
82
83
83
81
MDL 2715
LC
GAM 343
HD 599
GBav 220
PA 999
CNA 1094
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3179-3
GBav 231
CNA 1099


Mic Comparision
Graph 1
Mic
Std. Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
5.7
4.2
5.5
4.7
5.9
4.7
5.6
4.7
4.7
4.1
5.1
4.1
6.0
6.5
4.7
5.6
4.7
5.6
4.7
5.8
6.6
5.6
4.7
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ: DLSa...
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916


Mic Comparision
Graph 2
Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
6.7
5.5
4.7
5.6
4.2
6.5
5.2
4.2
5.4
4.2
5.2
4.2
5.6
4.7
5.3
4.7
5.3
4.2
5.4
4.7
MDL 2715
LC
GAM 343
HD 599
GBav 220
PA 999
CNA 1094
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3179-3
GBav 231
CNA 1099


Tenacity Comparision (g/tex)
Graph 1
Str (g/tex)
Std. Strength
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
26.4
28.0
25.5
27.5
24.9
27.5
25.8
27.5
28.1
29.3
27.9
29.3
25.1
25.1
27.5
25.1
27.5
25.1
27.5
23.5
25.1
26.1
27.5
AKA-2006
LC
AKA-2102
CNA 1088
KGA-2523
PA 998
JLA 2054
MDL 2696
ZC (CZ: CNA 1032/ SZ: DLSa 17)
NDLA-3184-3
GAM 346
MDL 2705
JLA 1916



Recommendation

The entries KGA-2523 and PA 998 are recommended for promotion due to their better fibre quality attributes comparing with the check .

Entry	UHML	UI	Mic	Strength
ZC	25.0	80	5.6	25.1
KGA-2523	28.3	84	4.7	28.1
PA 998	27.3	82	5.1	27.9

The other entries except HD 599 showed better fibre quality parameters except Mic value.

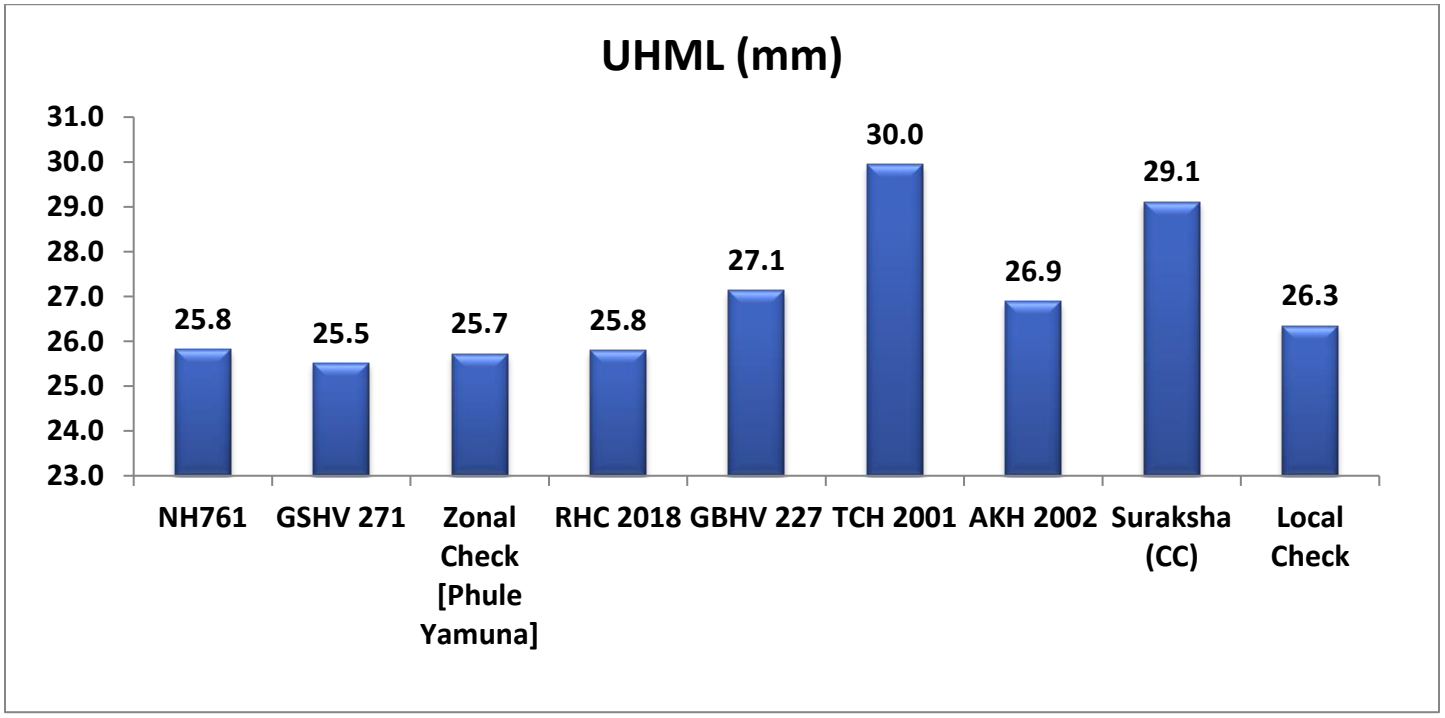
B. Zonal Trials

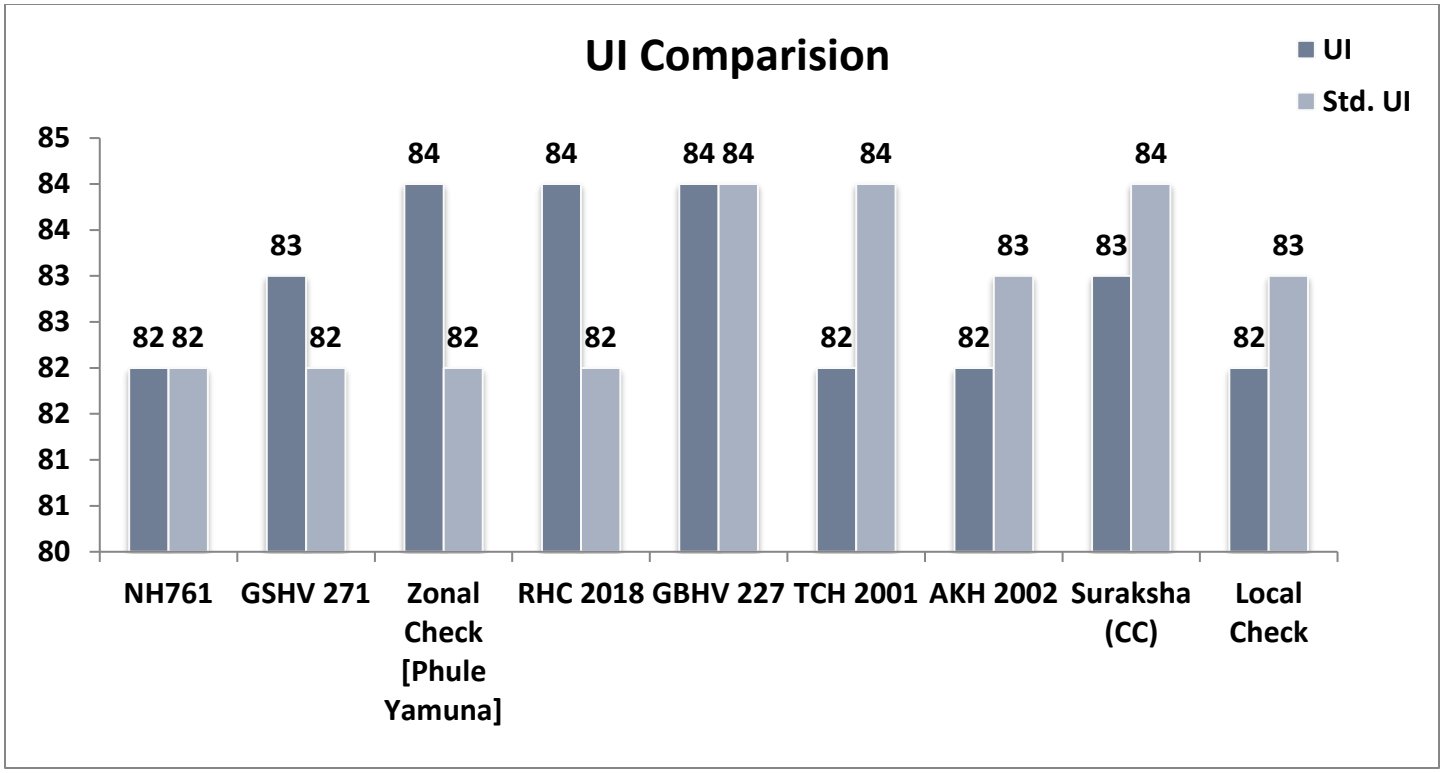
(I) Central Zone

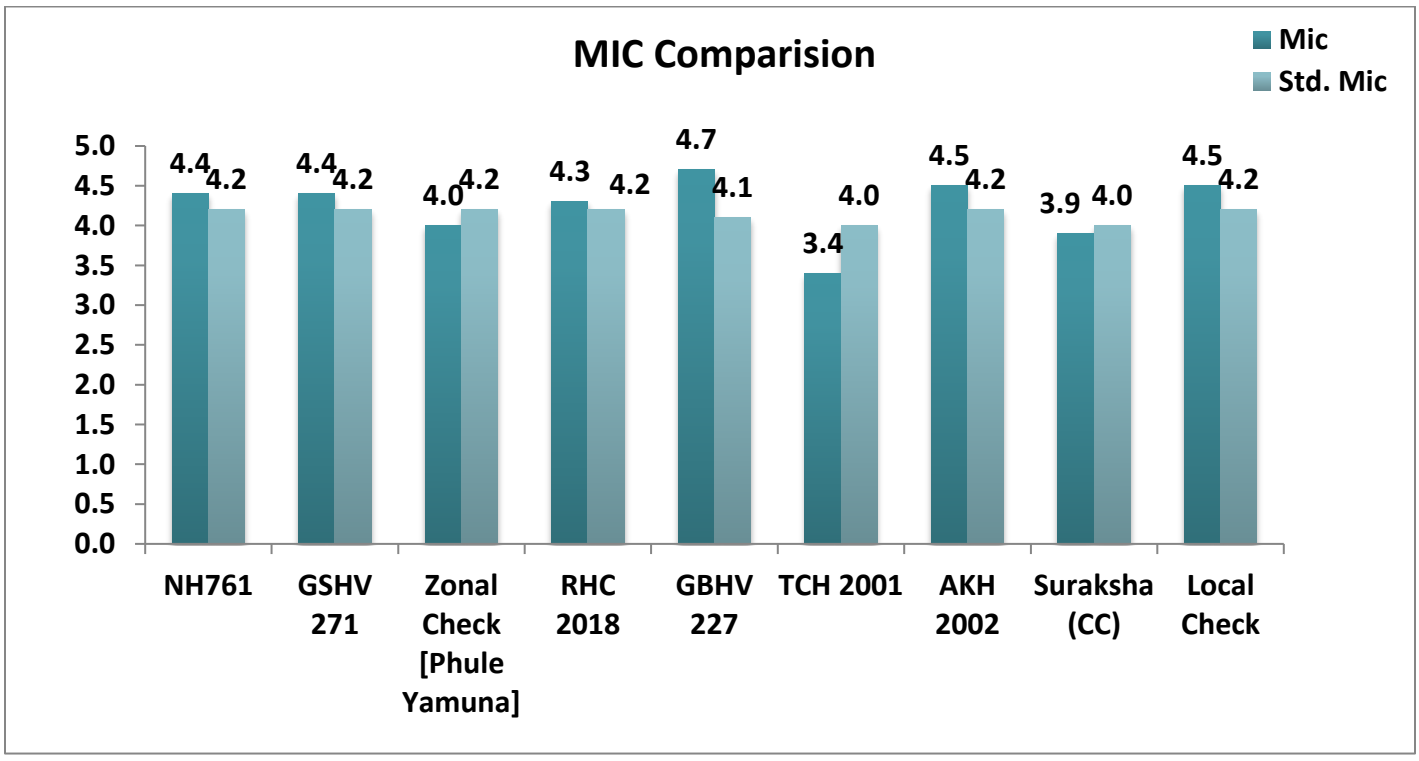
(i) Br.03c - PVT of G. hirsutum under organic conditions (Irrigated / Rainfed)

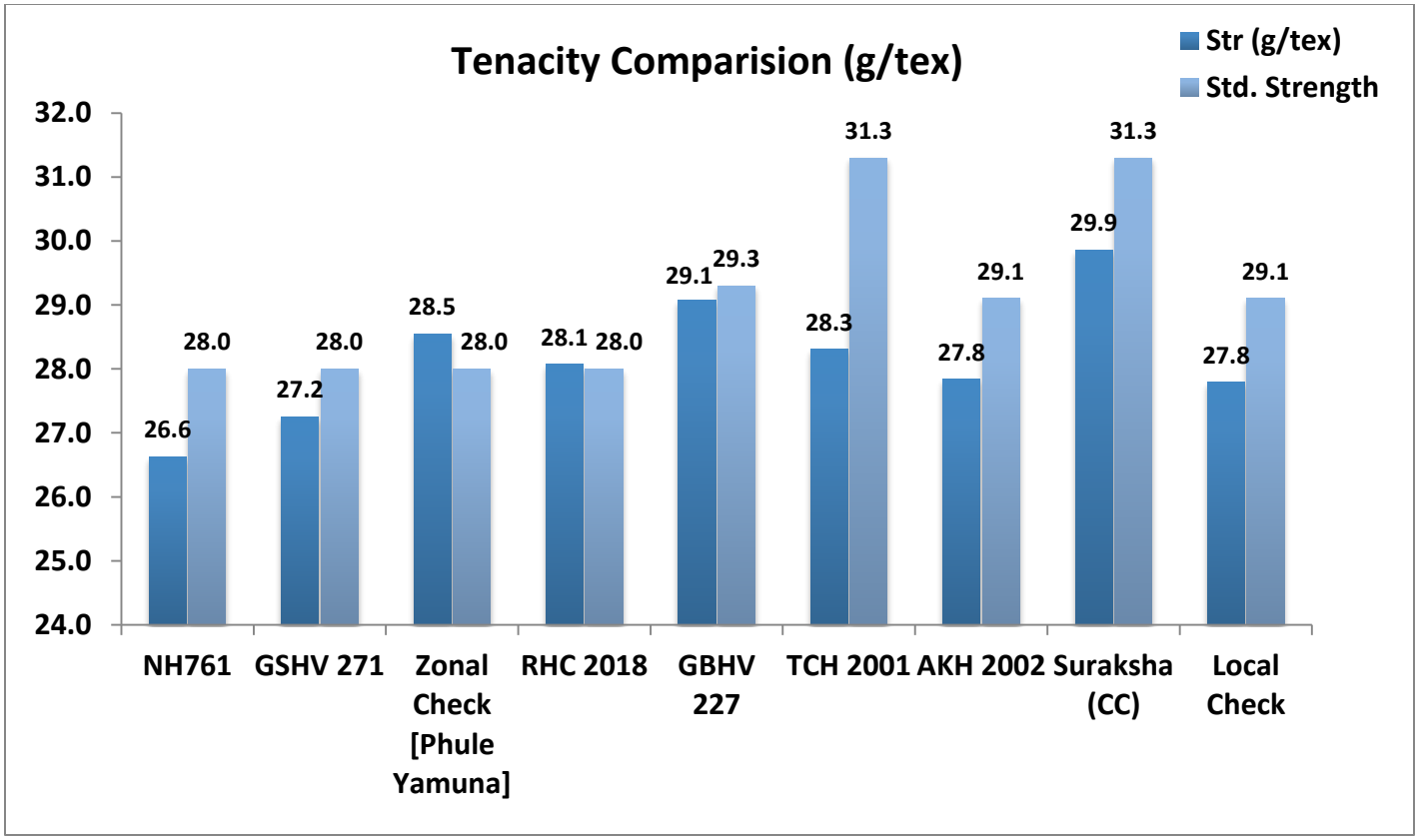
Observations

- Majority of the entries recorded UHML values in the range of 28–30 mm.
- Fibre strength values were moderate and comparable with standard varieties.
- Uniformity index values were fairly consistent among entries.
- Micronaire values varied slightly, with a few entries exhibiting relatively higher values.




UI Comparision
UI
Std. UI
85
84
84
83
83
82
82
81
81
80
82 82
83
82
84
82
84
82
84 84
82
84
82
82
83
83
84
82
83
NH761
GSHV 271
Zonal Check [Phule Yamuna]
RHC 2018
GBHV 227
TCH 2001
AKH 2002
Suraksha (CC)
Local Check


MIC Comparision
Mic
Std. Mic
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4.4 4.2
4.4 4.2
4.0 4.2
4.3 4.2
4.7 4.1
3.4 4.0
4.5 4.2
3.9 4.0
4.5 4.2
NH761
GSHV 271
Zonal Check [Phule Yamuna]
RHC 2018
GBHV 227
TCH 2001
AKH 2002
Suraksha (CC)
Local Check



Recommendation

The entries TCH 2001 is recommended for promotion due to its better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
Suraksha (CC)	29.1	83	3.9	29.9
TCH 2001	30.0	82	3.4	28.3

All other entries showed fibre qualities at par with local and zonal check.

(ii) Br.05c - CHT of H x H hybrids under organic conditions (Irrigated / Rainfed)

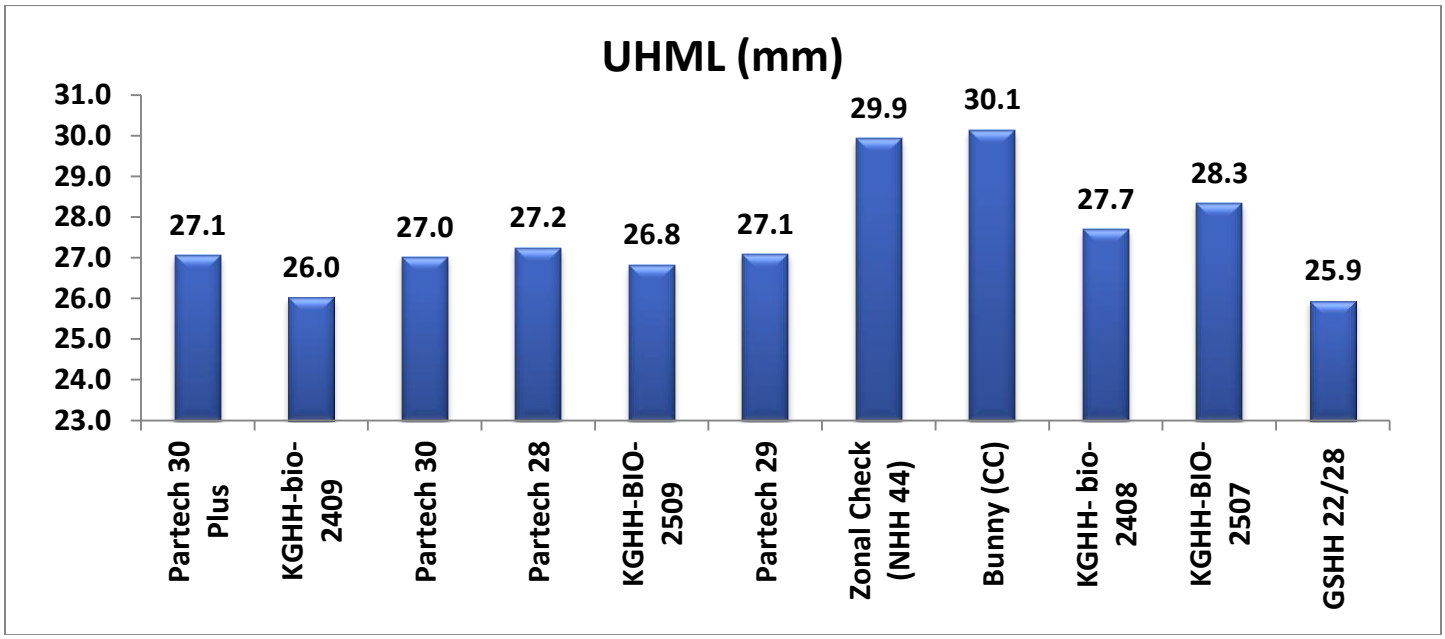
Observations

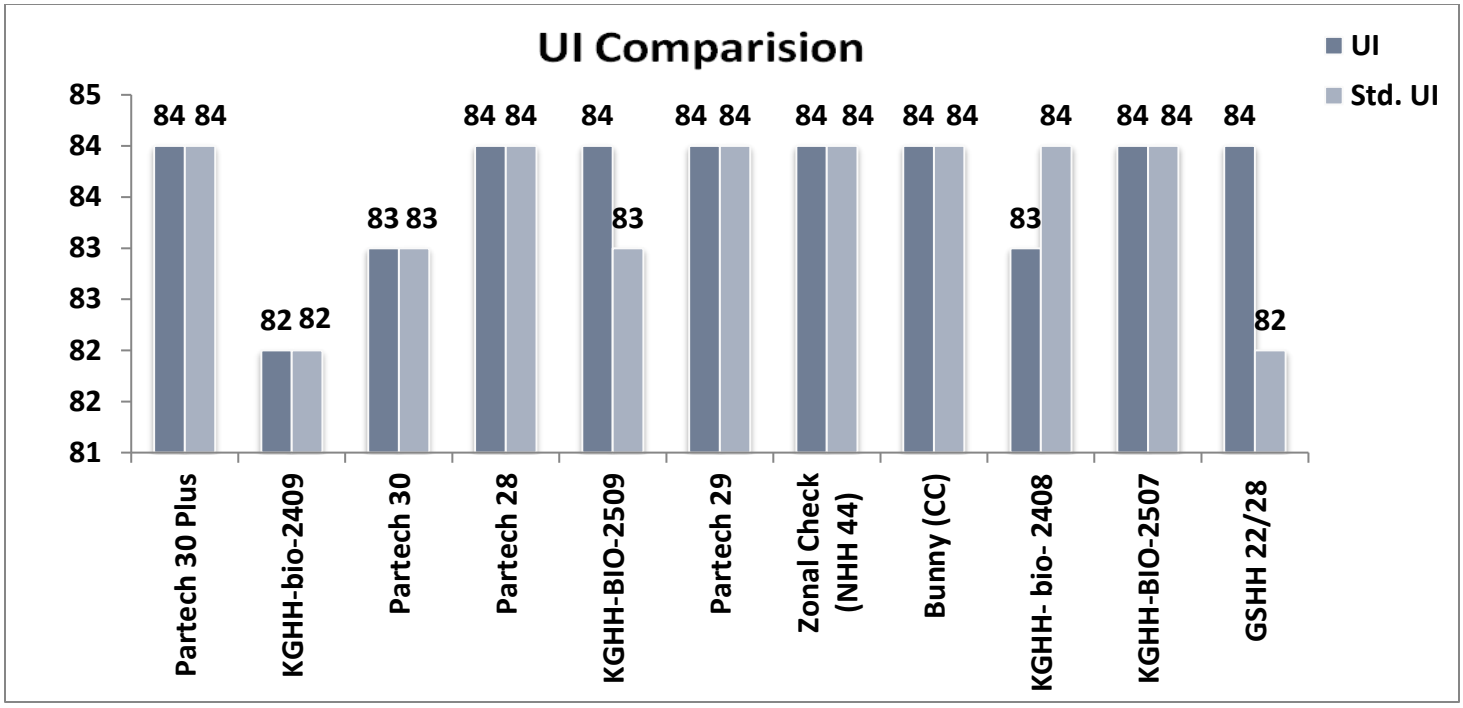
• UHML of the different entries found to be comparatively lower than check entries

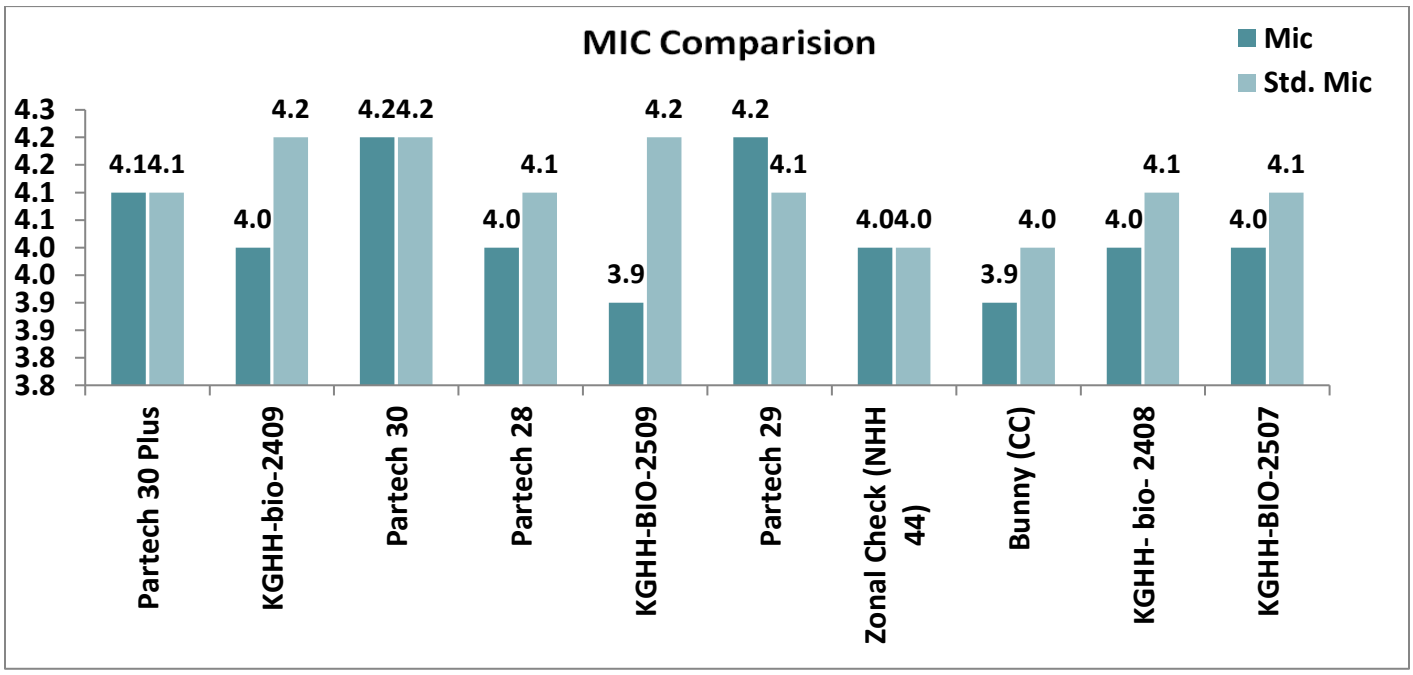
• Fibre strength values were moderate to good in several hybrids.

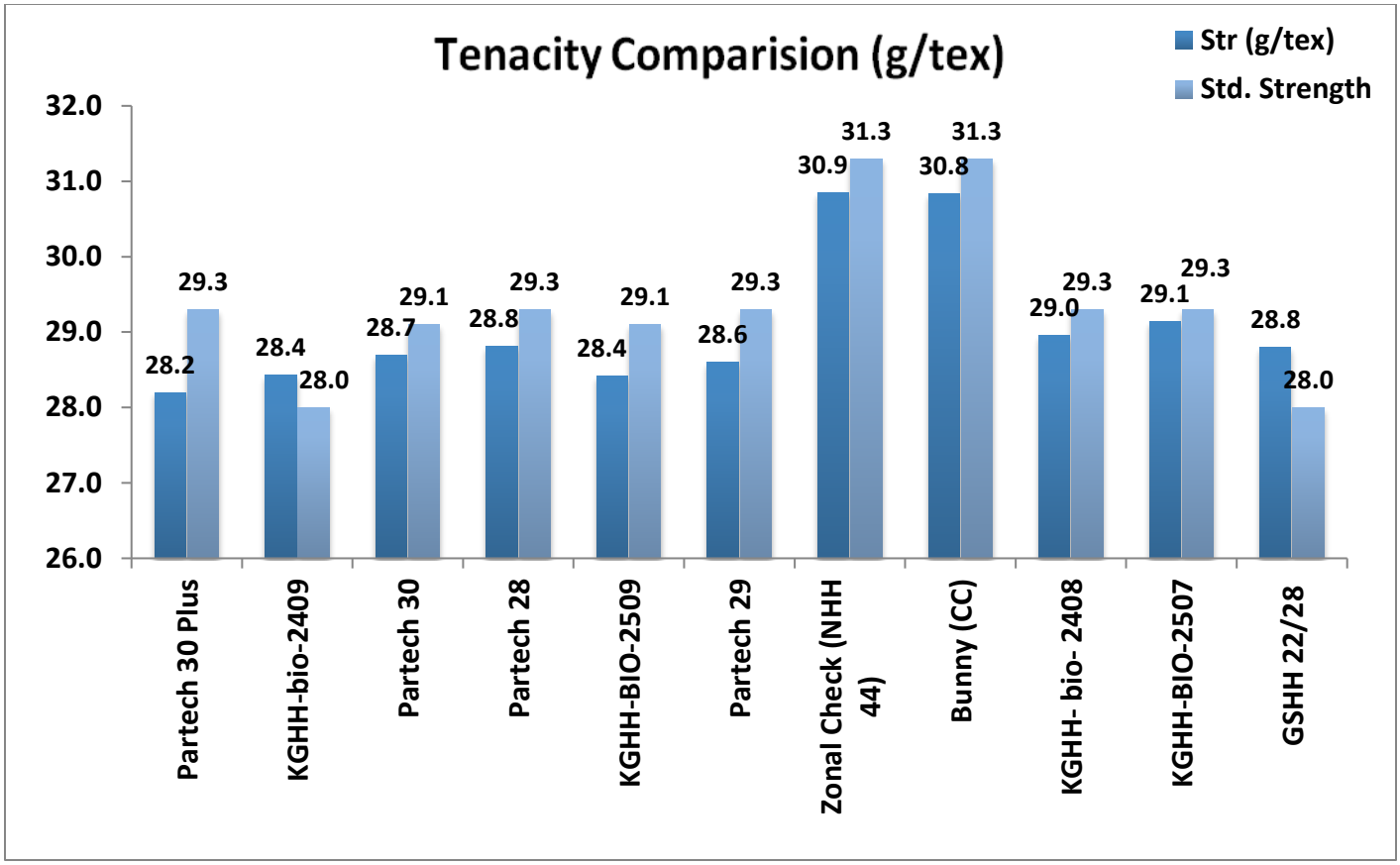
• Uniformity index values were satisfactory for most hybrids.

• Micronaire values were mostly within acceptable limits, though slight variation was observed.




UI Comparision
UI
Std. UI
85
84
84
83
83
82
82
81
84 84
82 82
83 83
84 84
84
83
84 84
84 84
84 84
84
83
84 84
84
82
Partech 30 Plus
KGHH-bio-2409
Partech 30
Partech 28
KGHH-BIO-2509
Partech 29
Zonal Check (NHH 44)
Bunny (CC)
KGHH- bio- 2408
KGHH-BIO-2507
GSHH 22/28


MIC Comparision
Mic
Std. Mic
4.3
4.2
4.2
4.1
4.1
4.0
4.0
3.9
3.9
3.8
3.8
4.14.1
4.0
4.2
4.24.2
4.0
4.1
3.9
4.2
4.2
4.1
4.04.0
3.9
4.0
4.0
4.1
4.0
4.1
Partech 30 Plus
KGHH-bio-2409
Partech 30
Partech 28
KGHH-BIO-2509
Partech 29
Zonal Check (NHH 44)
Bunny (CC)
KGHH- bio- 2408
KGHH-BIO-2507



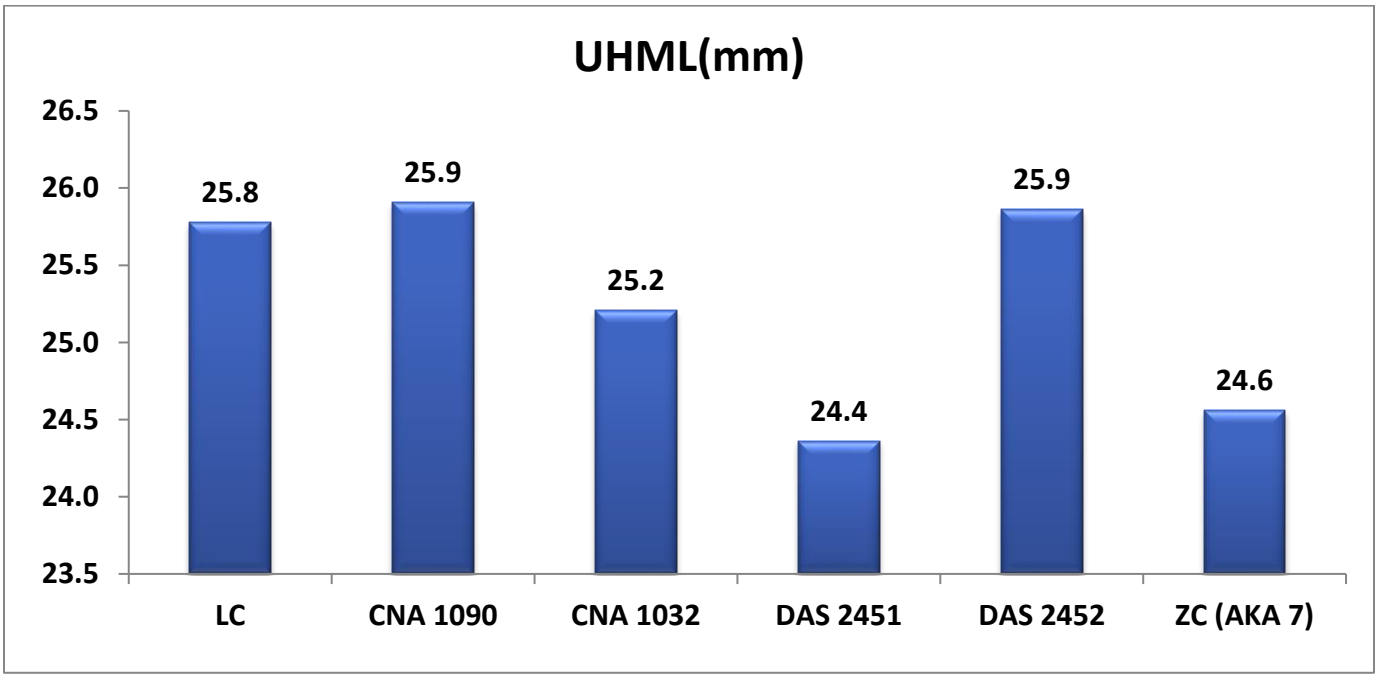
Recommendation

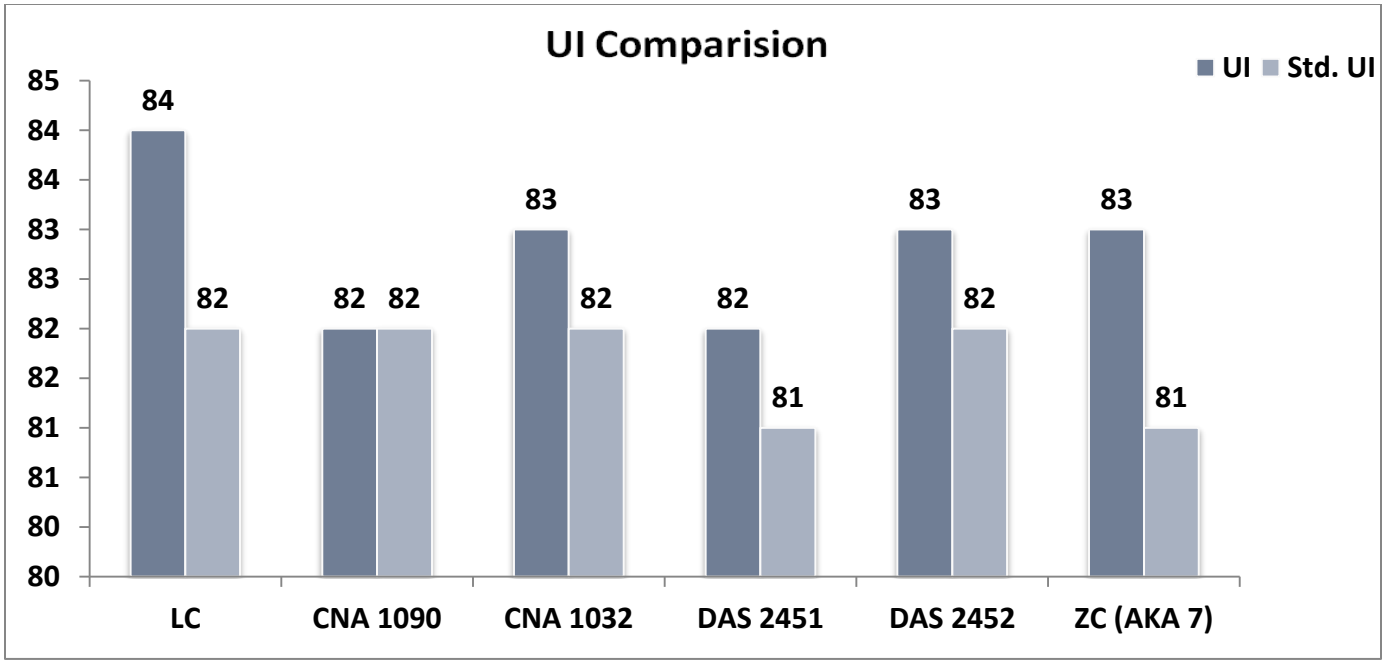
Entry	UHML	UI	Mic	Strength
Bunny (CC)	30.1	84	3.9	30.8
No entry performed better than CC and ZC				

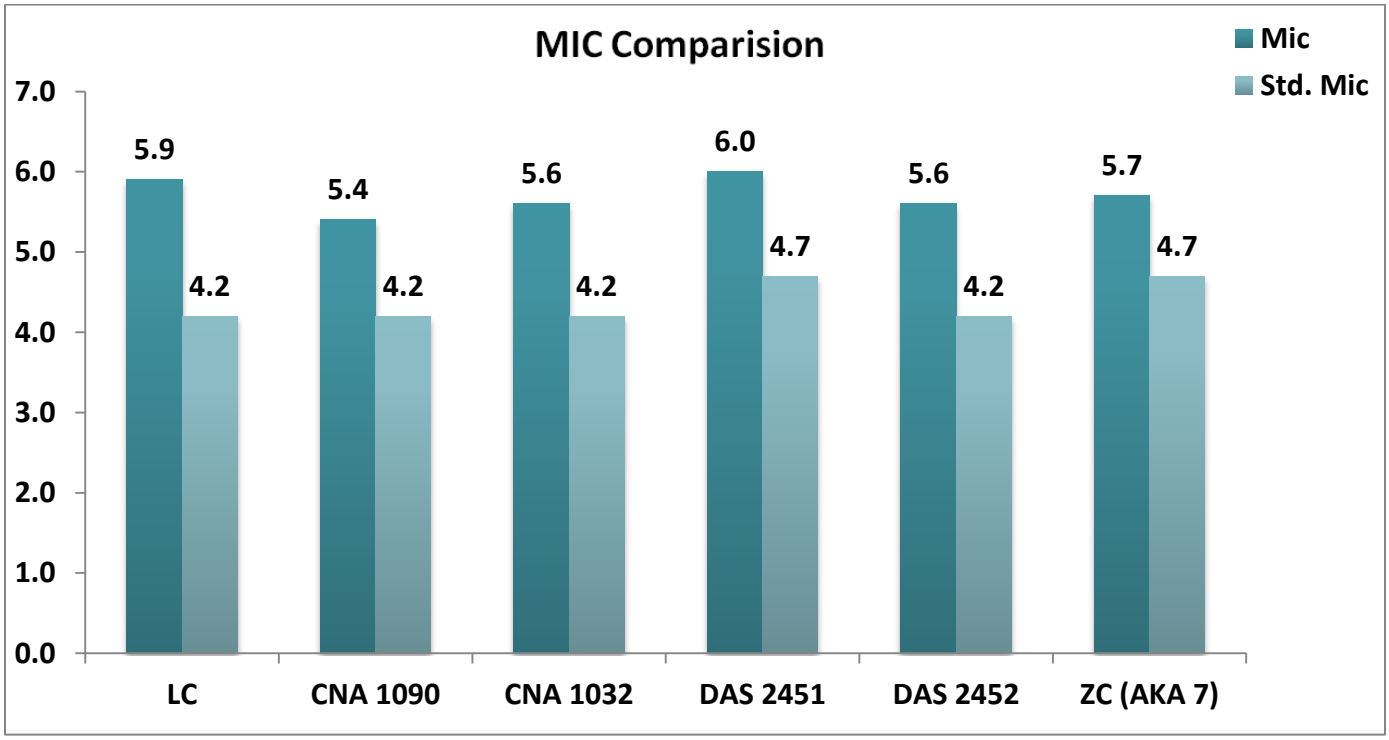
(iii) Br-24 b CVT – G. arboreum

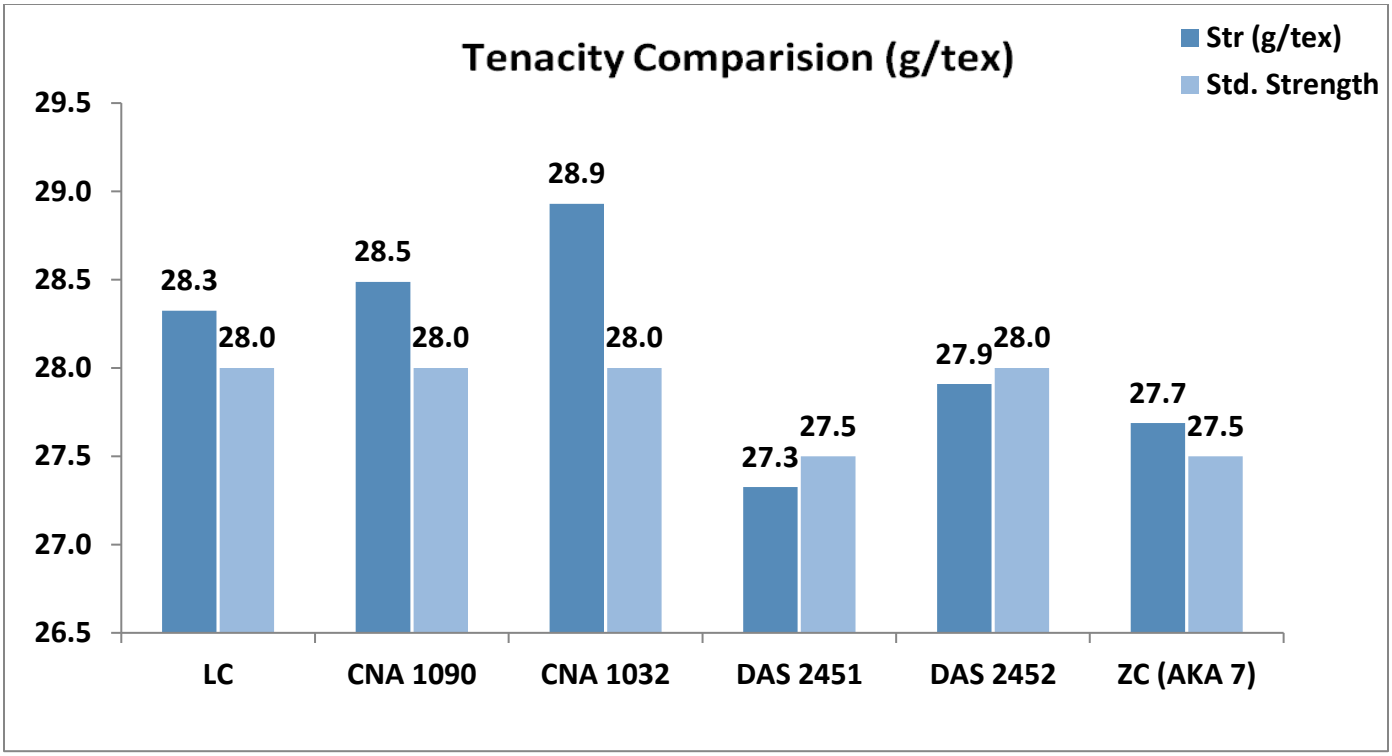
Observations

- Majority of the samples were in UHML range of 24-26 mm.
- The tenacity of the samples was marginally lower compared to the minimum requirement. For some of the entries
- The samples were having good UI in the reported entries.
- The micronaire values of most the samples were higher than the maximum required




UI Comparision
UI
Std. UI
85
84
84
83
83
82
82
81
81
80
80
84
82
82
82
83
82
82
81
83
82
83
81
LC
CNA 1090
CNA 1032
DAS 2451
DAS 2452
ZC (AKA 7)


MIC Comparision
Mic
Std. Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
5.9
4.2
5.4
4.2
5.6
4.2
6.0
4.7
5.6
4.2
5.7
4.7
LC
CNA 1090
CNA 1032
DAS 2451
DAS 2452
ZC (AKA 7)



Recommendation

The entries CNA1032, 1090 and DAS 2452 are recommended for promotion due to their better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
ZC	24.6	83	5.7	27.7
CNA 1090	25.9	82	5.4	28.5
CNA 1032	25.2	83	5.6	28.9
DAS 2452	25.9	83	5.6	27.9

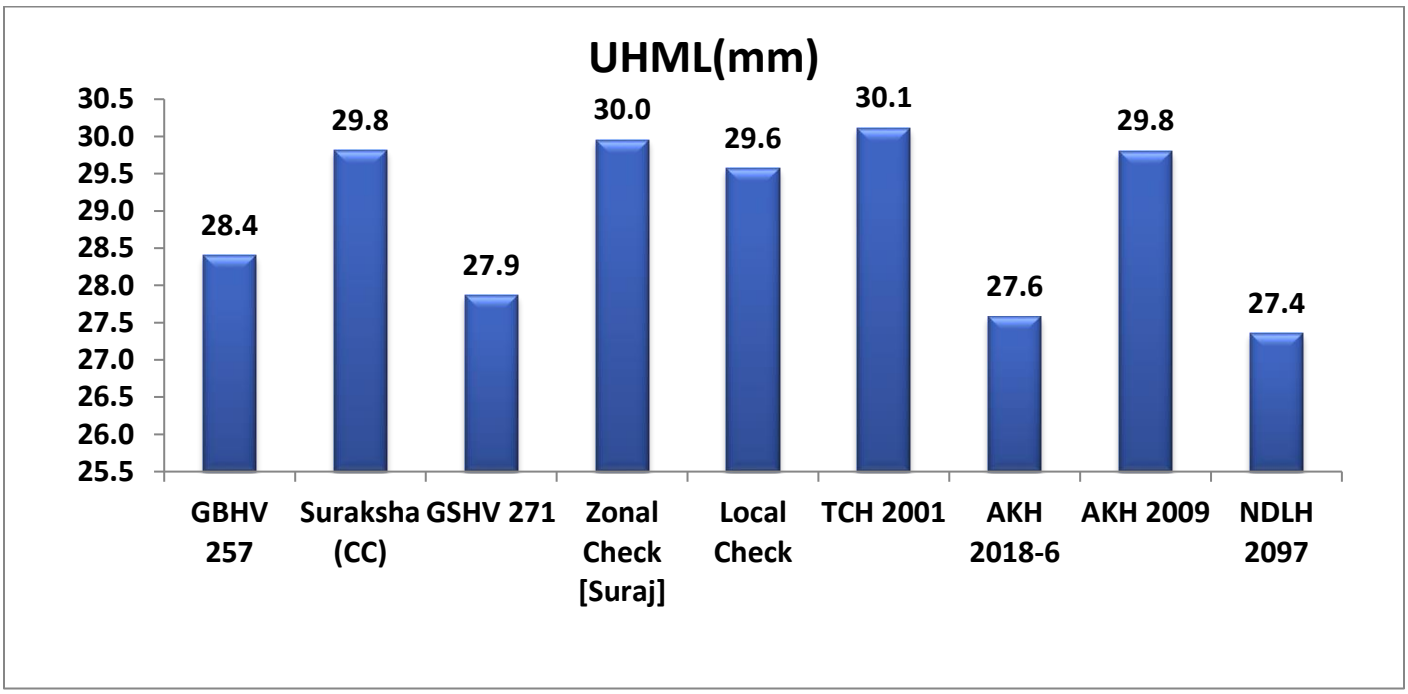
II. South Zone

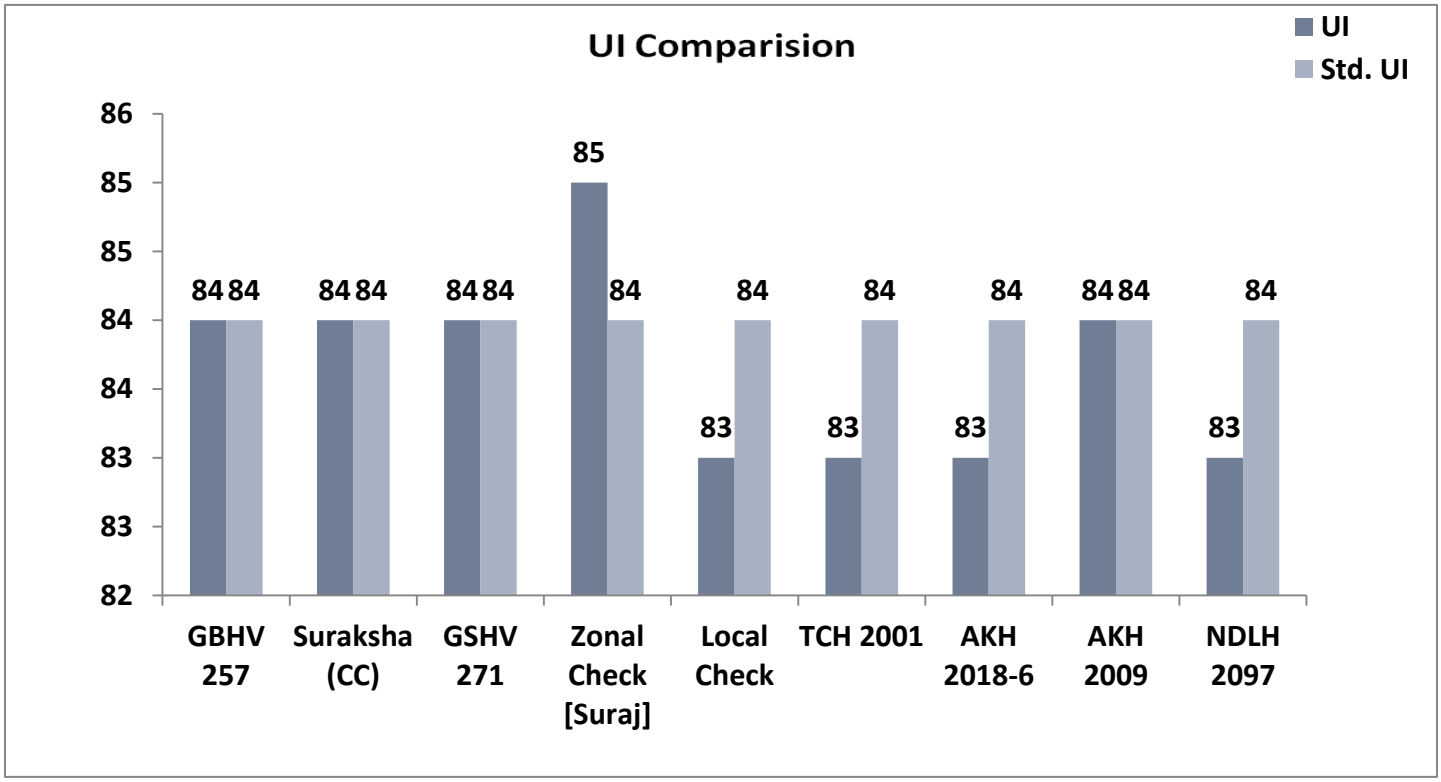
(i) Br. 03 c - PVT of G. hirsutum under organic condition

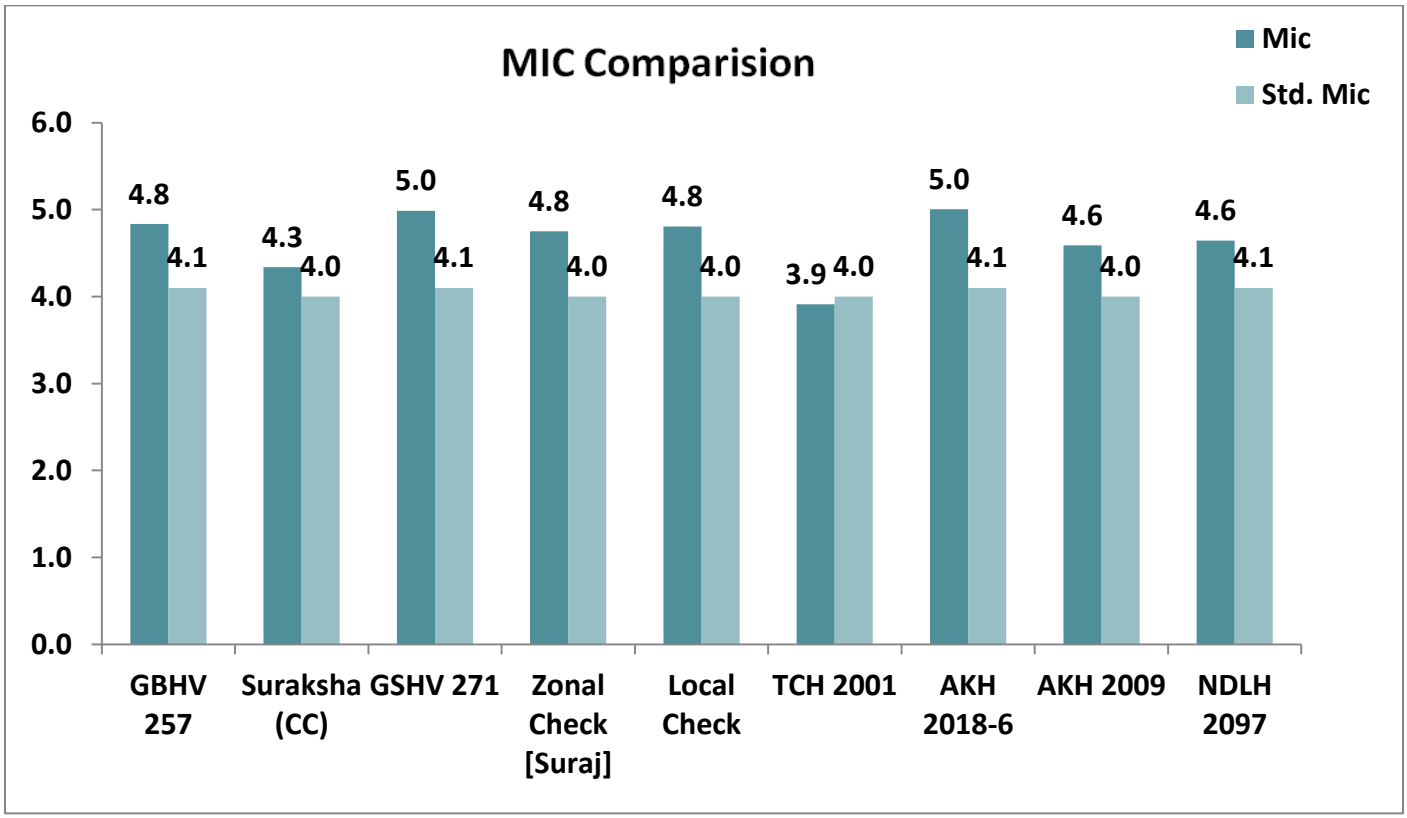
Observations

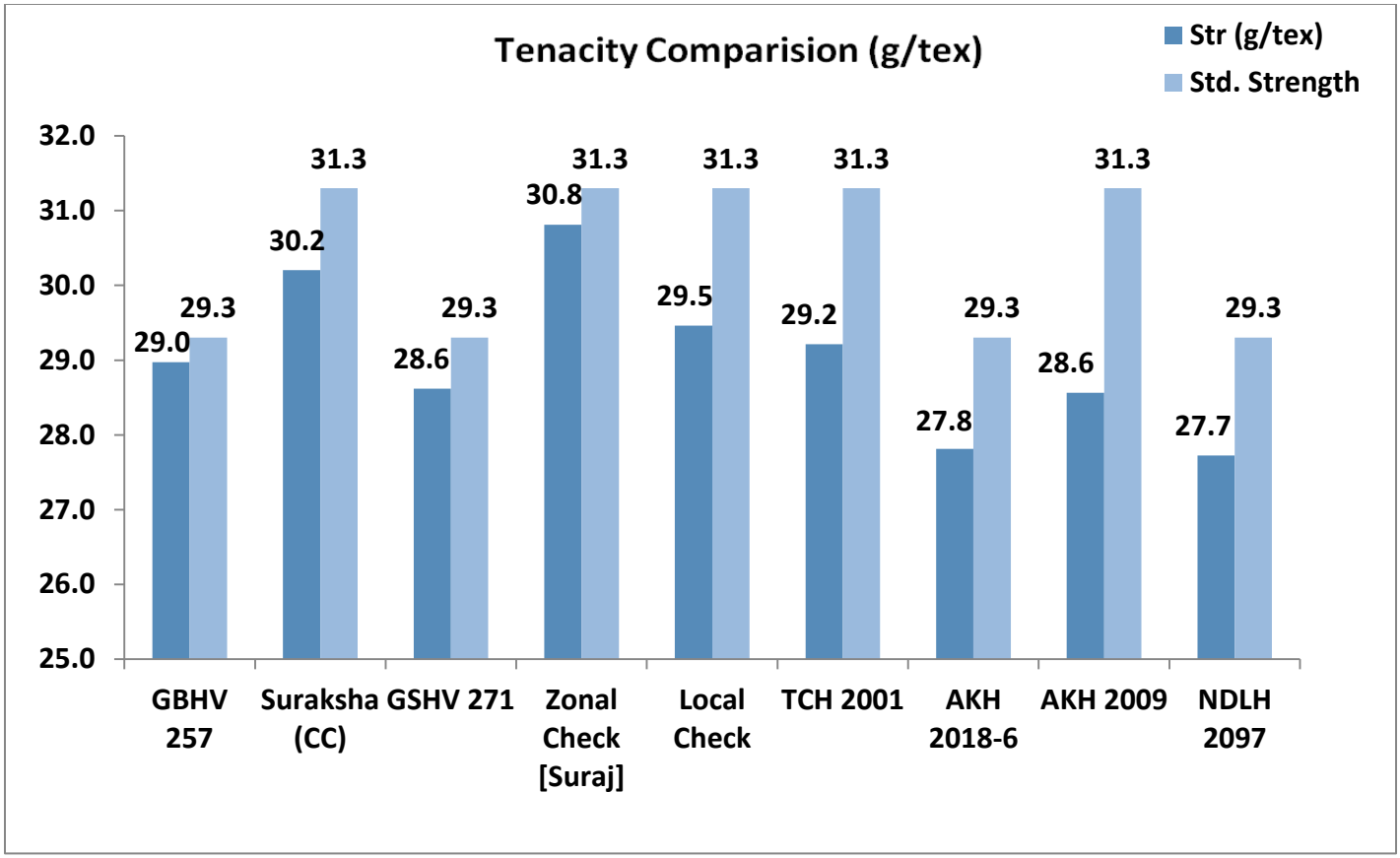
- Entries generally exhibited good fibre length ranging from 28–31 mm.

  The tenacity of the samples was marginally lower compared to the minimum requirement.
- The samples were having marginally lower UI the minimum requirement.
- The micronaire values of most the samples were higher than the maximum required




UI Comparision
UI
Std. UI
86
85
85
84
84
83
83
82
84 84
84 84
84 84
85
84
83
84
83
84
83
84
84 84
83
84
GBHV 257
Suraksha (CC)
GSHV 271
Zonal Check [Suraj]
Local Check
TCH 2001
AKH 2018-6
AKH 2009
NDLH 2097


MIC Comparision
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4.8
4.1
4.3
4.0
5.0
4.1
4.8
4.0
4.8
4.0
3.9
4.0
5.0
4.1
4.6
4.0
4.6
4.1
GBHV 257
Suraksha (CC)
GSHV 271
Zonal Check [Suraj]
Local Check
TCH 2001
AKH 2018-6
AKH 2009
NDLH 2097



Recommendation

The entries TCH 2001 and AKH 2009 are recommended for promotion due to their better fibre quality attributes comparing with the check

Entry	UHML	UI	Mic	Strength
Suraksha (CC)	29.8	84	4.3	30.2
TCH 2001	30.1	83	3.9	29.2
AKH 2009	29.8	84	4.6	28.6

(ii) Br. 05 C. CHT of Intra hirsutum hybrids under organic condition

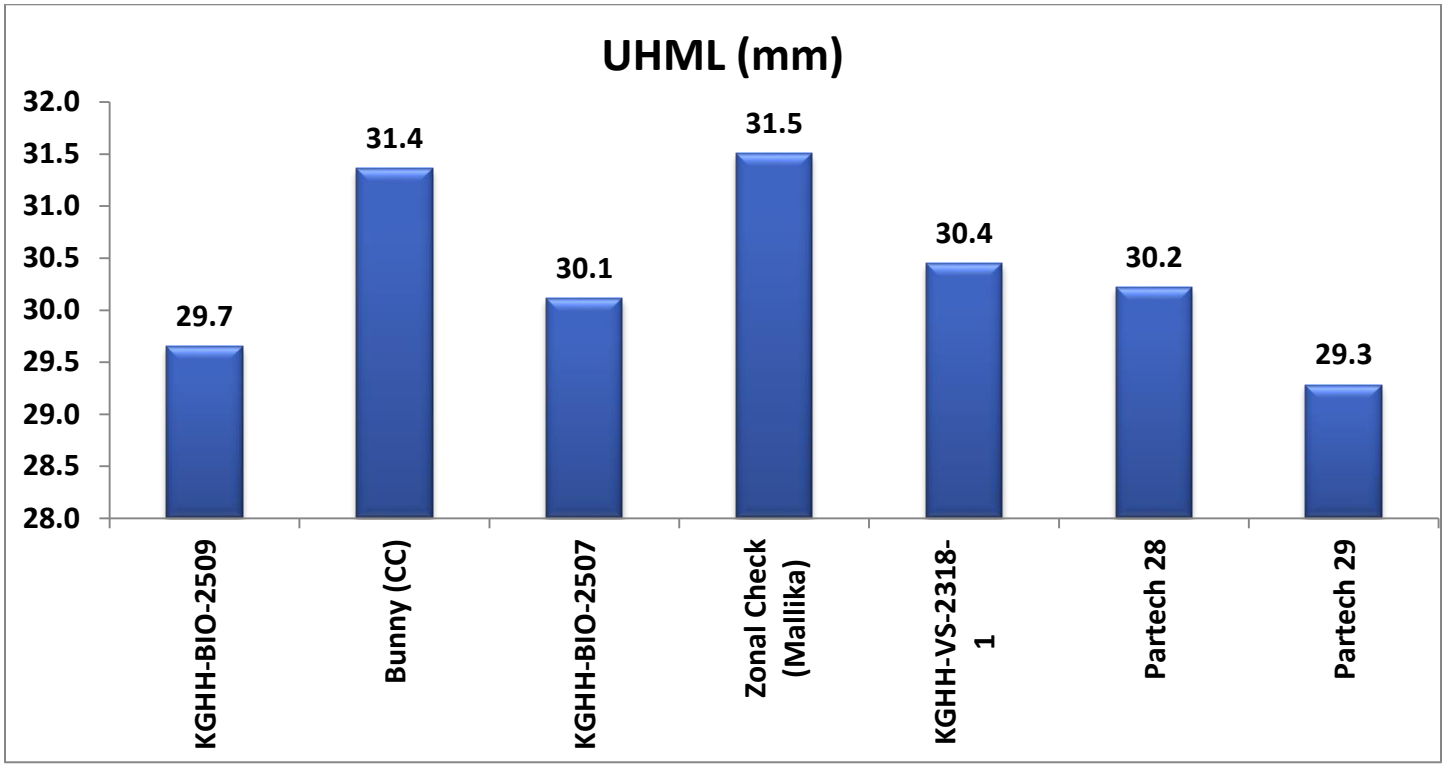
Observations

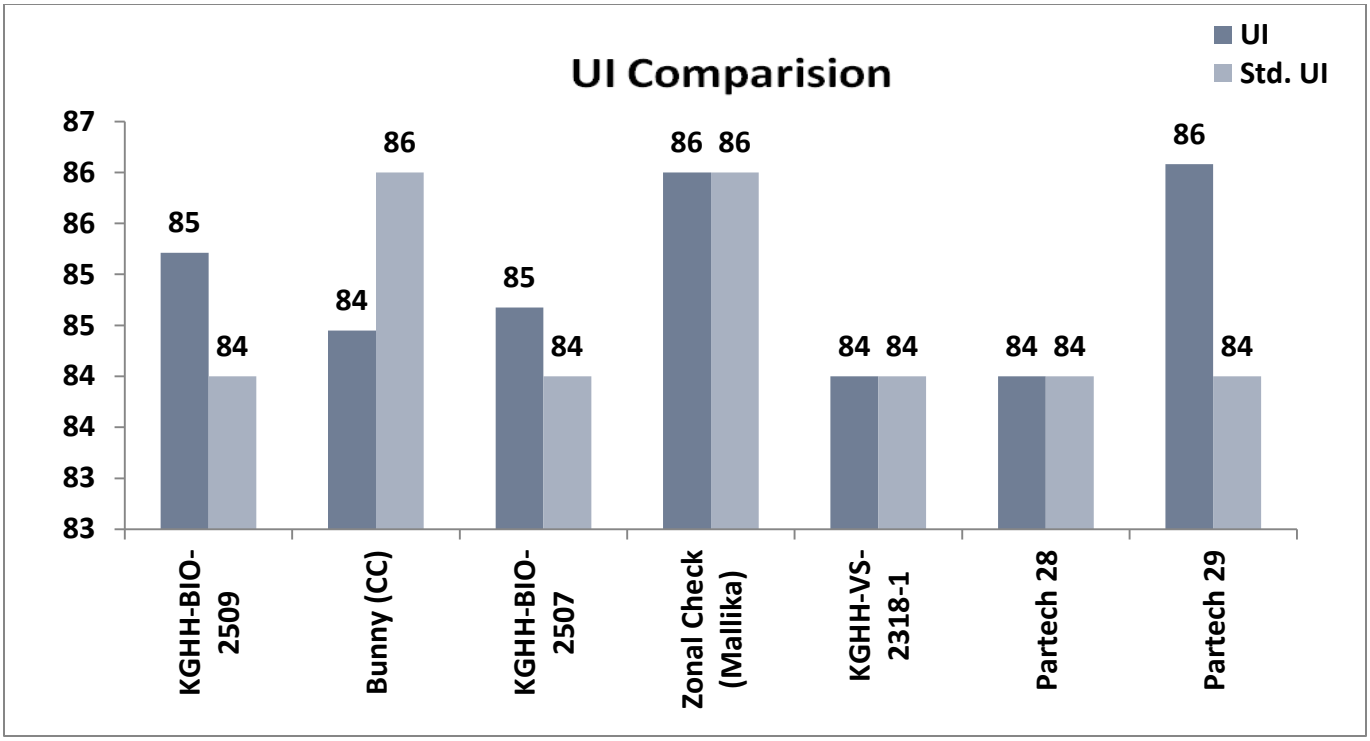
• Hybrid entries recorded relatively higher fibre length compared to varietal entries. Majority of the samples were in UHML range of 29-31 mm.

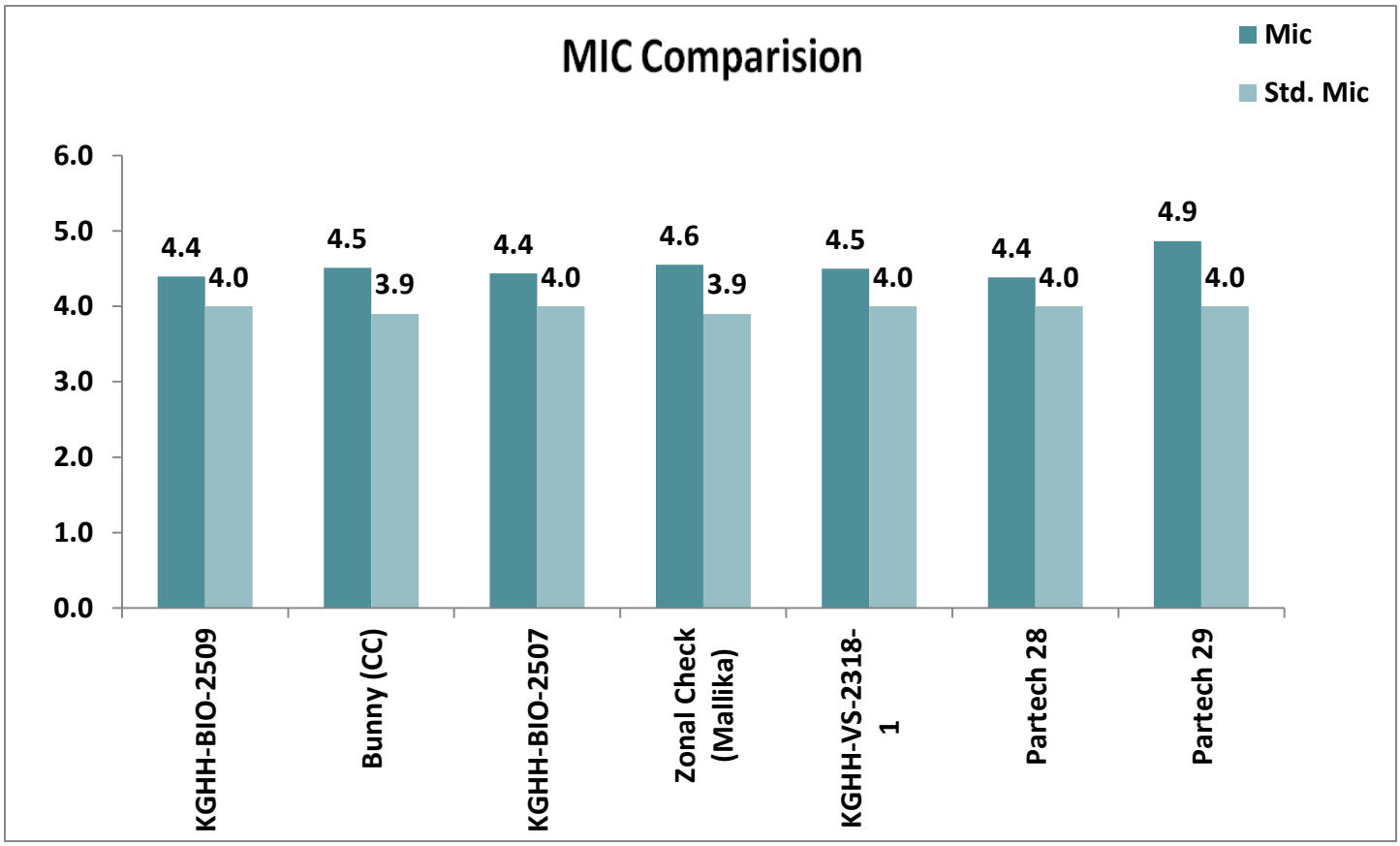
• Fibre strength values were marginally lower than the requirement.

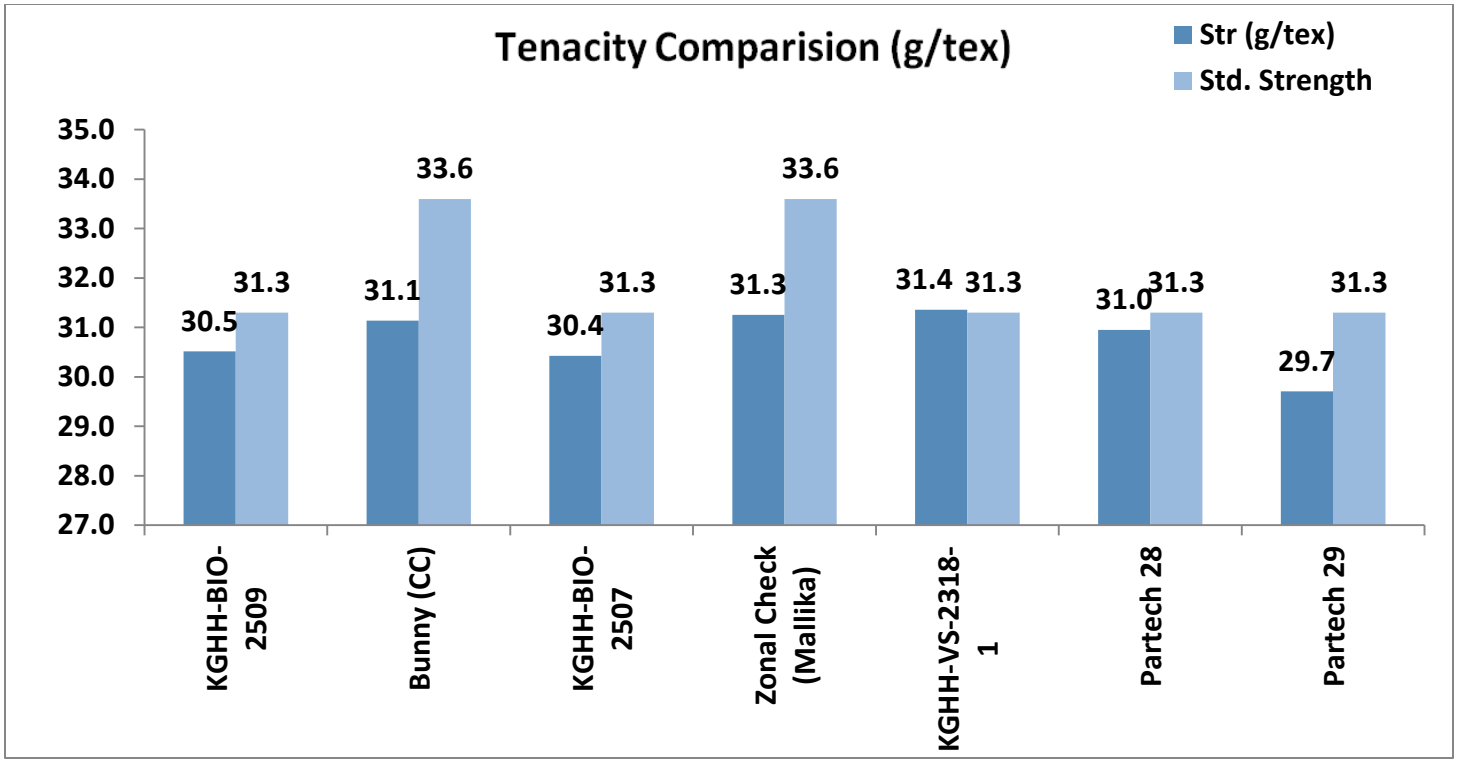
• Uniformity index values were satisfactory in most hybrids.

• The micronaire values of most the samples were marginally higher than the maximum required micronaire




UI Comparision
UI
Std. UI
87
86
86
85
85
84
84
83
83
85
84
84
86
84
85
84
86 86
84 84
84 84
86
84
KGHH-BIO-2509
Bunny (CC)
KGHH-BIO-2507
Zonal Check (Mallika)
KGHH-VS-2318-1
Partech 28
Partech 29


MIC Comparision
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4.4
4.0
4.5
3.9
4.4
4.0
4.6
3.9
4.5
4.0
4.4
4.0
4.9
4.0
KGHH-BIO-2509
Bunny (CC)
KGHH-BIO-2507
Zonal Check (Mallika)
KGHH-VS-2318-1
Partech 28
Partech 29



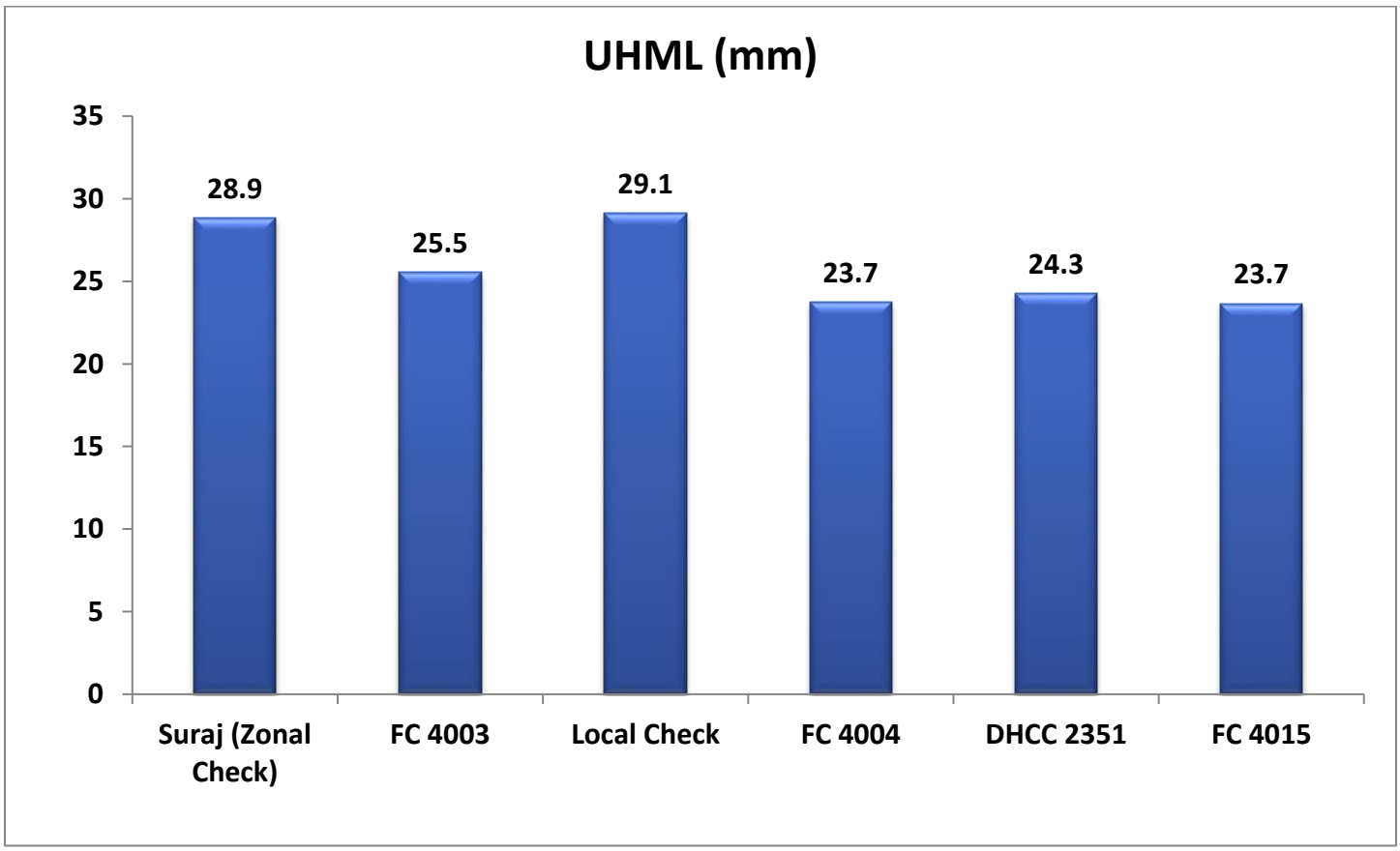
Recommendation

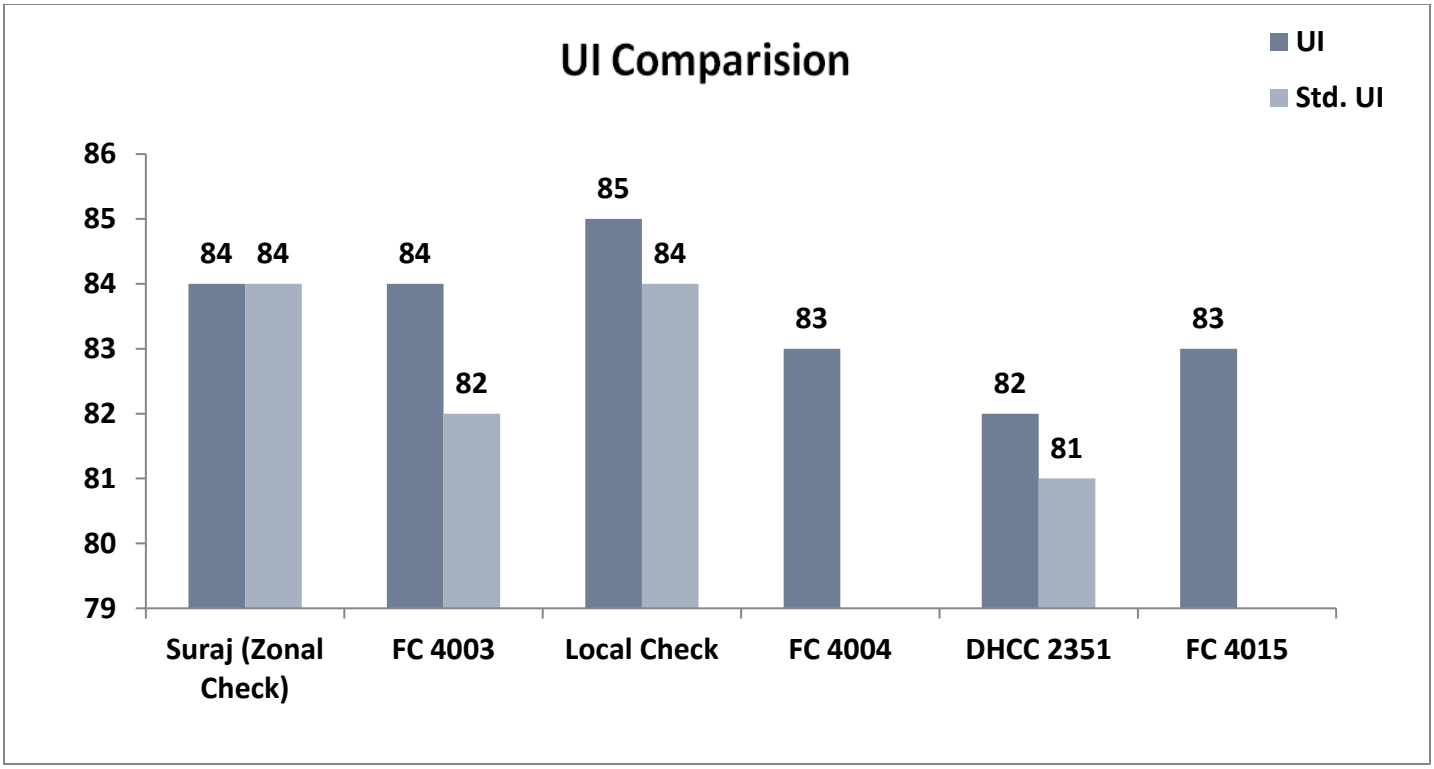
No entry performed better than check entries. However, the entries such as KGHH BIO 2509, 2507, KGHH-Vs-2318-1 and Partech 28 showed comparable results as that of check.

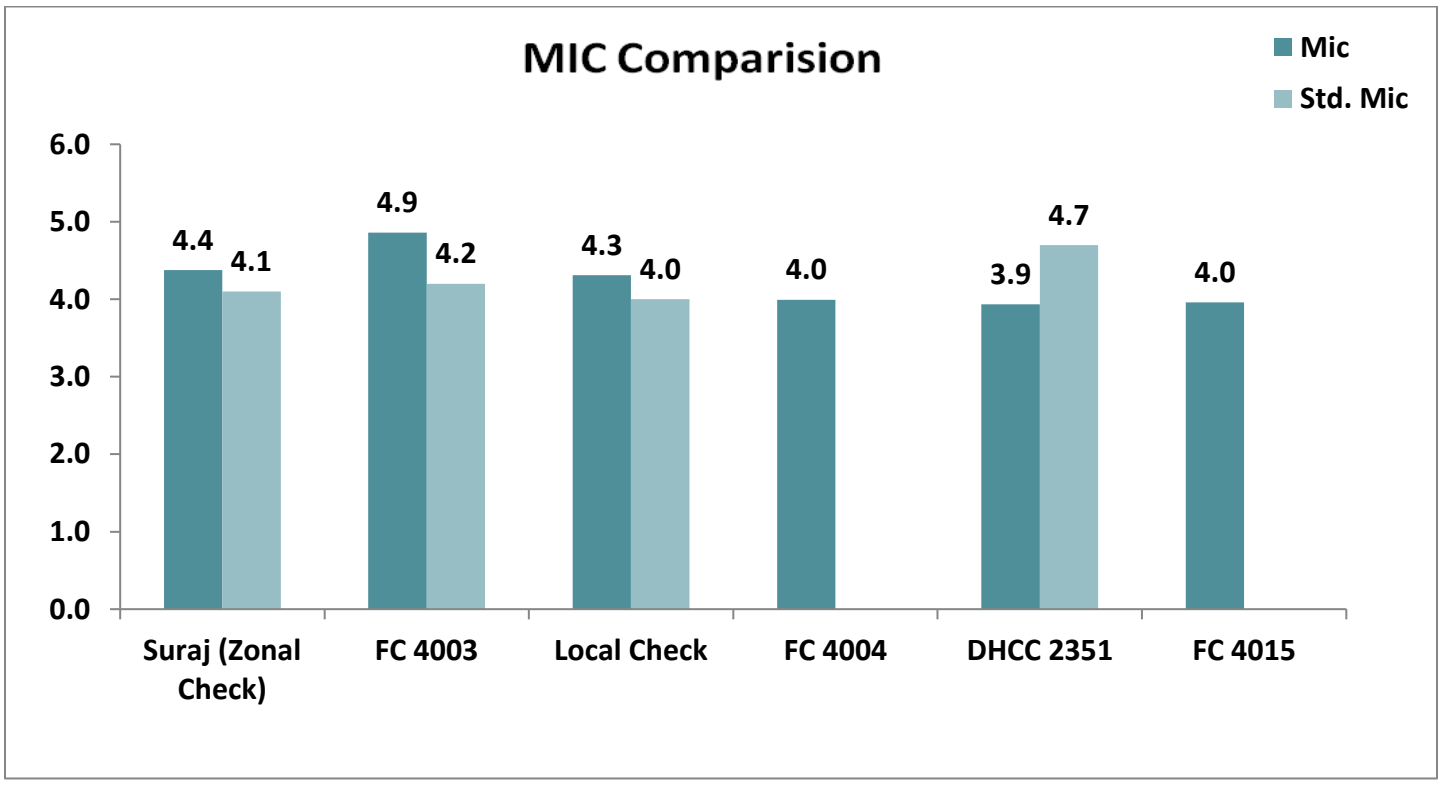
(iii) Br 03 CC a/b PVT Colour Cotton - (irrigated)

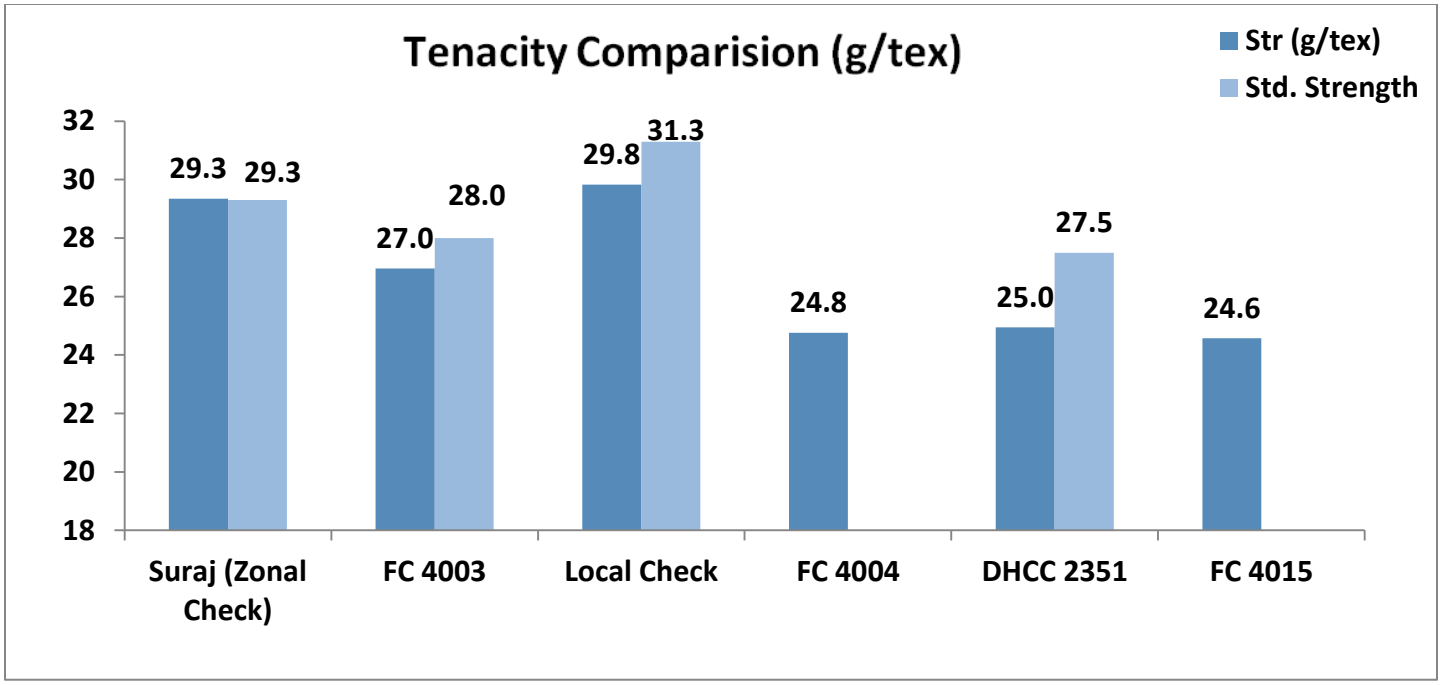
Observations

- The majority of the entries recorded UHML values in the range of 24–27 mm, indicating medium staple fibre typical of coloured cotton lines.
- Fibre strength values ranged between 20–25 g/tex, with a few entries showing comparatively higher tenacity.
- The Uniformity Index (UI) values were mostly between 78–82 %, indicating moderate fibre length uniformity among the entries.
- Micronaire values ranged from 3.8–5.0, indicating acceptable fibre maturity with slight variation in fibre fineness.




UI Comparision
UI
Std. UI
86
85
84
83
82
81
80
79
84 84
84 82
85 84
83
82 81
83
Suraj (Zonal Check)
FC 4003
Local Check
FC 4004
DHCC 2351
FC 4015


MIC Comparision
Mic
Std. Mic
6.0
5.0
4.0
3.0
2.0
1.0
0.0
4.4 4.1
4.9 4.2
4.3 4.0
4.0
3.9 4.7
4.0
Suraj (Zonal Check)
FC 4003
Local Check
FC 4004
DHCC 2351
FC 4015



Recommendation

The entries FC 4003 and DHCC 2351 are recommended for promotion due to their better fibre quality attributes in coloured cotton category

Entry	UHML	UI	Mic	Strength
FC 4003	25.5	84	4.9	27.0
DHCC 2351	24.3	82	3.9	25.0

(iv) Br 14a – Coordinated Varietal Trial - G. barbadense

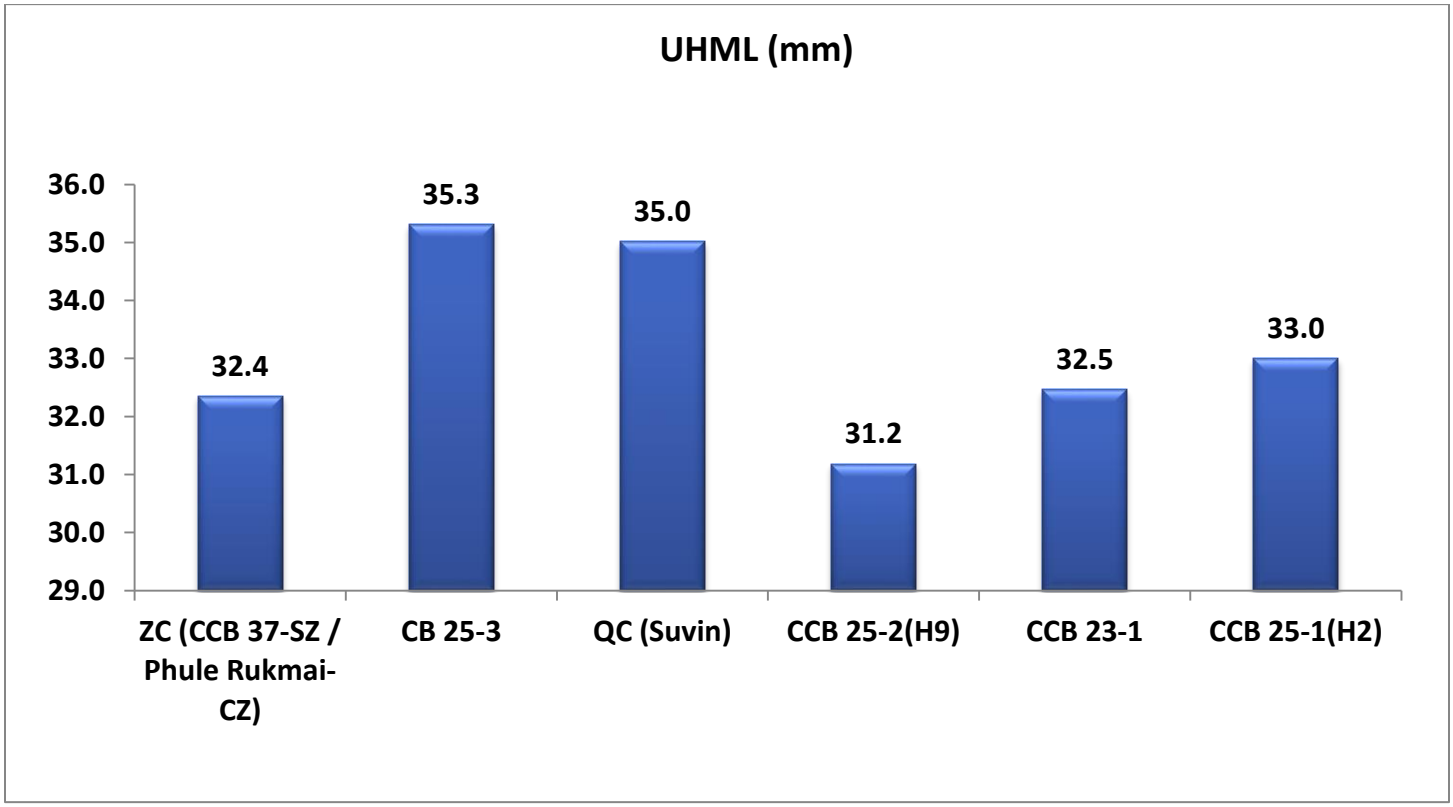
Observations

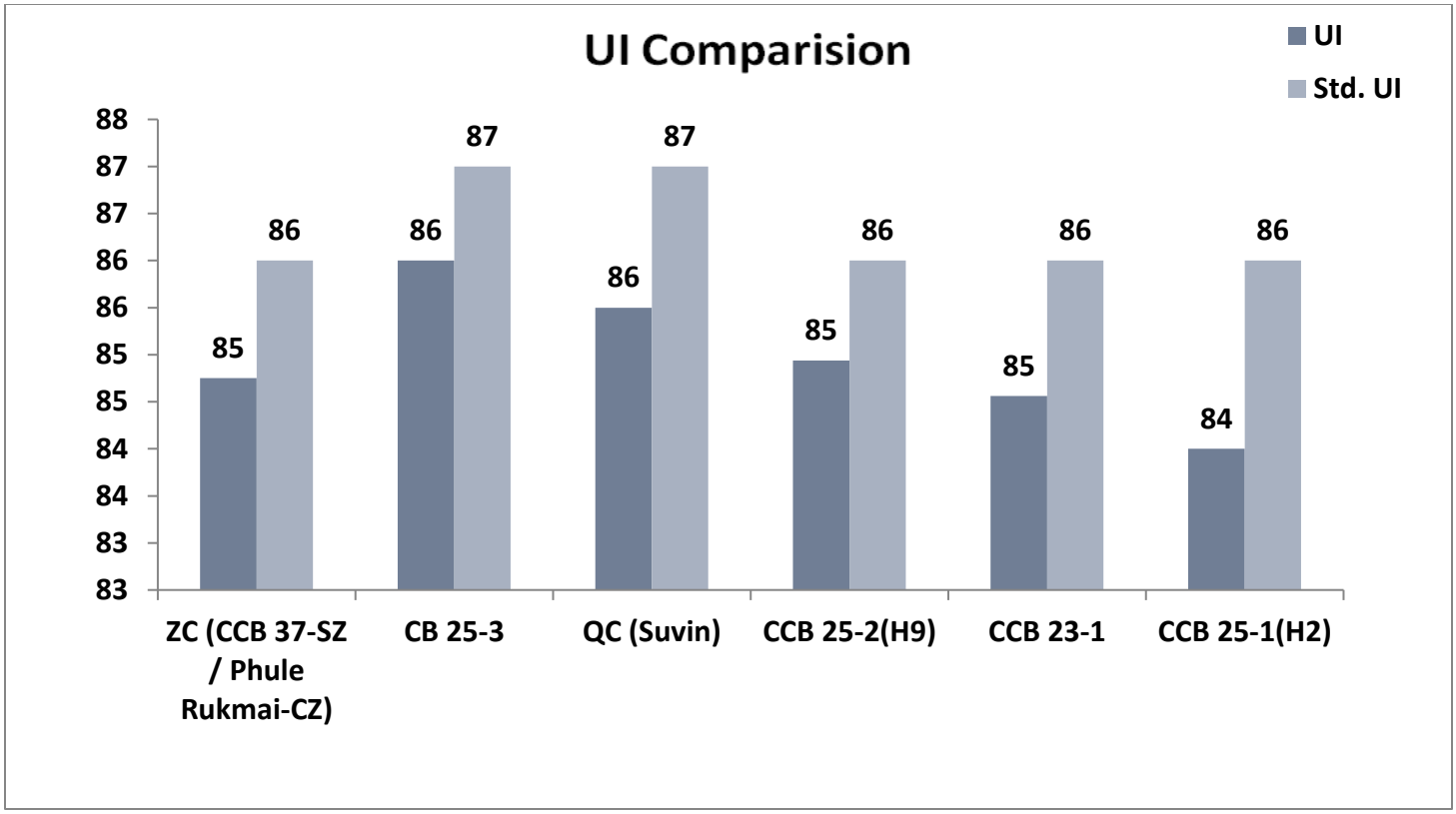
• Entries recorded longer staple fibre typical of barbadense cotton (around 35 mm).

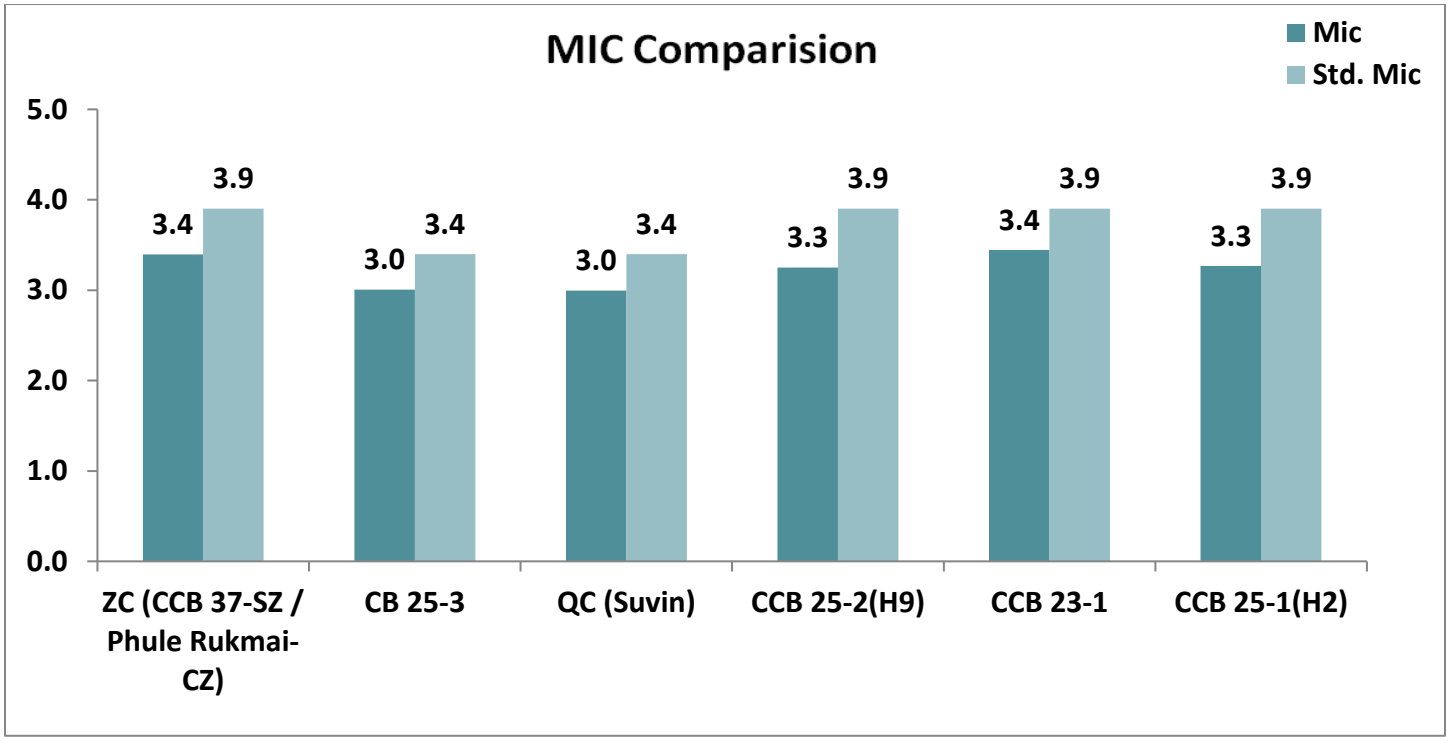
• Fibre strength values were relatively higher compared to other cotton species.

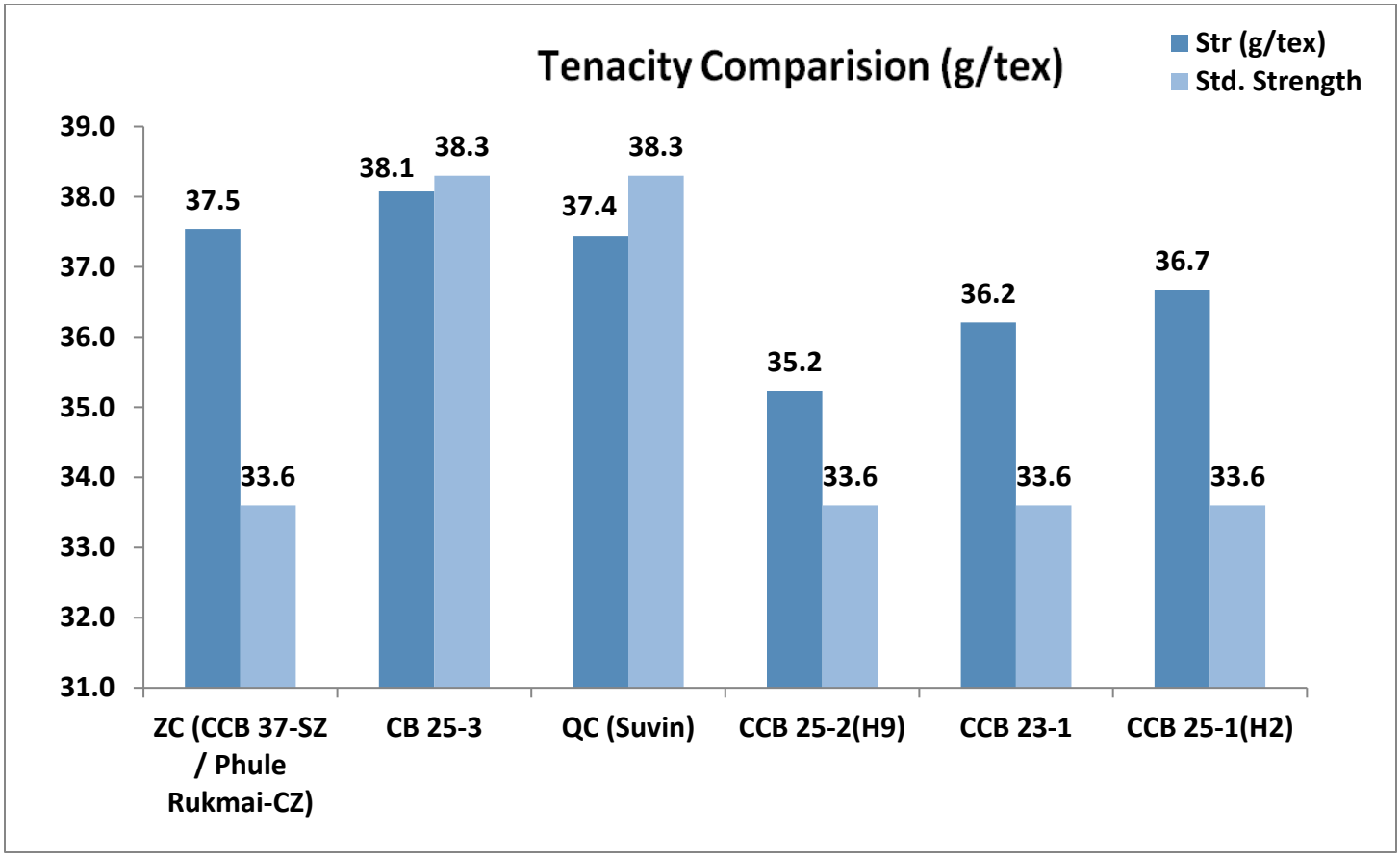
• Uniformity index values were good for most entries.

• Micronaire values were found to be generally lower than the desirable limits.




UI Comparision
UI
Std. UI
88
87
87
86
86
86
85
85
83
85
86
86
87
87
86
86
85
86
85
86
84
86
ZC (CCB 37-SZ / Phule Rukmai-CZ)
CB 25-3
QC (Suvin)
CCB 25-2(H9)
CCB 23-1
CCB 25-1(H2)


MIC Comparision
Mic
Std. Mic
5.0
4.0
3.0
2.0
1.0
0.0
3.4
3.9
3.0
3.4
3.0
3.4
3.3
3.9
3.4
3.9
3.3
3.9
ZC (CCB 37-SZ / Phule Rukmai-CZ)
CB 25-3
QC (Suvin)
CCB 25-2(H9)
CCB 23-1
CCB 25-1(H2)



Recommendation

The entry CB25-3 is recommended for promotion due to its better fibre quality attributes comparing with the check

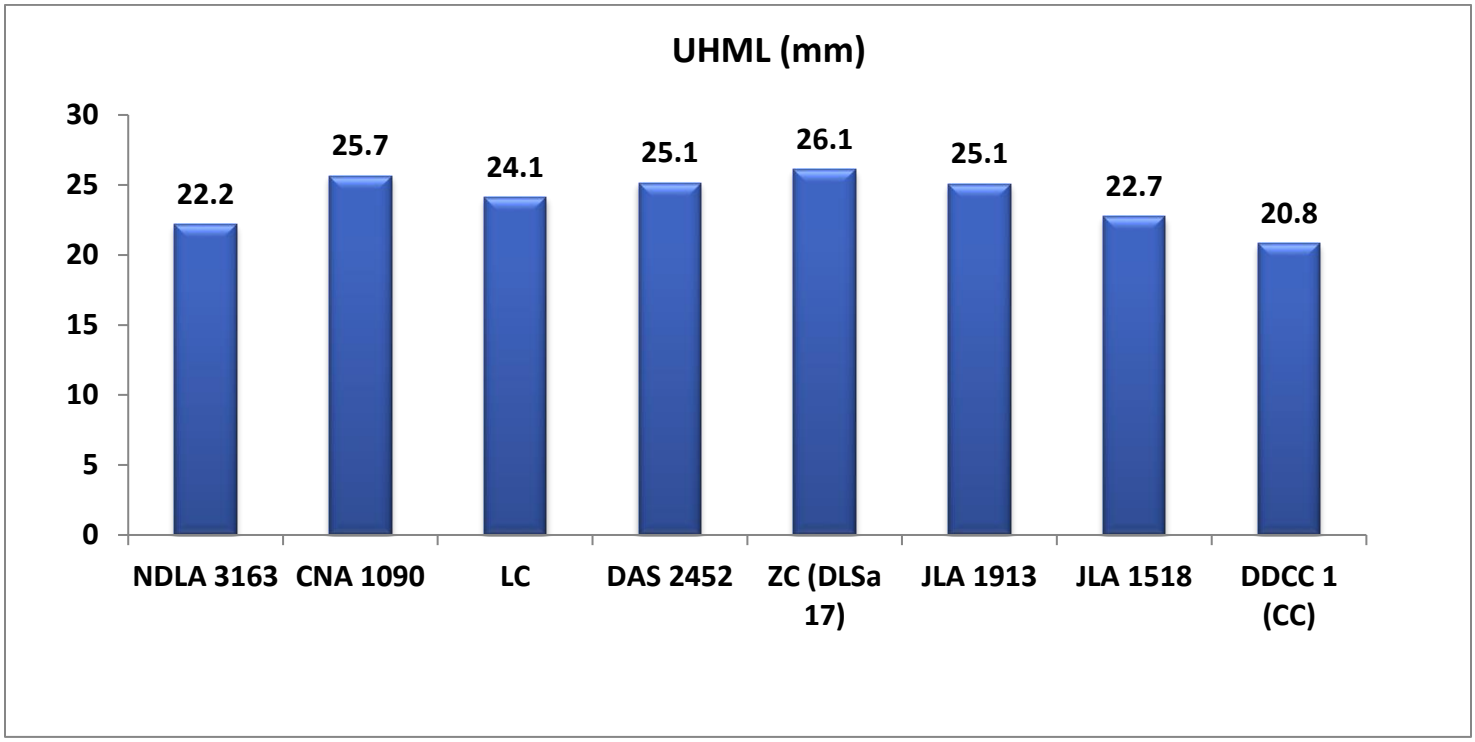
Entry	UHML	UI	Mic	Strength
QC (Suvin)	35.0	86	3.0	37.4
CB 25-3	35.3	86	3.0	38.1

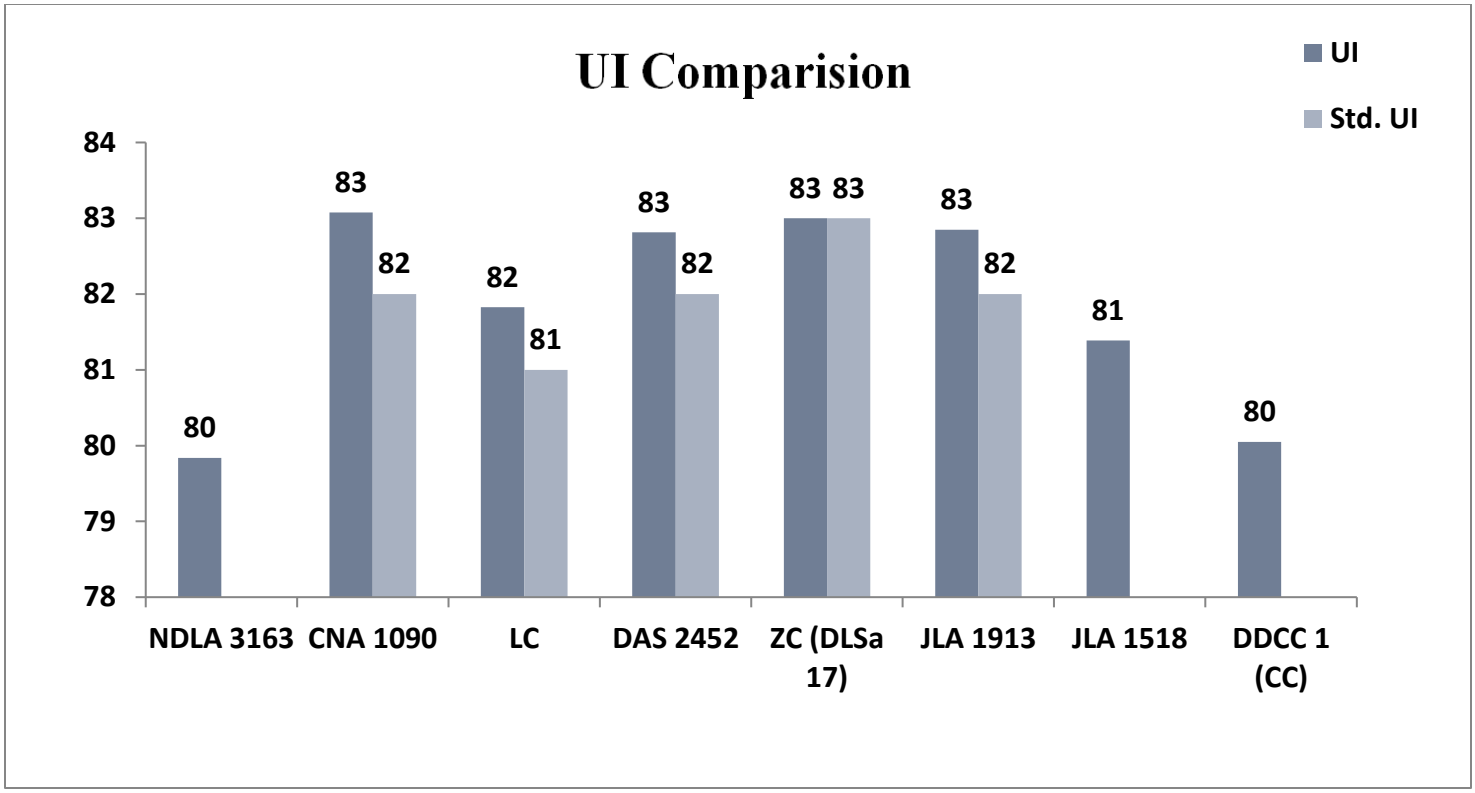
The other entries such as CCB-23-1 and CCB 25-1(H2) showed fibre qualities at par with zonal check.

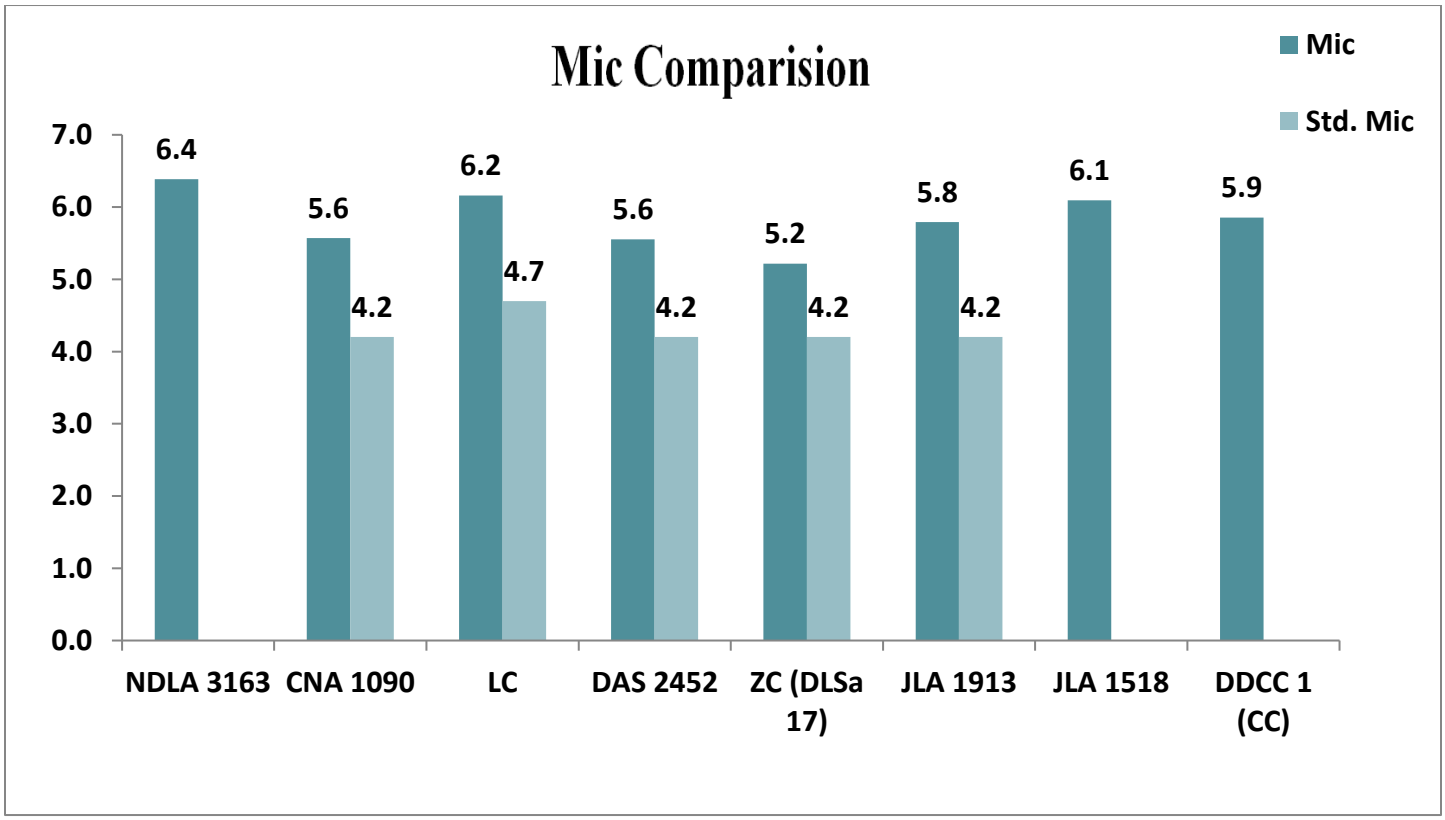
Br 24b – Coordinated Variety Trial - G. arboreum

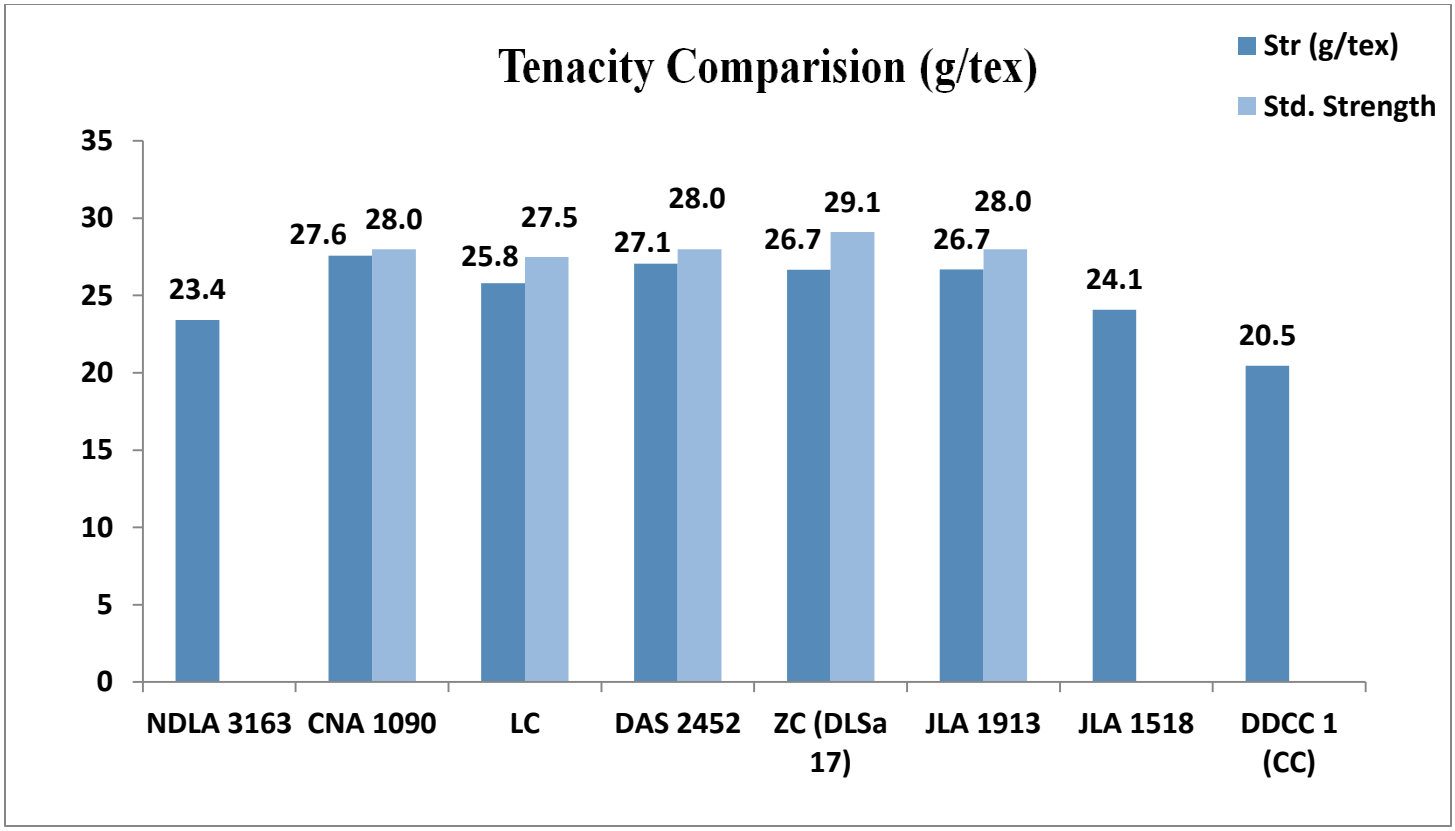
Observations

- Majority of the samples were in UHML range of 22-25 mm.
- The tenacity of the samples was marginally lower compared to the minimum requirement
- The samples were having good UI for all entries.
- The micronaire values of most the samples were higher (5-6) than the maximum required




UI Comparision
UI
Std. UI
84
83
82
81
80
79
78
80
83
82
82
81
83
82
83 83
83
82
81
80
NDLA 3163
CNA 1090
LC
DAS 2452
ZC (DLSa 17)
JLA 1913
JLA 1518
DDCC 1 (CC)


Mic Comparision
Mic
Std. Mic
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
6.4
5.6
4.2
6.2
4.7
5.6
4.2
5.2
4.2
5.8
4.2
6.1
5.9
NDLA 3163
CNA 1090
LC
DAS 2452
ZC (DLSa 17)
JLA 1913
JLA 1518
DDCC 1 (CC)



Recommendation

The entries CNA 1090, DAS 2452 and JLA 1913 showed fibre quality attributes at par with the check varieties.

III- North Zone

(i). Br.22 a Initial Evaluation Trial - G.arboreum

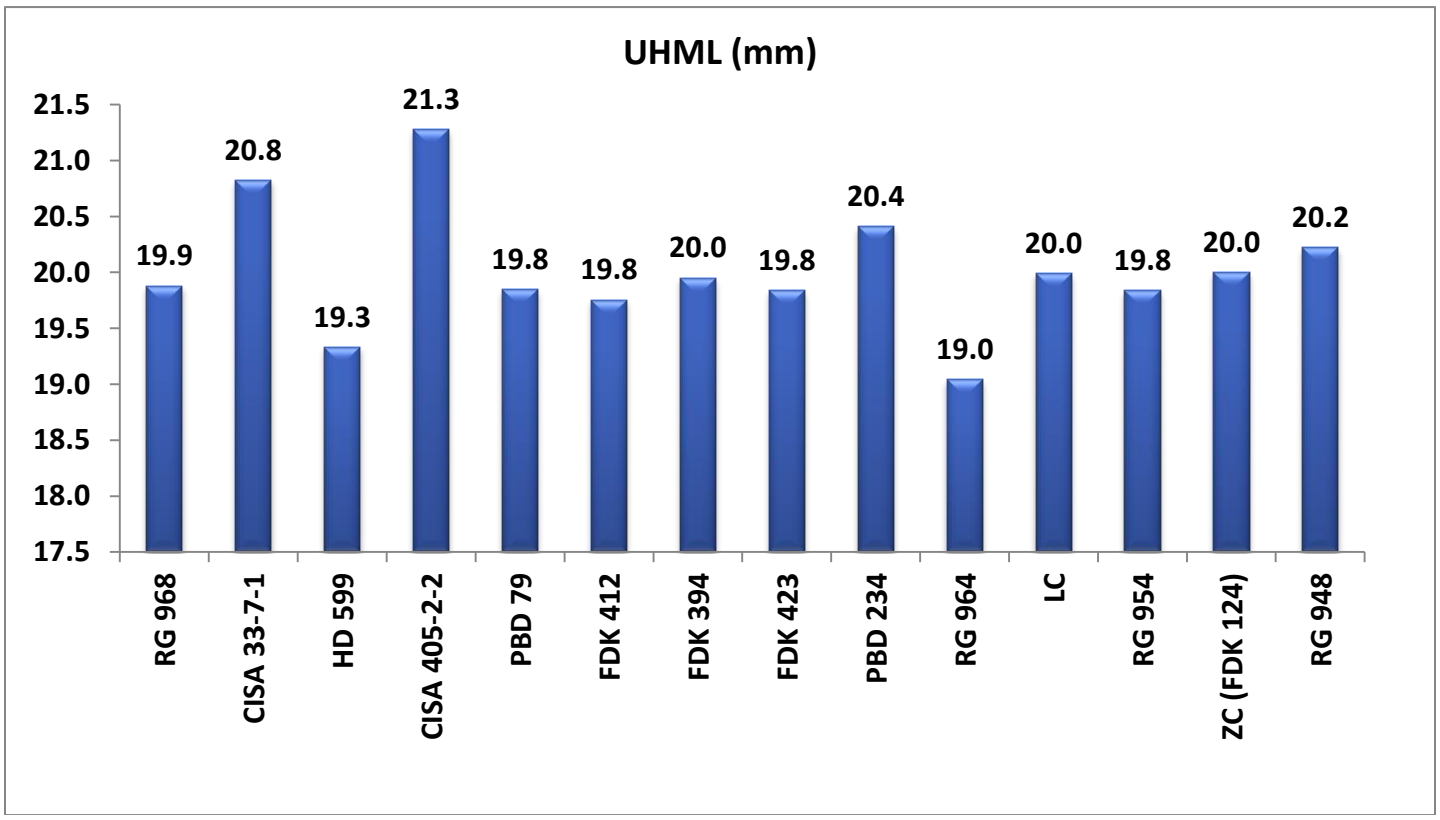
Observations

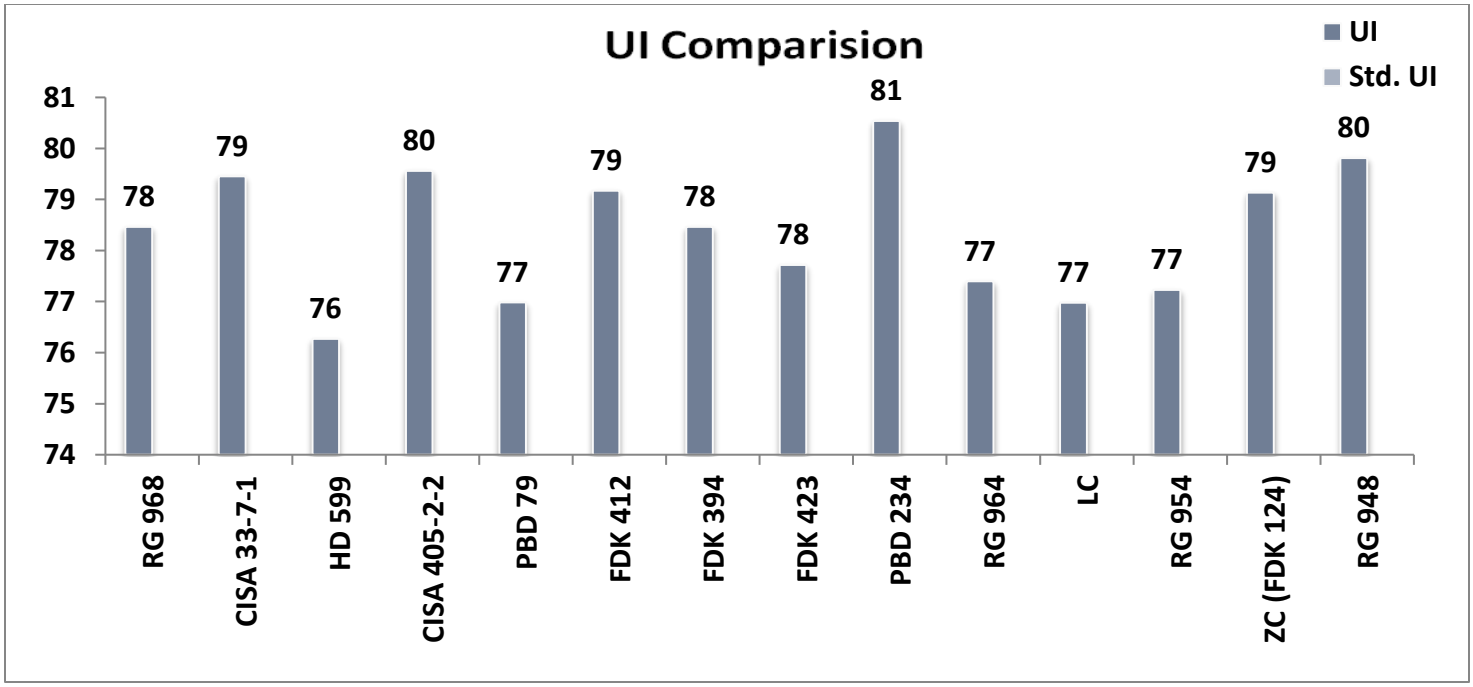
• Fibre length values were moderate and consistent with desi cotton characteristics. Majority of the samples were in UHML range of lower than 21 mm

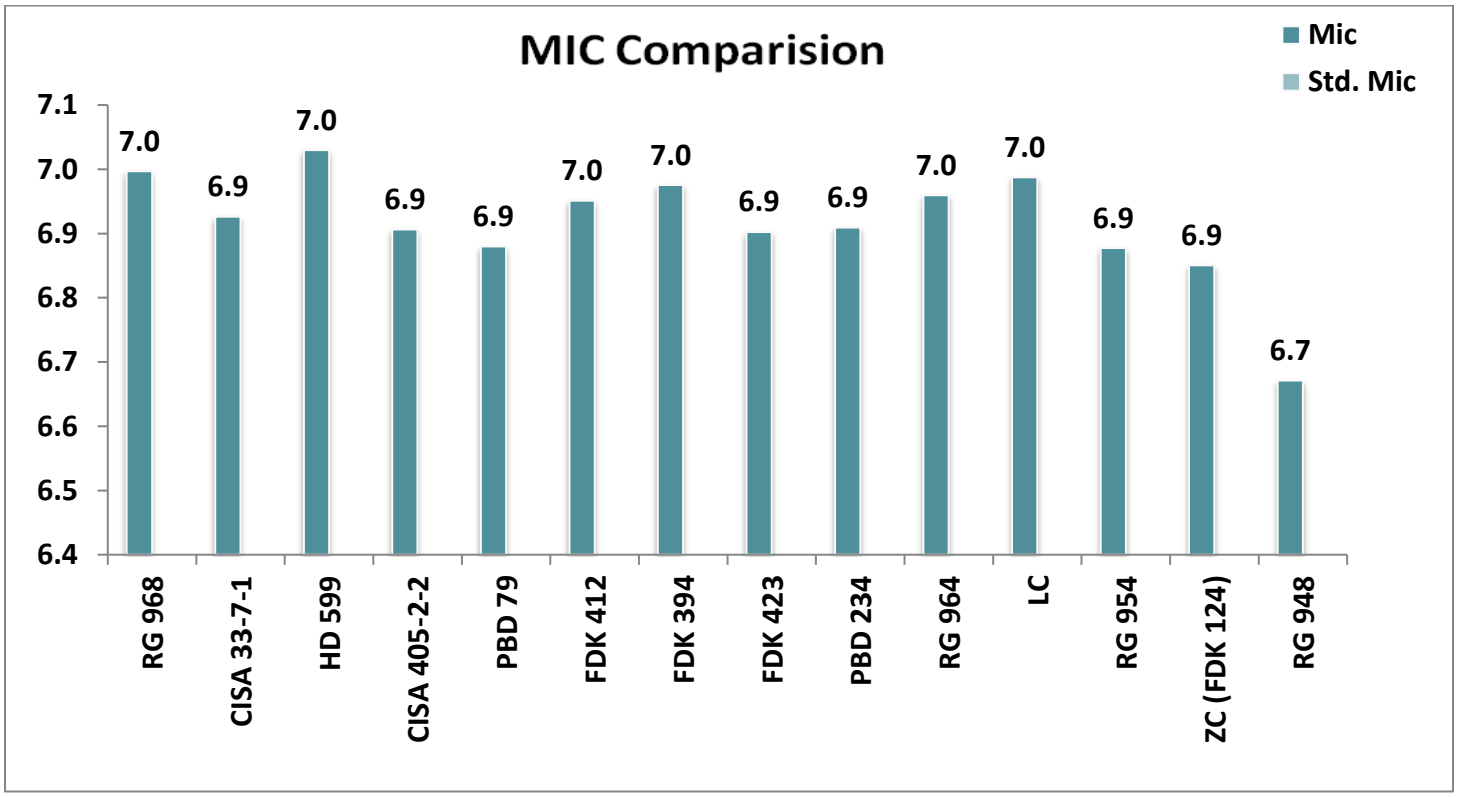
• Fibre strength values were within acceptable limits.

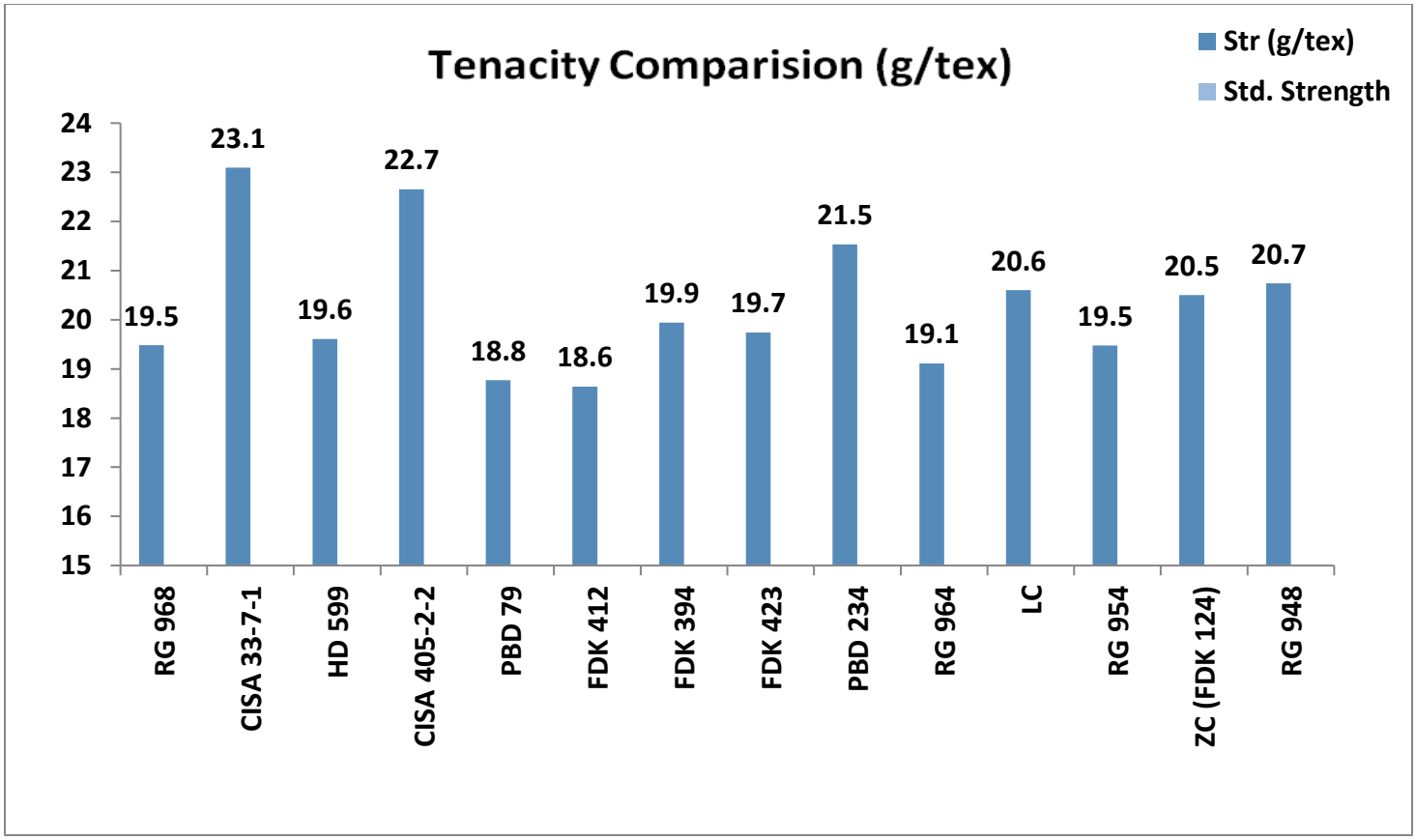
• Uniformity index values showed moderate variation among entries.

• The micronaire values of most the samples were marginally higher than the maximum required micronaire




UI Comparision
UI
Std. UI
81
80
79
78
77
76
75
74
78
79
76
80
77
79
78
78
81
77
77
77
79
80
RG 968
CISA 33-7-1
HD 599
CISA 405-2-2
PBD 79
FDK 412
FDK 394
FDK 423
PBD 234
RG 964
LC
RG 954
ZC (FDK 124)
RG 948


MIC Comparision
Mic
Std. Mic
7.1
7.0
6.9
6.8
6.7
6.6
6.5
6.4
7.0
6.9
7.0
6.9
6.9
7.0
7.0
6.9
6.9
7.0
7.0
6.9
6.9
6.7
RG 968
CISA 33-7-1
HD 599
CISA 405-2-2
PBD 79
FDK 412
FDK 394
FDK 423
PBD 234
RG 964
LC
RG 954
ZC (FDK 124)
RG 948



Recommendation

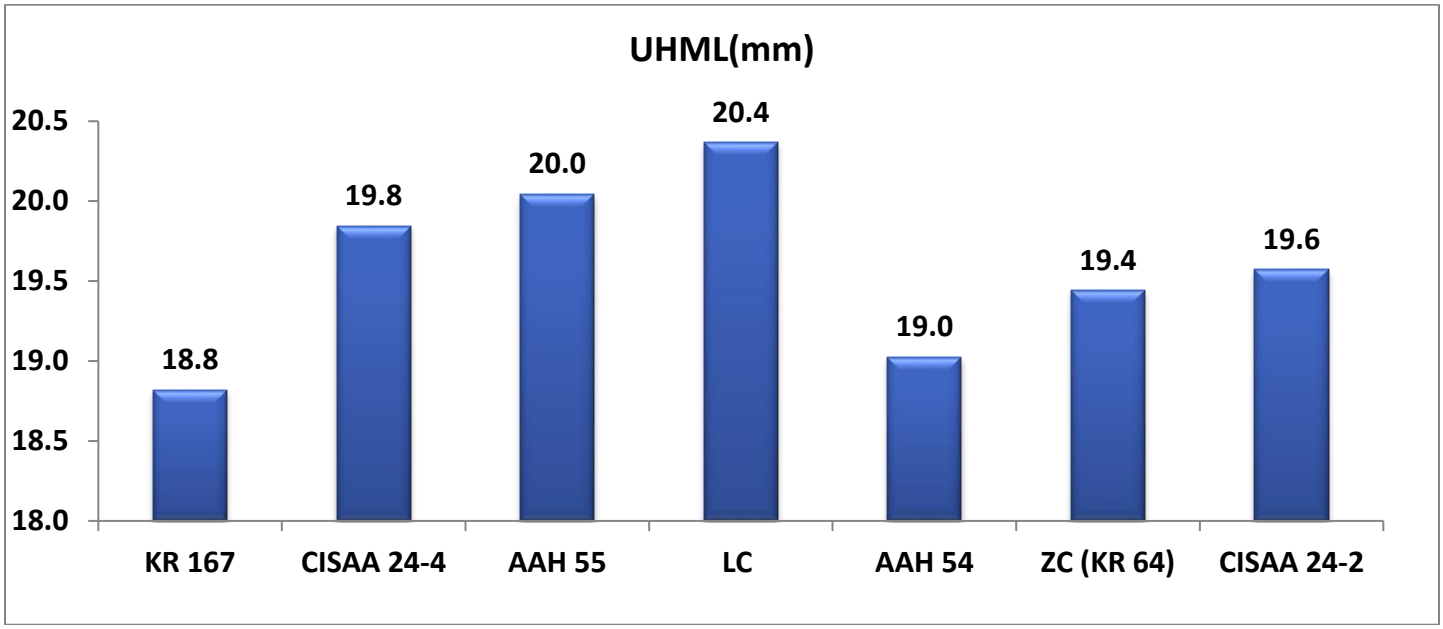
The entries CISA 405-2-2 and PA CISA 33-7-1 are recommended for promotion due to their better fibre quality attributes comparing with the check

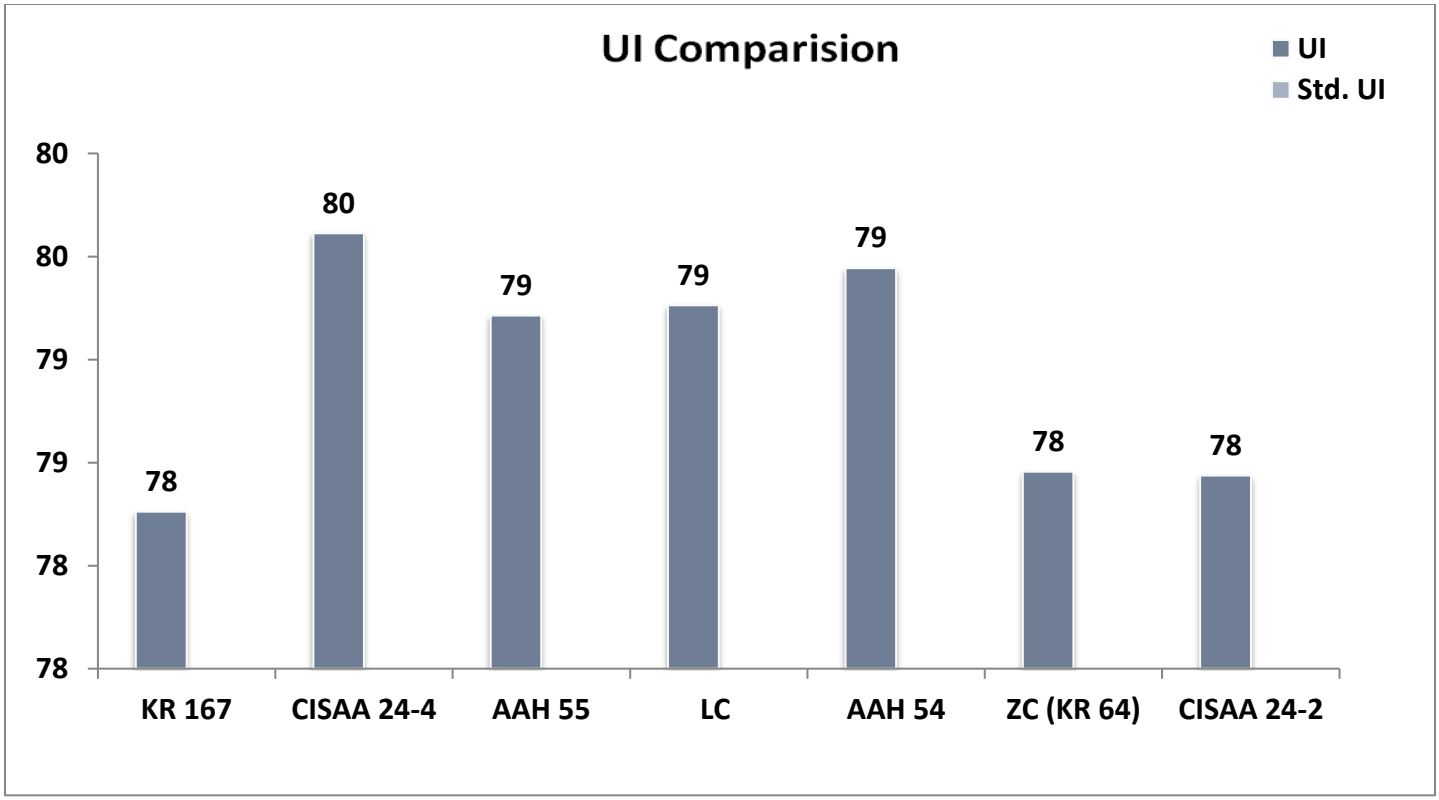
Entry	UHML	UI	Mic	Strength
LC	20.0	77	7.0	20.6
CISA 405-2-2	21.3	80	6.9	22.7
CISA 33-7-1	20.8	79	6.9	23.1

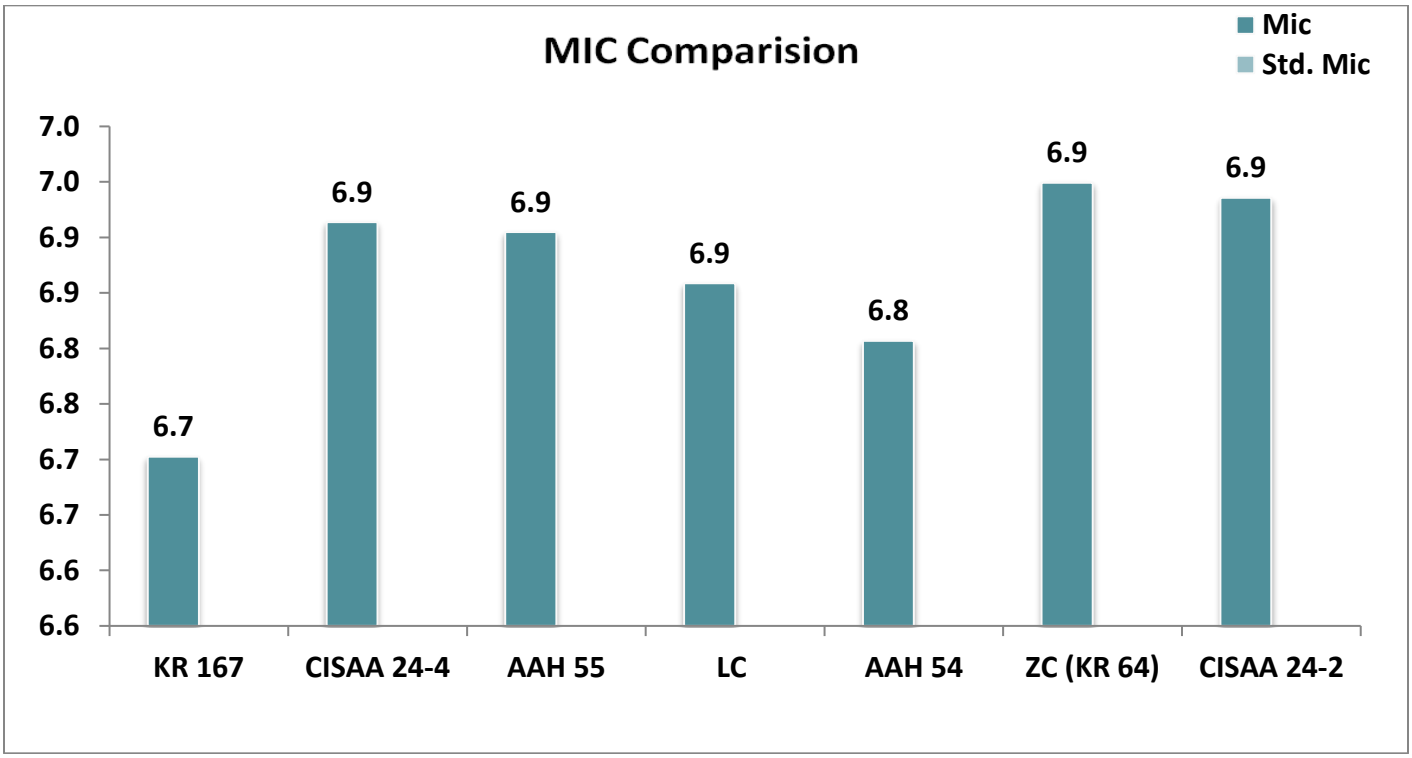
(ii) Br. 25 a Preliminary Hybrid Trial - Desi Hybrid

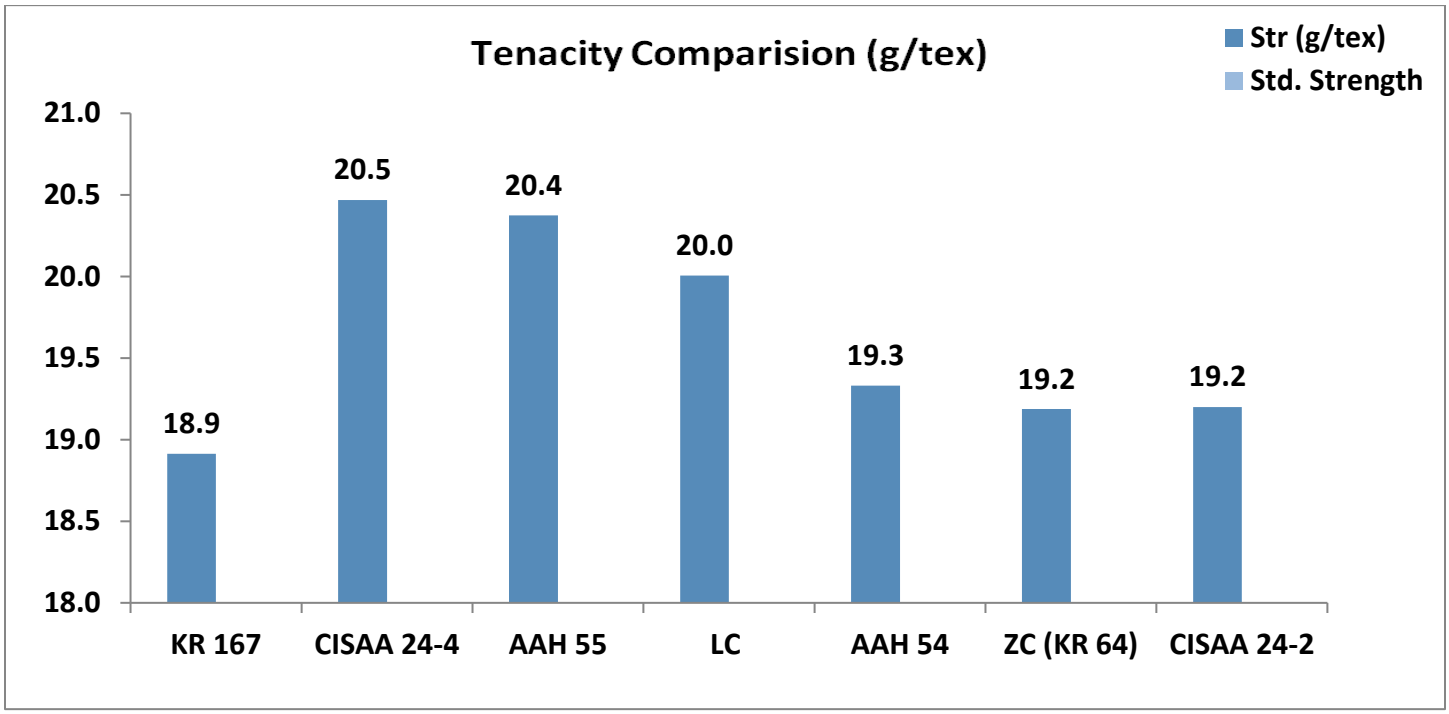
Observations

- Majority of the samples were in UHML range of 18-20 mm.
- The tenacity of the samples was lower compared to the minimum requirement.
- The samples were having marginally lower UI the minimum requirement.
- The micronaire values of most the samples were higher than the maximum required micronaire.




UI Comparision
UI
Std. UI
80
80
79
79
78
78
78
80
79
79
78
78
KR 167
CISAA 24-4
AAH 55
LC
AAH 54
ZC (KR 64)
CISAA 24-2


MIC Comparision
Mic
Std. Mic
7.0
7.0
6.9
6.9
6.8
6.8
6.7
6.7
6.6
6.6
6.7
6.9
6.9
6.9
6.8
6.9
6.9
KR 167
CISAA 24-4
AAH 55
LC
AAH 54
ZC (KR 64)
CISAA 24-2



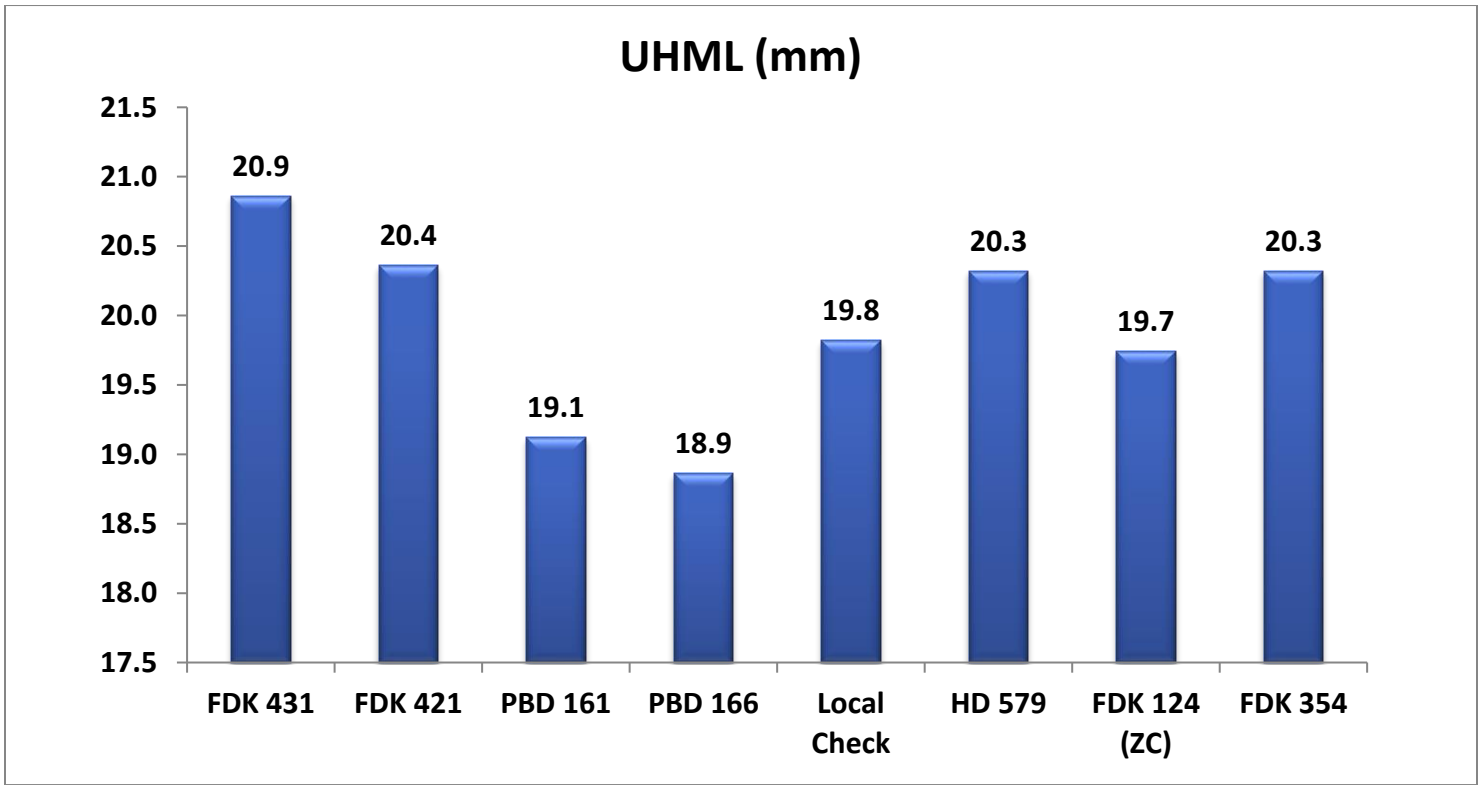
Recommendation

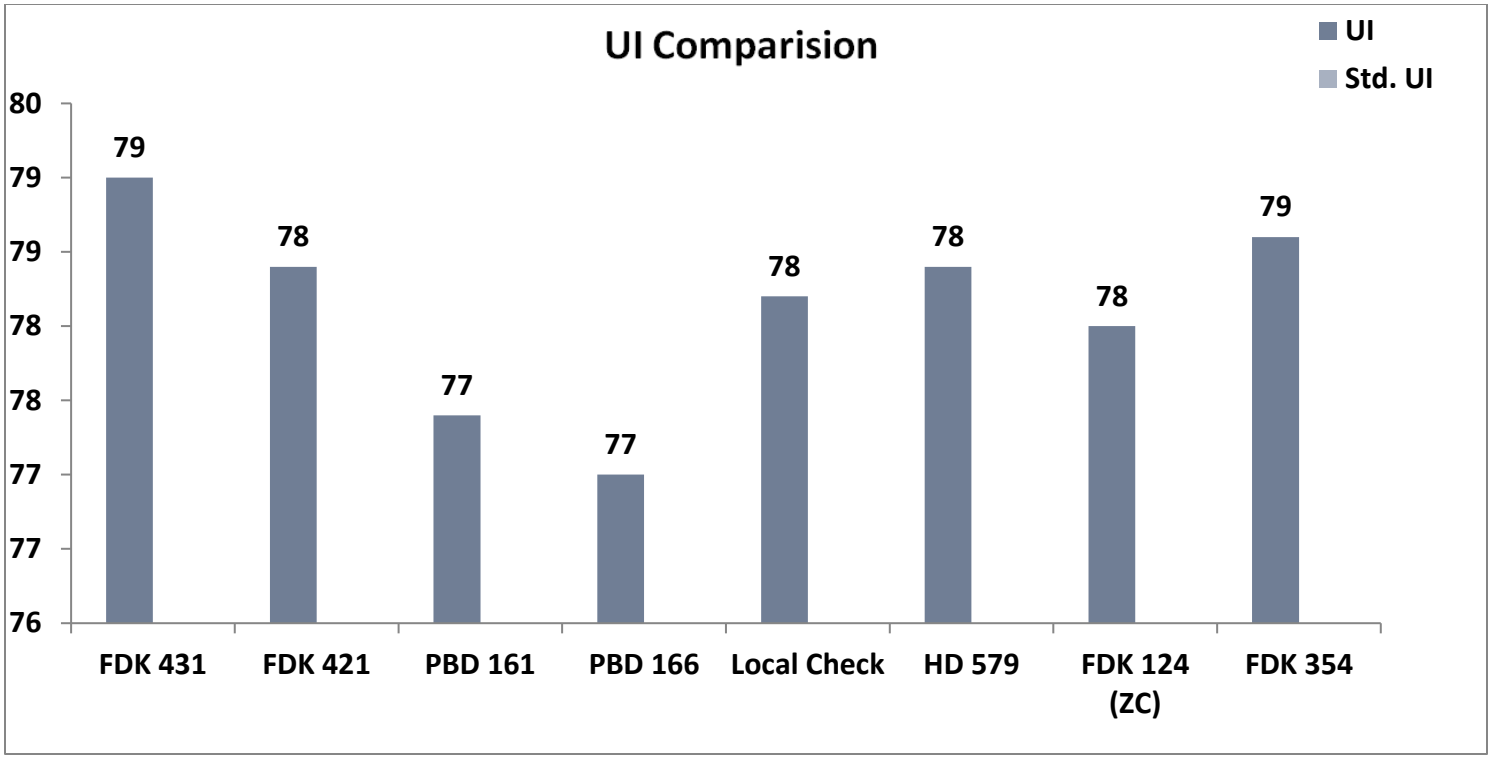
No entry performed better than check entries

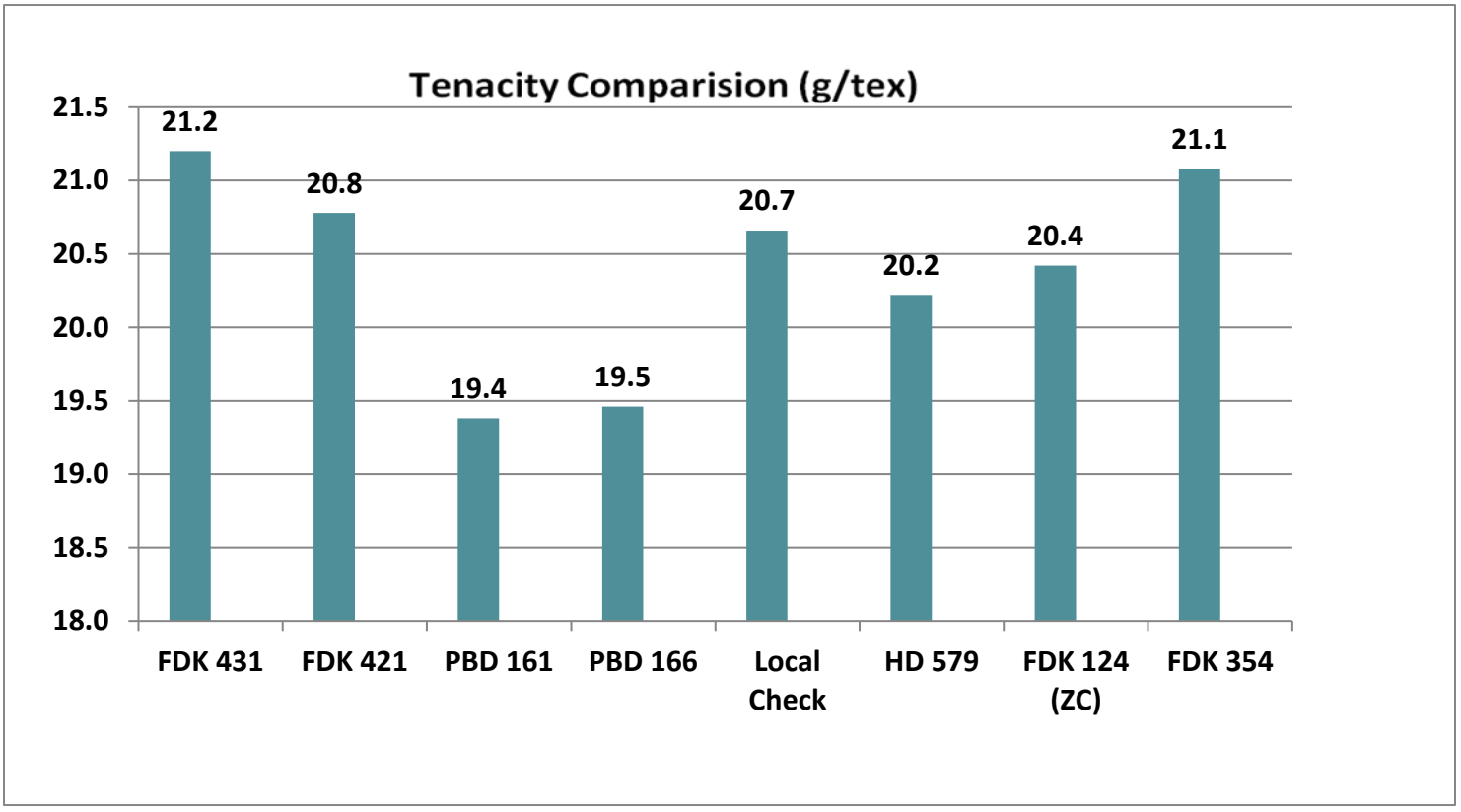
(iii) Br-24 a - Coordinated Variety trial of *G. arboreum*

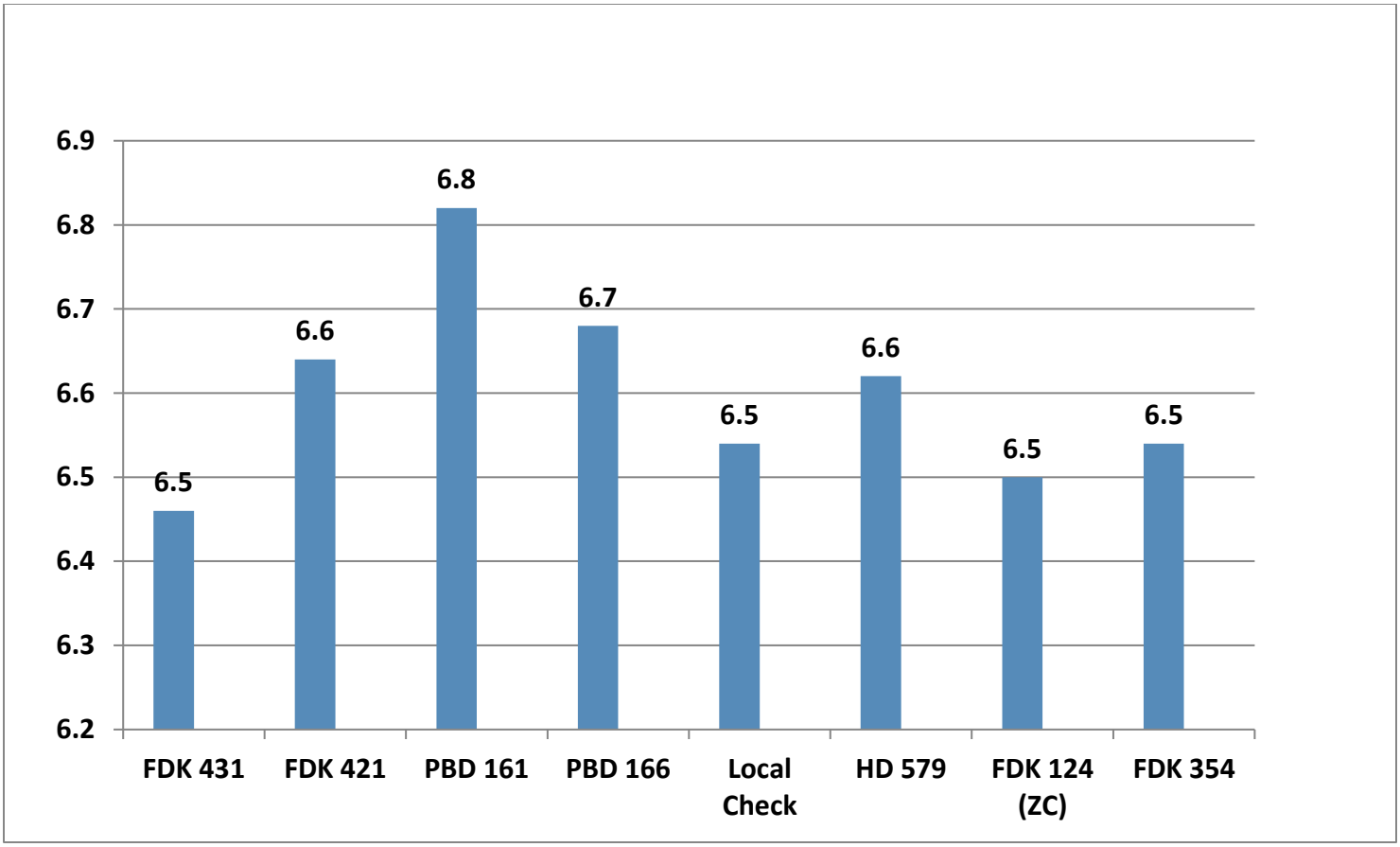
Observations

- Majority of the samples were in UHML range of around 20 mm.
- The tenacity of the samples was marginally lower compared to the minimum requirement
- The micronaire values of most the samples were higher (6-7)




UI Comparision
UI
Std. UI
80
79
79
78
78
77
77
76
79
78
77
77
78
78
78
79
FDK 431
FDK 421
PBD 161
PBD 166
Local Check
HD 579
FDK 124 (ZC)
FDK 354


Tenacity Comparision (g/tex)
21.5
21.0
20.5
20.0
19.5
19.0
18.5
18.0
21.2
20.8
19.4
19.5
20.7
20.2
20.4
21.1
FDK 431
FDK 421
PBD 161
PBD 166
Local Check
HD 579
FDK 124 (ZC)
FDK 354

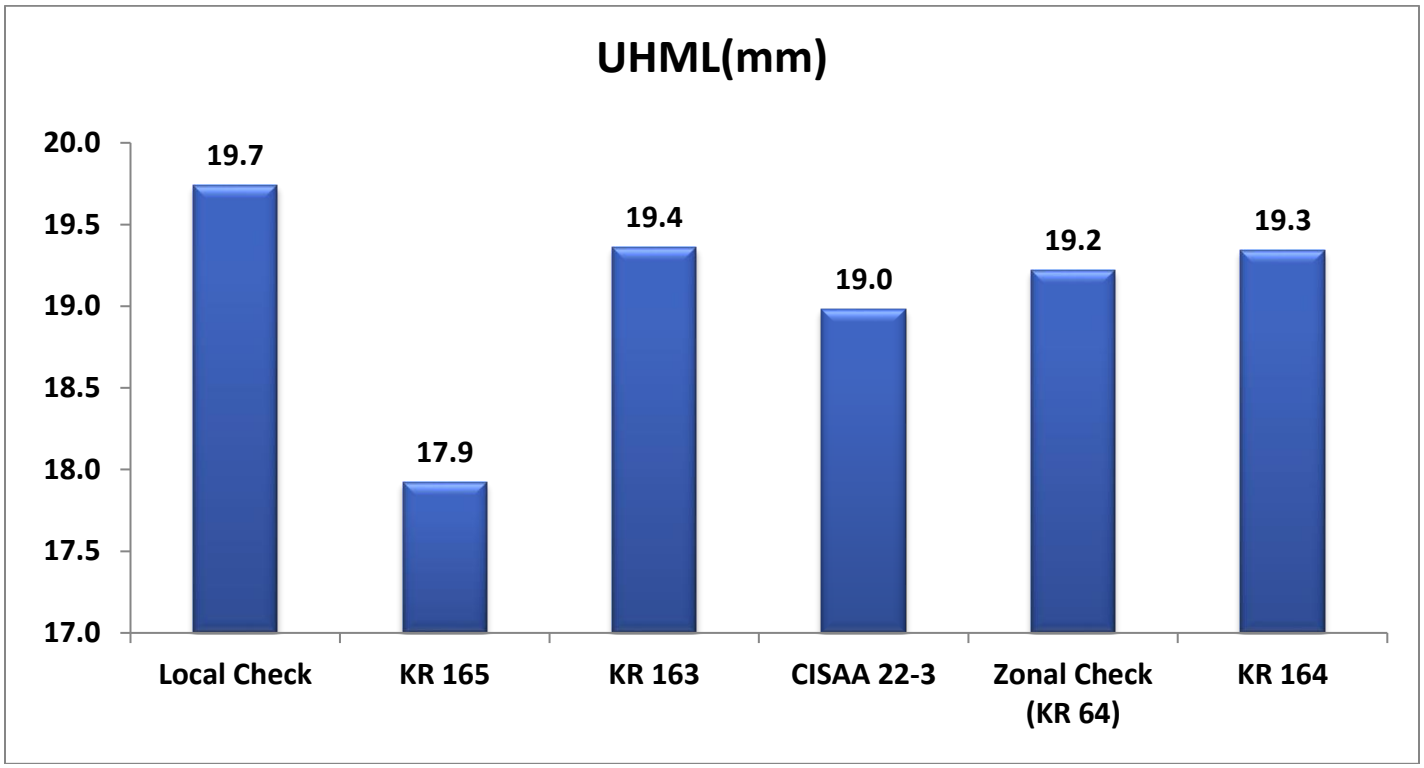


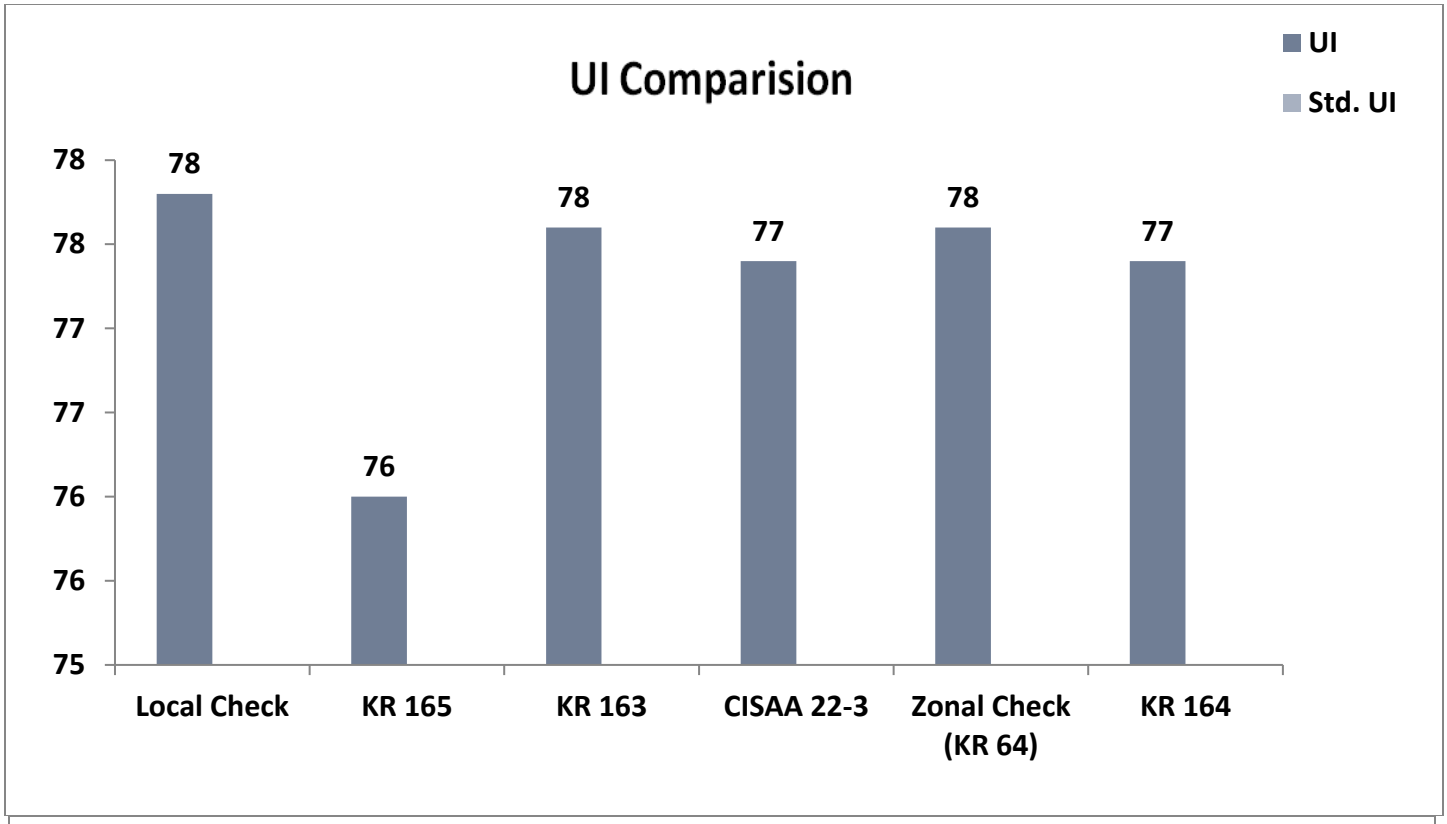
Recommendation

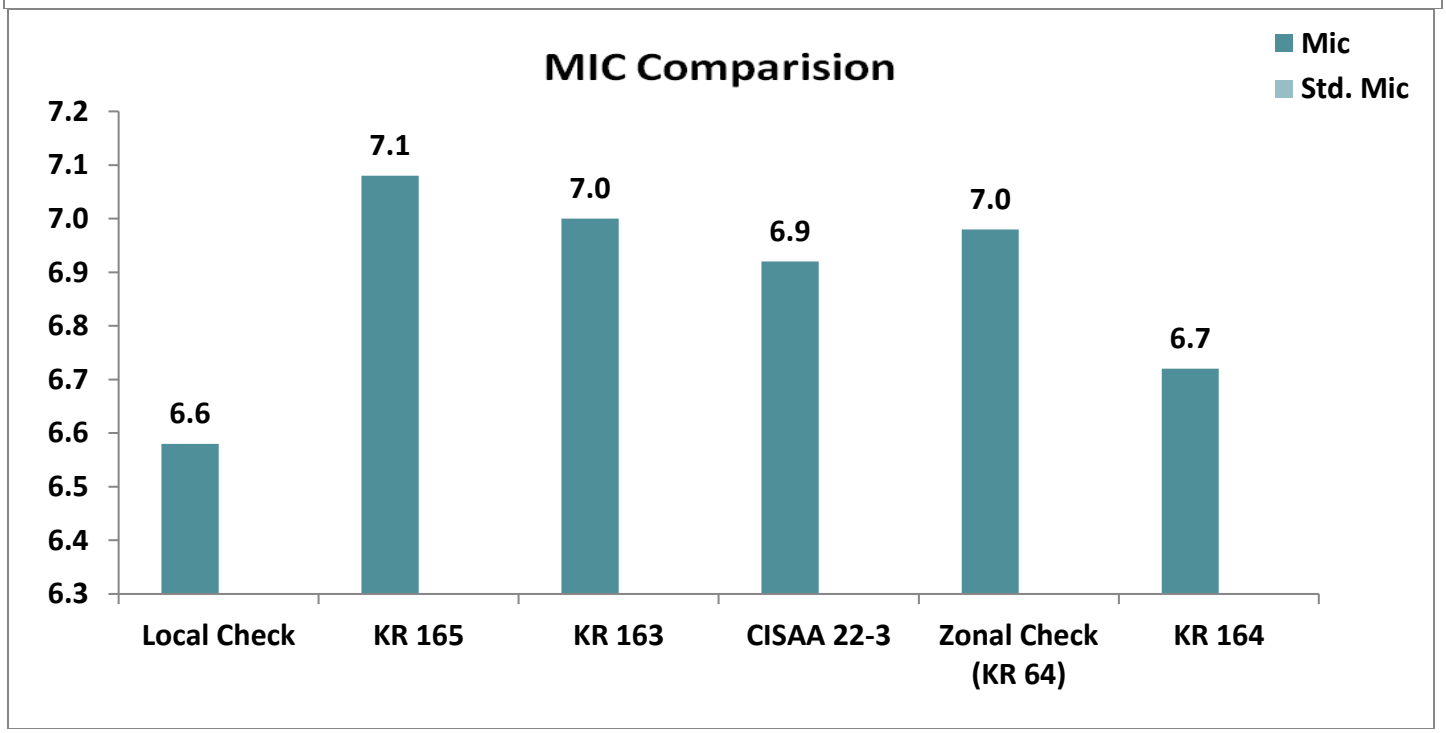
The entries FDK 431 and FDK 421 are recommended for promotion due to their better fibre quality attributes comparing with the check

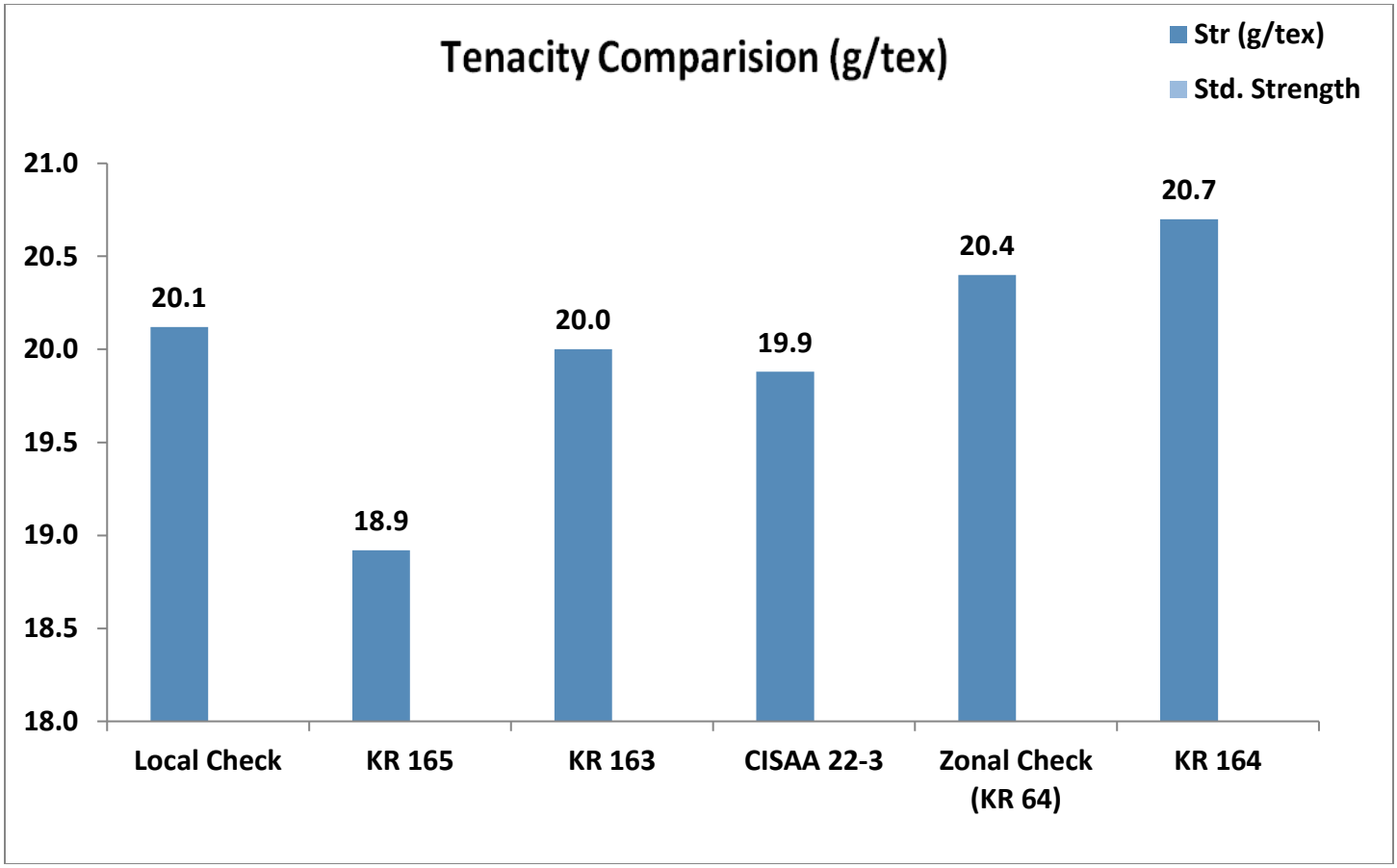
Entry	UHML	UI	Mic	Strength
LC	19.8	78	6.5	20.7
FDK 431	20.9	79	6.5	21.2
FDK 421	20.4	78	6.6	20.8

iv. Br-25 a Coordinated Desi Hybrid trial




UI Comparision
UI
Std. UI
78
78
77
77
76
76
75
78
76
78
77
78
77
Local Check
KR 165
KR 163
CISAA 22-3
Zonal Check (KR 64)
KR 164


MIC Comparision
Mic
Std. Mic
7.2
7.1
7.0
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.6
7.1
7.0
6.9
7.0
6.7
Local Check
KR 165
KR 163
CISAA 22-3
Zonal Check (KR 64)
KR 164



Recommendation

No entry performed better than check entries

Fibre Quality Data

National Trials

I. Central Zone

(1) Br. 02 c - IET of *G. hirsutum* under organic condition

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
1	CSH NB 102	531	Khandwa	27.1	82	3.6	25.5	5.2
			Rahuri	27.7	85	3.3	28.9	5.1
			Bhawanipatna	27.5	84	3.9	28.1	5.7
			Talod	28.5	85	4.5	29.9	5.6
			Akola	26.1	84	4.2	27.6	4.9
			Nanded	24.0	79	3.3	25.4	5.8
			Surat	27.0	85	4.5	29.2	5.5
			Mean	**26.9**	**84**	**3.9**	**27.8**	**5.4**
2	BS 45-25	532	Khandwa	25.9	82	3.5	27.6	5.2
			Rahuri	26.5	85	3.4	29.5	5.1
			Bhawanipatna	24.5	84	4.8	25.4	5.6
			Talod	26.2	85	5.2	28.1	5.9
			Akola	24.9	82	4.5	27.2	4.9
			Nanded	24.6	80	3.7	25.8	5.5
			Surat	25.2	84	5.1	26.5	5.5
			Mean	**25.4**	**83**	**4.3**	**27.2**	**5.4**
3	ZC [Phule Yamuna (CZ) / Suraj (SZ)]	533	Khandwa	25.9	80	3.1	26.9	5.1
			Rahuri	25.7	85	3.9	30.2	5.1
			Bhawanipatna	26.2	86	4.7	28.1	5.8
			Talod	26.8	85	4.7	28.8	5.5
			Akola	26.0	83	4.5	29.6	5.1
			Nanded	22.1	81	3.7	22.5	5.3
			Surat	26.7	85	4.4	27.8	5.7
			Mean	**25.6**	**84**	**4.1**	**27.7**	**5.4**
4	Local Check	534	Khandwa	23.8	80	4.0	24.6	4.7
			Rahuri	25.7	85	4.0	28.7	4.9
			Bhawanipatna	29.8	83	4.8	28.8	5.9
			Talod	28.2	83	5.5	30.8	4.7
			Akola	25.6	81	5.1	27.3	4.9
			Nanded	23.9	77	3.5	24.9	5.3

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
			Surat	25.9	83	4.7	27.2	5.3
			Mean	**26.1**	**82**	**4.5**	**27.5**	**5.1**
5	SAM 5	535	Khandwa	27.5	82	4.0	29.7	5.3
			Rahuri	29.2	85	3.8	31.9	5.1
			Bhawanipatna	29.4	85	4.3	30.1	5.8
			Talod	27.8	84	4.3	29.2	4.7
			Akola	27.4	85	3.8	30.6	5.1
			Nanded	24.2	79	3.4	26.4	5.5
			Surat	29.5	85	4.4	30.8	5.5
			Mean	**27.9**	**84**	**4.0**	**29.8**	**5.3**
6	RHC-1419	536	Khandwa	26.4	82	4.2	27.4	5.1
			Rahuri	27.7	84	4.3	30.8	5.0
			Bhawanipatna	27.1	84	4.9	27.2	5.7
			Talod	27.2	85	4.7	29.8	5.2
			Akola	26.3	83	4.4	28.4	5.0
			Nanded	25.0	82	3.9	26.4	5.5
			Surat	26.0	84	4.9	27.6	5.5
			Mean	**26.5**	**84**	**4.5**	**28.2**	**5.3**
7	NH 786	537	Khandwa	24.9	82	4.7	26.4	5.0
			Rahuri	27.1	84	4.6	30.5	5.1
			Bhawanipatna	28.7	84	3.9	29.2	5.7
			Talod	29.5	84	5.0	31.4	5.1
			Akola	25.1	83	4.8	26.8	4.9
			Nanded	23.6	79	3.8	25.1	5.6
			Surat	26.8	85	4.9	29.1	5.4
			Mean	**26.5**	**83**	**4.5**	**28.4**	**5.2**
8	SIMA 5-50	538	Khandwa	26.5	81	3.5	27.8	5.1
			Rahuri	29.4	86	3.7	32.4	5.3
			Bhawanipatna	27.4	84	5.0	26.8	5.7
			Talod	29.5	86	4.7	29.3	4.6
			Akola	28.7	85	4.5	30.2	5.2
			Nanded	24.5	78	3.4	25.7	5.1
			Surat	28.4	85	4.7	30.8	5.7
			Mean	**27.8**	**84**	**4.2**	**29.0**	**5.2**
9	PCV 11	539	Khandwa	25.8	81	5.3	27.5	5.1
			Rahuri	27.3	84	5.2	30.2	5.0
			Bhawanipatna	26.3	83	4.6	26.5	5.6
			Talod	28.7	84	5.7	31.2	4.8

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Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
			Akola	26.1	82	5.7	26.7	5.0
			Nanded	22.6	76	4.5	22.4	4.9
			Surat	28.0	85	5.3	29.3	5.5
			Mean	**26.4**	**82**	**5.2**	**27.7**	**5.1**
10	RHC-1902	540	Khandwa	28.4	84	4.3	28.2	5.3
			Rahuri	27.7	83	4.3	28.3	5.1
			Bhawanipatna	26.2	84	4.7	26.9	5.7
			Talod	27.6	85	5.5	29.8	5.0
			Akola	25.6	84	4.6	27.7	5.0
			Nanded	22.9	79	4.0	24.7	5.3
			Surat	27.0	83	5.2	28.7	5.5
			Mean	**26.5**	**83**	**4.7**	**27.8**	**5.3**
11	RS 3063	541	Khandwa	26.3	82	4.0	26.2	5.1
			Rahuri	26.6	85	3.9	27.0	4.9
			Bhawanipatna	26.7	83	4.9	25.8	5.7
			Talod	27.2	83	5.1	27.7	5.0
			Akola	26.0	82	4.4	26.8	4.9
			Nanded	22.3	78	3.3	24.4	5.5
			Surat	26.7	85	4.9	28.4	5.4
			Mean	**26.0**	**83**	**4.4**	**26.6**	**5.2**
12	GBHV 287	542	Khandwa	26.2	81	5.0	27.2	5.3
			Rahuri	26.9	84	5.0	30.3	5.1
			Bhawanipatna	28.0	85	5.5	28.3	5.9
			Talod	27.3	84	5.4	28.9	5.2
			Akola	25.3	82	5.0	26.6	4.9
			Nanded	24.0	81	4.5	25.6	5.4
			Surat	28.1	85	5.7	30.0	5.7
			Mean	**26.6**	**83**	**5.2**	**28.1**	**5.4**
13	CNH 2031 (Anisha)	543	Khandwa	28.0	85	4.9	27.0	5.4
			Rahuri	28.7	85	4.3	32.1	5.3
			Bhawanipatna	28.8	83	5.0	28.0	5.8
			Talod	28.1	87	5.6	28.6	5.8
			Akola	27.0	85	5.4	28.5	5.3
			Nanded	25.4	80	3.4	23.7	5.7
			Surat	28.9	86	5.6	28.7	5.7
			Mean	**27.8**	**84**	**4.9**	**28.1**	**5.6**
14	NH 739	544	Khandwa	27.0	83	4.7	27.7	5.2
			Rahuri	26.9	83	4.4	30.5	5.0
			Bhawanipatna	26.2	83	5.3	27.1	5.7

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
			Talod	27.1	84	5.2	28.7	4.8
			Akola	25.0	83	4.9	27.4	4.9
			Nanded	24.3	80	4.2	25.6	5.4
			Surat	27.0	84	5.4	29.4	5.5
			Mean	**26.2**	**83**	**4.9**	**28.1**	**5.2**
15	CNH 1169	545	Khandwa	28.6	83	4.9	31.2	5.5
			Rahuri	30.9	86	4.2	35.2	5.4
			Bhawanipatna	30.6	86	4.4	30.9	5.9
			Talod	30.7	86	5.2	32.8	4.9
			Akola	28.7	86	4.8	32.0	5.3
			Nanded	27.3	81	3.3	27.3	4.9
			Surat	30.3	85	5.5	31.7	5.8
			Mean	**29.6**	**85**	**4.6**	**31.6**	**5.4**
16	TCH 2013	546	Khandwa	27.4	83	4.0	27.6	5.2
			Rahuri	28.7	85	4.0	31.9	5.1
			Bhawanipatna	28.6	85	4.9	28.5	5.8
			Talod	27.3	86	4.9	28.8	5.2
			Akola	27.8	83	4.2	28.2	5.1
			Nanded	25.4	80	3.2	26.8	5.4
			Surat	27.2	84	5.0	28.2	5.4
			Mean	**27.5**	**84**	**4.3**	**28.6**	**5.3**
17	TCH 2003	547	Khandwa	28.7	82	3.1	26.1	5.1
			Rahuri	33.7	85	3.0	32.5	5.3
			Bhawanipatna	30.4	83	3.4	28.3	5.7
			Talod	31.2	86	3.4	29.2	5.2
			Akola	29.6	84	3.2	29.3	5.1
			Nanded	27.2	82	2.8	26.2	5.4
			Surat	30.5	84	3.6	29.3	5.4
			Mean	**30.2**	**84**	**3.2**	**28.7**	**5.3**
18	RHC-1438	548	Khandwa	26.0	82	3.9	28.1	5.0
			Rahuri	27.4	85	3.1	31.3	5.1
			Bhawanipatna	26.9	85	4.2	28.2	5.7
			Talod	28.0	86	4.6	30.5	5.1
			Akola	28.9	85	4.3	31.7	5.3
			Nanded	22.5	79	3.3	24.5	5.2
			Surat	27.8	84	4.3	29.9	5.5
			Mean	**26.8**	**84**	**4.0**	**29.2**	**5.3**
19	KGH-2512	549	Khandwa	28.0	83	3.9	28.3	5.2
			Rahuri	28.8	88	3.8	30.1	5.2

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
			Bhawanipatna	30.3	81	2.9	27.4	5.6
			Talod	31.8	88	4.4	32.1	5.2
			Akola	29.2	86	4.2	30.3	5.2
			Nanded	26.9	81	2.9	26.7	5.4
			Surat	29.7	85	4.6	29.6	5.6
			Mean	**29.2**	**84**	**3.8**	**29.2**	**5.3**
20	GSHV 279	550	Khandwa	26.3	82	5.0	27.1	5.2
			Rahuri	27.2	86	4.1	30.1	5.1
			Bhawanipatna	27.8	83	4.6	27.3	5.7
			Talod	27.5	86	5.2	29.2	5.4
			Akola	27.1	83	4.8	28.2	5.2
			Nanded	23.5	80	4.2	25.0	5.7
			Surat	28.0	84	5.0	28.6	5.6
			Mean	**26.8**	**83**	**4.7**	**27.9**	**5.4**
21	BS 79-25	551	Khandwa	27.6	84	3.7	28.3	5.3
			Rahuri	28.8	86	4.1	29.8	5.1
			Bhawanipatna	28.2	84	4.7	28.1	5.8
			Talod	29.0	85	4.3	30.5	5.2
			Akola	26.0	84	4.6	28.1	5.0
			Nanded	24.9	80	3.1	24.4	5.0
			Surat	28.5	84	5.1	29.8	5.6
			Mean	**27.6**	**84**	**4.2**	**28.4**	**5.3**
22	Suraksha (CC)	552	Khandwa	29.3	83	3.7	30.6	5.4
			Rahuri	31.0	86	3.0	32.1	5.3
			Bhawanipatna	29.9	84	4.4	30.4	5.9
			Talod	30.5	87	4.6	32.9	4.7
			Akola	28.1	84	3.9	31.3	5.2
			Nanded	25.6	80	3.6	27.7	5.4
			Surat	30.5	84	4.4	30.7	5.7
			Mean	**29.3**	**84**	**3.9**	**30.8**	**5.4**
23	CNH 1168	553	Khandwa	29.0	84	4.5	29.9	5.4
			Rahuri	29.9	87	4.0	33.6	5.4
			Bhawanipatna	30.0	84	4.9	31.2	5.9
			Talod	30.8	86	4.7	32.6	4.9
			Akola	29.5	84	4.9	31.6	5.3
			Nanded	26.6	80	3.3	28.8	5.2
			Surat	30.2	84	5.0	31.4	5.8
			Mean	**29.4**	**84**	**4.5**	**31.3**	**5.4**

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str (g/tex)	E%
24	GTHV 201/24	554	Khandwa	24.2	83	4.7	25.7	5.1
			Rahuri	25.1	84	4.1	28.4	5.0
			Bhawanipatna	24.1	83	4.9	25.4	5.7
			Talod	25.1	83	5.4	26.5	5.9
			Akola	25.4	85	5.2	26.1	5.1
			Nanded	21.5	77	4.2	21.4	7.1
			Surat	24.5	84	5.7	25.9	5.3
			Mean	**24.3**	**83**	**4.9**	**25.6**	**5.6**
25	AKH-2004	555	Khandwa	26.8	82	4.5	25.9	5.1
			Rahuri	29.2	87	4.5	28.8	5.1
			Bhawanipatna	28.7	83	4.8	27.7	5.7
			Talod	28.3	85	4.8	29.6	5.1
			Akola	26.8	83	4.6	26.8	5.0
			Nanded	25.2	78	3.8	24.4	5.3
			Surat	27.8	85	5.2	27.6	5.4
			Mean	**27.5**	**83**	**4.6**	**27.3**	**5.2**
26	AKH-2106	556	Khandwa	26.0	82	5.2	26.2	5.2
			Rahuri	26.7	85	4.5	28.1	5.0
			Bhawanipatna	26.1	83	4.9	25.8	5.6
			Talod	27.1	85	5.0	28.7	5.2
			Akola	27.0	81	4.4	28.4	5.0
			Nanded	24.3	79	4.0	24.9	5.4
			Surat	26.4	85	5.1	27.8	5.4
			Mean	**26.2**	**83**	**4.7**	**27.1**	**5.3**
27	RS 3064	557	Khandwa	25.4	83	4.0	26.8	5.1
			Rahuri	26.0	82	3.8	27.8	5.0
			Bhawanipatna	25.3	84	4.1	26.5	5.6
			Talod	27.1	87	4.9	28.9	5.3
			Akola	25.5	85	4.6	27.6	5.0
			Nanded	23.2	79	3.3	25.1	5.8
			Surat	26.5	86	4.9	28.0	5.4
			Mean	**25.6**	**84**	**4.2**	**27.2**	**5.3**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	CSH NB 102	531	26.9	84	3.9	27.8	5.4
2	BS 45-25	532	25.4	83	4.3	27.2	5.4
3	ZC [Phule Yamuna (CZ) / Suraj (SZ)]	533	25.6	84	4.1	27.7	5.4
4	Local Check	534	26.1	82	4.5	27.5	5.1
5	SAM 5	535	27.9	84	4.0	29.8	5.3
6	RHC-1419	536	26.5	84	4.5	28.2	5.3
7	NH 786	537	26.5	83	4.5	28.4	5.2
8	SIMA 5-50	538	27.8	84	4.2	29.0	5.2
9	PCV 11	539	26.4	82	5.2	27.7	5.1
10	RHC-1902	540	26.5	83	4.7	27.8	5.3
11	RS 3063	541	26.0	83	4.4	26.6	5.2
12	GBHV 287	542	26.6	83	5.2	28.1	5.4
13	CNH 2031 (Anisha)	543	27.8	84	4.9	28.1	5.6
14	NH 739	544	26.2	83	4.9	28.1	5.2
15	CNH 1169	545	29.6	85	4.6	31.6	5.4
16	TCH 2013	546	27.5	84	4.3	28.6	5.3
17	TCH 2003	547	30.2	84	3.2	28.7	5.3
18	RHC-1438	548	26.8	84	4.0	29.2	5.3
19	KGH-2512	549	29.2	84	3.8	29.2	5.3
20	GSHV 279	550	26.8	83	4.7	27.9	5.4
21	BS 79-25	551	27.6	84	4.2	28.4	5.3
22	Suraksha (CC)	552	29.3	84	3.9	30.8	5.4
23	CNH 1168	553	29.4	84	4.5	31.3	5.4
24	GTHV 201/24	554	24.3	83	4.9	25.6	5.6
25	AKH-2004	555	27.5	83	4.6	27.3	5.2
26	AKH-2106	556	26.2	83	4.7	27.1	5.3
27	RS 3064	557	25.6	84	4.2	27.2	5.3

(2) Br. 22b - IET of *G. arbroreum*

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	AKA-2006	561	Khandwa	24.5	81	4.5	28.4	4.8
			Amreli	25.2	81	6.5	28.8	5.0
			Bharuch	25.4	83	5.8	27.7	4.9
			Akola [R]	25.9	84	5.8	29.1	5.3
			Jalgaon	26.2	83	6.2	28.9	5.1
			Nagpur	26.4	81	5.4	28.5	5.3
			Parbhani	24.7	81	5.9	24.4	6.0
			Mean	**25.5**	**82**	**5.7**	**28.0**	**5.2**
2	**LC**	**562**	Khandwa	*	*	*	*	*
			Amreli	24.0	83	6.2	27.9	4.9
			Bharuch	25.8	83	5.1	29.6	5.0
			Akola [R]	25.0	82	6.0	27.0	5.1
			Jalgaon	25.1	81	6.2	28.2	5.0
			Nagpur	26.1	82	5.1	28.6	5.3
			Parbhani	28.1	81	5.9	25.9	5.6
			Mean	**25.7**	**82**	**5.7**	**27.8**	**5.1**
3	AKA-2102	563	Khandwa	24.7	81	4.9	26.8	4.8
			Amreli	23.9	82	6.4	27.4	4.8
			Bharuch	23.2	83	6.3	25.9	4.8
			Akola [R]	24.5	83	6.2	27.8	5.1
			Jalgaon	24.7	81	6.2	27.2	5.0
			Nagpur	26.3	82	5.7	28.6	5.8
			Parbhani	25.2	83	6.7	24.0	5.8
			Mean	**24.6**	**82**	**6.1**	**26.8**	**5.1**
4	CNA 1088	564	Khandwa	26.7	80	4.5	30.5	5.0
			Amreli	25.2	85	6.0	28.9	5.0
			Bharuch	26.6	84	5.3	30.4	5.2
			Akola [R]	26.3	83	5.8	28.9	5.3
			Jalgaon	26.6	82	5.9	29.7	5.2
			Nagpur	29.0	82	5.5	30.2	5.6
			Parbhani	26.4	81	5.5	25.4	5.5
			Mean	**26.7**	**83**	**5.5**	**29.1**	**5.3**
5	KGA-2523	565	Khandwa	29.0	81	4.0	30.6	5.1
			Amreli	28.1	84	5.2	29.5	5.1
			Bharuch	29.4	85	4.5	31.0	5.2
			Akola [R]	29.1	83	4.6	30.0	5.4
			Jalgaon	28.5	84	4.8	29.3	5.1
			Nagpur	30.2	82	4.3	28.9	4.4

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Parbhani	29.0	83	4.9	25.9	5.4
			Mean	**29.0**	**83**	**4.6**	**29.3**	**5.1**
6	PA 998	566	Khandwa	26.9	81	4.4	31.4	5.1
			Amreli	28.7	82	5.2	32.0	5.3
			Bharuch	28.9	85	5.5	30.4	5.2
			Akola [R]	27.4	83	5.2	28.6	5.2
			Jalgaon	28.3	84	5.5	30.4	5.2
			Nagpur	30.8	82	4.5	29.6	4.4
			Parbhani	28.3	83	5.7	26.9	5.6
			Mean	**28.5**	**83**	**5.1**	**29.9**	**5.1**
7	JLA 2054	567	Khandwa	24.9	79	5.2	29.8	4.9
			Amreli	22.9	85	5.9	28.5	4.9
			Bharuch	24.6	84	6.2	28.0	5.0
			Akola [R]	25.0	83	6.3	28.8	5.3
			Jalgaon	24.0	82	6.3	27.8	4.9
			Nagpur	25.7	82	5.9	26.5	6.1
			Parbhani	24.2	81	6.6	23.1	5.1
			Mean	**24.5**	**82**	**6.1**	**27.5**	**5.2**
8	MDL 2696	568	Khandwa	24.7	81	5.5	28.3	5.0
			Amreli	24.5	83	6.0	29.0	5.1
			Bharuch	23.7	83	6.5	27.0	5.0
			Akola [R]	24.8	82	6.3	27.1	5.1
			Jalgaon	24.1	83	6.8	28.6	5.1
			Nagpur	25.7	80	5.9	27.2	6.0
			Parbhani	23.1	82	6.6	24.7	5.0
			Mean	**24.4**	**82**	**6.2**	**27.4**	**5.2**
9	NDLA-3184-3	569	Khandwa	26.7	80	4.3	27.8	4.9
			Amreli	24.7	83	5.8	28.0	4.9
			Bharuch	25.7	82	5.4	29.9	5.1
			Akola [R]	25.1	82	6.0	27.4	5.1
			Jalgaon	25.4	82	6.1	29.6	5.1
			Nagpur	27.0	82	5.2	27.5	5.4
			Parbhani	25.5	83	5.9	25.8	5.5
			Mean	**25.7**	**82**	**5.5**	**28.0**	**5.1**
10	GAM 346	570	Khandwa	29.0	82	3.6	33.6	5.2
			Amreli	24.2	81	5.8	26.9	4.8
			Bharuch	23.8	82	6.1	28.1	4.9
			Akola [R]	21.9	79	6.4	24.2	4.9
			Jalgaon	22.7	80	6.7	25.1	4.7
			Nagpur	25.5	79	5.9	24.6	5.5

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Parbhani	23.0	81	6.5	22.5	5.7
			Mean	**24.3**	**81**	**5.9**	**26.4**	**5.1**
11	MDL 2705	571	Khandwa	23.7	81	5.9	28.9	5.0
			Amreli	22.9	82	6.1	27.5	4.9
			Bharuch	22.8	80	5.2	29.8	4.9
			Akola [R]	24.4	80	6.3	27.7	5.2
			Jalgaon	23.7	79	6.7	27.8	5.0
			Nagpur	26.2	82	5.0	27.9	5.6
			Parbhani	24.0	82	6.7	24.8	5.9
			Mean	**24.0**	**81**	**6.0**	**27.8**	**5.2**
12	JLA 1916	572	Khandwa	25.1	81	5.1	27.3	4.9
			Amreli	24.7	82	5.7	28.2	4.9
			Bharuch	22.5	81	5.4	27.6	4.8
			Akola [R]	24.9	82	6.0	27.7	5.1
			Jalgaon	25.6	83	6.0	28.2	5.0
			Nagpur	27.1	82	5.8	26.8	5.5
			Parbhani	25.0	84	5.9	24.0	5.8
			Mean	**25.0**	**82**	**5.7**	**27.1**	**5.1**
13	MDL 2715	573	Khandwa	23.6	79	5.8	26.7	4.8
			Amreli	21.4	82	6.4	25.7	4.8
			Bharuch	23.0	80	6.4	25.4	4.7
			Akola [R]	23.6	81	6.6	26.0	5.0
			Jalgaon	22.6	83	6.7	26.5	4.7
			Nagpur	25.0	82	6.2	24.9	5.4
			Parbhani	21.5	81	5.9	22.4	5.1
			Mean	**23.0**	**81**	**6.3**	**25.4**	**4.9**
14	GAM 343	574	Khandwa	29.0	83	3.6	30.4	5.1
			Amreli	22.5	80	6.2	26.6	4.6
			Bharuch	26.2	82	5.4	28.9	5.0
			Akola [R]	26.5	82	5.6	28.7	5.2
			Jalgaon	26.2	83	5.8	28.8	5.1
			Nagpur	28.0	82	5.5	28.2	5.4
			Parbhani	25.7	83	5.9	23.7	5.3
			Mean	**26.3**	**82**	**5.4**	**27.9**	**5.1**
15	HD 599	575	Khandwa	20.3	75	5.6	17.4	4.9
			Amreli	17.5	78	6.9	16.5	4.9
			Bharuch	20.0	77	6.9	20.5	4.9
			Akola [R]	20.5	75	6.7	21.3	5.1
			Jalgaon	19.6	77	7.0	19.0	4.8
			Nagpur	20.0	75	6.2	23.6	5.9

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Parbhani	17.7	73	7.4	21.7	6.7
			Mean	**19.4**	**76**	**6.7**	**20.0**	**5.3**
16	GBav 220	576	Khandwa	26.4	81	3.6	28.1	4.8
			Amreli	26.2	83	5.3	29.7	5.0
			Bharuch	26.7	82	5.5	29.5	5.1
			Akola [R]	25.7	79	5.9	28.2	5.1
			Jalgaon	26.4	81	6.2	28.7	5.1
			Nagpur	29.5	83	5.0	28.2	5.0
			Parbhani	27.8	82	5.6	23.9	5.6
			Mean	**26.9**	**82**	**5.3**	**28.0**	**5.1**
17	PA 999	577	Khandwa	27.8	82	4.0	32.2	5.1
			Amreli	28.4	81	5.2	31.1	5.2
			Bharuch	27.2	84	5.1	30.6	5.1
			Akola [R]	28.6	83	5.5	30.9	5.4
			Jalgaon	30.6	84	5.2	32.4	5.3
			Nagpur	30.4	84	4.1	30.0	5.5
			Parbhani	28.2	85	5.4	25.5	5.4
			Mean	**28.7**	**83**	**4.9**	**30.4**	**5.3**
18	CNA 1094	578	Khandwa	25.9	82	4.5	31.9	5.1
			Amreli	27.4	84	5.4	31.9	5.3
			Bharuch	26.2	82	5.1	29.7	5.1
			Akola [R]	27.3	84	5.5	30.3	5.4
			Jalgaon	28.5	85	5.8	32.4	5.4
			Nagpur	29.0	85	4.7	29.3	6.0
			Parbhani	26.6	83	5.9	25.6	5.9
			Mean	**27.3**	**84**	**5.3**	**30.1**	**5.4**
19	ZC (CZ: CNA 1032/ SZ: DLSa 17)	579	Khandwa	24.2	82	4.8	28.4	4.9
			Amreli	25.3	83	5.5	32.5	5.2
			Bharuch	24.1	81	5.4	27.0	4.8
			Akola [R]	26.0	84	6.0	29.4	5.3
			Jalgaon	26.7	84	6.0	30.9	5.2
			Nagpur	28.0	82	5.1	29.9	5.9
			Parbhani	26.0	83	6.4	27.4	6.4
			Mean	**25.8**	**83**	**5.6**	**29.4**	**5.4**
20	NDLA-3179-3	580	Khandwa	24.9	80	4.8	27.5	4.9
			Amreli	24.7	82	5.6	28.5	4.9
			Bharuch	24.1	83	5.1	28.1	4.8
			Akola [R]	24.9	83	5.4	30.5	5.1
			Jalgaon	25.9	82	5.9	28.4	5.0

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Nagpur	26.1	82	5.4	29.8	6.0
			Parbhani	24.5	83	5.9	23.8	5.9
			Mean	**25.0**	**82**	**5.4**	**28.1**	**5.2**
21	GBav 231	581	Khandwa	26.8	83	4.0	28.6	4.8
			Amreli	26.5	82	5.2	30.3	5.1
			Bharuch	26.0	81	4.6	28.6	4.9
			Akola [R]	25.3	84	6.1	28.3	5.1
			Jalgaon	26.8	83	5.2	30.7	5.1
			Nagpur	29.8	83	4.7	30.3	6.0
			Parbhani	25.9	84	5.4	24.7	5.4
			Mean	**26.7**	**83**	**5.0**	**28.8**	**5.2**
22	CNA 1099	582	Khandwa	25.1	81	4.2	29.1	4.8
			Amreli	25.2	84	5.4	30.7	5.0
			Bharuch	24.6	82	5.1	28.6	4.9
			Akola [R]	25.1	85	5.6	29.6	5.1
			Jalgaon	26.7	85	5.8	32.0	5.2
			Nagpur	27.8	84	4.3	29.5	5.2
			Parbhani	26.3	85	6.0	27.9	6.0
			Mean	**25.8**	**84**	**5.2**	**29.6**	**5.2**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	AKA-2006	561	25.5	82	5.7	28.0	5.2
2	LC	562	25.7	82	5.7	27.8	5.1
3	AKA-2102	563	24.6	82	6.1	26.8	5.1
4	CNA 1088	564	26.7	83	5.5	29.1	5.3
5	KGA-2523	565	29.0	83	4.6	29.3	5.1
6	PA 998	566	28.5	83	5.1	29.9	5.1
7	JLA 2054	567	24.5	82	6.1	27.5	5.2
8	MDL 2696	568	24.4	82	6.2	27.4	5.2
9	NDLA-3184-3	569	25.7	82	5.5	28.0	5.1
10	GAM 346	570	24.3	81	5.9	26.4	5.1
11	MDL 2705	571	24.0	81	6.0	27.8	5.2
12	JLA 1916	572	25.0	82	5.7	27.1	5.1
13	MDL 2715	573	23.0	81	6.3	25.4	4.9
14	GAM 343	574	26.3	82	5.4	27.9	5.1
15	HD 599	575	19.4	76	6.7	20.0	5.3
16	GBav 220	576	26.9	82	5.3	28.0	5.1

17	PA 999	577	28.7	83	4.9	30.4	5.3
18	CNA 1094	578	27.3	84	5.3	30.1	5.4
19	ZC (CZ: CNA 1032/ SZ: DLSa 17)	579	25.8	83	5.6	29.4	5.4
20	NDLA-3179-3	580	25.0	82	5.4	28.1	5.2
21	GBav 231	581	26.7	83	5.0	28.8	5.2
22	CNA 1099	582	25.8	84	5.2	29.6	5.2

(3) Br 32b - IET of G. herbaceum (Rainfed)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	ZC (GN Cot 25)	591	Surat	24.3	81	2.7	27.7	4.7
			Bharuch	24.6	81	4.7	25.9	*
			Viramgam	23.3	79	2.2	22.9	4.9
			Kukada	24.9	82	3.9	27.0	5.1
			Dhanduka	24.9	80	2.7	26.8	4.7
			Mean	**24.4**	**81**	**3.3**	**26.1**	**4.8**
2	LC	592	Surat	26.7	80	3.7	30.7	4.9
			Bharuch	28.8	80	5.1	29.9	*
			Viramgam	21.6	79	4.7	21.3	5.0
			Kukada	28.6	81	4.3	28.7	5.0
			Dhanduka	23.3	80	3.1	24.3	5.0
			Mean	**25.8**	**80**	**4.2**	**27.0**	**5.0**
3	GShv 2/22	593	Surat	26.2	81	3.8	31.5	5.0
			Bharuch	25.8	82	5.0	27.5	*
			Viramgam	24.2	80	3.2	27.0	4.6
			Kukada	24.5	82	3.4	28.8	4.6
			Dhanduka	24.0	81	3.2	26.7	4.7
			Mean	**24.9**	**81**	**3.7**	**28.3**	**4.7**
4	GBhv 404	594	Surat	24.4	81	2.3	26.5	4.8
			Bharuch	22.9	79	5.2	23.9	*
			Viramgam	25.5	80	2.9	25.4	4.8
			Kukada	24.2	82	4.5	26.3	4.7
			Dhanduka	26.4	82	2.3	27.4	4.7
			Mean	**24.7**	**81**	**3.4**	**25.9**	**4.7**
5	GBhv 403	595	Surat	22.5	79	2.3	21.8	4.8
			Bharuch	23.2	78	5.2	24.4	*
			Viramgam	22.9	79	2.6	21.0	4.8

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Kukada	25.3	83	3.9	29.2	4.7
			Dhanduka	22.5	80	2.7	20.9	4.7
			Mean	**23.3**	**80**	**3.3**	**23.4**	**4.7**
6	GBhv 406	596	Surat	24.3	80	2.3	29.0	4.7
			Bharuch	25.1	82	4.9	26.6	*
			Viramgam	23.0	80	2.9	22.3	4.8
			Kukada	24.7	81	4.7	27.0	4.8
			Dhanduka	24.5	82	3.3	26.2	4.7
			Mean	**24.3**	**81**	**3.6**	**26.2**	**4.8**
7	GShv 8/22	597	Surat	24.8	82	3.3	30.1	4.9
			Bharuch	24.8	81	5.7	26.3	*
			Viramgam	26.1	81	2.4	32.5	5.0
			Kukada	25.0	81	4.3	29.3	4.9
			Dhanduka	27.5	80	2.8	29.2	4.9
			Mean	**25.6**	**81**	**3.7**	**29.5**	**4.9**

- *Entry code issue & not included for calculating mean value

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	ZC (GN Cot 25)	591	24.4	81	3.3	26.1	4.8
2	LC	592	25.8	80	4.2	27.0	5.0
3	GShv 2/22	593	24.9	81	3.7	28.3	4.7
4	GBhv 404	594	24.7	81	3.4	25.9	4.7
5	GBhv 403	595	23.3	80	3.3	23.4	4.7
6	GBhv 406	596	24.3	81	3.6	26.2	4.8
7	GShv 8/22	597	25.6	81	3.7	29.5	4.9

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II. South Zone

(1). Br. 02 c - IET of G. hirsutum under organic condition

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g /tex)	E%
1	CSH NB 102	531	Coimbatore	28.3	85	4.0	29.5	*
			Lam	26.4	84	4.5	28.1	5.1
			Dharwad	28.2	83	4.0	26.9	5.5
			Perambalur	28.5	87	4.6	29.9	6.1
			Nandyal	*	*	*	*	*
			Adilabad	26.4	85	4.0	27.0	5.5
			Mean	**27.6**	**85**	**4.2**	**28.3**	**5.6**
2	BS 45-25	532	Coimbatore	26.6	85	4.8	29.5	*
			Lam	30.8	80	4.8	30.5	5.1
			Dharwad	26.4	83	4.5	25.8	5.4
			Perambalur	29.0	86	4.1	32.7	6.9
			Nandyal	*	*	*	*	*
			Adilabad	25.0	83	5.1	25.6	5.3
			Mean	**27.6**	**83**	**4.7**	**28.8**	**5.7**
3	ZC [Phule Yamuna (CZ) / Suraj (SZ)]	533	Coimbatore	32.5	87	4.7	33.6	*
			Lam	27.6	82	5.3	28.7	5.0
			Dharwad	30.5	86	4.8	29.4	5.8
			Perambalur	32.6	86	5.0	33.7	5.7
			Nandyal	*	*	*	*	*
			Adilabad	30.3	87	4.8	30.9	5.8
			Mean	**30.7**	**86**	**4.9**	**31.3**	**5.6**
4	Local Check	534	Coimbatore	34.0	87	4.7	32.9	*
			Lam	29.7	84	4.3	31.1	5.5
			Dharwad	27.3	83	4.3	27.7	5.5
			Perambalur	30.3	87	4.0	33.1	5.9
			Nandyal	*	*	*	*	*
			Adilabad	25.8	84	4.3	25.6	5.2
			Mean	**29.4**	**85**	**4.3**	**30.1**	**5.5**
5	SAM 5	535	Coimbatore	29.7	85	4.6	33.2	*
			Lam	26.8	83	5.4	29.2	5.6
			Dharwad	28.7	85	4.5	27.7	5.6
			Perambalur	29.7	83	4.9	30.8	5.7
			Nandyal	*	*	*	*	*
			Adilabad	26.5	84	4.0	28.0	5.3

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g /tex)	E%
			Mean	**28.3**	**84**	**4.7**	**29.8**	**5.6**
6	RHC-1419	536	Coimbatore	26.6	85	4.5	30.0	*
			Lam	25.0	81	4.3	28.4	9.9
			Dharwad	26.5	82	4.4	25.5	5.4
			Perambalur	27.7	85	4.8	29.9	5.5
			Nandyal	*	*	*	*	*
			Adilabad	27.0	85	4.6	27.2	5.4
			Mean	**26.6**	**84**	**4.5**	**28.2**	**6.6**
7	NH 786	537	Coimbatore	27.0	85	5.9	30.8	*
			Lam	29.3	85	4.1	31.1	5.3
			Dharwad	25.9	85	4.6	25.7	5.4
			Perambalur	28.3	84	5.4	30.4	5.3
			Nandyal	*	*	*	*	*
			Adilabad	25.7	83	5.0	26.3	5.3
			Mean	**27.2**	**84**	**5.0**	**28.9**	**5.3**
8	SIMA 5-50	538	Coimbatore	30.7	85	4.3	32.7	*
			Lam	28.6	83	4.4	30.3	5.1
			Dharwad	29.6	86	4.1	28.8	5.6
			Perambalur	31.9	84	4.6	33.6	5.6
			Nandyal	*	*	*	*	*
			Adilabad	28.7	84	4.3	29.4	5.6
			Mean	**29.9**	**84**	**4.3**	**31.0**	**5.5**
9	PCV 11	539	Coimbatore	27.9	85	5.4	27.3	*
			Lam	30.6	86	4.5	32.7	4.7
			Dharwad	27.1	83	5.1	27.4	5.4
			Perambalur	30.1	85	5.6	31.1	5.2
			Nandyal	*	*	*	*	*
			Adilabad	25.1	82	5.4	26.5	5.2
			Mean	**28.2**	**84**	**5.2**	**29.0**	**5.1**
10	RHC-1902	540	Coimbatore	26.4	85	4.8	31.6	*
			Lam	29.5	85	4.4	31.3	5.6
			Dharwad	28.2	86	4.2	28.9	5.6
			Perambalur	29.3	86	5.5	31.3	6.4
			Nandyal	*	*	*	*	*
			Adilabad	24.9	83	5.1	25.7	5.3
			Mean	**27.7**	**85**	**4.8**	**29.8**	**5.7**
11	RS 3063	541	Coimbatore	28.3	86	4.8	30.4	*
			Lam	27.4	85	4.4	29.5	6.8
			Dharwad	27.8	85	4.5	26.4	5.4

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g /tex)	E%
			Perambalur	29.6	86	4.3	30.3	6.1
			Nandyal	*	*	*	*	*
			Adilabad	25.2	84	4.2	25.7	5.2
			Mean	**27.7**	**85**	**4.4**	**28.5**	**5.9**
12	GBHV 287	542	Coimbatore	27.6	84	5.2	29.3	*
			Lam	26.9	83	5.2	28.0	6.0
			Dharwad	26.8	83	5.0	26.4	5.5
			Perambalur	26.8	83	5.2	28.6	5.8
			Nandyal	*	*	*	*	*
			Adilabad	24.5	83	5.2	25.8	5.4
			Mean	**26.5**	**83**	**5.2**	**27.6**	**5.7**
13	CNH 2031 (Anisha)	543	Coimbatore	28.2	87	5.0	29.8	*
			Lam	28.4	86	5.1	30.0	5.5
			Dharwad	28.0	86	4.8	27.6	5.6
			Perambalur	29.8	86	4.6	30.9	5.0
			Nandyal	*	*	*	*	*
			Adilabad	26.1	83	4.9	27.6	5.6
			Mean	**28.1**	**86**	**4.9**	**29.2**	**5.4**
14	NH 739	544	Coimbatore	27.6	84	4.8	29.4	*
			Lam	28.5	87	5.3	29.6	5.5
			Dharwad	26.9	83	4.6	27.6	5.4
			Perambalur	28.1	84	5.2	29.7	5.6
			Nandyal	*	*	*	*	*
			Adilabad	26.6	82	5.0	27.0	5.5
			Mean	**27.5**	**84**	**5.0**	**28.7**	**5.5**
15	CNH 1169	545	Coimbatore	32.5	87	4.6	36.4	*
			Lam	30.5	85	4.6	33.5	5.0
			Dharwad	31.1	86	4.8	30.6	5.9
			Perambalur	33.6	87	5.1	32.6	5.5
			Nandyal	*	*	*	*	*
			Adilabad	29.1	86	4.8	32.2	5.1
			Mean	**31.4**	**86**	**4.8**	**33.1**	**5.4**
16	TCH 2013	546	Coimbatore	30.3	87	4.3	34.3	*
			Lam	28.6	85	4.2	30.2	6.0
			Dharwad	28.0	85	4.3	27.6	5.5
			Perambalur	29.1	85	4.5	32.4	6.3
			Nandyal	*	*	*	*	*
			Adilabad	26.5	83	4.4	28.4	5.5
			Mean	**28.5**	**85**	**4.3**	**30.6**	**5.8**
17	TCH 2003	547	Coimbatore	32.7	87	3.6	32.7	*

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g /tex)	E%
			Lam	31.4	86	3.1	30.1	6.0
			Dharwad	29.9	84	3.8	27.0	5.5
			Perambalur	32.6	86	3.8	32.1	6.0
			Nandyal	*	*	*	*	*
			Adilabad	28.8	83	3.2	25.6	5.1
			Mean	**31.1**	**85**	**3.5**	**29.5**	**5.7**
18	RHC-1438	548	Coimbatore	28.4	86	4.2	31.9	*
			Lam	29.3	85	3.3	31.5	5.9
			Dharwad	26.4	84	4.5	26.5	5.6
			Perambalur	29.3	87	4.7	32.8	5.9
			Nandyal	*	*	*	*	*
			Adilabad	27.3	84	4.1	28.5	5.5
			Mean	**28.1**	**85**	**4.2**	**30.2**	**5.7**
19	KGH-2512	549	Coimbatore	28.7	86	3.8	31.6	*
			Lam	30.9	87	4.5	31.3	6.0
			Dharwad	30.8	84	4.0	27.8	5.6
			Perambalur	33.6	89	4.5	34.1	6.0
			Nandyal	*	*	*	*	*
			Adilabad	28.3	86	3.8	29.3	5.5
			Mean	**30.5**	**86**	**4.1**	**30.8**	**5.8**
20	GSHV 279	550	Coimbatore	27.8	86	3.7	30.7	*
			Lam	28.0	85	4.8	29.6	6.0
			Dharwad	28.4	85	4.6	28.4	5.7
			Perambalur	28.9	85	4.8	30.5	6.5
			Nandyal	*	*	*	*	*
			Adilabad	26.1	82	4.9	27.4	5.5
			Mean	**27.8**	**85**	**4.6**	**29.3**	**5.9**
21	BS 79-25	551	Coimbatore	29.3	86	4.8	33.5	*
			Lam	29.3	84	3.8	30.5	6.0
			Dharwad	29.1	86	4.5	27.3	5.6
			Perambalur	30.1	86	5.3	33.2	6.4
			Nandyal	*	*	*	*	*
			Adilabad	25.9	85	4.3	27.4	5.5
			Mean	**28.7**	**85**	**4.5**	**30.4**	**5.9**
22	Suraksha (CC)	552	Coimbatore	33.0	87	3.9	33.8	*
			Lam	30.6	86	3.9	31.5	6.0
			Dharwad	30.4	84	3.7	28.0	5.6
			Perambalur	32.6	86	4.3	28.9	5.9
			Nandyal	*	*	*	*	*
			Adilabad	28.2	83	4.0	27.8	5.4

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Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g /tex)	E%
			Mean	**31.0**	**85**	**4.0**	**30.0**	**5.7**
23	CNH 1168	553	Coimbatore	31.2	87	4.8	35.2	*
			Lam	30.4	84	4.5	31.8	6.0
			Dharwad	31.0	86	4.3	30.2	5.7
			Perambalur	31.1	85	4.9	33.1	4.7
			Nandyal	*	*	*	*	*
			Adilabad	29.6	86	4.9	30.4	5.7
			Mean	**30.7**	**86**	**4.7**	**32.1**	**5.5**
24	GTHV 201/24	554	Coimbatore	26.5	84	5.3	28.8	*
			Lam	25.8	84	4.9	28.6	5.9
			Dharwad	27.8	84	4.0	27.4	5.5
			Perambalur	27.2	84	5.9	28.9	6.4
			Nandyal	*	*	*	*	*
			Adilabad	24.0	81	5.4	24.9	5.4
			Mean	**26.3**	**83**	**5.1**	**27.7**	**5.8**
25	AKH-2004	555	Coimbatore	29.3	87	4.6	29.6	*
			Lam	28.4	85	4.9	29.7	6.0
			Dharwad	27.9	83	4.4	27.8	5.6
			Perambalur	30.6	88	4.6	32.6	5.3
			Nandyal	*	*	*	*	*
			Adilabad	27.9	84	4.7	26.7	5.4
			Mean	**28.8**	**85**	**4.6**	**29.3**	**5.6**
26	AKH-2106	556	Coimbatore	27.4	84	4.9	27.5	*
			Lam	27.7	83	4.5	29.7	6.0
			Dharwad	27.0	83	4.5	27.5	5.4
			Perambalur	28.1	83	5.4	27.7	6.1
			Nandyal	*	*	*	*	*
			Adilabad	26.1	81	4.7	25.7	5.3
			Mean	**27.3**	**83**	**4.8**	**27.6**	**5.7**
27	RS 3064	557	Coimbatore	26.1	86	4.2	27.1	*
			Lam	26.3	85	4.7	28.9	6.0
			Dharwad	26.9	84	4.0	27.2	5.6
			Perambalur	27.1	86	4.5	29.6	6.7
			Nandyal	*	*	*	*	*
			Adilabad	26.0	83	4.4	27.5	5.6
			Mean	**26.5**	**85**	**4.4**	**28.1**	**6.0**
28	CO-14		Coimbatore	30.9	87	4.6	31.5	*

***Sample not germinated**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	CSH NB 102	531	27.6	85	4.2	28.3	5.6
2	BS 45-25	532	27.6	83	4.7	28.8	5.7
3	ZC [Phule Yamuna (CZ) / Suraj (SZ)]	533	30.7	86	4.9	31.3	5.6
4	Local Check	534	29.4	85	4.3	30.1	5.5
5	SAM 5	535	28.3	84	4.7	29.8	5.6
6	RHC-1419	536	26.6	84	4.5	28.2	6.6
7	NH 786	537	27.2	84	5.0	28.9	5.3
8	SIMA 5-50	538	29.9	84	4.3	31.0	5.5
9	PCV 11	539	28.2	84	5.2	29.0	5.1
10	RHC-1902	540	27.7	85	4.8	29.8	5.7
11	RS 3063	541	27.7	85	4.4	28.5	5.9
12	GBHV 287	542	26.5	83	5.2	27.6	5.7
13	CNH 2031 (Anisha)	543	28.1	86	4.9	29.2	5.4
14	NH 739	544	27.5	84	5.0	28.7	5.5
15	CNH 1169	545	31.4	86	4.8	33.1	5.4
16	TCH 2013	546	28.5	85	4.3	30.6	5.8
17	TCH 2003	547	31.1	85	3.5	29.5	5.7
18	RHC-1438	548	28.1	85	4.2	30.2	5.7
19	KGH-2512	549	30.5	86	4.1	30.8	5.8
20	GSHV 279	550	27.8	85	4.6	29.3	5.9
21	BS 79-25	551	28.7	85	4.5	30.4	5.9
22	Suraksha (CC)	552	31.0	85	4.0	30.0	5.7
23	CNH 1168	553	30.7	86	4.7	32.1	5.5
24	GTHV 201/24	554	26.3	83	5.1	27.7	5.8
25	AKH-2004	555	28.8	85	4.6	29.3	5.6
26	AKH-2106	556	27.3	83	4.8	27.6	5.7
27	RS 3064	557	26.5	85	4.4	28.1	6.0

(2). Br. 22b - IET of *G. arbroreum*

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	AKA-2006	561	Dharwad	24.7	81	6.0	25.7	5.5
			Nandyal	25.7	82	5.3	27.0	5.7
			Mean	**25.2**	**81**	**5.7**	**26.4**	**5.6**
2	**LC**	**562**	Dharwad	24.7	84	6.0	26.0	5.4
			Nandyal	23.5	81	5.0	25.1	5.5
			Mean	**24.1**	**82**	**5.5**	**25.5**	**5.4**
3	AKA-2102	563	Dharwad	24.1	82	6.1	24.8	5.6
			Nandyal	24.4	82	5.7	25.0	5.5
			Mean	**24.3**	**82**	**5.9**	**24.9**	**5.6**
4	CNA 1088	564	Dharwad	24.1	82	6.0	24.3	5.5
			Nandyal	25.5	81	5.1	27.4	5.6
			Mean	**24.8**	**81**	**5.6**	**25.8**	**5.6**
5	KGA-2523	565	Dharwad	28.5	86	4.9	29.6	5.7
			Nandyal	28.1	82	4.6	26.6	5.6
			Mean	**28.3**	**84**	**4.7**	**28.1**	**5.7**
6	PA 998	566	Dharwad	27.4	82	5.4	29.3	5.7
			Nandyal	27.2	82	4.9	26.5	5.6
			Mean	**27.3**	**82**	**5.1**	**27.9**	**5.6**
7	JLA 2054	567	Dharwad	24.0	82	6.5	25.2	5.6
			Nandyal	23.7	82	5.4	25.0	5.5
			Mean	**23.8**	**82**	**6.0**	**25.1**	**5.6**
8	MDL 2696	568	Dharwad	24.3	83	6.8	25.5	5.6
			Nandyal	24.3	81	6.2	24.7	5.6
			Mean	**24.3**	**82**	**6.5**	**25.1**	**5.6**
9	NDLA-3184-3	569	Dharwad	25.1	82	5.8	26.6	5.6
			Nandyal	23.1	81	5.4	23.7	5.5
			Mean	**24.1**	**82**	**5.6**	**25.1**	**5.5**
10	GAM 346	570	Dharwad	22.9	78	6.0	23.9	5.4
			Nandyal	21.7	80	5.6	23.0	5.5
			Mean	**22.3**	**79**	**5.8**	**23.5**	**5.4**
11	MDL 2705	571	Dharwad	24.0	81	6.8	24.9	6.8
			Nandyal	23.7	82	6.4	25.3	5.6
			Mean	**23.9**	**82**	**6.6**	**25.1**	**6.2**
12	JLA 1916	572	Dharwad	24.0	82	6.3	25.7	5.5
			Nandyal	24.9	83	5.0	26.5	5.6
			Mean	**24.5**	**82**	**5.6**	**26.1**	**5.6**

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
13	MDL 2715	573	Dharwad	21.9	80	6.9	22.7	5.4
			Nandyal	22.4	80	6.6	23.5	5.5
			Mean	**22.2**	**80**	**6.7**	**23.1**	**5.5**
14	GAM 343	574	Dharwad	25.4	81	5.9	27.1	5.6
			Nandyal	25.1	80	5.4	24.7	5.6
			Mean	**25.2**	**81**	**5.6**	**25.9**	**5.6**
15	HD 599	575	Dharwad	18.6	78	6.7	21.6	5.3
			Nandyal	18.8	79	6.4	18.2	5.5
			Mean	**18.7**	**79**	**6.5**	**19.9**	**5.4**
16	GBav 220	576	Dharwad	27.1	83	5.5	27.0	5.6
			Nandyal	26.3	81	5.0	26.7	5.6
			Mean	**26.7**	**82**	**5.2**	**26.9**	**5.6**
17	PA 999	577	Dharwad	26.3	86	5.3	28.0	5.6
			Nandyal	25.9	81	5.4	26.1	5.6
			Mean	**26.1**	**84**	**5.4**	**27.0**	**5.6**
18	CNA 1094	578	Dharwad	25.0	86	5.9	26.4	5.6
			Nandyal	26.6	81	4.5	27.5	5.6
			Mean	**25.8**	**84**	**5.2**	**27.0**	**5.6**
19	**ZC (CZ: CNA 1032/ SZ: DLSa 17)**	**579**	Dharwad	25.2	82	5.8	26.5	5.5
			Nandyal	24.7	78	5.4	23.7	5.5
			Mean	**25.0**	**80**	**5.6**	**25.1**	**5.5**
20	NDLA-3179-3	580	Dharwad	25.3	82	5.8	26.8	5.7
			Nandyal	24.2	83	4.9	25.4	5.6
			Mean	**24.7**	**82**	**5.3**	**26.1**	**5.7**
21	GBav 231	581	Dharwad	26.4	82	5.6	28.2	5.9
			Nandyal	26.0	83	5.0	26.8	5.6
			Mean	**26.2**	**82**	**5.3**	**27.5**	**5.8**
22	CNA 1099	582	Dharwad	25.3	84	5.5	26.7	5.5
			Nandyal	24.7	82	5.4	26.4	5.6
			Mean	**25.0**	**83**	**5.4**	**26.5**	**5.6**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	AKA-2006	561	25.2	81	5.7	26.4	5.6
2	LC	562	24.1	82	5.5	25.5	5.4
3	AKA-2102	563	24.3	82	5.9	24.9	5.6
4	CNA 1088	564	24.8	81	5.6	25.8	5.6
5	KGA-2523	565	28.3	84	4.7	28.1	5.7
6	PA 998	566	27.3	82	5.1	27.9	5.6
7	JLA 2054	567	23.8	82	6.0	25.1	5.6
8	MDL 2696	568	24.3	82	6.5	25.1	5.6
9	NDLA-3184-3	569	24.1	82	5.6	25.1	5.5
10	GAM 346	570	22.3	79	5.8	23.5	5.4
11	MDL 2705	571	23.9	82	6.6	25.1	6.2
12	JLA 1916	572	24.5	82	5.6	26.1	5.6
13	MDL 2715	573	22.2	80	6.7	23.1	5.5
14	GAM 343	574	25.2	81	5.6	25.9	5.6
15	HD 599	575	18.7	79	6.5	19.9	5.4
16	GBav 220	576	26.7	82	5.2	26.9	5.6
17	PA 999	577	26.1	84	5.4	27.0	5.6
18	CNA 1094	578	25.8	84	5.2	27.0	5.6
19	ZC (CZ: CNA 1032/ SZ: DLSa 17)	579	25.0	80	5.6	25.1	5.5
20	NDLA-3179-3	580	24.7	82	5.3	26.1	5.7
21	GBav 231	581	26.2	82	5.3	27.5	5.8
22	CNA 1099	582	25.0	83	5.4	26.5	5.6

Zonal Trials

I. Central Zone

(1)Br.03c - PVT of G. hirsutum under organic conditions (Irrigated / Rainfed)

Sr. No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	NH761	5101	Khandwa	26.2	81	3.9	26.3	5.0
			Rahuri	25.4	83	4.2	27.6	4.8
			Bhawanipatna	25.5	83	4.1	26.0	5.6
			Talod	25.9	84	4.8	26.2	5.1
			Akola	26.4	81	4.4	28.0	4.9
			Nanded	23.8	77	4.1	22.7	5.0
			Nagpur	26.8	82	4.3	27.1	5.5
			Surat	26.5	84	5.2	29.2	5.1
			Mean	**25.8**	**82**	**4.4**	**26.6**	**5.1**
2	GSHV 271	5102	Khandwa	24.1	81	4.0	25.3	4.9
			Rahuri	26.8	85	4.3	29.8	5.0
			Bhawanipatna	25.1	84	4.4	26.8	5.6
			Talod	27.1	85	5.2	28.3	5.4
			Akola	26.0	82	4.5	28.3	5.0
			Nanded	23.2	78	3.6	23.5	5.1
			Nagpur	25.6	83	4.4	26.2	5.7
			Surat	26.2	84	4.9	29.9	5.0
			Mean	**25.5**	**83**	**4.4**	**27.2**	**5.2**
3	Zonal Check [Phule Yamuna]	5103	Khandwa	26.0	83	3.9	27.6	5.3
			Rahuri	26.2	85	3.2	29.4	5.0
			Bhawanipatna	25.0	84	4.3	26.9	5.6
			Talod	27.0	85	4.8	29.3	5.5
			Akola	26.0	83	4.1	31.1	5.1
			Nanded	22.9	79	3.9	23.6	5.6
			Nagpur	26.3	84	3.6	30.4	6.1
			Surat	26.3	85	4.3	30.2	5.2
			Mean	**25.7**	**84**	**4.0**	**28.5**	**5.4**

Sr. No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
4	RHC 2018	5104	Khandwa	26.4	84	4.7	28.1	5.4
			Rahuri	26.2	86	3.6	27.7	5.0
			Bhawanipatna	25.1	83	4.1	26.7	5.6
			Talod	26.9	86	5.4	27.5	5.5
			Akola	26.3	85	4.4	29.2	5.2
			Nanded	23.3	80	3.7	26.4	5.4
			Nagpur	26.2	84	4.1	28.3	6.3
			Surat	26.1	85	4.5	30.8	5.2
			Mean	**25.8**	**84**	**4.3**	**28.1**	**5.4**
5	GBHV 227	5105	Khandwa	26.4	83	5.0	27.2	5.3
			Rahuri	28.1	85	4.5	29.6	5.2
			Bhawanipatna	27.4	85	5.0	28.7	5.7
			Talod	28.7	86	5.4	31.7	5.7
			Akola	27.4	83	4.9	29.0	5.1
			Nanded	24.4	79	4.4	26.9	5.4
			Nagpur	28.2	83	3.3	29.7	6.0
			Surat	26.4	85	5.3	29.9	5.1
			Mean	**27.1**	**84**	**4.7**	**29.1**	**5.4**
6	TCH 2001	5106	Khandwa	30.4	81	3.7	28.8	5.3
			Rahuri	31.9	85	3.2	31.0	5.2
			Bhawanipatna	29.5	82	3.1	28.3	5.6
			Talod	31.4	84	3.8	28.8	5.4
			Akola	28.9	81	3.3	27.3	4.9
			Nanded	27.5	79	3.1	24.7	5.1
			Nagpur	30.1	81	3.3	25.9	5.0
			Surat	29.8	83	3.7	31.7	5.1
			Mean	**30.0**	**82**	**3.4**	**28.3**	**5.2**
7	AKH 2002	5107	Khandwa	26.0	82	4.7	26.6	5.1
			Rahuri	26.9	83	4.3	27.6	5.0
			Bhawanipatna	26.6	83	4.2	27.4	5.7
			Talod	28.0	85	5.1	28.3	5.5
			Akola	27.2	79	4.2	29.2	4.9
			Nanded	25.9	79	4.2	26.8	5.4
			Nagpur	28.0	83	4.4	27.1	5.8
			Surat	26.5	82	5.2	29.7	5.2
			Mean	**26.9**	**82**	**4.5**	**27.8**	**5.3**

Sr. No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
8	Suraksha (CC)	5108	Khandwa	28.0	81	4.0	27.4	5.1
			Rahuri	29.3	85	3.5	30.1	5.1
			Bhawanipatna	28.9	86	4.1	30.5	5.8
			Talod	31.9	85	4.8	30.8	5.8
			Akola	29.3	82	3.9	31.9	5.1
			Nanded	26.8	80	3.3	26.1	5.1
			Nagpur	29.8	83	3.5	29.8	5.8
			Surat	28.8	85	4.2	32.3	5.2
			Mean	**29.1**	**83**	**3.9**	**29.9**	**5.4**
9	Local Check	5109	Khandwa	25.4	82	4.8	27.1	5.1
			Rahuri	24.8	86	3.6	27.6	4.8
			Bhawanipatna	27.1	83	4.4	27.1	5.6
			Talod	29.8	85	5.5	29.6	5.7
			Akola	25.9	82	5.0	28.8	4.9
			Nanded	23.9	79	3.4	24.5	5.1
			Nagpur	27.2	81	4.7	27.4	6.0
			Surat	26.6	83	5.0	30.3	5.1
			Mean	**26.3**	**82**	**4.5**	**27.8**	**5.3**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	NH761	5101	25.8	82	4.4	26.6	5.1
2	GSHV 271	5102	25.5	83	4.4	27.2	5.2
3	Zonal Check [Phule Yamuna]	5103	25.7	84	4.0	28.5	5.4
4	RHC 2018	5104	25.8	84	4.3	28.1	5.4
5	GBHV 227	5105	27.1	84	4.7	29.1	5.4
6	TCH 2001	5106	30.0	82	3.4	28.3	5.2
7	AKH 2002	5107	26.9	82	4.5	27.8	5.3
8	Suraksha (CC)	5108	29.1	83	3.9	29.9	5.4
9	Local Check	5109	26.3	82	4.5	27.8	5.3

(2) Br.05c - CHT of H x H hybrids under organic conditions (Irrigated / Rainfed)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	Partech 30 Plus	5111	Khandwa	26.7	82	3.4	27.7	5.1
			Rahuri	28.2	85	3.8	29.9	5.2
			Bhawanipatna	26.8	84	3.6	27.3	5.6
			Talod	28.3	84	4.5	29.6	5.5
			Akola	26.7	85	4.7	29.9	5.1
			Nanded	24.0	81	4.2	24.3	5.4
			Nagpur	28.0	83	3.6	26.2	6.0
			Surat	27.7	85	4.9	30.7	5.3
			Mean	**27.1**	**84**	**4.1**	**28.2**	**5.4**
2	KGHH-bio-2409	5112	Khandwa	26.6	83	3.3	29.0	5.3
			Rahuri	26.5	85	3.9	29.7	5.0
			Bhawanipatna	25.7	82	3.7	26.5	5.6
			Talod	27.3	82	4.7	29.8	5.6
			Akola	26.5	83	4.6	30.2	5.1
			Nanded	23.5	79	4.2	25.7	5.5
			Nagpur	25.6	80	3.3	25.7	5.5
			Surat	26.4	84	4.5	30.8	5.1
			Mean	**26.0**	**82**	**4.0**	**28.4**	**5.3**
3	Partech 30	5113	Khandwa	26.1	82	3.3	27.0	5.1
			Rahuri	28.0	88	4.3	29.5	5.2
			Bhawanipatna	26.2	83	3.8	28.5	5.6
			Talod	28.4	84	4.7	29.6	5.6
			Akola	26.7	83	4.7	29.7	5.1
			Nanded	25.2	81	4.1	27.0	5.4
			Nagpur	27.8	83	3.6	27.8	5.7
			Surat	27.7	83	4.9	30.5	5.2
			Mean	**27.0**	**83**	**4.2**	**28.7**	**5.4**
4	Partech 28	5114	Khandwa	26.6	82	3.4	27.0	5.0
			Rahuri	28.4	86	4.0	30.2	5.2
			Bhawanipatna	25.7	84	4.3	26.5	5.5
			Talod	28.5	85	4.7	30.4	5.7
			Akola	26.8	83	4.6	30.3	5.1
			Nanded	25.9	81	3.6	27.3	5.4
			Nagpur	27.6	84	3.2	27.7	5.6
			Surat	28.4	86	4.6	31.1	5.3
			Mean	**27.2**	**84**	**4.0**	**28.8**	**5.3**
5	KGHH-BIO-2509	5115	Khandwa	26.4	83	3.6	27.8	5.1
			Rahuri	28.2	86	3.6	29.8	5.1

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Bhawanipatna	25.8	83	3.5	26.7	5.5
			Talod	27.7	84	4.5	30.5	5.6
			Akola	26.5	84	4.4	28.0	4.9
			Nanded	25.3	82	3.8	26.2	5.5
			Nagpur	27.1	82	3.1	28.2	5.7
			Surat	27.6	86	4.6	30.1	5.1
			Mean	**26.8**	**84**	**3.9**	**28.4**	**5.3**
6	Partech 29	5116	Khandwa	26.8	83	3.8	27.3	5.1
			Rahuri	29.0	87	4.2	29.2	5.1
			Bhawanipatna	25.7	83	3.5	25.7	5.5
			Talod	27.5	84	4.6	29.7	5.5
			Akola	26.3	84	4.8	28.5	5.0
			Nanded	25.4	81	4.3	27.1	5.1
			Nagpur	27.6	84	3.7	29.8	5.8
			Surat	28.4	85	4.6	31.5	5.3
			Mean	**27.1**	**84**	**4.2**	**28.6**	**5.3**
7	Zonal Check (NHH 44)	5117	Khandwa	28.9	84	3.2	29.8	5.2
			Rahuri	31.5	86	4.2	31.4	5.3
			Bhawanipatna	29.9	83	3.3	30.5	5.7
			Talod	31.4	84	4.3	33.6	5.8
			Akola	29.3	85	4.4	30.0	5.1
			Nanded	27.7	81	4.1	28.7	5.1
			Nagpur	31.0	84	3.7	30.6	6.7
			Surat	29.7	85	4.8	32.3	5.3
			Mean	**29.9**	**84**	**4.0**	**30.9**	**5.5**
8	Bunny (CC)	5118	Khandwa	29.0	83	3.4	27.5	5.1
			Rahuri	31.8	85	3.8	32.8	5.4
			Bhawanipatna	31.1	83	3.6	31.3	5.8
			Talod	30.2	85	4.6	31.6	5.8
			Akola	29.1	84	3.8	30.5	5.0
			Nanded	28.6	80	3.7	30.9	4.8
			Nagpur	30.7	83	3.2	30.4	5.9
			Surat	30.7	85	5.0	31.8	5.3
			Mean	**30.1**	**84**	**3.9**	**30.8**	**5.4**
9	KGHH- bio-2408	5119	Khandwa	27.2	82	3.8	27.2	5.1
			Rahuri	28.9	87	3.8	30.7	5.3
			Bhawanipatna	27.9	84	3.3	29.6	5.7
			Talod	29.6	83	5.0	29.0	5.6
			Akola	27.6	83	4.4	29.2	5.0
			Nanded	24.8	79	3.8	26.2	5.4

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Nagpur	28.0	83	3.0	29.4	6.2
			Surat	27.7	85	4.7	30.3	5.2
			Mean	**27.7**	**83**	**4.0**	**29.0**	**5.4**
10	KGHH-BIO-2507	5120	Khandwa	27.1	83	3.9	28.4	5.1
			Rahuri	30.3	86	3.8	30.0	5.3
			Bhawanipatna	27.3	84	3.6	26.9	5.5
			Talod	29.9	84	4.5	30.8	5.8
			Akola	28.4	84	4.5	28.8	5.1
			Nanded	25.9	81	3.9	27.3	5.4
			Nagpur	29.6	85	3.1	30.5	5.9
			Surat	28.1	86	4.9	30.5	5.2
			Mean	**28.3**	**84**	**4.0**	**29.1**	**5.4**
11	GSHH 22/28	5121	Khandwa	25.2	83	3.7	26.0	5.3
			Rahuri	26.3	86	4.0	30.5	5.2
			Bhawanipatna	26.7	85	4.5	28.1	5.7
			Talod	25.9	82	5.2	27.7	5.5
			Akola	25.7	82	4.4	29.5	5.0
			Nanded	25.0	80	4.1	26.3	5.3
			Nagpur	25.9	85	3.2	29.9	6.4
			Surat	26.8	84	4.8	32.4	5.3
			Mean	**25.9**	**84**	**4.2**	**28.8**	**5.5**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	Partech 30 Plus	5111	27.1	84	4.1	28.2	5.4
2	KGHH-bio-2409	5112	26.0	82	4.0	28.4	5.3
3	Partech 30	5113	27.0	83	4.2	28.7	5.4
4	Partech 28	5114	27.2	84	4.0	28.8	5.3
5	KGHH-BIO-2509	5115	26.8	84	3.9	28.4	5.3
6	Partech 29	5116	27.1	84	4.2	28.6	5.3
7	Zonal Check (NHH 44)	5117	29.9	84	4.0	30.9	5.5
8	Bunny (CC)	5118	30.1	84	3.9	30.8	5.4
9	KGHH- bio- 2408	5119	27.7	83	4.0	29.0	5.4
10	KGHH-BIO-2507	5120	28.3	84	4.0	29.1	5.4
11	GSHH 22/28	5121	25.9	84	4.2	28.8	5.5

(3). Br 24b – Coordinated Variety Trial - *G. arboreum*

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	LC	5141	Amreli	24.6	82	6.1	29.1	5.1
			Khandwa	*	*	*	*	*
			Nagpur	27.0	84	5.5	30.2	5.8
			Akola	24.9	85	6.3	27.0	5.1
			Jalgaon	25.0	85	6.2	28.0	4.9
			Parbhani	27.4	85	5.2	27.4	5.2
			Mean	**25.8**	**84**	**5.9**	**28.3**	**5.2**
2	CNA 1090	5142	Amreli	26.9	82	6.0	29.9	5.3
			Khandwa	25.0	80	4.0	28.6	4.7
			Nagpur	27.1	81	4.8	29.5	5.7
			Akola	25.1	84	5.7	28.6	5.1
			Jalgaon	25.7	84	6.0	29.3	5.1
			Parbhani	25.6	83	5.7	25.1	5.7
			Mean	**25.9**	**82**	**5.4**	**28.5**	**5.3**
3	CNA 1032	5143	Amreli	25.3	83	6.1	30.6	5.2
			Khandwa	24.5	81	4.7	28.5	4.8
			Nagpur	26.3	82	5.0	30.1	5.8
			Akola	24.9	85	6.0	27.7	5.1
			Jalgaon	25.8	84	5.6	30.3	5.1
			Parbhani	24.4	83	6.0	26.4	6.0
			Mean	**25.2**	**83**	**5.6**	**28.9**	**5.3**
4	DAS 2451	5144	Amreli	24.6	82	6.4	28.6	5.1
			Khandwa	23.1	80	4.7	28.2	4.7
			Nagpur	26.3	81	5.3	29.1	4.9
			Akola	23.9	82	6.4	26.3	5.0
			Jalgaon	24.3	83	6.1	28.1	4.9
			Parbhani	23.9	83	6.7	23.7	6.7
			Mean	**24.4**	**82**	**6.0**	**27.3**	**5.2**
5	DAS 2452	5145	Amreli	25.1	83	6.3	29.6	5.3
			Khandwa	25.2	80	4.6	27.6	4.8
			Nagpur	27.8	82	5.2	28.5	5.3
			Akola	25.4	85	6.0	27.5	5.0
			Jalgaon	26.6	83	5.5	29.9	5.1
			Parbhani	25.2	83	5.8	24.3	5.8
			Mean	**25.9**	**83**	**5.6**	**27.9**	**5.2**
6	ZC (AKA 7)	5146	Amreli	24.7	81	6.1	28.6	5.1
			Khandwa	24.4	82	4.9	28.2	4.9
			Nagpur	25.2	82	5.3	25.9	5.5
			Akola	24.0	83	6.1	29.5	5.1

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Jalgaon	24.3	84	5.7	29.0	4.9
			Parbhani	24.8	83	6.1	25.0	6.1
			Mean	**24.6**	**83**	**5.7**	**27.7**	**5.3**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	LC	5141	25.8	84	5.9	28.3	5.2
2	CNA 1090	5142	25.9	82	5.4	28.5	5.3
3	CNA 1032	5143	25.2	83	5.6	28.9	5.3
4	DAS 2451	5144	24.4	82	6.0	27.3	5.2
5	DAS 2452	5145	25.9	83	5.6	27.9	5.2
6	ZC (AKA 7)	5146	24.6	83	5.7	27.7	5.3

II. South Zone

(1)Br.03c - PVT of *G. hirsutum* under organic conditions (Irrigated / Rainfed)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	GBHV 257	5201	Coimbatore	26.5	86	5.0	27.7	5.8
			Lam	32.1	86	4.6	33.3	6.1
			Dharwad	27.7	83	4.7	25.2	5.7
			Perambalur	27.3	83	5.0	29.8	5.6
			Nandyal	*	*	*	*	*
			Mean	**28.4**	**84**	**4.8**	**29.0**	**5.8**
2	Suraksha (CC)	5202	Coimbatore	30.4	83	3.8	29.8	5.7
			Lam	27.4	84	5.5	28.4	6.1
			Dharwad	31.0	84	4.0	30.7	5.9
			Perambalur	30.4	83	4.1	31.9	5.3
			Nandyal	*	*	*	*	*
			Mean	**29.8**	**84**	**4.3**	**30.2**	**5.8**
3	GSHV 271	5203	Coimbatore	27.2	83	5.2	27.0	5.7
			Lam	30.4	86	4.5	31.0	6.1
			Dharwad	26.6	83	4.9	27.2	5.7
			Perambalur	27.3	83	5.3	29.3	6.0
			Nandyal	*	*	*	*	*
			Mean	**27.9**	**84**	**5.0**	**28.6**	**5.9**
4	Zonal Check [Suraj]	5204	Coimbatore	31.6	86	5.0	30.8	6.0

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Lam	27.1	84	4.6	29.6	6.0
			Dharwad	31.1	85	4.6	30.1	5.9
			Perambalur	30.0	85	4.8	32.8	4.2
			Nandyal	*	*	*	*	*
			Mean	**30.0**	**85**	**4.8**	**30.8**	**5.5**
5	Local Check	5205	Coimbatore	34.1	84	4.5	31.4	6.0
			Lam	29.6	83	5.0	31.1	6.1
			Dharwad	27.5	84	4.5	26.7	5.6
			Perambalur	27.1	83	5.2	28.7	5.5
			Nandyal	*	*	*	*	*
			Mean	**29.6**	**83**	**4.8**	**29.5**	**5.8**
6	TCH 2001	5206	Coimbatore	31.9	84	3.7	30.7	5.8
			Lam	30.0	83	3.6	29.1	6.1
			Dharwad	29.9	84	3.5	27.5	5.6
			Perambalur	28.7	83	4.9	29.6	5.5
			Nandyal	*	*	*	*	*
			Mean	**30.1**	**83**	**3.9**	**29.2**	**5.8**
7	AKH 2018-6	5207	Coimbatore	27.7	82	4.9	26.3	5.7
			Lam	26.9	83	5.1	28.2	6.1
			Dharwad	28.0	84	5.1	27.0	5.7
			Perambalur	27.7	83	4.9	29.8	5.6
			Nandyal	*	*	*	*	*
			Mean	**27.6**	**83**	**5.0**	**27.8**	**5.8**
8	AKH 2009	5208	Coimbatore	28.9	83	5.1	27.9	5.8
			Lam	29.4	85	4.7	28.3	6.1
			Dharwad	29.3	84	4.4	26.8	5.7
			Perambalur	31.6	83	4.1	31.3	5.3
			Nandyal	*	*	*	*	*
			Mean	**29.8**	**84**	**4.6**	**28.6**	**5.7**
9	NDLH 2097	5209	Coimbatore	27.1	85	4.6	27.7	5.7
			Lam	26.8	83	4.3	26.0	6.1
			Dharwad	27.7	83	4.8	27.3	5.7
			Perambalur	27.8	80	4.8	29.9	5.9
			Nandyal	*	*	*	*	*
			Mean	**27.4**	**83**	**4.6**	**27.7**	**5.9**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	GBHV 257	5201	28.4	84	4.8	29.0	5.8
2	Suraksha (CC)	5202	29.8	84	4.3	30.2	5.8
3	GSHV 271	5203	27.9	84	5.0	28.6	5.9
4	Zonal Check [Suraj]	5204	30.0	85	4.8	30.8	5.5
5	Local Check	5205	29.6	83	4.8	29.5	5.8
6	TCH 2001	5206	30.1	83	3.9	29.2	5.8
7	AKH 2018-6	5207	27.6	83	5.0	27.8	5.8
8	AKH 2009	5208	29.8	84	4.6	28.6	5.7
9	NDLH 2097	5209	27.4	83	4.6	27.7	5.9

(2). Br.05c - CHT of H x H hybrids under organic conditions (Irrigated / Rainfed)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	KGHH-BIO-2509	5211	Coimbatore	29.2	85	4.3	29.3	5.7
			Lam	30.3	84	4.5	31.5	6.0
			Dharwad	29.2	86	4.1	29.6	5.8
			Perambalur	29.9	85	4.6	31.7	5.7
			Nandyal	*	*	*	*	*
			Mean	**29.7**	**85**	**4.4**	**30.5**	**5.8**
2	Bunny (CC)	5212	Coimbatore	31.3	84	4.9	30.7	5.9
			Lam	31.0	85	4.4	31.8	6.1
			Dharwad	31.4	85	4.3	30.3	5.9
			Perambalur	31.7	84	4.4	31.8	5.1
			Nandyal	*	*	*	*	*
			Mean	**31.4**	**84**	**4.5**	**31.1**	**5.7**
3	KGHH-BIO-2507	5213	Coimbatore	29.4	85	4.5	29.9	5.8
			Lam	30.5	86	4.1	31.6	6.0
			Dharwad	31.6	85	4.4	29.1	5.8
			Perambalur	29.0	83	4.8	31.2	5.3
			Nandyal	*	*	*	*	*
			Mean	**30.1**	**85**	**4.4**	**30.4**	**5.7**
4	Zonal Check (Mallika)	5214	Coimbatore	31.2	85	4.6	30.5	5.9
			Lam	30.4	86	4.7	32.7	6.0
			Dharwad	32.0	85	4.4	30.7	5.9

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Perambalur	32.5	86	4.5	31.2	5.5
			Nandyal	*	*	*	*	*
			Mean	**31.5**	**86**	**4.6**	**31.3**	**5.8**
5	KGHH-VS-2318-1	5215	Coimbatore	30.2	84	4.6	29.8	5.8
			Lam	29.4	84	4.3	31.7	6.0
			Dharwad	31.9	84	4.4	31.4	5.9
			Perambalur	30.3	85	4.6	32.6	5.8
			Nandyal	*	*	*	*	*
			Mean	**30.4**	**84**	**4.5**	**31.4**	**5.9**
6	Partech 28	5216	Coimbatore	32.5	83	4.4	31.4	5.9
			Lam	31.1	84	4.4	32.9	6.1
			Dharwad	29.1	85	4.6	28.9	5.8
			Perambalur	28.2	84	4.2	30.6	5.9
			Nandyal	*	*	*	*	*
			Mean	**30.2**	**84**	**4.4**	**31.0**	**5.9**
7	Partech 29	5217	Coimbatore	28.9	84	4.5	29.1	5.8
			Lam	29.5	87	4.5	30.0	6.0
			Dharwad	29.4	87	4.7	27.5	5.8
			Perambalur	29.3	86	5.7	32.2	6.0
			Nandyal	*	*	*	*	*
			Mean	**29.3**	**86**	**4.9**	**29.7**	**5.9**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	KGHH-BIO-2509	5211	29.7	85.2	4.4	30.5	5.8
2	Bunny (CC)	5212	31.4	84.5	4.5	31.1	5.7
3	KGHH-BIO-2507	5213	30.1	84.7	4.4	30.4	5.7
4	Zonal Check (Mallika)	5214	31.5	85.6	4.6	31.3	5.8
5	KGHH-VS-2318-1	5215	30.4	84.4	4.5	31.4	5.9
6	Partech 28	5216	30.2	83.8	4.4	31.0	5.9
7	Partech 29	5217	29.3	86.1	4.9	29.7	5.9

(3). Br-03 a/b (CC) – PVT Colour Cotton – Irrigated

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	Suraj (Zonal Check)	5221	Raichur	*	*	*	*	*
			Srivilliputhur	31.2	85	4.8	32.1	6.0
			Lam	22.2	82	4.2	22.7	6.0
			Dharwad	32.2	85	4.3	31.1	6.0
			Nandyal	29.9	84	4.2	31.5	5.8
			Mean	**28.9**	**84**	**4.4**	**29.3**	**5.9**
2	FC 4003	5222	Raichur	*	*	*	*	*
			Srivilliputhur	24.6	83	3.8	25.4	5.5
			Lam	28.3	84	4.7	29.6	6.1
			Dharwad	25.2	85	6.7	26.2	5.5
			Nandyal	24.0	83	4.2	26.7	5.5
			Mean	**25.5**	**84**	**4.9**	**27.0**	**5.7**
3	Local Check	5223	Raichur	*	*	*	*	*
			Srivilliputhur	27.6	83	4.2	27.5	5.6
			Lam	31.5	86	4.7	33.8	6.1
			Dharwad	28.7	85	4.3	28.1	5.7
			Nandyal	28.7	84	4.1	29.9	5.7
			Mean	**29.1**	**85**	**4.3**	**29.8**	**5.8**
4	FC 4004	5224	Raichur	*	*	*	*	*
			Srivilliputhur	22.8	82	4.4	22.7	5.4
			Lam	25.6	86	4.1	28.5	5.9
			Dharwad	24.2	84	3.9	25.2	5.6
			Nandyal	22.3	81	3.6	22.6	5.3
			Mean	**23.7**	**83**	**4.0**	**24.8**	**5.6**
5	DHCC 2351	5225	Raichur	*	*	*	*	*
			Srivilliputhur	22.7	81	4.1	21.6	5.3
			Lam	28.5	83	4.4	31.0	6.0
			Dharwad	23.3	84	3.8	24.4	5.6
			Nandyal	22.6	80	3.4	22.8	5.3
			Mean	**24.3**	**82**	**3.9**	**25.0**	**5.6**
6	FC 4015	5226	Raichur	*	*	*	*	*
			Srivilliputhur	23.1	81	4.3	23.5	5.4
			Lam	25.1	85	3.9	27.8	5.9
			Dharwad	24.0	84	3.9	23.2	5.5
			Nandyal	22.4	81	3.7	23.8	5.4
			Mean	**23.7**	**83**	**4.0**	**24.6**	**5.5**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	Suraj (Zonal Check)	5221	28.9	84	4.4	29.3	5.9
2	FC 4003	5222	25.5	84	4.9	27.0	5.7
3	Local Check	5223	29.1	85	4.3	29.8	5.8
4	FC 4004	5224	23.7	83	4.0	24.8	5.6
5	DHCC 2351	5225	24.3	82	3.9	25.0	5.6
6	FC 4015	5226	23.7	83	4.0	24.6	5.5

(4).Br 14a – Coordinated Varietal Trial - *G. barbadense* - (South Zone)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	ZC (CCB 37-SZ / Phule Rukmai-CZ)	5231	Rahuri	28.5	83	3.5	30.9	5.8
			Dharwad	36.0	87	4.3	40.6	6.9
			Chamrajnagara	31.2	83	2.6	34.8	6.9
			Coimbatore	33.7	86	3.2	43.9	6.4
			Mean	**32.4**	**85**	**3.4**	**37.5**	**6.5**
2	CB 25-3	5232	Rahuri	34.0	84	2.3	34.7	5.6
			Dharwad	38.1	89	3.7	40.4	5.6
			Chamrajnagara	33.3	84	2.5	35.6	6.3
			Coimbatore	35.9	87	3.5	41.6	6.3
			Mean	**35.3**	**86**	**3.0**	**38.1**	**6.0**
3	QC (Suvin)	5233	Rahuri	32.5	84	2.3	34.0	5.3
			Dharwad	38.2	88	3.7	39.6	5.7
			Chamrajnagara	32.5	83	2.5	35.2	6.3
			Coimbatore	36.9	87	3.5	41.0	5.9
			Mean	**35.0**	**86**	**3.0**	**37.4**	**5.8**
4	CCB 25-2(H9)	5234	Rahuri	29.8	84	2.3	34.8	6.4
			Dharwad	32.6	87	4.4	35.6	8.2
			Chamrajnagara	30.3	83	2.9	31.7	8.1
			Coimbatore	32.0	86	3.4	38.8	7.2
			Mean	**31.2**	**85**	**3.3**	**35.2**	**7.5**
5	CCB 23-1	5235	Rahuri	32.3	84	2.8	36.4	6.6
			Dharwad	34.0	87	4.4	37.0	7.8
			Chamrajnagara	31.0	82	2.8	32.5	7.7

			Coimbatore	32.6	85	3.8	38.9	7.3
			Mean	**32.5**	**85**	**3.4**	**36.2**	**7.4**
6	CCB 25-1(H2)	5236	Rahuri	31.4	82	2.4	33.2	6.0
			Dharwad	34.2	85	4.1	35.9	6.2
			Chamrajnagara	*	*	*	*	*
			Coimbatore	33.4	85	3.3	40.9	6.4
			Mean	**33.0**	**84**	**3.3**	**36.7**	**6.2**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	ZC (CCB 37-SZ / Phule Rukmai-CZ)	5231	32.4	85	3.4	37.5	6.5
2	CB 25-3	5232	35.3	86	3.0	38.1	6.0
3	QC (Suvin)	5233	35.0	86	3.0	37.4	5.8
4	CCB 25-2(H9)	5234	31.2	85	3.3	35.2	7.5
5	CCB 23-1	5235	32.5	85	3.4	36.2	7.4
6	CCB 25-1(H2)	5236	33.0	84	3.3	36.7	6.2

(5). Br 24b – Coordinated Variety Trial - *G. arboreum* - (South Zone)

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	NDLA 3163	5241	Dharwad	21.5	79	6.9	22.6	5.6
			Nandyal	22.9	81	5.9	24.2	5.5
			Mean	**22.2**	**80**	**6.4**	**23.4**	**5.6**
2	CNA 1090	5242	Dharwad	24.8	83	6.1	26.5	5.7
			Nandyal	26.5	83	5.0	28.7	5.7
			Mean	**25.7**	**83**	**5.6**	**27.6**	**5.7**
3	LC	5243	Dharwad	24.1	81.0	6.3	25.8	5.7
			Nandyal	24.2	82.7	6.0	25.8	5.7
			Mean	**24.1**	**82**	**6.2**	**25.8**	**5.7**
4	DAS 2452	5244	Dharwad	24.3	83	6.2	26.0	5.7
			Nandyal	26.0	83	4.9	28.1	5.7
			Mean	**25.1**	**83**	**5.6**	**27.1**	**5.7**
5	ZC (DLSa 17)	5245	Dharwad	25.6	83	5.6	25.9	5.6

			Nandyal	26.7	82	4.8	27.5	5.7
			Mean	**26.1**	**83**	**5.2**	**26.7**	**5.6**
6	JLA 1913	5246	Dharwad	24.6	83	6.3	25.7	5.7
			Nandyal	25.6	83	5.3	27.7	5.7
			Mean	**25.1**	**83**	**5.8**	**26.7**	**5.7**
7	JLA 1518	5247	Dharwad	21.9	80	6.7	23.1	5.5
			Nandyal	23.6	83	5.5	25.1	5.6
			Mean	**22.7**	**81**	**6.1**	**24.1**	**5.6**
8	DDCC 1 (CC)	5248	Dharwad	20.5	81	6.4	20.2	5.2
			Nandyal	21.2	79	5.3	20.7	5.2
			Mean	**20.8**	**80**	**5.9**	**20.5**	**5.2**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	NDLA 3163	5241	22.2	80	6.4	23.4	5.6
2	CNA 1090	5242	25.7	83	5.6	27.6	5.7
3	LC	5243	24.1	82	6.2	25.8	5.7
4	DAS 2452	5244	25.1	83	5.6	27.1	5.7
5	ZC (DLSa 17)	5245	26.1	83	5.2	26.7	5.6
6	JLA 1913	5246	25.1	83	5.8	26.7	5.7
7	JLA 1518	5247	22.7	81	6.1	24.1	5.6
8	DDCC 1 (CC)	5248	20.8	80	5.9	20.5	5.2

III- North Zone

(1). Br.22 a Initial Evaluation Trial - G.arboreum

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	RG 968	501	Sriganganagar	19.9	79	7.0	19.2	5.3
			Faridkot	19.8	77	7.0	19.0	5.1
			Bathinda	20.2	78	7.0	20.0	5.1
			Hisar	19.9	79	7.1	18.9	4.9
			Sirsa (CICR)	19.6	80	6.8	20.4	5.1
			Mean	**19.9**	**78**	**7.0**	**19.5**	**5.1**
2	CISA 33-7-1	502	Sriganganagar	21.6	79	7.0	24.6	4.8
			Faridkot	22.1	79	7.0	25.7	4.8
			Bathinda	20.2	80	7.0	21.8	5.0

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Hisar	20.2	78	6.8	22.2	5.0
			Sirsa (CICR)	20.0	81	6.8	21.3	4.9
			Mean	**20.8**	**79**	**6.9**	**23.1**	**4.9**
3	HD 599	503	Sriganganagar	19.3	78	7.0	17.9	5.2
			Faridkot	19.6	76	7.1	18.2	4.9
			Bathinda	20.4	76	7.0	21.5	5.1
			Hisar	19.1	79	6.9	17.5	5.0
			Sirsa (CICR)	18.2	72	7.1	23.1	5.0
			Mean	**19.3**	**76**	**7.0**	**19.6**	**5.0**
4	CISA 405-2-2	504	Sriganganagar	20.4	79	7.0	20.6	5.0
			Faridkot	21.6	79	7.1	25.3	4.7
			Bathinda	21.6	80	7.0	23.4	4.9
			Hisar	21.2	78	6.7	22.1	4.9
			Sirsa (CICR)	21.6	81	6.7	22.0	4.9
			Mean	**21.3**	**80**	**6.9**	**22.7**	**4.9**
5	PBD 79	505	Sriganganagar	20.5	78	6.7	19.8	5.1
			Faridkot	20.0	77	7.1	18.3	5.0
			Bathinda	19.7	76	7.1	17.2	5.1
			Hisar	19.9	76	6.7	18.1	4.9
			Sirsa (CICR)	19.1	79	6.8	20.6	5.0
			Mean	**19.8**	**77**	**6.9**	**18.8**	**5.0**
6	FDK 412	506	Sriganganagar	20.1	78	7.0	19.5	5.4
			Faridkot	20.2	80	7.0	21.1	5.2
			Bathinda	19.4	80	7.1	16.5	5.1
			Hisar	19.6	79	6.8	16.5	5.1
			Sirsa (CICR)	19.4	78	6.8	19.7	5.1
			Mean	**19.8**	**79**	**7.0**	**18.6**	**5.2**
7	FDK 394	507	Sriganganagar	20.1	77	7.1	18.9	5.2
			Faridkot	21.0	77	7.1	21.7	5.0
			Bathinda	19.5	79	7.1	17.9	5.0
			Hisar	19.9	79	7.0	21.4	4.9
			Sirsa (CICR)	19.3	79	6.7	19.8	5.1
			Mean	**20.0**	**78**	**7.0**	**19.9**	**5.0**
8	FDK 423	508	Sriganganagar	19.7	75	7.0	18.4	5.2
			Faridkot	20.0	78	6.9	21.3	5.0
			Bathinda	19.6	80	7.0	18.1	4.9
			Hisar	20.6	77	6.7	21.4	5.0
			Sirsa (CICR)	19.2	79	6.8	19.6	5.1
			Mean	**19.8**	**78**	**6.9**	**19.7**	**5.0**
9	PBD 234	509	Sriganganagar	19.9	80	7.0	18.1	5.0
			Faridkot	21.0	82	7.0	24.2	4.6

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Bathinda	20.6	80	7.1	21.2	5.0
			Hisar	20.9	79	6.7	23.6	5.1
			Sirsa (CICR)	19.7	82	6.8	20.6	5.0
			Mean	**20.4**	**81**	**6.9**	**21.5**	**4.9**
10	RG 964	510	Sriganganagar	19.6	77	7.0	18.5	5.0
			Faridkot	18.1	80	7.0	17.5	4.6
			Bathinda	19.8	79	7.0	19.0	5.2
			Hisar	20.2	77	6.7	19.5	5.0
			Sirsa (CICR)	17.6	73	7.1	21.1	5.0
			Mean	**19.0**	**77**	**7.0**	**19.1**	**4.9**
11	LC	511	Sriganganagar	20.1	78	7.1	19.4	5.1
			Faridkot	20.1	80	7.0	21.5	5.3
			Bathinda	19.9	77	7.0	18.7	5.4
			Hisar	20.6	77	6.7	20.2	5.0
			Sirsa (CICR)	19.2	73	7.1	23.3	5.1
			Mean	**20.0**	**77**	**7.0**	**20.6**	**5.2**
12	RG 954	512	Sriganganagar	19.7	76	7.0	16.5	5.2
			Faridkot	20.0	78	7.0	19.5	5.2
			Bathinda	20.2	80	7.0	20.1	5.2
			Hisar	20.1	80	6.6	18.7	4.9
			Sirsa (CICR)	19.1	73	6.7	22.7	5.2
			Mean	**19.8**	**77**	**6.9**	**19.5**	**5.1**
13	ZC (FDK 124)	513	Sriganganagar	19.8	78	7.0	19.2	5.0
			Faridkot	20.0	80	7.0	20.0	5.0
			Bathinda	20.1	81	7.1	20.2	4.9
			Hisar	21.1	78	6.4	22.2	4.9
			Sirsa (CICR)	19.0	79	6.7	21.0	4.9
			Mean	**20.0**	**79**	**6.9**	**20.5**	**4.9**
14	RG 948	514	Sriganganagar	*	*	*	*	*
			Faridkot	20.1	79	7.0	20.1	5.0
			Bathinda	21.3	80	7.0	22.1	5.1
			Hisar	20.5	79	6.3	20.0	5.0
			Sirsa (CICR)	19.0	81	6.4	20.9	5.1
			Mean	**20.2**	**80**	**6.7**	**20.7**	**5.0**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	RG 968	501	19.9	78	7.0	19.5	5.1
2	CISA 33-7-1	502	20.8	79	6.9	23.1	4.9
3	HD 599	503	19.3	76	7.0	19.6	5.0

4	CISA 405-2-2	504	21.3	80	6.9	22.7	4.9
5	PBD 79	505	19.8	77	6.9	18.8	5.0
6	FDK 412	506	19.8	79	7.0	18.6	5.2
7	FDK 394	507	20.0	78	7.0	19.9	5.0
8	FDK 423	508	19.8	78	6.9	19.7	5.0
9	PBD 234	509	20.4	81	6.9	21.5	4.9
10	RG 964	510	19.0	77	7.0	19.1	4.9
11	LC	511	20.0	77	7.0	20.6	5.2
12	RG 954	512	19.8	77	6.9	19.5	5.1
13	ZC (FDK 124)	513	20.0	79	6.9	20.5	4.9
14	RG 948	514	20.2	80	6.7	20.7	5.0

(2). Br25 a Preliminary Hybrid Trial - Desi Hybrid

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	KR 167	521	Sriganganagar	20.3	80	6.4	19.1	5.2
			Bathinda	18.1	80	7.0	17.3	5.1
			Hisar	18.1	74	6.8	17.4	5.0
			Sirsa (CICR)	18.9	79	6.7	21.9	5.2
			Mean	**18.8**	**78**	**6.7**	**18.9**	**5.1**
2	CISAA 24-4	522	Sriganganagar	19.6	78	7.1	18.6	5.1
			Bathinda	20.3	79	7.1	21.2	5.0
			Hisar	20.6	80	6.6	21.5	5.1
			Sirsa (CICR)	18.9	81	6.9	20.6	5.2
			Mean	**19.8**	**80**	**6.9**	**20.5**	**5.1**
3	AAH 55	523	Sriganganagar	20.9	81	7.0	23.3	4.7
			Bathinda	20.2	79	7.1	19.6	5.1
			Hisar	19.9	79	6.7	18.4	5.0
			Sirsa (CICR)	19.2	78	6.8	20.2	5.0
			Mean	**20.0**	**79**	**6.9**	**20.4**	**5.0**
4	LC	524	Sriganganagar	19.4	78	7.1	16.6	5.3
			Bathinda	22.9	81	6.8	23.8	4.7
			Hisar	20.2	79	6.7	19.8	5.1
			Sirsa (CICR)	18.9	79	6.8	19.9	5.1
			Mean	**20.4**	**79**	**6.9**	**20.0**	**5.0**
5	AAH 54	525	Sriganganagar	20.6	81	6.8	21.7	5.1
			Bathinda	18.4	79	6.8	17.4	4.7
			Hisar	18.5	79	6.8	17.5	5.1
			Sirsa (CICR)	18.7	79	6.8	20.7	5.1

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Mean	**19.0**	**79**	**6.8**	**19.3**	**5.0**
6	ZC (KR 64)	526	Sriganganagar	18.9	79	6.8	17.5	5.1
			Bathinda	20.0	79	7.1	19.0	5.2
			Hisar	19.9	78	6.8	19.9	5.0
			Sirsa (CICR)	19.0	78	7.1	20.4	5.1
			Mean	**19.4**	**78**	**6.9**	**19.2**	**5.1**
7	CISAA 24-2	527	Sriganganagar	19.9	78	7.1	20.1	5.3
			Bathinda	20.0	79	7.1	19.9	5.1
			Hisar	19.4	79	6.8	16.0	5.1
			Sirsa (CICR)	19.0	78	6.8	20.8	5.2
			Mean	**19.6**	**78**	**6.9**	**19.2**	**5.2**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	KR 167	521	18.8	78	6.7	18.9	5.1
2	CISAA 24-4	522	19.8	80	6.9	20.5	5.1
3	AAH 55	523	20.0	79	6.9	20.4	5.0
4	LC	524	20.4	79	6.9	20.0	5.0
5	AAH 54	525	19.0	79	6.8	19.3	5.0
6	ZC (KR 64)	526	19.4	78	6.9	19.2	5.1
7	CISAA 24-2	527	19.6	78	6.9	19.2	5.2

(3). Br 24a – Coordinated Variety Trial - *G. arboreum*

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	FDK 431	5001	Sriganganagar	21.4	79	6.6	21.6	5.8
			Faridkot	20.1	78	6.8	21.0	6.1
			Bathinda	20.8	79	6.4	21.5	6.0
			Sirsa (CICR)	21.6	80	6.4	20.9	6.0
			Hisar	20.4	79	6.1	21.0	5.9
			Mean	**20.9**	**79**	**6.5**	**21.2**	**6.0**
2	FDK 421	5002	Sriganganagar	20.7	79	6.6	21.0	5.9
			Faridkot	20.1	78	6.5	21.1	5.9
			Bathinda	21.2	79	6.9	22.0	6.0
			Sirsa (CICR)	20.1	78	6.7	19.9	5.8
			Hisar	19.7	78	6.5	19.9	6.0

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
			Mean	**20.4**	**78**	**6.6**	**20.8**	**5.9**
3	PBD 161	5003	Sriganganagar	20.0	78	6.5	19.6	5.9
			Faridkot	18.7	77	6.8	19.3	6.4
			Bathinda	19.3	78	7.0	19.7	5.7
			Sirsa (CICR)	19.5	78	6.7	19.6	6.2
			Hisar	18.1	76	7.1	18.7	6.2
			Mean	**19.1**	**77**	**6.8**	**19.4**	**6.1**
4	PBD 166	5004	Sriganganagar	20.4	79	6.6	20.8	6.1
			Faridkot	18.1	76	6.8	19.0	6.1
			Bathinda	19.1	77	6.7	19.4	6.2
			Sirsa (CICR)	19.2	77	6.8	19.3	6.1
			Hisar	17.5	76	6.5	18.8	6.1
			Mean	**18.9**	**77**	**6.7**	**19.5**	**6.1**
5	Local Check	5005	Sriganganagar	21.6	80	6.6	21.9	6.0
			Faridkot	19.4	78	6.6	20.2	6.2
			Bathinda	19.1	77	6.5	20.6	5.8
			Sirsa (CICR)	19.3	78	6.8	20.2	6.0
			Hisar	19.7	78	6.2	20.4	6.1
			Mean	**19.8**	**78**	**6.5**	**20.7**	**6.0**
6	HD 579	5006	Sriganganagar	22.9	80	6.5	22.1	5.7
			Faridkot	20.0	78	6.9	20.1	6.1
			Bathinda	20.5	79	6.5	19.9	5.8
			Sirsa (CICR)	19.5	78	6.8	20.0	5.6
			Hisar	18.7	77	6.4	19.0	6.1
			Mean	**20.3**	**78**	**6.6**	**20.2**	**5.9**
7	FDK 124 (ZC)	5007	Sriganganagar	19.9	78	6.3	20.8	6.2
			Faridkot	19.8	78	6.7	20.3	6.0
			Bathinda	20.5	79	6.5	21.4	5.9
			Sirsa (CICR)	18.7	77	6.7	19.6	5.7
			Hisar	19.8	78	6.3	20.0	5.5
			Mean	**19.7**	**78**	**6.5**	**20.4**	**5.9**
8	FDK 354	5008	Sriganganagar	21.2	79	6.4	22.9	6.3
			Faridkot	20.5	79	6.9	20.9	5.9
			Bathinda	20.4	79	6.7	21.1	6.0
			Sirsa (CICR)	20.2	78	6.4	20.9	6.0
			Hisar	19.3	78	6.3	19.6	5.7
			Mean	**20.3**	**79**	**6.5**	**21.1**	**6.0**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	FDK 431	5001	20.9	79	6.5	21.2	6.0
2	FDK 421	5002	20.4	78	6.6	20.8	5.9
3	PBD 161	5003	19.1	77	6.8	19.4	6.1
4	PBD 166	5004	18.9	77	6.7	19.5	6.1
5	Local Check	5005	19.8	78	6.5	20.7	6.0
6	HD 579	5006	20.3	78	6.6	20.2	5.9
7	FDK 124 (ZC)	5007	19.7	78	6.5	20.4	5.9
8	FDK 354	5008	20.3	79	6.5	21.1	6.0

(4) Br-25 a Coordinated Desi Hybrid trial

Sr.No	Entry	Code No	Location	UHML	UI	Mic	Str(g/tex)	E%
1	Local Check	5011	Sriganganagar	19.9	78	6.5	21.2	6.2
			Bathinda	21.4	79	6.4	21.4	6.2
			Faridkot	18.8	77	6.5	19.1	5.8
			Hisar	19.4	78	6.9	19.8	5.8
			Sirsa (CICR)	19.2	77	6.6	19.1	6.1
			Mean	**19.7**	**78**	**6.6**	**20.1**	**6.0**
2	KR 165	5012	Sriganganagar	17.9	76	7.0	19.1	6.5
			Bathinda	19.1	77	7.0	19.6	6.2
			Faridkot	16.8	75	7.6	18.7	6.3
			Hisar	18.1	76	7.0	18.6	5.7
			Sirsa (CICR)	17.7	76	6.8	18.6	5.9
			Mean	**17.9**	**76**	**7.1**	**18.9**	**6.1**
3	KR 163	5013	Sriganganagar	20.2	78	7.1	21.3	6.2
			Bathinda	19.6	78	7.1	20.2	6.3
			Faridkot	18.8	77	7.3	19.6	6.1
			Hisar	18.9	77	6.9	19.8	6.2
			Sirsa (CICR)	19.3	78	6.6	19.1	6.1
			Mean	**19.4**	**78**	**7.0**	**20.0**	**6.2**
4	CISAA 22-3	5014	Sriganganagar	19.8	78	6.9	20.4	6.3
			Bathinda	19.9	78	7.1	20.8	6.2
			Faridkot	18.3	77	6.8	19.4	6.2
			Hisar	18.5	77	6.9	19.5	6.1

			Sirsa (CICR)	18.4	77	6.9	19.3	6.3
			Mean	**19.0**	**77**	**6.9**	**19.9**	**6.2**
5	Zonal Check (KR 64)	5015	Sriganganagar	20.4	79	7.0	22.4	5.8
			Bathinda	19.4	78	7.0	20.1	6.6
			Faridkot	17.5	76	7.2	18.8	6.3
			Hisar	20.0	78	6.8	21.6	6.3
			Sirsa (CICR)	18.8	77	6.9	19.1	5.8
			Mean	**19.2**	**78**	**7.0**	**20.4**	**6.2**
6	KR 164	5016	Sriganganagar	22.5	80	6.1	23.4	6.2
			Bathinda	18.6	77	6.7	20.1	6.1
			Faridkot	17.8	76	7.1	19.9	5.9
			Hisar	19.1	77	6.9	20.7	6.1
			Sirsa (CICR)	18.7	77	6.8	19.4	5.7
			Mean	**19.3**	**77**	**6.7**	**20.7**	**6.0**

Abstract

Sr.No	Entry	Code No	UHML	UI	Mic	Str(g/tex)	E%
1	Local Check	5011	19.7	78	6.6	20.1	6.0
2	KR 165	5012	17.9	76	7.1	18.9	6.1
3	KR 163	5013	19.4	78	7.0	20.0	6.2
4	CISAA 22-3	5014	19.0	77	6.9	19.9	6.2
5	Zonal Check (KR 64)	5015	19.2	78	7.0	20.4	6.2
6	KR 164	5016	19.3	77	6.7	20.7	6.0

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VI. Agronomy Trial 2025-26

Agronomy Trial 2025-2026											
Sample No./ Store No.	Variety	UHML	UI	Mic	Tenacity	E	1st Count nominal	CSP	2nd Count nomin	CSP	Rec Count
		mm	%	µg/ inch	g/tex	%	Count		Count		
26001	JLA- 1707	24.3	82	6.0	25.6	5.3	**16**	**2002**			16
26002	CNA -1085	23.5	81	5.6	24.0	5.5	**16**	**2032**	20	2044	16
26003	GBCH 5094 BG II	28.5	84	5.0	29.2	5.6	**20**	**2155**	30	2001	30
26004	25D 181 BG II	28.5	84	4.1	28.9	4.9	**30**	**2209**	40	2191	30
26005	DGHH 1658 BG II	28.3	84	4.1	27.6	5.3	**30**	**2172**	40	2047	30
26006	ACH-333	25.7	84	4.6	26.7	5.5	**20**	**2289**	30	2056	20
26007	ACH-905	25.7	84	4.4	26.6	5.4	**30**	**2198**	40	2171	30
26008	ARCH-1111	29.3	83	4.6	31.5	5.6	30	2035	40	1818	30
26009	RCH-1001 BG II	27.2	84	4.5	29.9	5.3	30	2047	40	1928	30
26010	US 5716 BG II	31.3	84	3.5	34.8	5.0	40	2389	50	2180	40
26011	KR-162 (Desi Hybrid)	19.2	79	7.0	20.1	5.2	Not Spinnable (Ring Yarn)				
26012	FBt-101	24.8	83	4.1	25.7	5.1	30	1794	**20**	**2068**	20
26013	16301 DB	22.9	81	4.5	23.1	5.8	20	1872			12
26014	AKHH 2022-1 (BG-1)	29.3	85	4.4	30.7	5.5	**50**	**2530**	60	2349	50
26015	RCH 1039 (BG-II)	27.2	86	5.1	29.1	5.6	**30**	**2258**	40	2096	30
26016	RCH 1060 (BG-II)	27.5	85	5.2	29.8	5.2	40	2172	50	2114	30
26017	C-9339 BG-II	28.3	88	4.8	30.7	6.0	**40**	**2266**	**50**	**2245**	40
26018	NBC-219 BG-II	29.3	86	5.2	30.1	5.8	**30**	**2426**	40	2086	30
26019	DC-5105 BG-II	26.4	84	5.1	28.1	5.7	**30**	**2204**	40	2065	30
26020	BIO 6910 BG-II	27.0	83	5.2	28.9	5.6	16	2110	**20**	**2048**	20
26021	ACH 31-2 BG-II	28.7	84	4.9	29.0	5.4	**30**	**2192**	40	2113	30
26022	KR 160	25.1	80	6.4	23.9	6.0	Not Spinnable (Ring Yarn)				
26023	DACH 48N48 BG II	31.4	85	4.8	33.1	5.3	50	2184	**40**	**2315**	40
26024	DACH 49N49 BG II	27.7	84	5.6	28.8	5.3	**20**	**2140**	30	1959	20
26025	ACH 41-2 BG II	26.7	84	4.0	28.4	6.3	**50**	**2347**	60	2186	50

26026	DGHH-1658 BG II	25.5	83	4.9	25.4	6.5	16	1943	20	1790	16
26027	Indam-2412 BG II	27.5	83	3.7	27.9	5.8	**40**	**2228**	50	2176	40
26028	PRCH-2799 BG II (Check)	26.7	81	3.8	26.1	6.3	20	2161	**30**	**2189**	30
26029	US-717 BG II	29.5	84	5.4	29.4	6.2	**20**	**2135**	30	1762	20
26030	NBC-2020 BG II (Check)	27.7	83	4.5	26.9	6.2	30	2109	40	1813	30
26031	CORE-101- BG II	30.2	85	4.3	31.1	6.0	**50**	**2300**	60	2262	50
26032	KCH-9226 BG II	29.2	84	4.7	30.2	6.1	30	1983	**20**	**2070**	20
26033	DACH 85S85 BG II	32.1	85	4.8	31.1	5.7	**50**	**2290**	60	2075	50
26034	KCH 9287 BG II	28.4	84	4.7	31.1	5.7	30	1954	**20**	**2244**	20
26035	MRC 9407- BG II	28.0	82	4.7	28.7	6.5	**20**	**2183**	30	1980	20
26036	CNA-1084	24.3	81	5.6	25.6	5.2	16	1485			12
26037	CNA-1085	23.5	80	5.9	24.9	5.2	15	1974			16
26038	Bio-6720	26.6	83	4.0	27.4	5.2	**40**	**2184**	50	2106	40
26039	AKHH-2021	28.1	82	4.4	29.9	5.3	**50**	**2627**	**60**	**2368**	60
26040	CORE-101	26.5	82	5.7	27.4	5.3	20	1915	30	1891	20
26041	CRCH-929	28.9	83	4.6	29.4	5.4	60	2153	70	2011	50
26042	OptimiziumBt Cottton	27.5	82	4.8	29.1	5.3	**50**	**2349**	60	2193	50
26043	KCH-9227	27.2	81	4.4	27.2	5.2	50	2186	**40**	**2313**	40
26044	ARCH-771 BG-II	27.2	84	5.0	28.5	4.4	50	2210	60	2038	40
26045	ARCH-781 BG-II	29.3	84	5.1	30.3	5.4	**50**	**2341**	60	2081	50
26046	Bio-6720	26.6	84	4.8	28.2	5.4	30	2042	40	2117	30
26047	CCH-666 BG-II (Check)	28.0	81	4.4	27.0	5.2	30	2048	40	1874	30
26048	KCH-9389 BG-II	29.3	84	4.0	29.7	4.9	30	2117	20	2337	30
26049	KCH-9390 BG-II	29.2	85	4.2	28.8	5.3	20	2217	30	2087	30
26050	C-9318BG-II	29.1	84	5.1	30.6	5.2	30	2012	20	2157	20
26051	RASI MAX-001 BG-II	28.3	85	5.0	31.5	5.1	**30**	**2099**	20	2252	30
26052	ACH-177-2 BG-II	28.8	84	4.5	29.6	5.1	**30**	**2143**	20	2233	30
26053	RASI MAX-003 BG-II	24.7	78	4.6	27.3	5.4					

26054	(Agron IA-4) DC-5105 BG -II	28.4	84	3.8	29.2	5.5	40	2145	30	2191	30
26055	(Agron IA-3) NBC-8 BG -II	24.4	81	5.0	24.7	5.1	20	2259	30	2115	30
26056	(Agron IA-5) RCH-1016 BG -II	30.4	84	5.1	31.1	5.0	20	2039			20
26057	WGCV BT-28	29.6	83	4.7	28.6	5.6	30	2081			30
26058	(Agron IA-2) C-9339 BG -II	28.7	81	3.7	27.4	5.2	40	2340	50	2250	40
26059	(Agron IA-1) KCH-9999 BG -II	28.2	82	4.6	27.3	6.3	30	2116	40	2043	30
26060	ARCV-99 BG-II	28.7	83	4.8	26.8	4.8	40	2144	30	2187	30
26061	INDAM-2412 BG-II	28.5	83	4.3	28.7	5.5	30	2235	40	2120	30
26062	ARCV-111 BG-II	28.7	84	4.8	29.1	4.9	40	2216	50	2088	40
26063	LAM BT-2208	29.3	85	4.1	29.5	5.1	50	2494			50
26064	SIMA B-8	37.3	88	3.4	41.4	7.0	80	2680	90	2509	80
26065	RCH-1016 BG-II	27.3	86	4.4	28.8	5.9	50	2361			50
26066	RCH-1026 BG-II	28.1	86	4.1	30.1	6.0	50	2268	40	2422	40
26067	KCH 9227 BG II	27.8	82	4.1	26.3	5.4					
26068	C 9340 BG II	29.0	83	5.0	31.6	5.9					
26069	RCH 1060 BG II	25.1	81	4.2	25.5	4.9					

Annexure: Fibre and Yarn Quality Norms

ICAR-CIRCOT Yarn CSP Norms

Count	CSP	Count	CSP
16s	1987	60s	2392
20s	2024	70s	2484
30s	2116	80s	2576
40s	2208	100s	2760
50s	2300	120s	2944

TMC Norms for Trash (%)

Staple Class	**Trash Limit (%)**
Extra Long Staple	2.0
Long and Medium Long	3.0
Medium and Short	3.5
Closed Boll Types	6.0

Staple Length Categories of Indian Cottons Based on UHML*

Category	Range of 2.5% S.L.(mm)
Short	20 mm and below
Medium	20.5 - 24.5
Medium Long	25.0 - 27.0
Long	27.5 - 32.0
Extra long	32.5 mm and above

Ratings of Cotton on The Basis of Length Uniformity*

Category	UI
Poor	Below 76
Fair	76 to 78
Average	79 to 83
Good	83 to 85
Excellent	Above 85

Classification of Cottons According to Micronaire Value

Category	**Range of Micronaire Value**
Very fine	Below 3.0
Fine	3.0 to 3.9
Average	4.0 to 4.9
Coarse	5.0 to 5.9
Very coarse	6.0 and above

Ratings of cotton based on tenacity at 3.2 mm gauge length (HVI mode)*

Category	Range of Bundle tenacity values in g/tex
Very weak	20.0 & below
Weak	20.1 - 25.0
Average	25.1 – 29.0
Good	29.1 – 32.5
Very good	Above 32.5

* The values are provisional subject to revision

Provisional Norms on the basis of HVI mode of testing

Sr. No.	Count Range	Range of UHML (mm)	Minimum value of UI	Minimum Tenacity (g/t) (HVI mode)	Range of Micronaire
1.	14s-18s	24-25	81	27.5	3.9-4.7
2.	20s-24s	25-26	82	28.0	3.8-4.2
3.	25s-30s	26-27	83	29.1	3.4-4.2
4.	31s-40s	27-29	84	29.3	3.3-4.1
5.	41s-50s	29-31	84	31.3	3.3-4.0
6.	51s-60s	31-33	86	33.6	3.2-3.9
7.	61s-80s	33-34	86	36.6	3.2-3.8
8.	81s-100s	34-36	87	38.3	3.1-3.4
9.	101s-120s	36>	88	40.0	2.9-3.2

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