



2021 National Cotton Variety Test

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

National Cotton Variety Tests, 2021
Yield, Boll, Seed, Spinning and Data

Program Headquarter is located in the Crop Genetics Research Unit, Jamie Whitten Delta States Research Center, United States Department of Agriculture - Agricultural Research Service, Stoneville, Mississippi, in cooperation with the agricultural experiment stations of Arkansas, Arizona, California, Georgia, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.

**The National Cotton Variety Test series is available free of charge from
the National Cotton Variety Test Program.**

National Cotton Variety Tests, 2021

Yield, Boll, Seed, Spinning, and Fiber Data

Issued May, 2023

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**United States Department of Agriculture
Agricultural Research Service
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TEST LOCATIONS

Fort Cobb, OK (IRR)
Fort Cobb, OK (dry)
CHILLICOTHE, TX (IRR)
COLLEGE STATION, TX
COMMERCE, TX
CORPUS CHRISTI, TX (DRY)
FIVE POINTS, CA
FLORENCE, SC
JACKSON, TN
KEISER, AR
LAS CRUCES, NM
LUBBOCK, TX (IRR)
MARICOPA, AZ
PORTAGEVILLE, MO
ROCKY MOUNT, NC
STARKVILLE, MS
STONEVILLE, MS
SUFFOLK, VA
WESLACO, TX



ACKNOWLEDGMENTS

The success of the National Cotton Variety Testing Program results from the interest and diligence of many workers who conducted the tests, processed the fiber samples, tabulated the information and analyzed the data. The following were primarily responsible for furnishing field data and providing samples:

Arkansas -- F. M. Bourland
Arizona – A. Thompson
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Missouri – Bradley Wilson
New Mexico -- J. Zhang
North Carolina - K. Edmisten
Oklahoma – S. Byrd
South Carolina -- T. Campbell (USDA-ARS) and M. Jones
Tennessee – T. Raper
Texas -- J. Dever, S. Hague, and C. W. Smith
Virginia – H. Frame

The interest and cooperation of the commercial cottonseed firms of the United States are acknowledged.

Seeds of varieties used as national standards were supplied by the following organizations:

DP 1646B2XF, DP 2012B3XF – Bayer Crop Science;
NG 4930B3XF -- Americot, Inc;
FM 1830GLT, ST 4550GLTP – BASF;
PHY 764WRF, PHY 400W3FE -- Corteva Agriscience;
DG 3520B3XF – All-Tex/Dyna-Gro



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National Cotton Variety Test Archive File

The National Cotton Variety Test, from its inception in 1960 to the current year, is maintained in an archive file at the NCVT Program headquarters, Stoneville, MS. These files are available from the ARS Coordinator for the NCVT Program. The following files are available:

Cottonseed Quality Archive File	1977 - 2020
Yield Archive File	1960 - 2020
Fiber Quality Archive File	1960 - 2020
Pima Combed Yarn Archive File	1962 - 2020

Code Files:

- Alpha & Numeric Variety Listings (2 files)
- Alpha & Numeric Location Listings (2 files)
(includes Regional Codes)

Excel Files:

- Yield Data File 1960-2020
- Fiber Quality Data File 1967-2020
- Cottonseed Quality Data File 1998-2020

The Archive Files, Codes, Content and Index files will be updated to include the current data each year, following the publication of the Annual Report. Write or phone:

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a uniform system of reporting data from cotton-yield trials across the US Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State Agricultural Experiment Stations and the Agricultural Research Service. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year testing cycle. For the twenty first 3-year testing cycle, beginning in 2020, the national standards were DG 3520B2XF, DP 1646B2XF, DP 2012B3XF, FM 1830GLT, PHY 764WRF, PHY 400W3FE, NG 4930B3XF, and ST 4550GLTP. Within each region, cooperators annually selected a group of regional standard varieties that were common to all tests within the region for the particular year. In 1984, the cooperators for the Eastern, Central, and Delta regions elected to include interregional standards. All varieties were grown to obtain experimental data, and the designation of national, regional, and interregional standards is not an endorsement of these varieties by the U. S. Department of Agriculture or the cooperating State Agricultural Experiment Stations. Data on the national, regional, and interregional standards were included in this report. Beginning in 2020, there were no regional standards included in the tests.

Plot size, cultural practices, number of entries, and sampling methods were left to the discretion of the participating stations. While these details were not rigidly standardized, all tests were conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index were supplied by the cooperating stations. AFIS, HVI, and spinning tests were performed by USDA, ARS, SRRC, CSQR, New Orleans, LA, and chemical analyses of seed were completed by Eurofins Scientific, Inc., Memphis, TN. All data were compiled, analyzed, tabulated, and duplicated by the staff of the office of the Program Analyst for the National Cotton Variety Test.

In 1994, the National Cotton Variety Testing Program was organized into the current regional structure. Upland varieties were grown in all tests except the Pima Region. Strains developed in the southern states with superior fiber properties and spinning performance were tested in three contiguous Regions (high quality test). Extra-long-staple American Pima varieties were tested in the Western and Arizona Regions.

In 1996, results of the Regional Project S-205 Regional Bollworm-Budworm Tests and the Regional Short Season Tests were reprinted in this report. The purpose in reprinting this vital information is to assist Regional Project S-205 by making the data more widely available to the Cotton Improvement Community. These results are no longer provided to the National Cotton Variety Testing staff.

Beginning with the 2012 NCVT publication, services previously provided by StarLab, Inc., Knoxville, TN, were discontinued due to the laboratory closure. Analysis of fiber samples were performed by the Cotton Structure and Quality Research Unit, USDA, ARS, SRRC, New Orleans, LA. Fiber sample analysis includes HVI, AFIS, and Spinning data.



REGIONAL TESTS PARTICIPATING STATIONS

[Eastern](#) Regional Cotton Variety Test (Upland Varieties)

Clemson University	
Pee Dee Experiment Station	Florence, SC
NC State University	
Extension Center	Rocky Mount, NC
Mississippi State University	
Extension Center	Starkville, MS
Virginia Tech University	
Extension Center	Suffolk, VA

[Delta](#) Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station	
Northeast Research & Extension Center	Keiser, AR
Mississippi State University	
Delta Agricultural Extension Center	Stoneville, MS
University of Missouri	
Delta Research Center	Portageville, MO
University of Tennessee	
West Tennessee Ag Research & Education Ctr.	Jackson, TN

[Central](#) Regional Cotton Variety Test (Upland Varieties)

Texas A&M University	
Extension Center	Weslaco, TX
Main Station	College Station, TX
Extension Center	Corpus Christi, TX

[Blackland](#) Regional Cotton Variety Test (Upland Varieties)

Texas A&M University	
Agricultural Research and Extension	Commerce, TX

[Plains](#) Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station	
Cotton Research Station	
Irrigated Test	Fort Cobb, OK
Dryland Test	Fort Cobb, OK

Texas A&M University	
Agricultural Research and Extension Center (Lubbock)	
Irrigated Test	Lubbock, TX
Off-Station (Dryland Test)	Lamesa, TX

[Western](#) Regional Cotton Variety Test (Upland Varieties)

UC Davis,	
UC West Side Research & Extension Center	Five Points, CA

New Mexico State University,	
New Mexico Agricultural Experiment Station	
Main Station	Las Cruces, NM
Southeastern Branch Station	Artesia, NM

USDA-ARS,	
US Arid-Land Agricultural Research Center	Maricopa, AZ

<u>High Quality</u> Regional Cotton Variety Test	
Arkansas Agricultural Experiment Station	
Northeast Research & Extension Center	Keiser, AR
University of Missouri	
Delta Research Center	Portageville, MO
Clemson University	
Pee Dee Experiment Station	Florence, SC
USDA-ARS	
Jamie Whitten Delta Research Center	Stoneville, MS
Texas A&M University	
Texas Agricultural Experiment Station	College Station, TX
Agricultural Research and Extension Center	Lubbock, TX
University of Tennessee	
West Tennessee Ag Research & Education Ctr.	Jackson, TN
New Mexico State University	
New Mexico Agricultural Experiment Station	
Main Station	Las Cruces, NM

<u>Pima</u> Regional Cotton Variety Test	
New Mexico State University	
Dept. Plant & Environmental Science	Las Cruces, NM
University of California	
West Side Research & Extension Center	Five Points, CA

Combed-Yarn Test (American Pima Varieties)**

American Pima cottons are commonly spun into combed yarns. In addition to the carded yarn tenacity, combed-yarn tests of Pima cotton grown at two locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, United States Department of Agriculture, Cotton Testing Section at Clemson, SC. Classer's grade and staple, yarn tenacity of 11.8- and 7.4- tex (50's and 80's cotton count) yarns, appearance index, imperfections per 1,000 yards, and waste percentages are reported.

**Test was discontinued in 1994 due to costs of processing samples.



EXPLANATIONS AND DEFINITIONS

No interpretation of the test results other than the indication of the significant difference among means based on an analysis of variance is presented. The variety x location interaction mean square was used as the Error term in F tests and Duncan's Multiple Range tests in the combined-over-locations ANOVA for each region. Statistical analyses and Duncan's Multiple Range tests were performed using SAS. A randomized complete block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to six replications were planted, depending on the station, with four replications being more commonly used. Boll size, lint percentage, and seed, fiber, and yarn data were based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first four tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. Following these tables average data for each location in the region are given, each table being arranged by variety in order of decreasing lint yield.

The column headings and symbols are presented in order of placement in the tables and defined as follows:

Breeder Data

Lint yield: The mean production of the plots harvested, expressed in pounds of lint per acre and reported as estimated by each participant.

Seed Yield/Acre: The yield in pounds of seed per acre for each plot was calculated and reported. (Reporting started with the 1994 tests.) The calculation used is:

$$(\text{ LINT YIELD/ACRE }) \times ((100\text{-LINT\% }) / \text{ LINT\% })$$

Lint percent: The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Seed index: The mass of 100 fuzzy seeds, in grams.

Boll size: The mass, in grams, per boll of seed cotton.

Seed Traits

Oil: The oil in fuzzy seeds as determined by AOCS Method Aa 4-38; expressed as a percentage of the mass of the fuzzy seeds.

N (Nitrogen): The nitrogen in fuzzy seeds as determined by AOCS Method Ba 4-38; expressed as a percentage of the mass of fuzzy seeds. The percentage of nitrogen multiplied by 6.25 is an approximation of the percentage of protein.

Gossypol:

Processing protocols:

The gossypol content (including free and bound gossypol as well as methoxy-gossypol) in fuzzy seeds is determined by the HPLC Method described in AOCS Recommended Practice Ba 8a-99. The HPLC Method described in Vol. 59, page 546, 1982 of the Journal of the American Oil Chemist's Society is modified as follows: Immediately after obtaining the hull-free kernels, they were dried in a forced-draft oven at 180°F for 4 hours. At the end of 4 hours drying, the kernels were immediately placed in moisture-proof containers and cooled. In proceeding with the HPLC Method every effort was made to prevent the kernels from regaining moisture. This modification reduced free moisture on the kernels with which the gossypol could interact and become bound to the protein thus reducing the free gossypol content. The use of this modification method (starting with 1987 crop) resulted in higher estimates of free gossypol than in previous years.

Gossypol is a terpenoid aldehyde that exists in two enantiomeric forms, (+) and (-); both determinations are reported labeled as 'Plus' and 'Minus' gossypol.

Free gossypol: Free gossypol is expressed as a percentage of the mass of the kernel.

HVI® Fiber Traits

Processing protocol:

Samples are conditioned according to ASTM D1776 prior to testing. After 2012, all fiber samples were measured using a HVI 1000 from Uster Technology (Knoxville, TN).

HVI (High Volume Instrument): An instrument system used to measure length, strength, micronaire, and color of cotton fibers.

MIC (Micronaire): The fineness of the sample taken from the ginned lint, measured by a Fibronaire and expressed in standard (curvilinear scale) micronaire units.

UHML (Upper Half Mean Length): the average length of the longer one-half of the fibers.

UI (Uniformity Index): the ratio between the mean length and the upper half mean length (UHML) of the fibers expressed as a percentage.

STR (Strength): The fiber strength of a bundle of fibers measured with the two jaws holding the fiber bundle separated by one-eighth inch, expressed in grams force per tex. In reports prior to XXXX, this measurement was called Tenacity. Since the physical nature of this measurement is under investigation, use of the more general term seems appropriate.

ELO (Elongation): Elongation at point of break in strength determination.

Colorimeter:

Rd: The percentage of the reflectance; the higher the value, the lighter the cotton.

Hunter's Plus b (or +b) value: A measure of increasing yellowness of the cotton.

Spinning Data

Processing protocol:

60g of each sample was opened in a SpinLab Opener/Blender then carded at approximately 20 lbs/hr on a modified Saco Lowell Model 100 carding machine. Sliver was drawn twice on a modified Saco Lowell Model DF 11 draw frame to produce 42 grain/yd sliver suitable for spinning. Ring spinning was performed on an SDL Atlas Miniature Ring-Spinning frame to produce Ne 22/1 ring-spun yarn at 8,000 rpm spindle speed. One bobbin of yarn was produced per sample and tested per ASTM D1578, option 1 with results calculated using Equation 6. Waste percentage as reported is the percentage of material removed during the carding process.

Waste. The difference in mass, expressed as a percentage of the fed stock and delivered stock.

YT (Yarn tenacity): In the Regional test the standard skein strength of the yarn in millinewtons per tex(mN/tex) is estimated from miniature skeins. The data are adjusted to standard skein basis and corrected to 27 tex.

AFIS Fiber Traits

Processing protocol:

Fiber samples were conditioned following the protocol of ASTM D1776. After 2012, all samples were measured using an AFIS Pro from Uster Technologies (Knoxville, TN).

The measurement of 3 slivers (0.5g per sliver) for each sample with 5,000 fibers measured per sliver by the Uster AFIS®. All samples are conditioned according to ASTM D1776.

L(n) (Length by number)[inches]: Mean length of fibers calculated by number.

L(w)(Length by weight): The average length of all the fibers in the sample computed on a weight basis.

SFC(n)(Short fiber content by number): The percent of the fibers, calculated by number, that are less than 0.50 in.

SFC(w) (Short fiber content by weight): The percent of the fibers, calculated by weight, that are less than 0.50 in.

UQL(w) (Upper quartile length of the fibers by weight): This is the length which is exceeded by 25% of the fibers by weight.

Fineness: Mean fiber fineness (weight per unit length) in millitex. One thousand meters of fibers with a mass of 1 milligram equals 1 millitex.

IFC (Immature Fiber Content): The percentage of fibers with less than 0.25 circularity. The lower the IFC%, the more suitable the fiber is for dyeing.

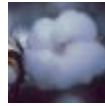
MR (Maturity Ratio): The ratio of fibers with a 0.5 (or more) circularity divided by the amount of fibers with a 0.25 (or less) circularity. The higher the maturity ratio, the more mature the fibers are and the better the fibers are for dyeing.

Nep Cnt/g (Nep Count per Gram): The total nep count normalized per gram. This includes both fiber and seed coat neps.

SCN Cnt/g (Seed Coat Nep Count per Gram): This is the number of neps normalized per gram that are classified as seed coat neps.

VARIETIES TESTED IN 2021

1503	FM 1830 GLT
1516	DP 1646 B2XF
1536	PHY 764 WRF
1592	DG 3520 B3XF
1593	ST 4550 GLTP
1595	NG 4936 B3XF
1598	DP 2012 B3XF
1599	PHY400 W3FE
1612	DP 1948 B3XF
1613	FM 1730 GLTP
1601	ST 4990 B3XF
1614	PHY 332 W3FE
1615	PHY 390 W3FE
1603	TAM 14H-11
1616	KH-14-A-176-2015-314-29
1617	12KJ-Q14-2015-708-10
1618	NM 18B1592
1587	NM 18B1593
1619	ARK 1319-59
1620	ARK 1303-29
1621	ARK 1311-26
1622	LA 17063090
1623	LA 17063008
1624	LA 16063006



United States Department of Agriculture

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Other links:

**All Internet Versions of the NCVT Publications are accessible through
either the Jamie Whitten Delta States Research Center or the
Crop Genetics Research Unit sites**

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PLAINS

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

OVERALL SUMMARIES FOR PLAINS BY VARIETIES COMBINING ALL SUB-REGIONS – PLAINS

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1050	840	37.7	9.9	4.8	4.24	16.7	0.517	0.347	0.86
1516	DP 1646 B2XF	1190	993	42.7	8.1	4.3	3.97	16.8	0.630	0.480	1.11
1536	PHY 764 WRF	783	869	35.9	10.8	4.3	4.20	19.6	0.487	0.357	0.85
1592	DG 3520 B3XF	1168	1109	37.6	11.1	4.4	3.87	24.0	0.613	0.427	1.04
1593	ST 4550 GLTP	1244	962	42.8	9.2	4.7	4.20	16.1	0.617	0.432	1.05
1595	NG 4936 B3XF	970	1065	30.2	9.7	4.6	3.89	15.4	0.845	0.405	1.25
1598	DP 2012 B3XF	1124	986	37.9	9	4	4.10	18.0	0.760	0.410	1.17
1599	PHY 400 W3FE	1321	1014	40.6	9.4	4.7	4.04	19.6	0.708	0.392	1.10
	LSD	152	610	1.1	0.77	0.58	0.25	1.7	0.05	0.03	0.06

<u>vcode</u>	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.5	0.88	1.17	82	7.4	32	4.6	75.6	7.5
1516	DP 1646 B2XF	4.5	0.87	1.14	81.4	7.6	29.8	5.8	74.6	7.9
1536	PHY 764 WRF	4.1	0.87	1.12	81.3	8.4	33.6	5.3	71.3	8

1592	DG 3520 B3XF	4	0.86	1.17	83.2	6.1	32.8	6.2	72.1	8
1593	ST 4550 GLTP	4.6	0.87	1.11	82.4	7.3	31.5	5.9	73.1	8.1
1595	NG 4936 B3XF	4.3	0.87	1.16	82.8	6.7	29.3	5.7	75.8	7.7
1598	DP 2012 B3XF	4.5	0.88	1.13	81.8	7.6	29.8	4.6	73.7	7.8
1599	PHY 400 W3FE	4.4	0.87	1.12	81.9	7.9	32.8	5.2	73.6	7.8
	LSD	0.21	0.01	0.02	1	0.97	1.3	0.17	1.37	0.34
				Short	Short					Seed
				Fiber	Fiber			Immature		Coat
		Length	Length	Content	Content			Fiber	Maturity	Nep
vcode	VARIETY	Number	Weight	Number	Weight	UQL wt.	Fineness	Content	ratio	Count
1503	FM 1830 GLT	0.82	1.02	24.4	7.92	1.25	160	5.89	0.91	214
1516	DP 1646 B2XF	0.76	0.96	28.6	9.95	1.19	163	6.59	0.87	268
1536	PHY 764 WRF	0.78	0.97	25.3	8.58	1.18	150	7.24	0.86	291
1592	DG 3520 B3XF	0.79	0.99	26.4	8.33	1.21	152	7.48	0.84	313
1593	ST 4550 GLTP	0.79	0.97	24.3	8.04	1.16	163	6.51	0.88	205
1595	NG 4936 B3XF	0.78	0.99	27.7	9.08	1.22	159	6.96	0.87	272
1598	DP 2012 B3XF	0.8	0.99	25.3	8.2	1.21	162	6.22	0.9	222
1599	PHY 400 W3FE	0.73	0.95	30.3	10.52	1.17	159	6.6	0.88	240
	LSD	0.03	0.02	2.34	1.01	0.02	4.44	0.44	0.01	46.3

PLAINS SUB-REGION 11

		Lint	Seed			Boll				
		Yield	Yield	Lint	Seed	Size	Nitrogen	Oil	Plus	Minus
vcode	VARIETY	(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol
1503	FM 1830 GLT	540	840	37.7	9.9	5.5	3.69	18.6	0.57	0.4
1516	DP 1646 B2XF	747	993	42.7	8.1	4.8	3.73	16.1	0.66	0.54
1536	PHY 764 WRF	451	869	35.9	10.8	4.9	3.93	19.0	0.5	0.38
1592	DG 3520 B3XF	597	1109	37.6	11.1	5.5	3.47	24.1	0.68	0.47
1593	ST 4550 GLTP	712	962	42.8	9.2	5.5	3.88	18.2	0.67	0.49
1595	NG 4936 B3XF	466	1065	30.2	9.7	5.4	3.45	15.1	0.93	0.46
1598	DP 2012 B3XF	649	986	37.9	9	4.5	3.63	17.3	0.86	0.46
1599	PHY 400 W3FE	764	1014	40.6	9.4	5.4	3.49	17.0	0.75	0.42
	LSD	186	610	1.10	0.77	0.36	0.60	5.32	0.05	0.04

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.5	0.88	1.17	81.6	7.6	32.6	5	83.7	8.7
1516	DP 1646 B2XF	4.5	0.87	1.15	80.7	7.8	29.2	6.4	83.7	9.4
1536	PHY 764 WRF	3.8	0.86	1.14	81.2	7.5	34.2	5.4	82.3	9.2
1592	DG 3520 B3XF	4	0.86	1.17	83.2	5.8	33.6	6.6	82.9	9.3
1593	ST 4550 GLTP	4.7	0.87	1.1	81.4	7.9	30.7	6.3	81.4	9.5
1595	NG 4936 B3XF	4.6	0.87	1.15	82.6	6.7	30.4	6	84.4	9
1598	DP 2012 B3XF	4.4	0.88	1.13	81.8	7	30.4	4.8	83.6	9.5
1599	PHY 400 W3FE	4.5	0.88	1.11	80.9	8.6	32.8	5.3	81.8	8.9
	LSD	0.25	0.01	0.05	1.26	0.95	1.3	0.43	0.53	0.34

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Weight	Fineness	Immature		Nep Count	SCN Count
								Fiber Content	Maturity ratio		
1503	FM 1830 GLT	0.87	1.06	1.28	20.6	6.3	160	5.98	0.9	271	18
1516	DP 1646 B2XF	0.76	0.96	1.18	27.2	9.65	163	7.3	0.84	391	15.5
1536	PHY 764 WRF	0.80	0.98	1.20	24.8	8.49	149	7.89	0.84	422	28
1592	DG 3520 B3XF	0.82	1.01	1.22	23.5	7.27	155	7.82	0.83	353	13.5
1593	ST 4550 GLTP	0.80	0.97	1.17	22.9	7.74	164	6.78	0.86	270	15.5
1595	NG 4936 B3XF	0.845	1.03	1.235	21.2	6.57	164	6.73	0.86	249	11.5
1598	DP 2012 B3XF	0.815	0.99	1.19	22.7	7.34	164	6.35	0.88	274	9.5
1599	PHY 400 W3FE	0.76	0.96	1.18	26.9	9.29	164	6.4	0.88	300	12
	LSD	0.07	0.07	4.62	2.03	0.07	7.66	0.74	0.02	139	12.9

PLAINS SUB-REGION 12

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)								
1503	FM 1830 GLT	1342				4.5	4.52	15.8	0.49	0.32	0.81
1516	DP 1646 B2XF	1444				4.1	4.09	17.1	0.62	0.45	1.07
1536	PHY 764 WRF	973				4.0	4.33	19.9	0.48	0.35	0.84
1592	DG 3520 B3XF	1494				3.9	4.08	23.9	0.58	0.41	0.99
1593	ST 4550 GLTP	1548				4.3	4.37	15.1	0.59	0.41	1
1595	NG 4936 B3XF	1258				4.3	4.11	15.6	0.81	0.38	1.18
1598	DP 2012 B3XF	1396				3.8	4.33	18.3	0.71	0.39	1.1
1599	PHY 400 W3FE	1640				4.4	4.31	21.0	0.69	0.38	1.07
	LSD	176				0.86	0.28	1.01	0.07	0.04	0.09

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.5	0.88	1.19	83.2	6.6	31.3	4.7	74.2	6.9
1516	DP 1646 B2XF	4.5	0.88	1.17	82.4	6.9	30	5.5	73.1	7.6
1536	PHY 764 WRF	4.2	0.87	1.12	82.5	7.7	34.4	5.1	69.0	7.7
1592	DG 3520 B3XF	3.9	0.86	1.19	83.8	5.7	32.9	5.5	70.3	7.3
1593	ST 4550 GLTP	4.5	0.87	1.14	83.3	6.7	32.3	5.4	72.4	7.5
1595	NG 4936 B3XF	4.1	0.87	1.18	83.2	6.5	29.9	5.4	73.1	7.4
1598	DP 2012 B3XF	4.4	0.87	1.17	82.7	7.0	30.6	5.0	71.7	7.2
1599	PHY 400 W3FE	4.3	0.87	1.15	82.7	7.2	32.9	5.0	72.5	7.4
	LSD	0.26	0.01	0.03	1.32	1.28	1.73	0.19	1.85	0.45

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content	Short Fiber Content	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number
				Number	Weight						Count
1503	FM 1830 GLT	0.82	1.03	1.25	25.8	8.25	162	5.95	0.912	197	22.2
1516	DP 1646 B2XF	0.79	1.00	1.23	27.0	8.91	162	6.33	0.887	194	18.7
1536	PHY 764 WRF	0.80	0.99	1.19	24.5	8.04	151	6.88	0.878	232	33.8
1592	DG 3520 B3XF	0.82	1.03	1.24	25.2	7.68	149	7.08	0.863	267	31.0
1593	ST 4550 GLTP	0.79	0.99	1.20	25.4	8.17	160	6.31	0.893	178	20.0
1595	NG 4936 B3XF	0.76	1.00	1.25	30.9	10.13	156	7.14	0.865	260	31.0
1598	DP 2012 B3XF	0.81	1.03	1.26	26.4	8.16	161	6.28	0.897	197	22.2
1599	PHY 400 W3FE	0.76	0.98	1.20	29.8	10.01	156	6.57	0.882	184	22.3
	LSD	0.03	0.03	2.87	1.23	0.02	5.62	0.55	0.01	49.6	9.3

PLAINS REGION SUMMARY BY LOCATION SITES

LOCATION	Lint Yield	Seed Yield	Lint Percent	Seed Index	Boll Size	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
	(lb/a)	(lb/a)			(g/boll)					
Lubbock, TX	616	980		9.6	5.2	3.66	18.2	0.7	0.45	1.15
Chillicothe, TX										
Fort Cobb-irrigated, OK	1732	.	.	.	4.3	4.18	18.5	0.66	0.42	1.08
Fort Cobb-dry, OK	926	.	.	.	4	4.35	18.2	0.58	0.35	0.93

LOCATION	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
Lubbock, TX	4.4	0.87	1.14	81.6	7.3	31.7	5.7	83	9.2
Chillicothe, TX	4.1	0.87	1.22	84.2	5.6	32.7	5.1	77.9	7.8
Fort Cobb-irrigated, OK	4.4	0.87	1.17	83.1	6.5	33	5.3	70.6	7
Fort Cobb-dry, OK	4.3	0.87	1.1	81.5	8.2	29.6	5.2	67.6	7.3

LOCATION	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
Lubbock, TX	0.81	0.99	23.7	7.83	1.21	160	6.91	0.86	316	15
Chillicothe, TX	0.84	1.06	24.7	7.35	1.29	156	6.55	0.89	198	16.8
Fort Cobb-irrigated, OK	0.79	1.01	27.5	8.88	1.23	158	6.57	0.89	219	27.3
Fort Cobb-dry, OK	0.75	0.94	28.5	9.77	1.16	158	6.58	0.88	224	31.4

PLAINS REGION INDIVIDUAL LOCATION SUMMARIES

LOCATION: Lubbock, TX (irr)

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	540	840	37.7	9.9	5.5	3.69	18.6	0.57	0.4	0.97
1516	DP 1646 B2XF	747	993	42.7	8.1	4.8	3.73	16.1	0.66	0.54	1.19
1536	PHY 764 WRF	451	869	35.9	10.8	4.9	3.93	19.0	0.50	0.38	0.88
1592	DG 3520 B3XF	597	1109	37.6	11.1	5.5	3.47	24.1	0.68	0.47	1.15
1593	ST 4550 GLTP	712	962	42.8	9.2	5.5	3.88	18.2	0.67	0.49	1.16
1595	NG 4936 B3XF	466	1065	30.2	9.7	5.4	3.45	15.1	0.93	0.46	1.38
1598	DP 2012 B3XF	649	986	37.9	9.0	4.5	3.63	17.3	0.86	0.46	1.32
1599	PHY 400 W3FE	764	1014	40.6	9.4	5.4	3.49	17.0	0.75	0.42	1.17
	LSD	187	567	1.03	0.33	0.76	0.58	5.02	0.06	0.05	0.10

				Upper Half						
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.5	0.88	1.17	81.6	7.6	32.6	5	83.7	8.7
1516	DP 1646 B2XF	4.5	0.87	1.15	80.7	7.8	29.2	6.4	83.7	9.4
1536	PHY 764 WRF	3.8	0.86	1.14	81.2	7.5	34.2	5.4	82.3	9.2
1592	DG 3520 B3XF	4	0.86	1.17	83.2	5.8	33.6	6.6	82.9	9.3
1593	ST 4550 GLTP	4.7	0.87	1.10	81.4	7.9	30.7	6.3	81.4	9.5
1595	NG 4936 B3XF	4.6	0.87	1.15	82.6	6.7	30.4	6.0	84.4	9.0
1598	DP 2012 B3XF	4.4	0.88	1.13	81.8	7.0	30.4	4.8	83.6	9.5
1599	PHY 400 W3FE	4.5	0.88	1.11	80.9	8.6	32.8	5.3	81.8	8.9
	LSD	0.25	0.01	0.05	1.26	0.95	1.3	0.45	0.53	0.34

				Short Fiber Content	Short Fiber Content			Immature Fiber Content			Seed Coat Number
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness		Maturity ratio	Nep Count	Count
1503	FM 1830 GLT	0.87	1.06	20.5	6.3	1.28	160	5.98	0.9	271	18
1516	DP 1646 B2XF	0.76	0.96	27.1	9.65	1.18	163	7.3	0.84	391	15.5
1536	PHY 764 WRF	0.8	0.98	24.8	8.49	1.2	149	7.89	0.84	422	28
1592	DG 3520 B3XF	0.82	1.01	23.5	7.27	1.21	155	7.82	0.83	353	13.5
1593	ST 4550 GLTP	0.8	0.97	22.9	7.74	1.17	164	6.78	0.86	270	15.5
1595	NG 4936 B3XF	0.85	1.03	21.2	6.57	1.23	164	6.73	0.86	249	11.5
1598	DP 2012 B3XF	0.82	0.99	22.7	7.34	1.19	164	6.35	0.88	274	9.5
1599	PHY 400 W3FE	0.76	0.96	26.9	9.29	1.18	164	6.4	0.88	300	12
	LSD	0.06	0.06	4.22	1.85	0.06	7.13	0.70	0.01	132	13

LOCATION: Fort Cobb, OK (irrigated)

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitro gen	oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1705				4.6	4.30	15.8	0.53	0.36	0.88
1516	DP 1646 B2XF	1755				4.2	3.97	18.3	0.68	0.48	1.16
1536	PHY 764 WRF	1269				3.9	4.25	19.6	0.51	0.37	0.89
1592	DG 3520 B3XF	1784				3.8	4.01	24.0	0.63	0.47	1.10
1593	ST 4550 GLTP	1908				5.0	4.35	15.4	0.61	0.45	1.06
1595	NG 4936 B3XF	1571				4.5	4.15	14.9	0.80	0.39	1.19
1598	DP 2012 B3XF	1776				4.0	4.29	18.8	0.77	0.44	1.2
1599	PHY 400 W3FE	2088				4.4	4.17	21.7	0.75	0.43	1.17
	LSD	353				0.86	0.38	2.24	0.15	0.07	0.19

vcode	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.6	0.88	1.21	83.3	6.4	33.6	4.5	71.1	6.5
1516	DP 1646 B2XF	4.7	0.88	1.16	82.4	6.9	32.3	5.5	71.9	7.1
1536	PHY 764 WRF	4.3	0.88	1.15	83.1	6.5	36.6	5.2	67.7	7.3
1592	DG 3520 B3XF	3.6	0.85	1.21	83.5	6	34	6.1	68.3	7.4
1593	ST 4550 GLTP	4.8	0.88	1.13	83.5	6.3	33.7	5.7	70.8	7.1
1595	NG 4936 B3XF	4.4	0.87	1.17	82.6	7.4	28.9	5.7	72.0	6.7
1598	DP 2012 B3XF	4.5	0.88	1.19	83.7	6	31.3	4.6	72.5	6.8
1599	PHY 400 W3FE	4.3	0.87	1.15	83.2	6.8	33.9	5.2	70.8	6.9
	LSD	0.54	0.01	0.04	2.44	2.03	3.95	0.28	3.67	0.83

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.83	1.04	25.8	8.32	1.28	159	6.17	0.92	183	29
1516	DP 1646 B2XF	0.79	1.00	27.8	9.18	1.23	165	5.94	0.9	188	16.5
1536	PHY 764 WRF	0.82	1.01	23.5	7.44	1.21	151	6.73	0.88	202	31
1592	DG 3520 B3XF	0.80	1.02	27.1	8.37	1.25	146	7.6	0.84	306	36.5
1593	ST 4550 GLTP	0.80	0.99	24.9	7.94	1.19	166	6.25	0.91	176	19
1595	NG 4936 B3XF	0.77	1.00	30.7	9.89	1.25	158	6.84	0.88	277	32
1598	DP 2012 B3XF	0.82	1.03	25.1	7.87	1.26	165	6.14	0.92	193	22.5
1599	PHY 400 W3FE	0.72	0.96	34.8	12.05	1.21	154	6.9	0.88	226	32
	LSD	0.06	0.04	5.86	2.52	0.04	11.8	1.14	0.03	99	14.3

Location: Fort Cobb, OK (dry)

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitro gen	oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	858				4.4	4.73	15.9	0.46	0.29	0.75
1516	DP 1646 B2XF	1029				4.0	4.22	16.0	0.56	0.43	0.99
1536	PHY 764 WRF	578				4.0	4.41	20.3	0.46	0.33	0.79
1592	DG 3520 B3XF	1106				4.0	4.15	23.9	0.53	0.35	0.88
1593	ST 4550 GLTP	1068				3.7	4.39	14.8	0.57	0.36	0.93
1595	NG 4936 B3XF	840				4.1	4.08	16.2	0.81	0.37	1.18
1598	DP 2012 B3XF	888				3.6	4.38	17.8	0.66	0.34	0.99
1599	PHY 400 W3FE	1043				4.4	4.45	20.3	0.64	0.33	0.97
	LSD	435				1.74	0.55	0.95	0.10	0.09	0.19

				Upper Half						
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.6	0.88	1.12	81.3	8.2	29.9	4.4	72.1	7.2
1516	DP 1646 B2XF	4.4	0.87	1.12	81.1	8.0	28.0	5.5	68.3	7.2
1536	PHY 764 WRF	4.2	0.87	1.07	79.8	11.2	30.0	5.2	63.9	7.4
1592	DG 3520 B3XF	4.2	0.86	1.13	82.8	6.5	30.7	6.0	65.2	7.1
1593	ST 4550 GLTP	4.5	0.87	1.09	82.4	7.8	30.3	5.8	67.2	7.8
1595	NG 4936 B3XF	4.1	0.87	1.15	83.1	5.9	28.8	5.3	71.1	7.4
1598	DP 2012 B3XF	4.4	0.88	1.07	80.1	9.9	27.7	4.4	65.0	7.0
1599	PHY 400 W3FE	4.4	0.87	1.10	81.6	8.5	31.9	5.2	68.3	7.6
	LSD	0.34	0.01	0.10	2.96	3.06	3.37	0.87	9.19	0.78

				Short Fiber Content	Short Fiber Content			Immature Fiber Content			Seed Coat Number
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness		Maturity ratio	Nep Count	Count
1503	FM 1830 GLT	0.77	0.97	26.7	9.15	1.18	162	5.52	0.92	188	24
1516	DP 1646 B2XF	0.72	0.93	30.9	11.0	1.15	161	6.52	0.88	225	32
1536	PHY 764 WRF	0.74	0.93	27.8	9.82	1.13	150	7.10	0.87	249	44
1592	DG 3520 B3XF	0.75	0.95	28.6	9.35	1.15	156	7.02	0.86	281	35
1593	ST 4550 GLTP	0.76	0.94	25.1	8.44	1.13	160	6.50	0.88	168	28
1595	NG 4936 B3XF	0.74	0.95	31.2	10.8	1.17	157	7.32	0.86	291	34
1598	DP 2012 B3XF	0.76	0.97	28.2	9.40	1.19	157	6.17	0.89	198	30
1599	PHY 400 W3FE	0.73	0.93	29.2	10.22	1.14	158.5	6.49	0.88	193	25
	LSD	0.07	0.06	4.65	2.40	0.06	10.4	0.90	0.03	84.5	20.5

Location: Chillicothe, TX

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830 GLT	4.4	0.88	1.23	85.2	5.3	30.6	5.3	79.4	7.1
1516	DP 1646 B2XF	4.5	0.88	1.23	83.7	5.7	29.6	5.5	79.3	8.6
1536	PHY 764 WRF	4	0.87	1.16	84.6	5.4	36.5	4.8	75.4	8.5
1592	DG 3520 B3XF	3.8	0.87	1.23	85.0	4.5	34.1	4.4	77.4	7.3
1593	ST 4550 GLTP	4.2	0.87	1.21	83.9	6.1	33.0	4.7	79.2	7.7
1595	NG 4936 B3XF	3.8	0.86	1.23	84	6.3	32.2	5.3	76.3	8
1598	DP 2012 B3XF	4.2	0.87	1.25	84.5	5.2	32.7	6.1	77.5	7.8
1599	PHY 400 W3FE	4.1	0.87	1.2	83.2	6.4	32.9	4.8	78.5	7.8
	LSD	0.56	0.02	0.04	2.21	1.45	2.10	0.33	2.71	1.21

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight						Number Count
1503	FM 1830 GLT	0.85	1.07	24.9	7.27	1.30	164	6.15	0.90	220	13.5
1516	DP 1646 B2XF	0.88	1.08	22.3	6.52	1.31	162	6.54	0.89	171	7.5
1536	PHY 764 WRF	0.84	1.03	22.3	6.85	1.23	154	6.82	0.89	244	27
1592	DG 3520 B3XF	0.91	1.11	19.9	5.32	1.32	146	6.62	0.90	216	21.5
1593	ST 4550 GLTP	0.81	1.03	26.3	8.13	1.27	155	6.18	0.90	191	13
1595	NG 4936 B3XF	0.79	1.04	30.8	9.73	1.31	153	7.27	0.86	211	27
1598	DP 2012 B3XF	0.86	1.09	26.0	7.20	1.34	161	6.55	0.89	200	14.5
1599	PHY 400 W3FE	0.83	1.04	25.5	7.77	1.27	155	6.32	0.89	134	10
	LSD	0.08	0.07	6.41	2.62	0.05	11.5	1.3	0.03	122	18.9



2021 National Cotton Variety Test

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EASTERN REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

**2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR EASTERN BY VARIETIES**

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1,061	1157	44.7	9.5	5.4	3.72	17.3	0.69	0.47	1.16
1516	DP 1646 B2XF	1,252	1331	45.4	8.6	5.2	3.64	17.6	0.77	0.65	1.41
1536	PHY 764 WRF	991	998	44.6	9.6	5.1	3.68	19.5	0.67	0.52	1.19
1592	DG 3520 B3XF	1,161	1316	43.4	10.3	5.5	3.57	22.1	0.72	0.56	1.28
1593	ST 4550 GLTP	1,223	1304	46.5	9	5.7	3.54	17.1	0.79	0.57	1.36
1595	NG 4936 B3XF	1,077	1399	43.3	9.2	5.1	3.41	15.7	0.85	0.50	1.35
1598	DP 2012 B3XF	1,252	1393	45.4	8.5	5.2	3.73	20.1	0.88	0.57	1.45
1599	PHY 400 W3FE	1,217	1357	45.6	9.2	5.3	3.63	20.0	0.77	0.48	1.24
	LSD	124	167	0.88	0.63	0.41	0.19	1.45	0.06	0.06	0.11

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.8	0.89	1.20	84.9	4.8	35.1	4.9	78.8	7
1516	DP 1646 B2XF	4.6	0.87	1.23	85.1	4.5	32	6.6	78.1	7.5
1536	PHY 764 WRF	4.5	0.88	1.16	85	5.1	37	5.5	75.5	8.2
1592	DG 3520 B3XF	4.1	0.86	1.22	85.8	3.9	33.4	6.6	76.4	7.9
1593	ST 4550 GLTP	4.8	0.88	1.13	84.7	4.7	33	6.2	76.6	7.9
1595	NG 4936 B3XF	4.5	0.87	1.20	85.4	4.6	31.8	6.4	79	7.3
1598	DP 2012 B3XF	4.6	0.89	1.15	84.1	5.5	31.1	5.1	79	7.5
1599	PHY 400 W3FE	4.7	0.88	1.16	84	6	33.4	5.2	77.8	7.7
	LSD	0.25	0.01	0.04	1.19	0.89	1.14	0.25	1.54	0.38

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content			
1503	FM 1830 GLT	0.90	1.08	18.9	5.47	1.28	168	5.62	0.94	106	9
1516	DP 1646 B2XF	0.90	1.09	20.9	6.22	1.31	165	6.42	0.89	129	13.3
1536	PHY 764 WRF	0.87	1.05	19.6	5.97	1.24	162	6.26	0.90	144	22.3
1592	DG 3520 B3XF	0.89	1.08	20.4	5.84	1.28	162	6.78	0.88	172	18.8
1593	ST 4550 GLTP	0.87	1.02	18.0	5.54	1.19	173	6.34	0.91	112	12.5
1595	NG 4936 B3XF	0.90	1.09	20.4	5.72	1.30	168	6.26	0.90	126	13.8
1598	DP 2012 B3XF	0.88	1.05	19.2	5.51	1.23	172	5.43	0.92	91	9.33
1599	PHY 400 W3FE	0.84	1.03	22.7	7.1	1.24	169	6.07	0.91	118	10.3
	LSD	0.04	0.04	2.43	0.99	0.03	5.08	0.48	0.02	38.9	5.66

EASTERN REGION SUMMARY BY LOCATION SITES

LOCATION	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
	Yield (lb/a)	Yield (lb/a)			Size (g/boll)					
Florence	1,552	1905	44.9	.	.	3.93	19.2	0.77	0.54	1.31
Rocky Mount	1,070	1211	46.8	9.3	5.7	3.41	19.3	0.81	0.54	1.35
Starkville, MS	550	729	42.9	9	4.7	3.87	16.3	0.70	0.50	1.20
Suffolk, VA	1,542	.	.	9.4	5.7	3.26	19.9	0.79	0.57	1.36

LOCATION	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
			Mean Length						
Florence, SC	4.5	0.873	1.18	84.3	5.3	33.9	5.7	5.7	6.9
Rocky Mount, NC	4.9	0.88	1.16	84.9	4.4	34.2	5.9	5.9	9
Starkville, MS	.	.	.	.	.	.	.	.	.
Suffolk, VA	4.4	0.87	1.21	85.4	4.8	32	5.8	.	7

LOCATION	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
	Number	Weight	Fiber	Fiber			Fiber			Coat
			Content	Content			Content	ratio	Count	Number
			Number	Weight						Count
Florence	0.80	1.02	27.6	8.58	1.25	168	6.79	0.90	169	23.6
Rocky Mount, NC	0.91	1.06	15.4	4.43	1.23	175	5.29	0.92	92.3	10.2
Starkville, MS	.	.	.	.	.	.	.	.	.	.
Suffolk, VA	.	.	.	.	.	.	.	.	.	.

EASTERN REGION INDIVIDUAL LOCATION SUMMARIES

Location: Florence, SC

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	oil	Plus	Minus	Free
		Yield	Yield			Size			Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM 1830 GLT	1,498	1802	45.3	.	.	4.14	16.9	0.61	0.46	1.07
1516	DP 1646 B2XF	1,723	2040	45.8	.	.	3.93	17.4	0.71	0.63	1.33
1536	PHY 764 WRF	1,152	1483	43.7	.	.	4.03	20.2	0.68	0.52	1.19
1592	DG 3520 B3XF	1,451	1950	42.7	.	.	3.82	24.7	0.75	0.60	1.34
1593	ST 4550 GLTP	1,559	1712	47.6	.	.	3.99	16.9	0.72	0.53	1.24
1595	NG 4936 B3XF	1,565	2065	43.1	.	.	3.46	14.8	0.87	0.45	1.32
1598	DP 2012 B3XF	1,738	2134	44.8	.	.	4.00	20.3	0.99	0.60	1.59
1599	PHY 400 W3FE	1,733	2044	45.8	.	.	4.07	22.2	0.86	0.51	1.37
	LSD	229	253	0.69			0.40	1.83	0.06	0.05	0.11

				Upper Half							
		Micro		Mean	Uniformity	Short		Elon		Hunters	
vcode	VARIETY	naire	Maturity	Length	Index	Fiber	Strength	gation	RD	Plus b	
1503	FM 1830 GLT	4.6	0.88	1.19	84.0	5.7	34.6	5.0	71.7	6.5	
1516	DP 1646 B2XF	4.5	0.87	1.23	84.2	5.2	32.7	6.4	72.4	6.7	
1536	PHY 764 WRF	4.6	0.88	1.17	85.1	5.3	36.5	5.5	68.7	7.8	
1592	DG 3520 B3XF	4.1	0.86	1.23	86.6	3.8	33.8	6.6	67.1	6.8	
1593	ST 4550 GLTP	4.8	0.88	1.14	83.3	5.5	33.8	5.8	71.0	7.2	
1595	NG 4936 B3XF	4.5	0.87	1.19	84.1	5.5	31.9	6.4	72.6	6.5	
1598	DP 2012 B3XF	4.5	0.88	1.17	84.1	5.6	32.6	5.1	73.4	7	
1599	PHY 400 W3FE	4.6	0.88	1.16	83.4	6.3	35.2	5.3	71.1	6.8	
	LSD	0.32	0.01	0.04	2.38	2.1	2.28	0.49	3.78	0.66	

				Short Fiber Content	Short Fiber Content			Immature Fiber Content	Maturity	Nep	Seed Coat Number
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness		ratio	Count	Count
1503	FM 1830 GLT	0.81	1.04	27.0	8.22	1.27	165	6.92	0.92	157	16
1516	DP 1646 B2XF	0.80	1.04	29.3	9.25	1.30	165	6.6	0.89	147	25
1536	PHY 764 WRF	0.78	0.99	28.6	9.12	1.21	163	6.53	0.90	214	40.5
1592	DG 3520 B3XF	0.81	1.06	29.1	8.54	1.31	162	7.35	0.88	235	33.5
1593	ST 4550 GLTP	0.79	0.98	24.6	8.1	1.18	174	7.3	0.91	141	17.5
1595	NG 4936 B3XF	0.82	1.05	28.0	8.22	1.29	171	6.94	0.91	160	22.5
1598	DP 2012 B3XF	0.81	1.03	26.3	7.84	1.25	173	5.99	0.92	127	17.5
1599	PHY 400 W3FE	0.78	0.99	27.9	9.34	1.22	171	6.67	0.92	176	16
	LSD	0.06	0.06	4.4	2.18	0.05	6.67	0.87	0.02	106	11.5

Location: Rocky Mount, NC

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	5.1	0.895	1.18	85.1	4.3	36.2	4.9	83.5	8.2	5.1
1516	DP 1646 B2XF	4.8	0.875	1.22	85.9	3.9	32.2	6.6	83.2	9.3	4.8
1536	PHY 764 WRF	4.8	0.88	1.15	84.6	4.6	39.1	5.6	79.9	9.4	4.8
1592	DG 3520 B3XF	4.3	0.865	1.17	85.2	4.4	35.3	6.7	81.8	9.2	4.3
1593	ST 4550 GLTP	5	0.88	1.10	84.4	4.5	33.6	6.4	80.8	9.1	5
1595	NG 4936 B3XF	4.7	0.87	1.21	86.2	3.5	33.1	6.6	83.3	9.2	4.7
1598	DP 2012 B3XF	5	0.885	1.09	83.8	5.0	30.1	5.1	83.7	8.7	5
1599	PHY 400 W3FE	5	0.895	1.14	83.9	5.5	33.9	5.2	82	9	5
	LSD	287	347	1.82	0.67	0.91	0.29	1.89	0.16	0.14	0.30

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830 GLT	4.4	0.87	1.30	85.9	3.1	33.1	6.8	81.8	8.4
1516	DP 1646 B2XF	4.4	0.86	1.27	86.4	3.6	30.7	8.9	82.3	8.2
1536	PHY 764 WRF	4.2	0.86	1.21	85.5	4.8	38.3	8.6	80.2	9.1
1592	DG 3520 B3XF	3.8	0.84	1.33	88.1	2.6	32.5	9.6	80.5	7.9
1593	ST 4550 GLTP	4.5	0.86	1.19	84.9	4.5	35	8.8	79.6	8.8
1595	NG 4936 B3XF	4.4	0.86	1.21	85.4	5.1	32.6	8.8	82.3	7.9
1598	DP 2012 B3XF	4.6	0.87	1.19	85.4	4.4	34	7.5	80.9	8
1599	PHY 400 W3FE	4.8	0.88	1.15	83.6	6.2	35.2	7.1	80.4	8.4
	LSD	0.77	0.02	0.11	2.34	1.38	2.92	0.47	1.22	0.72

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.95	1.09	13.4	3.7	1.26	176	4.55	0.97	64	4
1516	DP 1646 B2XF	0.96	1.12	15.7	4.39	1.32	171	6.12	0.90	122	9.5
1536	PHY 764 WRF	0.915	1.06	14.8	4.3	1.23	171	5.85	0.92	91.5	16.5
1592	DG 3520 B3XF	0.885	1.03	16.6	4.8	1.2	174	5.58	0.90	138	16
1593	ST 4550 GLTP	0.87	1	15.5	4.67	1.16	178	5.67	0.92	98.5	12
1595	NG 4936 B3XF	0.97	1.12	14.2	3.74	1.29	176	5.17	0.92	93	12.5
1598	DP 2012 B3XF	0.88	1.01	15.3	4.4	1.16	181	4.57	0.95	62.5	3.5
1599	PHY 400 W3FE	0.87	1.03	18.3	5.45	1.21	179	4.80	0.94	69	7.5
	LSD	0.08	0.09	2.55	1.16	0.10	13.7	0.94	0.04	50.5	12.5

Location: Starkville, MS*

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM1830 GLT	536	728	42.3	9.2	4.8	3.78	17.2	0.86	0.465	1.32
1516	DP1646 B2XF	595	786	43.1	8.6	4.6	3.95	14.7	0.76	0.55	1.31
1536	PHY764 WRF	598	727	45.2	8.5	4.5	4.28	15.2	0.70	0.55	1.25
1592	DG3520 B3XF	540	740	41.8	9.7	5.1	3.86	18.2	0.69	0.52	1.21
1593	ST 4550 GLTP	579	802	42.2	9.5	4.8	3.91	17.6	0.80	0.50	1.30
1595	NG4936 B3XF	529	710	42.5	8.6	4.1	3.59	14.6	0.60	0.46	1.06
1598	DP2012 B3XF	500	636	44.2	8.6	4.8	3.79	17.9	0.70	0.59	1.29
1599	PHY400 W3FE	523	706	42.2	9.5	4.6	3.79	15.2	0.51	0.385	0.90
	LSD	228	298	2.45	0.86	1.25	0.63	5.76	0.17	0.18	0.28

*Fiber data are missing due to the laboratory closure during the COVID pandemic periods.

Location: Suffolk, VA

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size			Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM1830 GLT	1,505	.	.	9.9	5.6	3.42	18.7	0.64	0.64	1.14
1516	DP1646 B2XF	1,776	.	.	8.5	5.3	3.43	17.7	0.77	0.77	1.47
1536	PHY764 WRF	1,769	.	.	10.2	5.0	3.19	22.3	0.69	0.69	1.23
1592	DG3520 B3XF	1,739	.	.	10.7	6.2	3.10	24.6	0.71	0.71	1.28
1593	ST 4550 GLTP	1,436	.	.	8.8	6.1	2.99	17.5	0.82	0.82	1.49
1595	NG4936 B3XF	1,092	.	.	9.4	5.6	3.37	16.8	0.98	0.98	1.54
1598	DP2012 B3XF	1,612	.	.	8.6	5.8	3.45	20.1	0.87	0.87	1.41
1599	PHY400 W3FE	1,406	.	.	9.4	6	3.12	21.5	0.865	0.87	1.4
	LSD	327			0.52	0.54	0.23	1.39	0.16	0.10	0.25

vcode	VARIETY	Micro	Maturity	Upper	Uniformity	Short	Strength	Elon	RD	Hunters
				Half						
		naire		Mean		Fiber		gation		Plus b
				Length	Index					
1503	FM 1830 GLT	4.6	0.88	1.24	85.6	4.3	34.6	4.8	81.2	6.4
1516	DP 1646 B2XF	4.5	0.86	1.24	85.4	4.4	31.1	6.8	78.9	6.6
1536	PHY 764 WRF	4.3	0.87	1.18	85.4	5.3	35.4	5.5	78	7.4
1592	DG 3520 B3XF	3.8	0.85	1.27	85.5	3.6	31	6.4	80.2	7.6
1593	ST 4550 GLTP	4.6	0.87	1.16	86.3	4.0	31.5	6.5	78.1	7.5
1595	NG 4936 B3XF	4.4	0.865	1.21	85.9	4.8	30.5	6.4	80.9	6.3
1598	DP 2012 B3XF	4.3	0.87	1.2	84.4	6.0	30.6	5.1	80	6.8
1599	PHY 400 W3FE	4.5	0.875	1.17	84.8	6.1	31	5.3	80.3	7.3
	LSD	0.41	0.01	0.05	2.06	1.47	1.51	0.5	3.15	0.88

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.945	1.14	16.3	4.50	1.31	163	5.40	0.93	98	7
1516	DP 1646 B2XF	0.935	1.12	17.8	5.03	1.32	160	6.54	0.88	117	5.5
1536	PHY 764 WRF	0.93	1.09	15.5	4.48	1.28	153	6.40	0.89	126	10
1592	DG 3520 B3XF	0.97	1.14	15.6	4.19	1.34	151	7.42	0.86	142	7
1593	ST 4550 GLTP	0.935	1.08	14.0	3.85	1.24	168	6.05	0.90	95	8
1595	NG 4936 B3XF	0.92	1.11	18.9	5.20	1.32	159	6.69	0.87	126	6.5
1598	DP 2012 B3XF	0.94	1.11	16.1	4.29	1.30	163	5.75	0.91	84	7
1599	PHY 400 W3FE	0.865	1.06	21.9	6.52	1.28	157	6.75	0.88	111	7.5
	LSD	0.08	0.05	6.32	2.18	0.03	13.2	1.16	0.04	54.2	7.7



2021 National Cotton Variety Test

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

CENTRAL REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

**2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR CENTRAL BY VARIETIES**

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	1050	1434	41.2	9.0	4.7	3.45	15.2	0.53	0.39	0.921
1516	DP 1646 B2XF	1430	1981	42.2	7.8	4.3	3.27	16.6	0.66	0.63	1.29
1536	PHY 764 WRF	740	1213	38.2	10	4.9	3.54	20.5	0.63	0.48	1.11
1592	DG 3520 B3XF	935	1671	39.2	11	4.9	3.14	24.7	0.73	0.55	1.28
1593	ST 4550 GLTP	1218	1490	43.6	8.4	4.7	3.51	15.7	0.68	0.53	1.21
1595	NG 4936 B3XF	1126	1588	39.9	8.5	4.8	3.22	15.1	0.88	0.42	1.30
1598	DP 2012 B3XF	1249	1622	40.9	8.7	4.3	3.54	18.3	0.87	0.53	1.40
1599	PHY 400 W3FE	1351	1861	41.4	9.17	4.8	3.49	22.6	0.91	0.52	1.43
	LSD	135					0.19	0.72	0.08	0.05	0.12

				Upper Half						
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.7	0.888	1.20	83.9	5.2	34.7	4.5	79.3	6.8
1516	DP 1646 B2XF	4.7	0.875	1.21	83.2	5.7	30.7	5.8	79.3	7.6
1536	PHY 764 WRF	4.3	0.876	1.15	83.3	6.0	36.7	5.1	75.6	8.2
1592	DG 3520 B3XF	4.2	0.864	1.21	84.5	4.9	33.7	5.9	74.1	7.7
1593	ST 4550 GLTP	4.8	0.883	1.14	83.8	5.6	33.4	5.5	76.9	8.3
1595	NG 4936 B3XF	4.6	0.876	1.18	83.7	5.4	31.0	5.6	80.5	7.3
1598	DP 2012 B3XF	4.7	0.884	1.19	83.6	5.5	31.9	4.6	78.6	7.9
1599	PHY 400 W3FE	4.6	0.881	1.18	83.9	5.7	34.2	4.9	78.2	7.6
	LSD	0.15	0.01	0.03	1.15	1.17	1.19	0.17	0.99	0.36

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.90	1.09	19.5	5.31	1.30	163	5.31	0.94	144	15.4
1516	DP 1646 B2XF	0.84	1.05	24.5	7.35	1.28	164	6.36	0.88	201	16.6
1536	PHY 764 WRF	0.86	1.04	20.0	5.72	1.23	159	6.20	0.90	182	22.4
1592	DG 3520 B3XF	0.87	1.08	22.0	5.73	1.29	159	6.75	0.87	210	25.6
1593	ST 4550 GLTP	0.86	1.02	19.4	5.6	1.21	167	5.85	0.90	171	19.3
1595	NG 4936 B3XF	0.83	1.03	24.5	7.33	1.24	164	5.87	0.90	241	16
1598	DP 2012 B3XF	0.89	1.08	19.9	5.38	1.28	169	5.30	0.92	151	14.6
1599	PHY 400 W3FE	0.86	1.05	21.7	6.25	1.27	164	5.73	0.91	132	9.88
	LSD	0.03	0.03	1.96	0.85	0.03	3.34	0.41	0.01	46.4	7.18

CENTRAL REGION SUMMARY BY LOCATION SITES

LOCATION	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
College Station-Irri	1512	2345	39.2	9.1	5.0	3.56	17.3	0.65	0.46	1.11
Weslaco-Irri	114	1347	41.2	8.4	4.3	2.86	19.8	0.80	0.55	1.35
Commerce	583	960	41.0	9.4	4.7	3.87	18.3	0.76	0.49	1.25
C Christi-Dry	1145	1560	41.8	9.2	4.7	3.2	19.1	0.74	0.53	1.27

LOCATION	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
College Station, TX	4.3	0.87	1.19	83.6	5.8	33.5	5.1	78.9	8.1
Weslaco, TX	4.6	0.88	1.17	83.5	5.4	32.4	5.4	77.2	7.3

Commerce, TX	4.8	0.89	1.17	83.9	5.6	33.9	5	77.1	7.7
Corpus Christi, TX	4.5	0.87	1.19	84	5.2	33.3	5.5	78.2	7.6

LOCATION	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
College Station, TX	0.83	1.04	24.7	7.32	1.27	160	6.35	0.89	199	17.5
Weslaco, TX	0.84	1.02	22.6	6.42	1.23	164	5.92	0.90	184	19.9
Commerce, TX	0.88	1.06	20.1	5.66	1.26	169	5.39	0.92	150	14.9
Corpus Christi, TX	0.91	1.09	18.4	4.94	1.29	163	6.01	0.90	182	17.6

CENTRAL REGION INDIVIDUAL LOCATION SUMMARIES

Location: College Station, TX

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1340	2259	39.0	9.32	4.91	3.59	13.3	0.48	0.36	0.84
1516	DP 1646 B2XF	1854	2539	41.6	8.00	4.65	3.72	15.7	0.51	0.53	1.04
1536	PHY 764 WRF	919	1549	37.2	10.3	4.97	3.74	17.4	0.50	0.38	0.87
1592	DG 3520 B3XF	1518	2530	37.5	11.0	5.85	3.34	22.9	0.73	0.515	1.25
1593	ST 4550 GLTP	1660	2569	41.9	8.06	5.20	3.51	14.8	0.63	0.51	1.14
1595	NG 4936 B3XF	1563	2666	38.9	8.66	5.34	3.43	14.2	0.82	0.42	1.24
1598	DP 2012 B3XF	1788	2795	39.4	8.97	4.80	3.49	17.5	0.71	0.49	1.19
1599	PHY 400 W3FE	1719	2285	40.7	9.04	4.83	3.69	22.4	0.83	0.52	1.345
	LSD	295	645	1.03	0.81	1.49	0.45	1.88	0.20	0.06	0.22

					Upper Half						
	vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
	1503	FM 1830 GLT	4.4	0.89	1.23	84.5	4.8	35.5	4.3	80.5	7.6
	1516	DP 1646 B2XF	4.5	0.88	1.20	82	7.1	30.8	5.6	79.7	8.2
	1536	PHY 764 WRF	4.1	0.88	1.17	84.2	5.6	39	4.9	76.6	8.7
	1592	DG 3520 B3XF	4	0.86	1.22	84.4	5.3	33.9	5.6	76.2	8
	1593	ST 4550 GLTP	4.6	0.88	1.16	83.5	6	32.5	5.5	78.3	8.7
	1595	NG 4936 B3XF	4.4	0.87	1.18	83.3	5.8	31.6	5.6	81.1	7.7
	1598	DP 2012 B3XF	4.5	0.88	1.20	83.1	5.7	30.9	4.6	79.2	8
	1599	PHY 400 W3FE	4.3	0.88	1.18	83.8	5.8	34.2	4.7	79.4	7.9
		LSD	0.31	0.01	0.08	2.99	3.31	1.44	0.3	1.73	0.99

				Short Fiber Content	Short Fiber Content			Immature Fiber Content			Seed Coat Number
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness		Maturity ratio	Nep Count	Count
1503	FM 1830 GLT	0.905	1.12	20.7	5.6	1.33	158	5.75	0.92	140	9.5
1516	DP 1646 B2XF	0.78	1.02	29.6	9.42	1.27	164	6.65	0.88	243	11
1536	PHY 764 WRF	0.835	1.02	22.6	6.89	1.23	156	6.54	0.89	183	25
1592	DG 3520 B3XF	0.845	1.07	24.6	6.65	1.29	156	7.14	0.86	203	19
1593	ST 4550 GLTP	0.83	1.03	22.3	6.5	1.23	159	6.25	0.89	206	26.5
1595	NG 4936 B3XF	0.745	0.99	32.2	10.3	1.23	162	6.33	0.88	333	23.5
1598	DP 2012 B3XF	0.875	1.08	22.3	6.17	1.30	166	6.02	0.91	158	17
1599	PHY 400 W3FE	0.845	1.05	23.4	7.02	1.27	160	6.17	0.9	129	8.5
	LSD	0.08	0.06	6.09	2.48	0.06	7.36	0.88	0.03	159	25.4

Location: Weslaco, TX

		Lint Yield	Seed Yield	Lint	Seed	Boll					
vcode	VARIETY	(lb/a)	(lb/a)	Percent	Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol

1503	FM 1830 GLT	914	78	42.0	8.3	4.4	3.1	15.2	0.52	0.40	0.92
1516	DP 1646 B2XF	1509	2027	42.0	7.2	3.9	2.68	17.5	0.69	0.65	1.33
1536	PHY 764 WRF	813	1193	38.8	9.3	4.5	3.1	22.7	0.72	0.56	1.28
1592	DG 3520 B3XF	822	1998	39.8	9.6	4.3	2.78	25.5	0.75	0.58	1.32
1593	ST 4550 GLTP	1467	1049	43.9	8.0	4.7	2.97	17.5	0.78	0.62	1.40
1595	NG 4936 B3XF	1178	819	39.9	8.0	4.2	2.64	16.1	0.89	0.42	1.31
1598	DP 2012 B3XF	1385	1113	41.3	8.4	4.0	2.83	19.9	1.01	0.61	1.62
1599	PHY 400 W3FE	1251	1789	41.9	8.4	4.5	2.78	23.8	1.02	0.59	1.6
	LSD	383					0.36	1.06	0.12	0.09	0.21

				Upper Half						
		Micro		Mean	Uniformity	Short		Elon		Hunters
vcode	VARIETY	naire	Maturity	Length	Index	Fiber	Strength	gation	RD	Plus b
1503	FM 1830 GLT	4.8	0.89	1.18	83.6	5.3	33.8	4.5	78.3	6.3
1516	DP 1646 B2XF	4.6	0.88	1.23	83.4	5.2	30.4	5.8	78.5	7.3
1536	PHY 764 WRF	4.5	0.88	1.14	83.3	5.7	33.9	5.2	75.4	7.7
1592	DG 3520 B3XF	4.2	0.87	1.2	84.2	5.1	32.5	6	72.4	7.4
1593	ST 4550 GLTP	4.7	0.88	1.135	83.9	5.5	32.6	5.8	75.9	7.9
1595	NG 4936 B3XF	4.7	0.88	1.165	82.6	5.5	30.9	5.7	80.8	7.4
1598	DP 2012 B3XF	4.7	0.89	1.16	83.7	5.3	31.9	4.7	77.5	7.1
1599	PHY 400 W3FE	4.6	0.88	1.165	83.2	5.9	33.1	5.4	79	7.1
	LSD	0.46	0.02	0.06	1.28	1.41	3.22	0.43	2.31	0.82

1599	PHY 400 W3FE	0.83	1.02	22.2	6.53	1.22	165	5.89	0.91	148	10
	LSD	0.07	0.06	4.29	1.79	0.07	5.71	0.70	0.03	75.8	10.4

Location: Commerce, TX

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	636	924	41.9	9.41	4.99	3.77	15.7	0.52	0.36	0.88
1516	DP 1646 B2XF	564	917	42.3	8.25	4.29	3.77	17.2	0.74	0.64	1.37
1536	PHY 764 WRF	497	960	38.2	10.6	4.80	3.95	19.9	0.70	0.5	1.20
1592	DG 3520 B3XF	508	946	39.6	11.0	4.46	3.54	24.8	0.78	0.56	1.33
1593	ST 4550 GLTP	516	732	44.1	8.53	4.26	3.97	14.7	0.65	0.44	1.09
1595	NG 4936 B3XF	640	1163	39.7	8.80	4.79	3.66	14.5	0.86	0.39	1.25
1598	DP 2012 B3XF	578	886	41.1	8.99	4.34	4.15	18.0	0.99	0.54	1.53
1599	PHY 400 W3FE	728	1150	41.5	9.73	5.24	4.13	21.3	0.88	0.47	1.34
	LSD	270	791	1.82	1.55	0.93	0.45	1.53	0.12	0.09	0.20

vcode	VARIETY	Micronaire	Maturity	Upper Half Mean	Index	Short	Strength	Elongation	RD	Hunters
				Length		Fiber				Plus b
1503	FM 1830 GLT	4.9	0.895	1.19	83.7	5.3	34.9	4.2	79.3	7
1516	DP 1646 B2XF	4.9	0.88	1.19	84	5.4	31.1	5.5	78.7	7.6
1536	PHY 764 WRF	4.6	0.885	1.14	82.8	6.8	37.7	4.8	75.9	8.4
1592	DG 3520 B3XF	4.5	0.87	1.18	84.1	5	34.5	5.9	73.9	7.7
1593	ST 4550 GLTP	5.1	0.89	1.12	84.4	6.1	34.5	5.4	75.2	8.2
1595	NG 4936 B3XF	4.8	0.885	1.19	84.2	5.5	31.1	5.4	79.8	7.5
1598	DP 2012 B3XF	5	0.89	1.19	84.1	5.3	32	4.5	77.9	7.9
1599	PHY 400 W3FE	4.8	0.89	1.2	84.4	5.7	35.4	4.8	76	7.6
	LSD	0.32	0.01	0.10	3.2	3.76	3.95	0.73	2.47	0.62

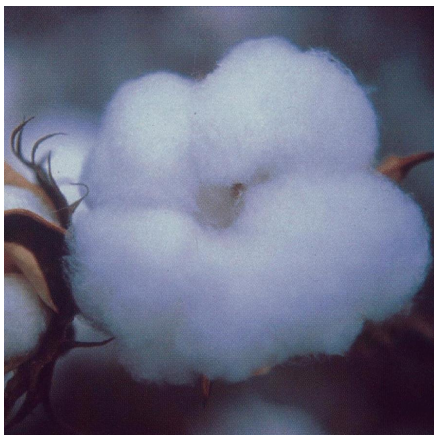
vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.9	1.08	18.4	5.1	1.28	167	4.99	0.95	142	16
1516	DP 1646 B2XF	0.875	1.07	21.3	6.22	1.28	169	5.73	0.91	170	17.5
1536	PHY 764 WRF	0.885	1.07	18.5	5.19	1.25	166	5.63	0.93	150	20.5
1592	DG 3520 B3XF	0.875	1.07	21.0	5.52	1.27	163	6.14	0.88	173	17.5
1593	ST 4550 GLTP	0.84	1.00	19.6	6	1.18	174	5.68	0.92	174	16
1595	NG 4936 B3XF	0.855	1.05	22.5	6.47	1.26	167	5.61	0.91	177	12.5
1598	DP 2012 B3XF	0.91	1.09	18.0	4.67	1.28	178	4.28	0.96	109	10
1599	PHY 400 W3FE	0.865	1.07	21.7	6.1	1.28	169	5.09	0.94	109	9.5
	0.063	0.09	3.02	1.67	0.10	11	1.36	0.04	50.8	5.91	

Location: Corpus Christi, TX

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1277	1768	41.9	8.92	4.66	3.35	16.5	0.59	0.47	1.06
1516	DP 1646 B2XF	1390	1882	43.6	7.54	4.17	2.90	15.9	0.73	0.70	1.43
1536	PHY 764 WRF	555	815	39.4	10.2	5.11	3.37	22.1	0.63	0.48	1.10
1592	DG 3520 B3XF	890	1210	40.1	10.9	5.05	2.91	25.5	0.68	0.55	1.23
1593	ST 4550 GLTP	1292	1609	44.5	9.05	4.59	3.58	16.0	0.69	0.55	1.24
1595	NG 4936 B3XF	1137	1705	41.3	8.58	4.82	3.15	15.7	0.95	0.47	1.42
1598	DP 2012 B3XF	1279	1691	41.8	8.58	4.09	3.68	17.9	0.79	0.48	1.27
1599	PHY 400 W3FE	1338	1798	42.0	9.61	4.84	3.35	23.0	0.91	0.53	1.43
	LSD	199	418	1.46	1.33	1.24	0.44	1.79	0.21	0.18	0.39

vcode	VARIETY	Micronaire	Maturity	Upper Half Mean Length	Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.6	0.88	1.21	83.9	5.3	34.6	4.9	79.3	6.5
1516	DP 1646 B2XF	4.6	0.87	1.23	83.7	4.9	30.6	6.4	80.5	7.5
1536	PHY 764 WRF	4.2	0.87	1.14	82.9	5.8	36.1	5.5	74.6	7.9
1592	DG 3520 B3XF	4.2	0.86	1.23	85.5	4.1	33.9	6.3	74.1	7.8
1593	ST 4550 GLTP	4.9	0.89	1.15	83.4	5.1	33.9	5.5	78.2	8.5
1595	NG 4936 B3XF	4.6	0.87	1.19	84.5	4.7	30.6	6	80.4	6.7
1598	DP 2012 B3XF	4.6	0.88	1.2	83.6	5.9	33	4.8	79.9	8.5
1599	PHY 400 W3FE	4.7	0.88	1.19	84.2	5.5	34.1	5	78.4	7.7
	LSD	0.15	0.01	0.05	2.69	2.08	1.61	0.37	2.37	0.75

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.93	1.12	18.0	4.70	1.33	160	5.44	0.94	154	19
1516	DP 1646 B2XF	0.89	1.08	21.1	5.95	1.31	162	6.4	0.87	192	18
1536	PHY 764 WRF	0.89	1.07	18.1	4.87	1.25	156	6.47	0.89	176	18.5
1592	DG 3520 B3XF	0.92	1.12	19.4	4.87	1.32	158	6.97	0.86	233	27
1593	ST 4550 GLTP	0.92	1.07	14.3	3.85	1.24	172	5.55	0.92	134	12.5
1595	NG 4936 B3XF	0.90	1.08	19.3	5.34	1.28	165	5.82	0.89	235	17
1598	DP 2012 B3XF	0.93	1.12	17.6	4.57	1.32	164	5.70	0.91	187	17
1599	PHY 400 W3FE	0.90	1.09	19.8	5.37	1.31	165	5.77	0.91	144	11.5
	LSD	0.08	0.07	3.33	1.51	0.08	4.08	0.38	0.02	96.4	15.7



2021 National Cotton Variety Test

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

DELTA REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

**2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR DELTA BY VARIETIES**

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield								
		(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	924	1493	39.3	9.5	5.0	3.4	15.7	0.65	0.46	1.10
1516	DP 1646 B2XF	1152	1658	41.7	8.4	4.8	3.15	18.5	0.73	0.65	1.37
1536	PHY 764 WRF	914	1414	40.5	10.9	5.2	3.62	21.6	0.65	0.50	1.15
1592	DG 3520 B3XF	1018	1804	38.0	10.8	5.7	3.4	23.6	0.69	0.51	1.20
1593	ST 4550 GLTP	990	1638	38.8	10.2	5.2	3.75	15.1	0.66	0.50	1.16
1595	NG 4936 B3XF	1077	1851	39.1	10.1	5.3	3.32	15.5	0.87	0.45	1.32
1598	DP 2012 B3XF	1168	1932	39.7	9.1	4.6	3.50	19.1	0.92	0.54	1.45
1599	PHY 400 W3FE	1086	1679	40.9	9.2	4.9	3.83	22.1	0.83	0.48	1.31
	LSD*	230	538	1.61	1.46	0.73	0.48	0.94	0.08	0.07	0.14

*LSD was calculated based on data from Keiser and Stoneville locations.

vcode	VARIETY	Micronaire	Maturity	Upper Half	Uniformity	Short Fiber	Strength	Elongation	RD	Hunters
				Mean Length	Index					Plus b
1503	FM 1830 GLT	4.2	0.87	1.26	85.1	4.1	33.0	5.1	79.6	7.2
1516	DP 1646 B2XF	4.4	0.87	1.26	84.9	4.4	31.4	6.0	78.6	7.5
1536	PHY 764 WRF	4.2	0.87	1.22	85.5	4.4	36.4	5.7	77.1	7.7
1592	DG 3520 B3XF	3.8	0.85	1.27	85.2	4.2	31.9	6.1	78.4	7.6
1593	ST 4550 GLTP	4.4	0.87	1.22	85.7	4.1	33.5	6.0	77.7	7.9
1595	NG 4936 B3XF	4.4	0.87	1.26	85.4	4.0	31.1	5.9	79.8	7.3
1598	DP 2012 B3XF	4.2	0.87	1.24	85.4	4.0	33.5	5.2	77.9	7.5
1599	PHY 400 W3FE	4.4	0.88	1.23	85.3	4.9	33.5	5.4	78.4	7.5
	LSD	0.24	0.01	0.03	0.96	0.95	2.29	0.37	1.2	0.40

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Fiber	Fiber			Fiber			
				Content	Content	Weight		Content	ratio	Count	Count
1503	FM 1830 GLT	0.92	1.11	19.3	5.53	1.33	157	5.98	0.90	178	14.8
1516	DP 1646 B2XF	0.91	1.11	20.3	5.86	1.34	160	6.39	0.88	145	12.6
1536	PHY 764 WRF	0.91	1.09	19.1	5.50	1.30	157	6.44	0.90	164	16.5
1592	DG 3520 B3XF	0.92	1.12	19.8	5.61	1.34	154	6.97	0.87	184	15.4
1593	ST 4550 GLTP	0.91	1.09	17.9	5.04	1.28	159	6.54	0.89	154	14
1595	NG 4936 B3XF	0.94	1.13	18.7	5.14	1.34	160	6.30	0.89	159	16.9
1598	DP 2012 B3XF	0.93	1.11	17.8	4.88	1.31	162	6.14	0.90	127	9.63
1599	PHY 400 W3FE	0.91	1.10	18.7	5.28	1.30	162	5.95	0.91	130	10.8
	LSD	0.03	0.03	2.61	0.93	0.02	6.01	0.51	0.02	33.9	6.38

DELTA REGION SUMMARY BY LOCATION SITES

LOCATION	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
	Yield	Yield			Size					
	(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
Keiser, AR	1266	1648	44.3	9	4.2	3.50	18.9	0.75	0.51	1.26
Portageville, MO	1230	2086	36.9	10.6	6	.	.	.	.	.
Stoneville, MS	628	914	40.9	.	.	.	.	.	.	.

LOCATION	micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
Stoneville, MS	4.2	0.87	1.24	84.7	4.8	33.4	5.4	72.1	7.1
Jackson, TN	4.2	0.86	1.24	85.7	3.7	33.6	6.3	83.3	8.3
Portageville, MO	4.6	0.88	1.27	85.7	3.7	32.5	5.7	79.1	7.6
Keiser, AR	4.1	0.87	1.23	85.1	4.8	32.5	5.4	79.3	7.1

LOCATION	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
Stoneville, MS	0.86	1.08	23.7	7.02	1.32	156	6.50	0.88	205	20.8
Jackson, TN	0.96	1.13	15.8	4.23	1.32	160	6.58	0.88	112	9.3
Portageville, MO	0.95	1.14	18.2	4.90	1.36	164	5.82	0.91	169	11.5
Keiser, AR	0.90	1.08	18.1	5.27	1.28	156	6.47	0.89	135	13.7

DELTA REGION INDIVIDUAL LOCATION SUMMARIES

Location: Jackson, TN*

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	.	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.
1536	PHY 764 WRF	.	.	.	.	.	.	.	.	.	.
1592	DG 3520 B3XF	.	.	.	.	.	.	.	.	.	.
1593	ST 4550 GLTP	.	.	.	.	.	.	.	.	.	.
1595	NG 4936 B3XF	.	.	.	.	.	.	.	.	.	.
1598	DP 2012 B3XF	.	.	.	.	.	.	.	.	.	.
1599	PHY 400 W3FE	.	.	.	.	.	.	.	.	.	.

* Data are missing due to the laboratory closure during the COVID pandemic periods.

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.1	0.87	1.26	85.6	3.5	34.7	5.3	85.3	7.8
1516	DP 1646 B2XF	4.4	0.86	1.27	85.5	3.3	31.0	7.0	83.9	8.5
1536	PHY 764 WRF	4.0	0.86	1.21	85.6	3.8	37.6	6.5	81.7	8.6
1592	DG 3520 B3XF	3.6	0.84	1.27	86.4	3.2	33.7	6.9	82.7	8.5
1593	ST 4550 GLTP	4.5	0.87	1.18	85.3	4.1	33.7	7.0	81.9	8.7
1595	NG 4936 B3XF	4.4	0.87	1.26	86.7	3.3	31.4	6.8	84.6	7.4
1598	DP 2012 B3XF	4.3	0.87	1.23	84.7	4.2	33.2	5.6	84.1	8.2
1599	PHY 400 W3FE	4.4	0.87	1.23	86.2	4.0	34.0	5.8	82.6	8.7
	LSD	0.54	0.01	0.05	1.25	1.12	2.55	0.26	0.97	0.45

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content	Short Fiber Content	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number
				Number	Weight						Count
1503	FM 1830 GLT	0.99	1.15	15.0	3.87	1.36	158	6.17	0.91	111	5
1516	DP 1646 B2XF	0.96	1.13	16.4	4.42	1.34	163	6.70	0.86	124	10
1536	PHY 764 WRF	0.92	1.09	16.8	4.67	1.27	153	7.17	0.87	98	9.5
1592	DG 3520 B3XF	0.99	1.16	15.1	3.90	1.36	157	7.02	0.86	115	9
1593	ST 4550 GLTP	0.95	1.10	14.4	3.87	1.26	163	6.72	0.88	106	13
1595	NG 4936 B3XF	1.00	1.18	15.5	3.89	1.38	161	6.79	0.87	144	17.5
1598	DP 2012 B3XF	0.96	1.13	15.3	4.05	1.31	165	6.08	0.90	94	4
1599	PHY 400 W3FE	0.92	1.10	18.2	5.2	1.31	163	6.00	0.9	105	6.5
	LSD	0.06	0.05	4.53	1.52	0.05	12.7	1.11	0.04	59.1	18.4

Location: Portageville, MO

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)					
1503	FM 1830 GLT	1047	1901	35.3	10.5	6.1	.	.	.	.	.
1516	DP 1646 B2XF	1449	2136	40.4	9.1	5.5	.	.	.	.	.
1536	PHY 764 WRF	1058	1640	38.8	11.6	6.0	.	.	.	.	.
1592	DG 3520 B3XF	1131	2167	34.3	11.4	7.0	.	.	.	.	.
1593	ST 4550 GLTP	1061	1954	34.8	11.4	6.1	.	.	.	.	.
1595	NG 4936 B3XF	1245	2199	36.1	10.8	6.2	.	.	.	.	.
1598	DP 2012 B3XF	1481	2536	36.9	9.9	5.1	.	.	.	.	.
1599	PHY 400 W3FE	1364	2158	38.7	9.8	5.6	.	.	.	.	.
	LSD	323	465	2.38	2.78	0.54					

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.7	0.88	1.32	85.5	2.9	31.5	5.8	79.3	7.6
1516	DP 1646 B2XF	4.6	0.88	1.27	84	4.6	30.1	5.7	79.5	7.1
1536	PHY 764 WRF	4.5	0.88	1.24	85.8	4.2	37.1	6	79	8.3
1592	DG 3520 B3XF	4.0	0.86	1.35	85.8	2.7	32.2	6.4	78.3	7.5
1593	ST 4550 GLTP	4.6	0.88	1.23	87	3.9	34.3	6.2	77.8	8.1
1595	NG 4936 B3XF	4.6	0.88	1.30	86.2	3.2	29.7	5.6	80.6	7.4
1598	DP 2012 B3XF	4.6	0.88	1.27	86.3	3.5	33.2	4.7	78.3	7.3
1599	PHY 400 W3FE	4.8	0.89	1.24	85.3	5	32.4	5.1	79.8	7.7
	LSD	0.48	0.01	0.05	2.06	1.5	5.36	1.13	2.17	0.62

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number
1503	FM 1830 GLT	0.95	1.16	19.3	5.08	1.39	164	5.57	0.92	247	22
1516	DP 1646 B2XF	0.94	1.14	19.2	5.45	1.38	165	5.72	0.91	103	7
1536	PHY 764 WRF	0.96	1.14	17.6	4.63	1.35	163	5.63	0.92	210	13.5
1592	DG 3520 B3XF	1.00	1.20	17.3	4.33	1.42	158	6.79	0.89	180	11
1593	ST 4550 GLTP	0.92	1.10	19.0	5.25	1.30	161	6.55	0.91	207	13
1595	NG 4936 B3XF	0.97	1.16	17.8	4.72	1.38	164	5.79	0.91	171	14.5
1598	DP 2012 B3XF	0.96	1.14	17.2	4.64	1.34	168	5.23	0.94	87.5	5
1599	PHY 400 W3FE	0.93	1.11	18.4	5.09	1.31	167	5.27	0.93	148	6
	LSD	0.07	0.05	5.00	1.56	0.06	16.2	0.99	0.04	67	10.3

Location: Keiser, AR

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1165	1452	44.7	8.5	3.9	3.4	15.7	0.65	0.46	1.1
1516	DP 1646 B2XF	1485	1732	46.0	7.7	4.1	3.15	18.5	0.73	0.65	1.37
1536	PHY 764 WRF	964	1278	42.8	10.1	4.4	3.62	21.6	0.65	0.50	1.15
1592	DG 3520 B3XF	1295	1915	42.0	10.2	4.4	3.4	23.6	0.69	0.51	1.20
1593	ST 4550 GLTP	1272	1560	45.8	9	4.3	3.75	15.1	0.66	0.50	1.16
1595	NG 4936 B3XF	1325	1895	42.8	9.3	4.4	3.32	15.5	0.87	0.45	1.32
1598	DP 2012 B3XF	1329	1751	43.9	8.2	4.1	3.50	19.1	0.92	0.54	1.45
1599	PHY 400 W3FE	1290	1601	46.1	8.6	4.3	3.83	22.1	0.83	0.48	1.31
	LSD	196	387	1.22	1.4	0.73	0.47	0.86	0.08	0.06	0.13

vcode	VARIETY	Micronaire	Maturity	Upper Half		Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length							
1503	FM 1830 GLT	4	0.865	1.25		85.5	4.4	33.7	4.6	82.0	6.8
1516	DP 1646 B2XF	4.5	0.87	1.26		85.4	4.4	29.0	6.0	80.3	6.8
1536	PHY 764 WRF	3.9	0.86	1.24		86.1	4.3	38.6	5.4	76.9	7.3
1592	DG 3520 B3XF	3.4	0.845	1.22		84.0	6.3	31.5	5.8	79.2	7.5
1593	ST 4550 GLTP	4.3	0.87	1.16		85.0	5.2	33.0	5.8	79.0	7.9
1595	NG 4936 B3XF	4.2	0.87	1.25		84.4	4.3	29.5	5.5	80.4	6.9
1598	DP 2012 B3XF	4.1	0.87	1.23		85.7	4.3	32.1	4.9	78.6	6.7
1599	PHY 400 W3FE	4.1	0.87	1.22		85.0	5.4	32.7	5.2	78.1	7.0
	LSD	0.29	0.01	0.06		2.49	1.98	3.13	0.47	3.42	1.1

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.91	1.09	18.0	5.3	1.3	149	6.20	0.9	143	9.5
1516	DP 1646 B2XF	0.90	1.10	21.0	6.07	1.34	156	6.57	0.88	137	12.5
1536	PHY 764 WRF	0.91	1.08	17.1	5.03	1.27	154	6.68	0.90	159	24
1592	DG 3520 B3XF	0.88	1.07	20.8	6.17	1.28	148	7.54	0.85	189	20
1593	ST 4550 GLTP	0.89	1.04	16.3	4.99	1.21	160	6.47	0.89	128	12
1595	NG 4936 B3XF	0.93	1.10	17.0	4.70	1.29	159	6.35	0.89	130	15
1598	DP 2012 B3XF	0.91	1.07	16.4	4.65	1.26	162	5.93	0.91	96.5	8
1599	PHY 400 W3FE	0.91	1.09	18.2	5.25	1.29	160	6.00	0.91	100	8.5
	LSD	0.07	0.06	4.60	1.63	0.06	8.09	0.73	0.02	58.7	8.84

Location: Stoneville, MS

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)								
1503	FM 1830 GLT	561	718	41.9	.	.	.	.	.	.	.
1516	DP 1646 B2XF	520	627	40.1	.	.	.	.	.	.	.
1536	PHY 764 WRF	721	1098	41.5	.	.	.	.	.	.	.
1592	DG 3520 B3XF	628	968	41.4	.	.	.	.	.	.	.
1593	ST 4550 GLTP	636	1086	39.8	.	.	.	.	.	.	.
1595	NG 4936 B3XF	661	1112	41.5	.	.	.	.	.	.	.
1598	DP 2012 B3XF	694	905	40.9	.	.	.	.	.	.	.
1599	PHY 400 W3FE	603	799	39.9	.	.	.	.	.	.	.
	LSD	715	1019	3.92							

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.1	0.86	1.18	81.7	7.9	32.1	6.7	69.4	6.8
1516	DP 1646 B2XF	4.6	0.87	1.21	83.3	5.7	33.8	7.2	69.4	6.7
1536	PHY 764 WRF	4.8	0.88	1.15	83.5	6.8	32.5	6.3	68.2	6.3
1592	DG 3520 B3XF	5.0	0.89	1.20	84.1	5.6	31.0	6.3	73.4	6.8
1593	ST 4550 GLTP	4.6	0.88	1.17	81.4	8.0	30.3	6.5	70.5	6.7
1595	NG 4936 B3XF	5.0	0.88	1.15	82.7	7.2	31.4	7.1	70.1	7.0
1598	DP 2012 B3XF	4.7	0.88	1.16	82.8	6.5	33.2	6.1	68.2	7.3
1599	PHY 400 W3FE	4.6	0.87	1.17	83.5	7.6	33.3	7.1	67.7	7.1
	LSD	0.76	0.03	0.09	2.65	3.24	7.78	1.14	4.1	1.16

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.83	1.05	25.0	7.89	1.29	156	6.00	0.89	212	22.5
1516	DP 1646 B2XF	0.85	1.06	24.7	7.50	1.30	157	6.58	0.88	219	21
1536	PHY 764 WRF	0.84	1.07	25.1	7.65	1.31	158	6.30	0.90	191	19
1592	DG 3520 B3XF	0.83	1.06	26.2	8.05	1.32	156	6.54	0.87	252	21.5
1593	ST 4550 GLTP	0.91	1.12	21.9	6.04	1.37	155	6.44	0.89	178	18
1595	NG 4936 B3XF	0.86	1.08	24.4	7.27	1.31	157	6.29	0.88	192	20.5
1598	DP 2012 B3XF	0.89	1.11	22.5	6.20	1.34	152	7.32	0.87	228	21.5
1599	PHY 400 W3FE	0.91	1.11	20.2	5.57	1.32	160	6.53	0.90	169	22
	LSD	0.10	0.07	8.26	3.14	0.06	15.6	1.58	0.05	110	18.8



2021 National Cotton Variety Test

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WESTERN REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

**2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR WESTERN BY VARIETIES**

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	oil	Plus	Minus	Free
		Yield	Yield			Size			Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM 1830 GLT	1511	1959	.	9.44	6.04	.	8.02	9.95	0.56	0.86
1516	DP 1646 B2XF	1553	2023	.	8.23	5.22	.	16.1	0.58	0.50	1.08
1536	PHY 764 WRF	1474	1952	.	10.4	5.74	.	11.1	10.9	0.42	1.00
1592	DG 3520 B3XF	1035	1507	.	10.7	5.49	.	12.6	11.0	0.46	1.11
1593	ST 4550 GLTP	1597	1856	.	9.03	5.82	.	9.50	7.85	0.51	1.17
1595	NG 4936 B3XF	1478	2125	.	9.63	5.76	.	8.17	8.24	0.67	0.87
1598	DP 2012 B3XF	1787	2341	.	8.37	4.89	.	10.0	9.62	0.46	1.27
1599	PHY 400 W3FE	1855	2259	.	9.26	5.48	.	12.1	10.4	0.62	0.99
	LSD	225	309		0.32	0.97		1.91			

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.1	0.87	1.19	82.6	5.9	32.0	4.6	79.7	8.5
1516	DP 1646 B2XF	4.2	0.87	1.22	83.0	6.0	30.6	5.8	79.1	8.9
1536	PHY 764 WRF	4.2	0.87	1.19	84.3	5.2	36.9	5.2	77.4	9.5
1592	DG 3520 B3XF	3.6	0.85	1.24	84.4	4.7	32.1	6.1	77.4	8.9
1593	ST 4550 GLTP	4.5	0.87	1.17	83.9	5.5	32.3	5.9	76.9	9.6
1595	NG 4936 B3XF	4.4	0.87	1.21	84.3	5.6	30.0	5.8	80.0	8.8
1598	DP 2012 B3XF	4.3	0.87	1.18	83.1	6.4	30.0	4.7	79.0	9.3
1599	PHY 400 W3FE	4.5	0.88	1.16	82.3	7.5	32.7	5.0	78.4	8.8
	LSD	0.41	0.01	0.04	1.45	1.32	1.82	0.30	1.56	0.39

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.82	1.03	25.1	8.22	1.27	157	6.40	0.90	207	19.3
1516	DP 1646 B2XF	0.80	1.02	27.2	9.15	1.28	161	6.71	0.87	215	13.8
1536	PHY 764 WRF	0.84	1.03	22.5	7.24	1.24	162	6.49	0.90	195	24.8
1592	DG 3520 B3XF	0.85	1.07	25.0	7.71	1.31	156	7.52	0.85	247	21.3
1593	ST 4550 GLTP	0.80	0.99	24.5	8.11	1.21	166	6.42	0.89	188	18.3
1595	NG 4936 B3XF	0.82	1.03	26.1	8.58	1.27	168	6.50	0.89	214	25.3
1598	DP 2012 B3XF	0.80	1.00	25.9	8.47	1.23	170	5.93	0.91	147	13.8
1599	PHY 400 W3FE	0.77	0.98	28.5	9.69	1.22	172	6.05	0.92	147	13.0
	LSD	0.04	0.04	2.72	1.31	0.05	8.69	0.74	0.03	62.1	7.07

WESTERN REGION SUMMARY BY LOCATION SITES

LOCATION	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
Five Point, CA	1855	2458	.	9.6	5.64	.	16.5	0.68	0.45	1.14
Las Cruces, NM	1218	1548	.	9.27	5.47	.	5.42	18.7	0.91	0.52

			Upper Half							
	LOCATION	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
	Five Point, CA	4.0	0.87	1.21	83.3	5.5	32.3	5.1	71.8	9.1
	Las Cruces, NM	4.1	0.86	1.20	83.6	6.0	29.9	5.9	82.3	8.8
	Maricopa, AZ	4.6	0.88	1.18	83.5	6.1	34.0	5.1	81.3	9.2

			Short Fiber	Short Fiber			Immature			Seed Coat
	Length	Length	Content	Content			Fiber	Maturity	Nep	Number
LOCATION	Number	Weight	Number	Weight	UQL wt.	Fineness	Content	ratio	Count	Count
Five Point, CA	0.80	1.03	28.1	8.89	1.27	156	7.30	0.88	239	24.9
Las Cruces, NM	0.81	1.00	24.6	8.68	1.24	165	6.59	0.88	163	15.9
Maricopa, AZ	0.83	1.02	24.1	7.62	1.24	170	5.62	0.91	184	15.4

WESTERN REGION INDIVIDUAL LOCATION SUMMARIES

Location: Five Points, CA

		Lint	Seed			Boll					
		Yield	Yield	Lint	Seed	Size			Plus	Minus	Free
vcode	VARIETY	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	1879	25001	.	9.3	5.87	3.66	12.3	0.58	0.41	0.99
1516	DP 1646 B2XF	1958	2528	.	8.6	5.39	3.56	14.2	0.58	0.50	1.08
1536	PHY 764 WRF	1673	2313	.	10.6	5.83	3.75	18.6	0.58	0.42	1.00
1592	DG 3520 B3XF	1326	1966	.	10.8	5.58	3.66	21.8	0.65	0.46	1.12
1593	ST 4550 GLTP	1851	2138	.	9.2	5.80	4.32	15.0	0.66	0.51	1.17
1595	NG 4936 B3XF	1721	2594	.	9.5	5.92	3.56	13.0	0.83	0.43	1.26
1598	DP 2012 B3XF	2167	2928	.	9.2	5.02	3.84	16.5	0.82	0.46	1.27
1599	PHY 400 W3FE	2263	2696	.	9.6	5.70	4.28	20.5	0.78	0.45	1.23
	LSD	229	269		1.67	0.33	0.49	1.80	0.09	0.09	0.17

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	3.8	0.87	1.24	83.7	4.4	32.6	4.4	71.5	8.3
1516	DP 1646 B2XF	4.1	0.87	1.24	83.1	5.1	31.9	5.4	73.6	9
1536	PHY 764 WRF	4.0	0.87	1.21	83.6	5.5	37.8	5.1	71.5	9.5
1592	DG 3520 B3XF	3.2	0.84	1.24	84.7	4.4	31.8	5.8	69.6	8.6
1593	ST 4550 GLTP	4.2	0.87	1.18	84.1	5.2	31.8	5.8	68.5	9.6
1595	NG 4936 B3XF	4.3	0.87	1.21	83.6	5.3	30.9	5.5	74.2	9.2
1598	DP 2012 B3XF	3.9	0.87	1.21	82.8	6.0	30.7	4.5	72.6	9.2
1599	PHY 400 W3FE	4.4	0.88	1.16	81.0	7.9	31.0	4.7	73.0	9.2
	LSD	1.15	0.04	0.08	2.58	2.63	4.6	0.42	4.27	0.44

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight			Fiber Content			Number Count
1503	FM 1830 GLT	0.81	1.05	28.5	9.03	1.31	145	7.77	0.88	291	22.5
1516	DP 1646 B2XF	0.79	1.03	29.1	9.60	1.29	156	7.17	0.88	219	20
1536	PHY 764 WRF	0.84	1.05	24.3	7.38	1.28	154	7.35	0.89	269	39
1592	DG 3520 B3XF	0.80	1.05	30.1	9.30	1.3	147	8.57	0.84	348	33
1593	ST 4550 GLTP	0.80	1.01	25.9	8.20	1.23	152	7.40	0.86	274	28
1595	NG 4936 B3XF	0.83	1.05	26.2	8.10	1.29	165	7.15	0.90	207	25
1598	DP 2012 B3XF	0.78	1.02	30.0	9.52	1.26	163	6.90	0.91	165	16
1599	PHY 400 W3FE	0.76	0.99	30.7	9.99	1.23	168	6.07	0.92	139	15.5
	LSD	0.07	0.07	4.77	2.58	0.08	21	1.48	0.06	177	18.7

Location: Las Cruces, NM

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	1143	1418	44.6	9.5	6.2	3.71	19.3	.	0.87	0.61
1516	DP 1646 B2XF	1148	1518	43.0	8.0	5.1	3.49	18.1	.	.	.
1536	PHY 764 WRF	1275	1591	44.5	10.2	5.7	3.64	21.2	.	.	.
1592	DG 3520 B3XF	744	1048	41.8	10.7	5.4	3.43	21.4	.	.	.
1593	ST 4550 GLTP	1344	1574	46.0	9.0	5.8	3.98	15.1	.	.	.
1595	NG 4936 B3XF	1236	1655	43.4	9.7	5.6	3.29	15.7	.	0.9	0.49
1598	DP 2012 B3XF	1407	1755	44.6	8.0	4.8	3.58	18.4	.	.	.
1599	PHY 400 W3FE	1447	1821	44.3	9.1	5.3	3.69	20.0	.	0.97	0.51
	LSD	412	566	2.75	1.26	0.53	0.72	3.78			

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.0	0.87	1.23	83.0	6	30.1	5.1	85.6	8.1
1516	DP 1646 B2XF	4.0	0.85	1.20	82.8	6.6	27.8	6.5	81.7	8.6
1536	PHY 764 WRF	4.1	0.87	1.23	85.2	4.5	33.7	5.6	81	9.6
1592	DG 3520 B3XF	3.4	0.84	1.25	84.0	4.5	29.8	6.6	82	9.1
1593	ST 4550 GLTP	4.3	0.87	1.16	84.2	5.8	30.2	6.4	82.1	9.4
1595	NG 4936 B3XF	4.3	0.87	1.22	84.9	5.7	28.4	6.3	82.1	8.3
1598	DP 2012 B3XF	4.4	0.87	1.16	82.8	6.7	28.0	5.3	82	9.1
1599	PHY 400 W3FE	4.4	0.88	1.14	82.1	8.2	31.2	5.3	81.9	8.6
	LSD	0.55	0.02	0.1	3.02	2.86	3.01	0.81	2.20	0.88

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.84	1.04	24.6	8.38	1.3	151	6.73	0.87	181	21.5
1516	DP 1646 B2XF	0.79	1.00	27.4	9.72	1.26	160	7.04	0.85	230	13.5
1536	PHY 764 WRF	0.85	1.02	21.1	7.32	1.24	169	6.25	0.89	118	21
1592	DG 3520 B3XF	0.87	1.07	22.0	7.05	1.32	155	7.57	0.83	186	15.5
1593	ST 4550 GLTP	0.80	0.97	24.2	8.77	1.19	172	6.39	0.90	119	12
1595	NG 493 6B3XF	0.79	1.00	26.9	9.75	1.24	166	6.84	0.86	208	22
1598	DP 2012 B3XF	0.80	0.98	23.7	8.37	1.20	176	5.67	0.91	134	13
1599	PHY 400 W3FE	0.77	0.96	26.9	10.1	1.19	175	6.25	0.92	126	9
	LSD	0.09	0.08	5.62	2.78	0.09	13	1.49	0.04	56.8	8.21

Location: Maricopa, AZ*

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Oil	Nitr ogen	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT										
1516	DP 1646 B2XF										
1536	PHY 764 WRF										
1592	DG 3520 B3XF										
1593	ST 4550 GLTP										
1595	NG 4936 B3XF										
1598	DP 2012 B3XF										
1599	PHY 400 W3FE										

*Data are missing due to the laboratory closure during the COVID pandemic periods.

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.6	0.885	1.11	81.2	7.5	33.2	4.4	82.1	9.1
1516	DP 1646 B2XF	4.6	0.88	1.21	83.0	6.5	32.0	5.5	81.9	9.2
1536	PHY 764 WRF	4.4	0.88	1.14	84.2	5.6	39.2	5.0	79.6	9.4
1592	DG 3520 B3XF	4.1	0.86	1.22	84.7	5.2	34.8	5.9	80.6	9.0
1593	ST 4550 GLTP	5.0	0.89	1.16	83.3	5.6	34.8	5.6	80.0	9.7
1595	NG 4936 B3XF	4.6	0.88	1.22	84.4	5.7	30.8	5.6	83.6	8.8
1598	DP 2012 B3XF	4.6	0.88	1.18	83.6	6.5	31.2	4.4	82.5	9.5
1599	PHY 400 W3FE	4.8	0.89	1.18	83.9	6.4	36.1	5.0	80.2	8.7
	LSD	0.40	0.01	0.06	2.58	2.01	2.75	0.42	1.78	0.80

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.83	0.995	22.3	7.25	1.20	176	4.69	0.96	149	14
1516	DP 1646 B2XF	0.83	1.04	25.2	8.12	1.29	167	5.92	0.90	197	8
1536	PHY 764 WRF	0.83	1.01	22.0	7.03	1.21	164	5.87	0.91	199	14.5
1592	DG 3520 B3XF	0.87	1.08	22.9	6.78	1.31	165	6.43	0.88	208	15.5
1593	ST 4550 GLTP	0.82	1.00	23.6	7.37	1.20	175	5.47	0.92	171	15
1595	NG 4936 B3XF	0.83	1.04	25.1	7.90	1.27	172	5.52	0.91	228	29
1598	DP 2012 B3XF	0.82	1.01	24.0	7.54	1.23	172	5.22	0.93	142	12.5
1599	PHY 400 W3FE	0.79	1.01	28.0	8.97	1.24	172	5.84	0.92	178	14.5
	LSD	0.07	0.07	5.86	2.30	0.09	14.8	1.26	0.04	82.8	11.1



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PIMA REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

**2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR PIMA BY VARIETIES**

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1532	PHY 881 RF	540	822		13.6	4.1	3.97	20.1	0.53	0.58	1.11
1579	DP 341 RF	217	324		12.7	4.5	4.04	21.4	.	.	.
1597	DP 359 RF	723	1095		13.5	3.9	3.87	21.0	0.47	0.51	0.98
1611	DP 347 RF	635	881		10.6	4.0	3.97	21.5	0.52	0.55	1.07
1625	PHY 807 RF	892	1365		12.9	3.6	3.9	19.2	0.6	0.65	1.24
	LSD	131	1087		1.31	0.35	0.21	1.05	0.07	0.09	0.16

Upper Half										
vcode	VARIETY	Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1532	PHY 881 RF	4.4	0.88	1.49	87.6	2.5	47.2	5.4	66.2	11.6
1579	DP 341 RF	4	0.87	1.38	86.8	2.8	42.2	5.7	76.9	10.1
1597	DP 359 RF	4.4	0.88	1.43	85.7	2.5	46.7	5.4	65.2	12.1
1611	DP 347 RF	4.4	0.88	1.36	86.0	3.3	42.2	5.4	67.8	11.5
1625	PHY 807 RF	4.2	0.88	1.39	86.8	2.6	47.7	5.3	63.2	12.1
	LSD	0.53	0.02	0.11	2.15	1.48	6.40	0.30	5.29	1.61

				Short	Short					Seed	
				Fiber	Fiber					Coat	
				Content	Content					Number	
vcode	VARIETY	Length	Length	Number	Weight	UQL wt.	Fineness	Immature	Maturity	Nep	Number
		Number	Weight					Fiber	ratio	Count	Count
1532	PHY 881 RF	0.97	1.23	22.4	5.71	1.52	143	6.24	0.92	139	12
1579	DP 341 RF	0.94	1.15	20.3	6.04	1.39	151	5.87	0.91	123	8
1597	DP 359 RF	0.94	1.2	23.2	5.92	1.47	145	5.68	0.93	130	13.8
1611	DP 347 RF	0.92	1.16	23.4	6.63	1.43	144	5.82	0.91	132	18
	LSD	0.16	0.12	10.4	3.64	0.12	10.2	1.01	0.03	48	11.6

PIMA REGION SUMMARY BY LOCATION SITES

	Lint	Seed			Boll					
	Yield	Yield	Lint	Seed	Size			Plus	Minus	Free
LOCATION	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
Five Point, CA	896	1349		13.4	3.78	3.92	20.1	0.53	0.57	1.1
Las Cruces, NM	330	472		12.2	4.27	3.96	21.4	.	.	.
				Upper Half	Uniformity					
LOCATION		Micronaire	Maturity	Mean Length	Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
Five Point, CA		4.4	0.88	1.44	86.3	2.6	47	5.3	61.2	12.2
Las Cruces, NM		4.3	0.87	1.39	86.7	2.9	43.5	5.6	73.5	10.9
			Short	Short			Immature			Seed
	Length	Length	Fiber	Fiber			Fiber	Maturity	Nep	Coat
LOCATION	Number	Weight	Content	Content	UQL wt.	Fineness	Content	ratio	Count	Number
Five Point, CA	0.903	1.19	26.3	6.92	1.48	141	6.00	0.92	132	18.5
Las Cruces, NM	0.976	1.19	18.8	5.13	1.43	149	5.72	0.92	129	9.88

PIMA REGION – INDIVIDUAL LOCATION SUMMARIES

Location: Five Points, CA

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll		Oil	Plus	Minus	Free
		Yield	Yield			Size	Nitrogen		Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1532	PHY 881 RF	891	1359		14.3	4.0	3.87	19.5	0.53	0.58	1.11
1579	DP 341 RF	941	1470		13.6	3.8	4.01	20.7	0.47	0.51	0.98
1597	DP 359 RF	861	1200		12.7	3.7	3.93	20.9	0.52	0.55	1.07
1611	DP 347 RF	892	1365		12.9	3.6	3.9	19.2	0.60	0.65	1.24
	LSD	163	248		2.19	0.39	0.27	1.71	0.04	0.06	0.10

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1532	PHY 881 RF	4.3	0.88	1.51	88	2.5	46.7	5.2	61.4	11.9
1579	DP 341 RF	4.4	0.885	1.45	84.6	2.5	48.5	5.4	59.6	12.4
1597	DP 359 RF	4.5	0.885	1.41	86.1	2.6	45.3	5.2	60.4	12.6
1611	DP 347 RF	4.2	0.875	1.39	86.8	2.6	47.7	5.3	63.2	12.1
	LSD	1.16	0.03	0.03	1.70	0.00	5.18	0.34	3.24	1.60

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber	ratio	Count	Coat
				Content	Content			Content			Number
1532	PHY 881 RF	0.9	1.22	27.9	7.22	1.54	140	6.27	0.92	143	18.5
1579	DP 341 RF	0.87	1.17	28.6	7.73	1.47	142	6.1	0.92	149	19.5
1597	DP 359 RF	0.9	1.19	26.5	7.09	1.48	140	6.12	0.91	114	18
1611	DP 347 RF	0.94	1.2	22.4	5.64	1.46	145	5.54	0.94	123	18
	LSD	0.14	0.11	9.17	3.52	0.092	17	2.13	0.08	46	11.7

Location: Las Cruces, NM

vcode	VARIETY	Lint	Seed			Boll			Plus	Minus	Free
		Yield	Yield	Lint	Seed	Size	Nitr	Oil	Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)	ogen				
1532	PHY 881 RF	189	285		13.2	4.2	4.07	20.8	.	.	.
1579	DP 341 RF	217	324		12.7	4.5	4.04	21.3	.	.	.
1597	DP 359 RF	505	719		13.3	4.1	3.74	21.3	.	.	.
1611	DP 347 RF	408	563		9.6	4.3	4.01	22.1	.	.	.
	LSD	198	273	3.17	0.92	1.95					

vcode	VARIETY	Upper Half				Short Fiber	Strength	Elongation	RD	Hunters Plus b
		Micronaire	Maturity	Mean Length	Uniformity Index					
1532	PHY 881 RF	4.4	0.88	1.47	87.2	2.5	47.7	5.5	71.1	11.3
1579	DP 341 RF	4.0	0.87	1.38	86.8	2.8	42.2	5.7	76.9	10.1
1597	DP 359 RF	4.3	0.88	1.4	86.9	2.6	45.0	5.5	70.8	11.9
1611	DP 347 RF	4.3	0.87	1.32	85.9	3.9	39.1	5.6	75.1	10.4
	LSD	0.28	0.01	0.25	3.88	2.81	12.3	0.57	16.1	3.66

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature	Maturity ratio	Nep	Seed Coat
				Content	Content			Fiber		Count	Number
				Number	Weight			Content			Count
1532	PHY 881 RF	1.03	1.24	16.8	4.20	1.51	147	6.22	0.92	135	5.5
1579	DP 341 RF	0.94	1.15	20.3	6.04	1.39	151	5.87	0.91	123	8
1597	DP 359 RF	1.00	1.22	17.8	4.12	1.47	149	5.27	0.94	111	8
1611	DP 347 RF	0.94	1.14	20.2	6.17	1.37	149	5.53	0.91	149	18
	LSD	0.39	0.40	15.1	7.78	0.41	20.3	1.12	0.05	103	17.7



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REGIONAL HIGH QUALITY

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

2021 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR REGIONAL HIGH QUALITY BY VARIETIES

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size			Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1516	DP 1646 B2XF	1126	1621	42.4	8.4	4.9	3.60	16.5	0.71	0.53	1.24
1536	PHY 764 WRF	745	1161	39.3	10.3	4.9	3.48	19.3	0.63	0.45	1.08
1587	NM 18B1593	955	1515	39.4	9.4	5.0	3.79	17.6	0.66	0.43	1.10
1599	PHY 400 W3FE	1173	1586	44.0	9.5	4.9	3.43	20.3	0.82	0.47	1.29
1601	ST 4990 B3XF	1109	1717	39.9	9.5	4.8	3.34	16.5	0.99	0.53	1.52
1603	TAM 14H-11	795	1448	35.0	11.9	5.8	3.34	20.9	0.74	0.53	1.27
1612	DP 1948 B3XF	917	1411	41.2	8.7	4.8	3.34	17.2	0.69	0.51	1.20
1613	FM 1730 GLTP	871	1407	39.4	9.6	4.9	3.52	18.1	0.66	0.46	1.12
1614	PHY 332 W3FE	1182	1739	41.9	9.7	5.0	3.43	17.8	0.87	0.57	1.44
1615	PHY 390 W3FE	1157	1658	42.4	9.2	4.6	3.50	20.6	0.79	0.49	1.28
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	714	1195	37.8	11.4	5.1	3.50	21.7	0.83	0.6	1.43
1617		704	1240	35.5	12.2	5.6	3.58	19.2	0.66	0.48	1.14
1618	NM 18B1592	940	1620	37.6	10.3	5.2	3.61	17.3	0.69	0.48	1.17
1619	ARK 1319-59	1171	1869	39.6	10.2	5.5	3.62	19.2	0.89	0.57	1.46
1620	ARK 1303-29	1059	1662	39.9	10.8	5.6	3.50	19.1	0.7	0.48	1.18
1621	ARK 1311-26	1001	1409	41.8	9.9	5.3	3.85	15.9	0.69	0.41	1.09
1622	LA 17063090	797	1325	37.8	10.4	5.1	3.64	16.7	0.78	0.45	1.23
1623	LA 17063008	708	1218	37.5	11.1	5.7	3.59	18.9	0.99	0.61	1.60
1624	LA 16063006	866	1238	42.4	9.5	5.2	3.72	16.2	0.7	0.5	1.19
	LSD*	110	214	0.79	0.43	0.55	0.26	1.76			

*LSD was calculated based on three locations, Lubbock, Florence, and Keiser.

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
				Mean Length								
1516	DP 1646 B2XF	4.3	0.87	1.24	84.4	4.6	31.5	5.9	81.2	8	13.6	71.9
1536	PHY 764 WRF	4	0.86	1.19	84.5	5.1	37.1	5.6	79.8	8.5	14.9	78.8
1587	NM 18B1593	4.3	0.87	1.19	84.3	5.0	34.9	5.2	79.8	8.2	4.3	78.6
1599	PHY 400 W3FE	4.4	0.87	1.18	84.5	5.5	33.6	5.3	80.4	7.9	14.4	78.4
1601	ST 4990 B3XF	4.5	0.87	1.19	84.9	5.0	31.9	5.6	81.1	7.8	14.5	73.3
1603	TAM 14H-11	4.1	0.87	1.29	85.3	3.8	35.5	5.5	80.1	8.6	14.6	73.6
1612	DP 1948 B3XF	4.3	0.86	1.25	85.1	4.0	33.1	6.6	81.2	8	14.2	70.9
1613	FM 1730 GLTP	4.3	0.87	1.19	84.6	4.7	34	4.8	81.4	7.5	14.0	75.6
1614	PHY 332 W3FE	4.4	0.87	1.21	84.8	4.9	33	5.5	79.6	8.7	13.1	73.8
1615	PHY 390 W3FE	4.2	0.87	1.18	83.7	5.9	32.9	5.2	81	7.7	15.5	78.3
1616	KH-14-A-176- 2015-314-29	4.2	0.87	1.27	85.6	3.8	39.3	5.4	80.2	7.6	11.7	82.6
1617	12KJ-Q14- 2015-708-10	4.2	0.87	1.29	85.6	3.6	38.2	5.3	80	8.5	4.2	82.9
1618	NM 18B1592	4.2	0.87	1.17	84	5.5	34	5.2	79.6	8.1	4.6	77.8
1619	ARK 1319-59	4.2	0.87	1.21	84.6	4.9	34.1	5	79.8	8.2	4.4	78.2
1620	ARK 1303-29	4.4	0.88	1.2	84.5	5.1	33.5	4.9	80.3	7.7	4.0	75.2
1621	ARK 1311-26	4.3	0.87	1.21	84	5.1	32.3	5.1	80.5	7.7	3.7	78.7
1622	LA 17063090	4.2	0.87	1.21	85.2	4.5	34.8	5.4	79.1	8	3.9	74.9
1623	LA 17063008	4.2	0.87	1.2	84.9	4.7	37.3	5.1	80.6	7.9	3.9	83.4
1624	LA 16063006	4.3	0.87	1.2	84.9	4.9	35.2	5.4	80	7.8	4.3	79.3
	LSD	0.16	0.01	0.02	0.69	0.57	0.95	0.16	1.02	0.25		

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content			
1516	DP 1646 B2XF	0.90	1.10	21.3	6.22	1.32	162	6.42	0.88	179	12.8
1536	PHY 764 WRF	0.90	1.08	18.5	5.36	1.28	156	6.26	0.90	158	13.9
1587	NM 18B1593	0.91	1.09	18.1	5.25	1.28	160	5.78	0.92	170	16.2
1599	PHY 400 W3FE	0.88	1.07	20.2	6.00	1.27	165	5.95	0.91	152	8.57
1601	ST 4990 B3XF	0.91	1.08	18.4	5.36	1.28	165	5.98	0.90	158	10.7
1603	TAM 14H-11	0.97	1.17	18.3	4.86	1.40	157	6.46	0.89	158	11.5
1612	DP 1948 B3XF	0.89	1.11	22.2	6.30	1.34	160	6.46	0.88	156	12.7
1613	FM 1730 GLTP	0.93	1.10	17.0	4.70	1.29	158	5.86	0.92	132	13.3
1614	PHY 332 W3FE	0.89	1.09	21.1	6.26	1.31	169	5.93	0.90	141	10.2
1615	PHY 390 W3FE	0.86	1.05	21.8	6.65	1.26	16	6.03	0.91	169	9.86
1616	KH-14-A-176- 2015-314-29	0.94	1.13	18.4	4.78	1.34	154	5.72	0.92	154	12.4
1617	12KJ-Q14-2015- 708-10	0.98	1.17	17.6	4.62	1.39	156	5.84	0.92	147	14.6
1618	NM 18B1592	0.88	1.05	19.5	6.04	1.25	158	6.17	0.90	193	16.6
1619	ARK 1319-59	0.92	1.10	18.6	5.28	1.31	164	6.00	0.91	141	10.8
1620	ARK 1303-29	0.93	1.10	17.6	5.01	1.30	165	5.74	0.91	155	15.8
1621	ARK 1311-26	0.89	1.08	19.6	5.72	1.28	163	5.77	0.91	168	12.8
1622	LA 17063090	0.94	1.11	16.4	4.72	1.30	158	6.21	0.90	160	11.8
1623	LA 17063008	0.94	1.1	16.8	4.89	1.29	165	5.84	0.92	150	10.8
1624	LA 16063006	0.92	1.09	17.1	4.96	1.28	161	6.06	0.91	149	12.8
	LSD	0.03	0.02	1.84	0.71	0.02	3.81	0.34	0.01	37.4	4.34

REGIONAL HIGH QUALITY REGION SUMMARY BY LOCATION SITES

LOCATION	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
	Yield	Yield			Size			Gossypol	Gossypol	Gossypol
	(lb/a)	(lb/a)	Percent	Index	(g/boll)					
Lubbock, TX	338	551	36.3	9.4	4.9	3.72	18.6	0.70	0.45	1.15
College Station, TX	961	1533	38.7	9.3	5.2	3.78	16.8	0.70	0.44	1.13
Stoneville, MS	847	1302	38.9	11.2	4.6	.	.	.	.	
Florence, SC	1179	1721	40.4	10.3	5.1	3.32	19.2	0.87	0.60	1.47
Portageville, MO	1183	2172	42.6	11.2	5.6	.	.	.	.	
Las Cruces, NM	1121	1502	42.6	10.1	5.8	.	.	.	.	
Keiser, AR	1078	1426	42.9	9.4	4.4	3.46	18.6	0.78	0.52	1.29

LOCATION	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters	Waste	Yarn
			Mean Length						Plus b		Tenacity
Lubbock, TX	4.2	0.87	1.10	81.8	7	32.5	5.7	82.6	9.4	4.2	0.87
College Station, TX	3.7	0.86	1.19	83.8	5.9	32.9	4.6	76.6	7.6	3.7	0.86
Saint Joseph, LA	.	.	.	.	.	.	.	.	.	.	.
Stoneville, MS	4.6	0.88	1.23	85.5	4.1	38.4	5.2	81.6	7.8	4.6	0.88
Jackson, TN	4.2	0.86	1.28	86	3.3	34.8	6.1	82.9	8.3	4.2	0.86
Florence, SC	4.4	0.87	1.21	85.1	4.6	34.5	5.8	80.4	8.1	4.4	0.87
Portageville, MO	4.7	0.88	1.26	85.6	4	33.9	5.4	79	7.6	4.7	0.8
Keiser, AR	4.1	0.87	1.22	85.3	4.5	34.5	5.1	79.3	7.4	4.1	0.87

			Short Fiber	Short Fiber			Immature			Seed Coat
	Length	Length	Content	Content			Fiber	Maturity	Nep	Number
LOCATION	Number	Weight	Number	Weight	UQL wt.	Fineness	Content	ratio	Count	Count
Lubbock, TX	0.79	0.97	23.6	7.70	1.17	157	6.8	0.87	283	13.3
College Station, TX	0.85	1.06	23.4	7.01	1.28	151	6.58	0.89	223	21.9
Saint Joseph, LA	.	.	.	.	.	.	.	.	.	.
Stoneville, MS	0.95	1.13	17.3	4.68	1.34	167	5.29	0.93	100	8.42
Jackson, TN	0.99	1.17	15.8	4.13	1.38	161	6.41	0.89	116	10.4
Florence, SC	0.92	1.10	18.6	5.07	1.31	165	5.77	0.91	95.9	6.21
Portageville, MO	0.96	1.14	17.2	4.62	1.35	169	5.12	0.94	139	11.16
Keiser, AR	0.93	1.10	16.4	4.70	1.30	157	6.13	0.91	113	12.6

REGIONAL HIGH QUALITY REGION – INDIVIDUAL LOCATION SUMMARIES

Location: Lubbock, TX *

		Lint	Seed			Boll					
		Yield	Yield	Lint	Seed	Size			Plus	Minus	Free
vcode	VARIETY	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1516	DP 1646 B2XF	318	397	41.0	7.4	4.1	3.78	15.2	0.64	0.45	.
1536	PHY 764 WRF	249	349	34.9	9.4	4.2	3.41	18.0	0.55	0.40	.
1587	NM 18B1593	345	553	36.2	8.8	4.1	3.91	17.6	0.61	0.38	.
1599	PHY 400 W3FE	452	681	39.9	8.9	4.7	3.69	19.8	0.70	0.40	.
1601	ST 4990 B3XF	245	489	34.9	8.4	4.3	3.35	15.2	1.06	0.53	.
1603	TAM 14H-11	351	670	31.7	11.8	6.1	3.72	22.1	0.65	0.45	.
1612	DP 1948 B3XF	275	477	38.8	7.8	4.7	3.36	15.4	0.55	0.42	.
1613	FM 1730 GLTP	339	467	35.9	9.0	4.8	3.56	17.9	0.59	0.42	.
1614	PHY 332 W3FE	479	803	37.4	9.4	5.2	3.62	18.2	0.81	0.51	.
1615	PHY 390 W3FE	345	488	36.7	8.4	4.2	3.57	19.6	0.66	0.38	.
	KH-14-A-176-										.
1616	2015-314-29	247	500	33.8	10.1	4.4	3.73	22.8	0.72	0.47	.
	12KJ-Q14-2015-										.
1617	708-10	228	391	34.8	10.5	5	3.9	20.3	0.53	0.38	.
1618	NM 18B1592	324	624	32.9	10.4	4.9	3.78	20.9	0.66	0.46	.

1619	ARK 1319-59	412	667	35.9	10.4	5.7	3.93	21.0	0.78	0.54	.	
1620	ARK 1303-29	347	546	35.7	9.9	5.4	3.64	18.4	0.64	0.44	.	
1621	ARK 1311-26	341	495	38.1	8.7	4.8	4.12	16.6	0.68	0.38	.	
1622	LA 17063090	279	516	34.7	9.6	5.1	3.75	17.1	0.74	0.39	.	
1623	LA 17063008	366	623	36.2	10.3	5.7	3.93	20.9	1.13	0.66	.	
1624	LA 16063006	475	730	40.6	9.1	5.3	3.95	17.1	0.73	0.49	.	
	LSD	186	609		0.77	0.36	0.60	5.32	0.05	0.04		
				Upper Half								
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
1516	DP 1646 B2XF	4.4	0.87	1.08	80.8	8.4	28.6	5.8	83.4	9.7	5.38	68.2
1536	PHY 764 WRF	3.8	0.85	1.06	80.1	8.3	31.8	6.1	83.0	9.7	4.64	74.1
1587	NM 18B1593	4.4	0.87	1.08	80.6	7.3	31	5.8	81.3	9.6	5.83	70.5
1599	PHY 400 W3FE	4.2	0.87	1.07	80.1	9.1	30.8	5.7	82.6	9.2	5.04	75.6
1601	ST 4990 B3XF	4.1	0.87	1.1	82.1	6.6	28.7	5.7	83.4	9.3	3.93	70.9
1603	TAM 14H-11	3.9	0.86	1.23	83.3	5.5	35.6	5.6	82.4	9.4	4.28	75.2
1612	DP 1948 B3XF	4.3	0.86	1.13	82.6	6.5	32.6	6.9	83.9	8.9	5.12	74.4
1613	FM 1730 GLTP	4.3	0.87	1.06	81	6.8	31.4	4.8	83.8	9.0	4.93	74.8
1614	PHY 332 W3FE	4.2	0.87	1.12	81.9	7.1	32.4	5.6	81.8	10.1	4.29	74.4
1615	PHY 390 W3FE	3.8	0.86	1.05	80.4	9.2	29.5	5.5	83.0	9.2	4.2	78.5
	KH-14-A-176-										5.19	77.0
1616	2015-314-29	3.9	0.86	1.14	82.7	6	37.9	5.6	82.8	8.7		
	12KJ-Q14-										4.44	86.1
1617	2015-708-10	4.1	0.87	1.14	82.6	6.5	36.5	5.7	81.8	9.8		
1618	NM 18B1592	4.2	0.87	1.05	81.0	7.6	31.3	5.7	81.7	9.7	4.29	68.7
1619	ARK 1319-59	4.2	0.87	1.15	82.6	6.3	32.2	5.4	81.9	10	4.63	72.9
1620	ARK 1303-29	4.6	0.88	1.08	81.4	7.5	30.7	5.5	82.6	9.6	4.67	71.5
1621	ARK 1311-26	4.3	0.87	1.07	80.9	7.4	30	5.6	82.7	9.4	5.11	74.1
1622	LA 17063090	4.2	0.87	1.13	82.7	6.2	34	5.8	81.9	9.5	4.36	79.1
1623	LA 17063008	4.2	0.87	1.14	83.6	5.7	39.1	5.6	83.4	9.3	3.55	83.3
1624	LA 16063006	4.5	0.88	1.15	83.5	6.1	33.8	5.5	82.8	9.0	4.7	80.3
	LSD	0.33	0.01	0.05	1.18	1.46	1.9	0.35	1.46	0.36	1.78	8.81

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	SCN Count
1516	DP 1646 B2XF	0.74	0.93	27.9	9.90	1.13	162	6.62	0.86	326	9.5
1536	PHY 764 WRF	0.76	0.93	24.9	8.62	1.12	148	7.72	0.84	323	21.5
1587	NM 18B1593	0.80	0.98	22.7	7.27	1.17	154	6.54	0.88	240	13
1599	PHY 400 W3FE	0.74	0.91	26.5	9.60	1.11	160	7.35	0.86	354	9
1601	ST 4990 B3XF	0.78	0.95	24.4	8.29	1.14	161	6.78	0.86	349	14
1603	TAM 14H-11	0.88	1.08	21.6	6.22	1.31	153	7.58	0.86	275	13
1612	DP 1948 B3XF	0.79	0.99	26.3	8.17	1.2	161	7.14	0.85	249	10.5
1613	FM 1730 GLTP	0.78	0.94	23.6	7.65	1.13	158	6.09	0.90	231	19
1614	PHY 332 W3FE	0.83	1.00	20.8	6.85	1.21	167	6.65	0.88	263	13
1615	PHY 390 W3FE	0.71	0.90	28.9	10.4	1.09	150	7.69	0.84	434	11.5
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015-	0.81	0.99	22.5	6.94	1.18	147	6.82	0.88	277	13
1617	708-10	0.81	1.02	25.2	7.63	1.24	149	7.09	0.88	282	17.5
1618	NM 18B1592	0.78	0.94	22.6	7.74	1.12	156	6.75	0.87	277	15.5
1619	ARK 1319-59	0.82	1.01	23.1	7.19	1.22	163	6.79	0.87	238	8
1620	ARK 1303-29	0.81	0.98	21.7	6.88	1.17	168	6.07	0.89	194	17
1621	ARK 1311-26	0.75	0.93	25.0	8.33	1.11	163	6	0.88	310	11.5
1622	LA 17063090	0.84	1.01	19.8	6.04	1.2	153	6.99	0.87	249	11
1623	LA 17063008	0.875	1.04	18.9	5.70	1.23	162	6.16	0.90	206	8
1624	LA 16063006	0.83	1.01	21.7	6.83	1.21	161	6.4	0.89	297	18
	LSD	0.06	0.05	4.18	1.86	0.06	6.35	0.68	0.02	137	8.8

Location: College Station, TX

[illegible]

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
				Mean Length								
1516	DP 1646 B2XF	3.6	0.86	1.31	85.2	3.4	36.6	5	75.1	8.2	5.51	79.4
1536	PHY 764 WRF	3.9	0.87	1.28	86.1	3.6	39.1	4.9	76.6	7.2	4.72	79.4
1587	NM 18B1593	3.2	0.85	1.11	82.5	7.6	33.5	4.4	77	7.8	5.38	80.0
1599	PHY 400 W3FE	4.6	0.88	1.21	84.7	5.5	32.9	4.9	76.1	7.4	4.27	75.0
1601	ST 4990 B3XF	4.4	0.88	1.21	84.4	5.4	34.4	4.9	75.9	7.8	3.58	76.8
1603	TAM 14H-11	4.3	0.88	1.19	85.5	5	33.7	5	76.2	8.6	3.73	66.2
1612	DP 1948 B3XF	4	0.87	1.33	86.2	2.8	37.1	4.8	74.9	8.3	5.9	79.1
1613	FM 1730 GLTP	4.1	0.88	1.2	84.1	5.3	34.2	4.5	76.3	8.7	5.19	73.0
1614	PHY 332 W3FE	4.4	0.88	1.23	84.5	5.2	33.1	4.9	74.4	8.1	5.22	75.7
1615	PHY 390 W3FE	4.5	0.88	1.23	84.4	5.5	30.2	5	76.1	7.2	4.53	73.2
1616	KH-14-A-176-										10.1	85.7
	2015-314-29	4.4	0.88	1.21	84.7	5.4	36.2	4.9	75.2	8.1		
	12KJ-Q14-										6.14	79.2
1617	2015-708-10	4.7	0.89	1.21	86	4.3	34.4	5	77	7.7		
1618	NM 18B1592	2.8	0.84	1.14	81.3	8.6	27.6	4.4	77.6	6.7	9.58	68.6
1619	ARK 1319-59	3.1	0.85	1.13	81.2	7.4	28.3	3.9	78.8	7.3	5.85	74.2
1620	ARK 1303-29	2.4	0.83	1.17	81.9	7.1	30.5	4.6	77.2	6.8	7.7	81.7
1621	ARK 1311-26	3.3	0.86	1.12	81.8	8.1	29.6	3.9	77.9	6.5	4.36	79.1
1622	LA 17063090	3.4	0.85	1.14	83.2	6.6	28.8	4.4	76.6	6.6	4.92	75.0
1623	LA 17063008	3.1	0.85	1.13	82.3	7.7	30.4	4.4	79	7.2	5.73	76.0
1624	LA 16063006	3	0.85	1.1	83.3	7.3	33.9	4.6	77	8.4	5.64	80.0
	LSD	0.55	0.01	0.051	1.45	1.89	2.36	0.37	3.41	0.83	4.85	13

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature		Maturity ratio	Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content				
1516	DP 1646 B2XF	0.88	1.16	27.4	7.1	1.43	151	7.2		0.88	285	38
1536	PHY 764 WRF	0.89	1.12	22.6	5.92	1.34	148	5.9		0.92	173	15
1587	NM 18B1593	0.82	1.01	22.4	7.25	1.2	146	6.82		0.88	263	30
1599	PHY 400 W3FE	0.86	1.08	24.3	6.95	1.3	168	5.82		0.92	199	18.5
1601	ST 4990 B3XF	0.88	1.07	21.2	5.85	1.28	156	5.9		0.93	178	14.5

1603	TAM 14H-11	0.93	1.11	17.1	4.45	1.3	159	5.72	0.93	136	11
1612	DP 1948 B3XF	0.93	1.18	24.1	6.24	1.44	150	6.3	0.91	199	23
1613	FM 1730 GLTP	0.85	1.05	22.7	6.43	1.27	152	6.42	0.9	242	25
1614	PHY 332 W3FE	0.83	1.07	28	8.15	1.31	164	5.99	0.91	181	14
1615	PHY 390 W3FE	0.89	1.1	22	5.84	1.33	162	5.54	0.92	146	14.5
1616	KH-14-A-176- 2015-314-29	0.90	1.1	20.1	5.37	1.30	165	5.69	0.92	145	11
1617	12KJ-Q14-2015- 708-10	0.94	1.09	15	3.88	1.28	164	5.63	0.93	122	10
1618	NM 18B1592	0.75	0.97	30	10.7	1.21	140	7.8	0.85	363	29
1619	ARK 1319-59	0.82	1.01	24.0	7.9	1.22	145	6.85	0.88	193	22.5
1620	ARK 1303-29	0.82	1.03	24.6	7.85	1.25	126	8.72	0.81	412	46
1621	ARK 1311-26	0.82	1.02	24	7.75	1.24	145	6.69	0.89	232	28
1622	LA 17063090	0.80	1.00	25.8	8.47	1.22	154	6.74	0.89	268	25.5
1623	LA 17063008	0.78	0.98	26.5	9.05	1.21	143	7.42	0.85	263	18
1624	LA 16063006	0.80	0.98	23.7	8	1.18	142	7.97	0.85	245	23
	LSD	0.09	0.07	7.25	3	0.05	10.9	0.91	0.03	130	15.5

Location: Stoneville, MS

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
1516	DP 1646 B2XF	1083	1481	42.2	9.6	4.2	.	.	.	.	.
1536	PHY 764 WRF	502	799	38.6	11.6	4.4	.	.	.	.	.
1587	NM 18B1593	774	1179	39.6	10.3	4.5	.	.	.	.	.
1599	PHY 400 W3FE	1173	1538	43.3	9.7	4.4	.	.	.	.	.
1601	ST 4990 B3XF	957	1458	39.6	11.6	4.4	.	.	.	.	.
1603	TAM 14H-11	623	1208	34	14.3	4.7	.	.	.	.	.
1612	DP 1948 B3XF	700	1000	41.2	9.1	4.2	.	.	.	.	.
1613	FM 1730 GLTP	902	1383	39.5	10.1	4.4	.	.	.	.	.
1614	PHY 332 W3FE	1182	1654	41.7	10.6	4.7	.	.	.	.	.
1615	PHY 390 W3FE	1136	1522	42.7	10	4.4	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29	639	1073	37.3	12	4.7	.	.	.	.	.

1617	12KJ-Q14-2015-708-10	485	1195	28.2	13.6	4.8	.	.	.	.	.	.
1618	NM 18B1592	712	1186	37.5	11.4	4.5	.	.	.	.	.	.
1619	ARK 1319-59	1149	1728	39.9	10.7	4.9	.	.	.	.	.	.
1620	ARK 1303-29	960	1453	39.8	11.9	5.5	.	.	.	.	.	.
1621	ARK 1311-26	961	1380	41.1	10.6	5	.	.	.	.	.	.
1622	LA 17063090	648	1113	36.7	11.8	4.7	.	.	.	.	.	.
1623	LA 17063008	651	1180	35.6	13.7	5.1	.	.	.	.	.	.
1624	LA 16063006	862	1236	41.1	10.4	4.7	.	.	.	.	.	.
	LSD	139	192	5.46								
				Upper Half								
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
1516	DP 1646 B2XF	4.7	0.88	1.26	84.9	3.8	34	5.9	82.7	7.9	3.68	72.5
1536	PHY 764 WRF	4.4	0.88	1.19	85.1	4.7	42.4	5.2	79.7	8.3	4.05	82.7
1587	NM 18B1593	4.9	0.89	1.23	85	4.3	38.4	5	81.2	8.1	3.14	84.1
1599	PHY 400 W3FE	4.6	0.88	1.21	85	5.2	37.6	5.1	82.5	7.5	2.66	79.7
1601	ST 4990 B3XF	4.8	0.88	1.18	84.6	5.1	33.8	5.4	83.7	7.3	5.59	72.1
1603	TAM 14H-11	4.1	0.87	1.29	84.8	3.0	40.4	5.2	80.2	8.2	4.6	80.9
1612	DP 1948 B3XF	4.4	0.87	1.28	84.9	3.4	34.6	6.8	83.9	7.9	3.21	68.7
1613	FM 1730 GLTP	4.5	0.88	1.23	86.2	3.7	37.7	4.6	84.2	6.9	3.25	76.7
1614	PHY 332 W3FE	4.7	0.88	1.23	86.0	4.4	36.1	5.6	80.4	8.5	3.6	74.5
1615	PHY 390 W3FE	4.6	0.89	1.19	83.9	5.9	36	4.9	83	7.5	3.18	87.4
	KH-14-A-176-										3.34	83.7
1616	2015-314-29	4.3	0.88	1.24	86.1	3.6	45.5	5.1	81.3	7		
	12KJ-Q14-										3.85	87.4
1617	2015-708-10	4.3	0.88	1.33	87	2.6	43.3	5.1	80.3	8.1		
1618	NM 18B1592	4.5	0.88	1.19	85.2	4.3	39.9	5	80.8	7.8	3.63	79.7
1619	ARK 1319-59	4.7	0.89	1.21	86	4.3	39.3	5.1	80.4	8.2	3.05	85.7
1620	ARK 1303-29	5.2	0.9	1.19	86.1	4.6	36.8	4.5	81.6	7.6	3.63	72.1
1621	ARK 1311-26	4.7	0.89	1.24	85	4.2	35.7	4.9	82	7.6	2.89	83.0
1622	LA 17063090	4.7	0.89	1.23	86.4	3.9	38.8	5.4	80.6	8.2	3.11	71.7
1623	LA 17063008	4.5	0.88	1.25	86.7	3.6	41.3	5	81	7.5	4.06	91.9
1624	LA 16063006	4.8	0.89	1.24	85.4	3.8	38.3	5.3	80.9	7.5	2.43	78.2
	LSD	0.25	0.01	0.04	1.65	1.27	2.41	0.29	0.95	0.54	1.97	12.9

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	SCN Count
1516	DP 1646 B2XF	0.95	1.13	18.4	5.14	1.36	166	5.65	0.91	91	4
1536	PHY 764 WRF	0.98	1.12	13.5	3.67	1.3	163	5.55	0.93	92	15
1587	NM 18B1593	0.96	1.13	16.2	4.33	1.33	168	4.85	0.96	126	11
1599	PHY 400 W3FE	0.92	1.1	19.2	5.34	1.31	171	4.9	0.94	94	2.5
1601	ST 4990 B3XF	0.96	1.12	15.3	4.22	1.31	174	5.1	0.94	93	6
1603	TAM 14H-11	0.97	1.19	19.5	5.2	1.43	160	5.92	0.91	164	10
1612	DP 1948 B3XF	0.92	1.12	20.8	5.8	1.36	162	6.43	0.89	107	6.5
1613	FM 1730 GLTP	0.99	1.14	13.7	3.6	1.32	160	5.3	0.94	73.5	5
1614	PHY 332 W3FE	0.93	1.12	20.0	5.72	1.34	173	5.25	0.93	96	7
1615	PHY 390 W3FE	0.89	1.08	20.7	6.13	1.29	167	5.07	0.94	90.5	6
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	0.95	1.15	18.1	4.55	1.35	160	5.07	0.95	123	11
1617		1.02	1.23	17.9	4.42	1.47	159	5.15	0.95	106	15.5
1618	NM 18B1592	0.94	1.1	16.7	4.62	1.30	166	5.29	0.94	94	8
1619	ARK 1319-59	0.93	1.11	18.4	5.04	1.31	172	5.45	0.94	109	9.5
1620	ARK 1303-29	0.95	1.12	16.7	4.45	1.32	178	4.59	0.96	71.5	10
1621	ARK 1311-26	0.93	1.12	19.9	5.5	1.34	167	5.22	0.94	114	8
1622	LA 17063090	1.01	1.16	13.4	3.37	1.34	169	5.17	0.94	82	7.5
1623	LA 17063008	0.99	1.17	16.1	4.05	1.37	165	5.44	0.95	90.5	8.5
1624	LA 16063006	0.98	1.14	14.6	3.75	1.34	169	5.12	0.94	83.5	9
	LSD	0.07	0.06	3.03	1.11	0.06	10.4	0.83	0.03	38.5	8.95

Location: Jackson, TN*

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.
1536	PHY 764 WRF	.	.	.	.	.	.	.	.	.	.
1587	NM 18B1593	.	.	.	.	.	.	.	.	.	.
1599	PHY 400 W3FE	.	.	.	.	.	.	.	.	.	.
1601	ST 4990 B3XF	.	.	.	.	.	.	.	.	.	.
1603	TAM 14H-11	.	.	.	.	.	.	.	.	.	.
1612	DP 1948 B3XF	.	.	.	.	.	.	.	.	.	.
1613	FM 1730 GLTP	.	.	.	.	.	.	.	.	.	.
1614	PHY 332 W3FE	.	.	.	.	.	.	.	.	.	.
1615	PHY 390 W3FE	.	.	.	.	.	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29	.	.	.	.	.	.	.	.	.	.
	12KJ-Q14-2015- 708-10	.	.	.	.	.	.	.	.	.	.
1617											
1618	NM 18B1592	.	.	.	.	.	.	.	.	.	.
1619	ARK 1319-59	.	.	.	.	.	.	.	.	.	.
1620	ARK 1303-29	.	.	.	.	.	.	.	.	.	.
1621	ARK 1311-26	.	.	.	.	.	.	.	.	.	.
1622	LA 17063090	.	.	.	.	.	.	.	.	.	.
1623	LA 17063008	.	.	.	.	.	.	.	.	.	.
1624	LA 16063006	.	.	.	.	.	.	.	.	.	.

*Data are missing due to the laboratory closure during the COVID pandemic periods.

vcode	VARIETY	Micro		Upper Half	Uniformity Index	Short Fiber	Strength	Elon		Hunters		Yarn Tenacity
		naire	Maturity	Mean Length				gation	RD	Plus b	Waste	
1516	DP 1646 B2XF	4.1	0.86	1.3	85.5	3.2	30.1	6.9	84.1	8.2	3.12	70.8
1536	PHY 764 WRF	3.9	0.86	1.2	84.8	4.9	37.6	6.5	82	8.5	2.88	75.4
1587	NM 18B1593	4.4	0.87	1.31	86.4	2.7	35.7	5.7	82.7	8.6	3.97	86.7
1599	PHY 400 W3FE	4.2	0.87	1.26	86.5	3.5	33.6	5.6	83	8.4	2.71	81.9
1601	ST 4990 B3XF	4.3	0.86	1.26	87.5	3.3	31.2	6.6	85.4	8	3.02	78.5
1603	TAM 14H-11	4	0.86	1.38	86.4	2.6	35.8	6	81.3	9.5	4.97	70.2
1612	DP 1948 B3XF	4.1	0.85	1.28	85.8	3.1	30.9	7.7	85	8.2	2.71	65.5
1613	FM 1730 GLTP	4.1	0.87	1.22	85.3	4	34.5	5.3	86	7.7	2.5	75.5
1614	PHY 332 W3FE	4	0.86	1.26	85.3	3.6	31.4	6.1	82	9.2	2.91	71.2
1615	PHY 390 W3FE	3.9	0.86	1.25	84.8	4.3	34.7	5.7	83.1	8.3	2.58	75.1
1616	KH-14-A-176-										3.45	79.4
	2015-314-29	3.7	0.86	1.34	86.2	2.6	40.2	6	83	7.8		
	12KJ-Q14-										2.7	81.7
1617	2015-708-10	4.3	0.87	1.37	85.9	2.6	39.9	6	81.4	8.6		
1618	NM 18B1592	4.5	0.88	1.22	85.1	3.7	36.8	5.6	82	8.2	2.8	82.3
1619	ARK 1319-59	4.3	0.87	1.29	86	2.8	35.7	5.8	81.1	8.7	3.16	77.4
1620	ARK 1303-29	4.6	0.88	1.27	86.6	3.2	34.7	5.3	83.5	8.1	2.23	75.5
1621	ARK 1311-26	4.4	0.87	1.3	86.4	2.7	31.8	6.2	83.1	7.9	2.63	74.8
1622	LA 17063090	4	0.86	1.28	85.7	3	34.1	6.1	81.9	8.6	2.91	74.1
1623	LA 17063008	4.3	0.87	1.25	86.6	3.4	37.3	6	80.9	8.3	2.95	78.9
1624	LA 16063006	4.4	0.87	1.29	86.7	3	34.8	6.5	83.2	7.9	4.64	78.9
	LSD	0.30	0.01	0.04	1.84	0.91	2.29	0.36	1.76	0.58	1.71	11.4

vcode	VARIETY	Length		Short Fiber	Short Fiber	UQL	Fineness	Immature		Maturity ratio	Nep Count	SCN Count
		Number	Weight	Content Number	Content Weight			Fiber Content				
1516	DP 1646 B2XF	0.98	1.17	16.6	4.54	1.39	161	7.29		0.85	115	9.5
1536	PHY 764 WRF	0.94	1.11	16.3	4.49	1.3	157	6.48		0.88	120	12
1587	NM 18B1593	1.04	1.20	13.4	3.45	1.42	163	5.53		0.93	120	13.5
1599	PHY 400 W3FE	0.94	1.12	18.1	4.99	1.34	161	6.70		0.89	91.5	9.5
1601	ST 4990 B3XF	0.96	1.14	17.6	4.78	1.35	164	6.82		0.88	154	12

1603	TAM 14H-11	1.04	1.26	18.6	4.5	1.51	155	6.67	0.875	139	9.5
1612	DP 1948 B3XF	0.93	1.14	19.9	5.55	1.37	157	7.50	0.845	150	12.5
1613	FM 1730 GLTP	0.96	1.14	16.0	4.2	1.32	152	6.80	0.885	128	20
1614	PHY 332 W3FE	0.95	1.15	18.5	5.32	1.39	168	6.84	0.88	125	10
1615	PHY 390 W3FE	0.94	1.13	17.8	5.19	1.35	151	7.12	0.87	101	4
1616	KH-14-A-176- 2015-314-29	1.00	1.20	17.6	4.34	1.42	150	6.10	0.91	186	13.5
1617	12KJ-Q14-2015- 708-10	1.09	1.27	13.7	3.2	1.49	160	5.80	0.92	106	11.5
1618	NM 18B1592	1.01	1.15	11.6	2.85	1.32	169	5.35	0.92	75	13
1619	ARK 1319-59	1.04	1.20	13.9	3.25	1.40	170	5.90	0.91	76	6.5
1620	ARK 1303-29	1.04	1.20	12.7	3.05	1.39	174	5.30	0.93	67.5	6
1621	ARK 1311-26	0.96	1.15	16.8	4.49	1.36	169	6.18	0.90	119	12
1622	LA 17063090	1.03	1.19	13.4	3.39	1.39	158	6.78	0.88	109	6
1623	LA 17063008	1.01	1.17	14.3	3.74	1.36	169	6.20	0.90	137	9.5
1624	LA 16063006	1.03	1.20	13.6	3.2	1.39	162	6.42	0.90	93	6.5
	LSD	0.08	0.06	4.62	1.48	0.05	8.04	0.80	0.03	64.6	9.07

Location: Florence, SC

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)						Gossypol	Gossypol	Gossypol
1516	DP 1646 B2XF	1562	2004	43.8	8.7	5.0	3.1	16.2	0.90	0.605	1.50
1536	PHY 764 WRF	811	1267	39.2	10	4.7	3.59	18.9	0.74	0.51	1.25
1587	NM 18B1593	1346	1950	40.8	9.6	5.1	3.61	17.6	0.79	0.56	1.35
1599	PHY 400 W3FE	1458	1816	44.6	9.5	5.0	3.18	20.0	0.90	0.53	1.43
1601	ST 4990 B3XF	1437	2056	41.2	9.2	4.7	3.14	19.0	0.92	0.57	1.48
1603	TAM 14H-11	841	1468	36.4	11.6	5.8	3.09	20.8	0.89	0.64	1.53
1612	DP 1948 B3XF	1126	1571	41.8	8.4	4.3	3.26	19.9	0.94	0.67	1.61
1613	FM 1730 GLTP	1270	1875	40.4	9.7	5.0	3.24	20.7	0.79	0.55	1.33
1614	PHY 332 W3FE	1437	1997	41.9	10.4	4.7	3.37	17.9	0.90	0.6	1.50
1615	PHY 390 W3FE	1319	1771	42.8	9.4	4.7	3.48	21.2	0.87	0.58	1.45

[illegible]

Location: Portageville, MO

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1516	DP 1646 B2XF*	1568	2678	36.9	8.86	5.5	.	.	.	.	.
1536	PHY 764 WRF	779	1726	31.1	12.0	5.8	.	.	.	.	.
1587	NM 18B1593	957	2031	31.9	10.5	5.5	.	.	.	.	.
1599	PHY 400 W3FE*	1579	2337	40.3	9.11	5.3	.	.	.	.	.
1601	ST 4990 B3XF	1547	2679	36.6	10.1	5.6	.	.	.	.	.
1603	TAM 14H-11	917	2092	30.4	13.7	6.3	.	.	.	.	.
1612	DP 1948 B3XF	1340	2263	37.2	9.63	5	.	.	.	.	.
1613	FM 1730 GLTP	959	2011	32.3	11.2	5.8	.	.	.	.	.
1614	PHY 332 W3FE	1508	2503	37.6	10.2	5.4	.	.	.	.	.
1615	PHY 390 W3FE	1478	2391	38.2	9.04	4.5	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015-	840	1724	32.8	13.1	5.4	.	.	.	.	.
1617	708-10	701	1580	30.7	14.5	6.2	.	.	.	.	.
1618	NM 18B1592	896	1907	31.9	11.4	5.6	.	.	.	.	.
1619	ARK 1319-59	1428	2630	35.2	11.7	5.4	.	.	.	.	.
1620	ARK 1303-29	1431	2552	35.9	11.7	6.1	.	.	.	.	.
1621	ARK 1311-26	1484	2449	37.7	10.8	6	.	.	.	.	.
1622	LA 17063090	892	1846	32.7	12.0	5.8	.	.	.	.	.
1623	LA 17063008	1153	2354	32.8	12.7	5.8	.	.	.	.	.
1624	LA 16063006	1011	1513	41.1	10.7	5.6	.	.	.	.	.
	LSD	298	574	5.68	0.61	0.93					

vcode	VARIETY	Micro		Upper Half	Uniformity Index	Short Fiber	Strength	Elon		Hunters		Yarn Tenacity
		naire	Maturity	Mean Length				gation	RD	Plus b	Waste	
1516	DP 1646 B2XF	4.6	0.87	1.27	85	4.2	29.2	6.1	82.0	7.4	3.41	73.8
1536	PHY 764 WRF	4.5	0.87	1.244	86.4	3.9	35.1	5.8	78.2	8.4	4.49	82.2
1587	NM 18B1593	4.8	0.89	1.23	85.4	4.3	35.3	5.1	78.7	7.8	4.03	81.6
1599	PHY 400 W3FE	4.6	0.88	1.21	84.6	4.9	32.7	5.3	78.6	7.2	4.39	69.9
1601	ST 4990 B3XF	4.7	0.88	1.26	86.7	3.8	31	5.5	78.7	6.9	4.04	65.1
1603	TAM 14H-11	4.3	0.87	1.38	86.3	2.6	33	5.6	80	8.1	4.24	76.7
1612	DP 1948 B3XF	4.8	0.88	1.27	85.4	4.2	31.1	6.7	80.4	7.4	3.58	65.5
1613	FM 1730 GLTP	4.5	0.88	1.26	85.2	4.4	32.5	4.9	78.7	6.9	4.75	67.8
1614	PHY 332 W3FE	4.8	0.88	1.24	85.3	4.9	32.2	5.6	79.9	8.4	3.41	76.6
1615	PHY 390 W3FE	4.5	0.88	1.21	85	5.2	30.6	5	81.3	6.9	4.18	74.6
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-	4.6	0.88	1.35	86.7	2.6	37.9	5.5	80.3	7.5	6.4	82.9
1617	2015-708-10	4.4	0.88	1.37	85.9	2.7	37.9	5.3	79.7	8.5	3.81	86.7
1618	NM 18B1592	4.8	0.89	1.19	85.8	4.4	33.8	5.2	78.7	8.8	3.83	81.7
1619	ARK 1319-59	4.9	0.89	1.25	86	4.1	34.1	5.2	78.8	7.6	5.38	82.3
1620	ARK 1303-29	5.2	0.90	1.25	84.7	4.3	33.5	4.7	76.9	7.2	3.14	76.5
1621	ARK 1311-26	4.7	0.88	1.29	85.9	3.5	33.8	5.3	77.5	7.3	3.83	82.9
1622	LA 17063090	4.7	0.88	1.25	86.5	3.7	36.3	5.2	76.2	7.6	3.52	70.4
1623	LA 17063008	4.8	0.89	1.28	85.1	3.4	38	5.1	78.7	7.4	4.2	87.7
1624	LA 16063006	4.8	0.89	1.24	85.4	4.5	36.5	5.4	77.7	6.9	4.0	74.2
	LSD	0.41	0.02	0.06	2.39	1.83	3.07	0.67	4.47	0.67	1.98	13.3

vcode	VARIETY	Length		Short Fiber	Short Fiber	UQL	Fineness	Immature		Maturity ratio	Nep Count	SCN Count
		Number	Weight	Content Number	Content Weight			Fiber Content				
1516	DP 1646 B2XF	0.90	1.1	21.2	6.09	1.34	165	5.84		0.90	208	10.5
1536	PHY 764 WRF	0.96	1.13	16.4	4.39	1.33	165	5.58		0.93	192	11.5
1587	NM 18B1593	0.92	1.1	18.8	5.15	1.31	165	5.12		0.95	172	15
1599	PHY 400 W3FE	0.91	1.09	18.9	5.34	1.30	171	5.07		0.94	136	6.5
1601	ST 4990 B3XF	0.94	1.13	18.2	5.02	1.33	172	5.22		0.92	128	5.5

1603	TAM 14H-11	1.05	1.25	16	3.83	1.49	162	5.50	0.93	126	14.5
1612	DP 1948 B3XF	0.9	1.12	22.1	6.27	1.37	168	5.50	0.91	122	15.5
1613	FM 1730 GLTP	1.01	1.17	12.4	3.00	1.35	166	4.84	0.95	97.5	9.5
1614	PHY 332 W3FE	0.91	1.10	19.1	5.65	1.31	181	4.75	0.94	96.5	6.5
1615	PHY 390 W3FE	0.86	1.07	23.5	7.20	1.29	166	5.60	0.93	155	14
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015-	1.02	1.21	15.6	3.58	1.41	157	4.99	0.95	130	16
1617	708-10	1.04	1.26	17.2	4.17	1.50	160	4.95	0.94	129	15
1618	NM 18B1592	0.92	1.10	18.3	5.02	1.31	161	5.68	0.92	198	13.5
1619	ARK 1319-59	0.99	1.18	17.3	4.37	1.39	177	4.95	0.96	151	12
1620	ARK 1303-29	0.98	1.14	15.3	3.92	1.33	177	4.63	0.96	117	10
1621	ARK 1311-26	0.97	1.16	17.4	4.39	1.36	173	4.80	0.96	161	10.5
1622	LA 17063090	0.97	1.14	14.8	4.00	1.33	166	5.27	0.94	149	10
1623	LA 17063008	1.05	1.18	18.9	5.70	1.36	183	4.34	0.97	93.5	8
1624	LA 16063006	0.99	1.15	21.7	6.83	1.34	173	4.77	0.95	76	8
	LSD	0.05	0.04	3.65	1.27	0.05	10.2	0.97	0.04	99.9	10.2

Location: Las Cruces, NM*

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1516	DP 1646 B2XF	1148	1518	43	8	5.1	.	.	.	.	.
1536	PHY 764 WRF	1275	1591	44.5	10.2	5.7	.	.	.	.	.
1587	NM 18B1593	1178	1563	42.7	9.1	6	.	.	.	.	.
1599	PHY 400 W3FE	1377	1623	46.1	10.2	5.2	.	.	.	.	.
1601	ST 4990 B3XF	1338	1865	41.8	9.2	5.3	.	.	.	.	.
1603	TAM 14H-11	861	1377	38.4	10.7	6.1	.	.	.	.	.
1612	DP 1948 B3XF	1263	1722	42.3	8.9	5.5	.	.	.	.	.
1613	FM 1730 GLTP	951	1276	42.3	9.5	5.4	.	.	.	.	.
1614	PHY 332 W3FE	1460	1779	45	9	5.6	.	.	.	.	.
1615	PHY 390 W3FE	1683	2056	44.9	9.3	5.5	.	.	.	.	.

1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015-	795	1121	42	11	5.8	.	.	.	.	.
1617	708-10	776	1108	41.3	11.6	6.4	.	.	.	.	.
1618	NM 18B1592	1442	2091	40.8	10.4	6.2	.	.	.	.	.
1619	ARK 1319-59	1508	2117	41.5	10.1	6.4	.	.	.	.	.
1620	ARK 1303-29	1415	1894	42.8	11	6.3	.	.	.	.	.
1621	ARK 1311-26	813	1024	43.9	10.5	5.8	.	.	.	.	.
1622	LA 17063090	656	982	40.3	11.3	5.1	.	.	.	.	.
1623	LA 17063008	640	938	40.5	11.4	6.7	.	.	.	.	.
1624	LA 16063006	731	902	44.9	9.5	6	.	.	.	.	.
LSD											

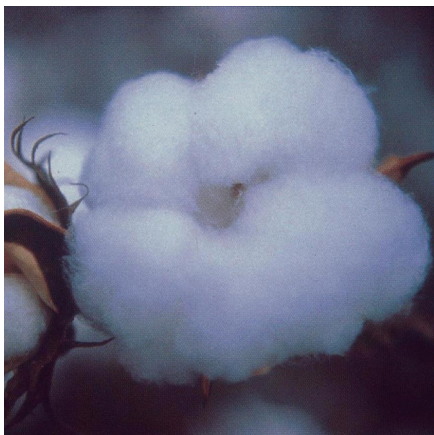
*Fiber data are missing due to laboratory closure during the pandemic periods.

Location: Keiser, AR

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
1516	DP 1646 B2XF	1295	1508	45.8	8.0	5.0	3.93	18.2	0.61	0.53	1.13
1536	PHY 764 WRF	872	1059	43.1	9.0	3.9	3.44	21.1	0.60	0.44	1.04
1587	NM 18B1593	1339	1790	43.6	9.1	4.5	3.51	17.8	0.71	0.46	1.17
1599	PHY 400 W3FE	1200	1300	47.3	8.5	4.3	3.43	21.0	0.87	0.50	1.37
1601	ST 4990 B3XF	1349	1527	42.4	9.1	3.9	3.54	15.3	0.99	0.51	1.50
1603	TAM 14H-11	987	1709	37.8	10.4	5.4	3.27	20.6	0.75	0.54	1.29
1612	DP 1948 B3XF	1010	1370	44.6	8.3	4.7	3.41	16.2	0.59	0.44	1.03
1613	FM 1730 GLTP	855	1105	42.4	8.4	3.7	3.77	15.8	0.62	0.41	1.02
1614	PHY 332 W3FE	1187	1484	44.6	8.8	3.8	3.32	17.3	0.90	0.61	1.51
1615	PHY 390 W3FE	1140	1347	46.1	8.8	3.6	3.45	20.9	0.85	0.51	1.36
	KH-14-A-176-										1.59
1616	2015-314-29 12KJ-Q14-2015-	890	1324	41.5	10.4	4.2	3.42	22.2	0.91	0.68	
1617	708-10	956	1462	40.4	10.8	4.1	3.30	17.6	0.62	0.47	1.09
1618	NM 18B1592	1090	1684	39.1	10.8	4.7	3.38	18.4	0.74	0.52	1.25
1619	ARK 1319-59	1329	1842	43.1	9.7	5	3.21	20.7	1.04	0.67	1.70

1620	ARK 1303-29	1179	1676	41.8	10.5	4.9	3.36	20.6	0.74	0.50	1.24	
1621	ARK 1311-26	1062	1206	45.2	9.9	4.5	3.76	15.9	0.64	0.39	1.03	
1622	LA 17063090	1023	1386	41	9.6	4.2	3.33	17.5	0.84	0.51	1.35	
1623	LA 17063008	871	1303	41.1	10.3	4.9	3.36	19.2	1.05	0.66	1.71	
1624	LA 16063006	864	1006	44.4	8.8	4	3.56	16.8	0.71	0.53	1.24	
	LSD	202	399	2.10	1.14	1.52	0.54	1.20	0.09	0.07	0.16	
				Upper Half								
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
1516	DP 1646 B2XF	4.3	0.87	1.25	84.5	4.6	30.3	5.6	79.2	7.0	3.50	66.8
1536	PHY 764 WRF	3.7	0.86	1.18	84.3	5.7	37.7	5.0	80.3	8.3	3.06	78.9
1587	NM 18B1593	4.3	0.88	1.22	86.1	4.2	35.2	5.1	78.2	7.6	3.19	68.9
1599	PHY 400 W3FE	4.1	0.87	1.17	85.7	5.4	32.7	5.1	79.6	7.4	3.36	88.3
1601	ST 4990 B3XF	4.5	0.88	1.18	84.0	5.8	30.3	5.4	79.2	6.7	4.98	76.5
1603	TAM 14H-11	3.5	0.85	1.31	86.1	3.4	36.3	5.2	80.4	7.8	3.50	71.6
1612	DP 1948 B3XF	4	0.86	1.27	85.4	3.9	32.6	6.5	79.2	6.8	3.82	72.3
1613	FM 1730 GLTP	3.9	0.87	1.20	85.5	4.5	34.3	4.4	80.8	6.5	3.21	86.2
1614	PHY 332 W3FE	4.1	0.86	1.21	85.2	4.8	31.3	5.4	79.4	8.5	3.13	70.2
1615	PHY 390 W3FE	4.2	0.87	1.15	83.2	6.2	32.6	5.0	79.9	7.2	2.47	81.0
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-	4.0	0.87	1.32	86.8	2.8	39.2	5.4	79.0	6.6	3.49	87.1
1617	2015-708-10	3.7	0.86	1.34	86.1	2.8	37.1	4.9	79.6	8.4	4.23	76.3
1618	NM 18B1592	4.2	0.87	1.21	85.7	4.4	34.6	5.1	76.9	7.4	3.70	85.8
1619	ARK 1319-59	4.3	0.88	1.23	85.7	4.4	34.9	5.1	78.1	7.4	4.26	76.5
1620	ARK 1303-29	4.5	0.88	1.25	86.6	4.0	35.0	4.6	79.8	7.3	2.65	73.8
1621	ARK 1311-26	4.4	0.88	1.23	84.2	5.0	32.9	4.8	79.9	7.6	3.33	78.2
1622	LA 17063090	4.0	0.87	1.24	86.9	3.8	36.7	5.3	77.5	7.3	4.83	79.3
1623	LA 17063008	4.4	0.88	1.16	85.0	4.6	37.9	4.7	80.7	8.0	2.99	82.4
1624	LA 16063006	4.5	0.88	1.20	85.1	5.1	33.8	5.0	78.2	7.1	4.40	84.0
	LSD	0.51	0.01	0.06	2.02	1.24	2.76	0.36	2.64	0.76		

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	SCN Count
1516	DP 1646 B2XF	0.92	1.10	18.0	5.35	1.32	158	6.63	0.88	120	10
1536	PHY 764 WRF	0.90	1.06	17.0	5.24	1.25	151	6.75	0.89	115	14
1587	NM 18B1593	0.95	1.11	14.9	4.05	1.30	159	5.8	0.92	103	14.5
1599	PHY 400 W3FE	0.90	1.07	17.3	5.07	1.26	158	6.5	0.90	89	9.5
1601	ST 4990 B3XF	0.94	1.10	15.6	4.37	1.28	169	5.49	0.92	108	19
1603	TAM 14H-11	1.01	1.19	14.9	3.97	1.41	145	7.25	0.88	145	16.5
1612	DP 1948 B3XF	0.88	1.09	22.2	6.72	1.32	157	6.34	0.88	181	14
1613	FM 1730 GLTP	0.96	1.12	15.2	4.18	1.31	149	6.27	0.92	90.5	10
1614	PHY 332 W3FE	0.89	1.08	20.1	6.27	1.3	163	6.44	0.89	125	14.5
1615	PHY 390 W3FE	0.83	1.00	21.2	6.95	1.21	160	5.95	0.91	167	13
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	0.97	1.16	16.9	4.32	1.37	144	6.07	0.91	91	11.5
1617		0.98	1.18	16.4	4.44	1.40	146	6.40	0.91	141	18
1618	NM 18B1592	0.88	1.05	17.7	5.32	1.24	156	6.15	0.91	152	20.5
1619	ARK 1319-59	0.96	1.12	14.9	3.97	1.31	161	6.09	0.91	77.5	6.5
1620	ARK 1303-29	0.97	1.13	14.5	3.89	1.32	170	5.15	0.94	69	6
1621	ARK 1311-26	0.95	1.11	14.7	3.85	1.3	163	5.77	0.92	72.5	7
1622	LA 17063090	1.01	1.15	11.5	3.04	1.33	151	6.33	0.90	102	10.5
1623	LA 17063008	0.93	1.07	14.0	4.00	1.24	167	5.48	0.94	110	12.5
1624	LA 16063006	0.92	1.07	15.2	4.35	1.24	160	5.69	0.92	98.5	12.5
	LSD	0.06	0.04	4.54	1.59	0.05	12	1.03	0.04	68.2	12.8



2021 National Cotton Variety Test

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

BLACKLANDS REGION

*******Beginning with 2015, Eurofins' readings are reported as Dry Matter Basis.*******

2021 NATIONAL COTTON VARIETY TEST*
REGIONAL SUMMARIES FOR BLACKLANDS BY VARIETIES

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)					
1503	FM 1830 GLT	628	871	41.9	7.54	4.99					
1516	DP 1646 B2XF	626	849	42.3	6.47	4.29					
1536	PHY 764 WRF	464	768	38.2	8.84	4.80					
1592	DG 3520 B3XF	650	968	39.6	8.65	4.46					
1593	ST 4550 GLTP	763	967	44.1	7.56	4.26					
1595	NG 4936 B3XF	606	971	39.7	7.82	4.79					
1598	DP 2012 B3XF	687	1045	41.1	7.14	4.34					
1599	PHY 400 W3FE LSD	763	1090	41.5	7.86	5.24					
	LSD	60	162	1.27	2.01	1.30					

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.7	0.885	1.08	82.4	7.4	31.1	4.4	78.4	8
1516	DP 1646 B2XF	4.5	0.875	1.16	82	6.4	29.3	5.5	76.8	8.4
1536	PHY 764 WRF	3.9	0.865	1.105	81.5	7.3	34.2	4.9	74.6	9
1592	DG 3520 B3XF	4.2	0.865	1.115	82.7	5.8	32.5	5.7	74.5	8.9
1593	ST 4550 GLTP	4.6	0.875	1.065	82.1	6.7	32.1	5.5	76.3	9.4
1595	NG 4936 B3XF	4.6	0.875	1.12	82.5	6.2	29	5.4	77.1	8.2
1598	DP 2012 B3XF	4.6	0.88	1.13	82	7.7	29.7	4.3	76.1	8.7
1599	PHY 400 W3FE	4.6	0.88	1.08	81.8	6.9	33.1	4.9	73	8.1
	LSD	0.44	0.01	0.06	1.43	1.29	3.46	0.35	2.84	0.70

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.80	0.98	1.17	22.1	7.32	165	5.75	0.94	151	13.5
1516	DP 1646 B2XF	0.79	0.99	1.22	25.6	8.37	167	5.62	0.91	220	24
1536	PHY 764 WRF	0.82	0.99	1.19	22.1	6.95	152	6.68	0.89	226	35.5
1592	DG 3520 B3XF	0.85	1.02	1.20	19.2	5.32	166	6.28	0.90	189	37
1593	ST 4550 GLTP	0.79	0.95	1.12	21.7	7.10	167	6.15	0.92	144	10
1595	NG 4936 B3XF	0.82	1.00	1.19	22.7	7.17	168	6.58	0.92	206	26.5
1598	DP 2012 B3XF	0.80	0.99	1.18	23.4	7.13	165	5.24	0.93	154	17
1599	PHY 400 W3FE LSD	0.81	0.97	1.16	21.5	6.77	171	5.60	0.93	148	20
	LSD	0.08	0.08	3.70	2.09	0.10	12.0	0.98	0.03	80.6	17.5

BLACKLANDS REGION SUMMARY BY LOCATION SITES*

	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Oil	Nitr ogen	Plus Gossypol	Minus Gossypol	Free Gossypol	
LOCATION Commerce, TX	648	941	41.0	7.73	4.67						
			Upper Half								
	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
LOCATION Commerce, TX	4.5	0.88	1.11	82.1	6.8	31.4	5	75.8	8.6		
			Short Fiber	Short Fiber			Immature Fiber				Seed Coat
	Length Number	Length Weight	Content Number	Content Weight	UQL wt.	Fineness	Content	Maturity ratio	Nep Count		Number Count
LOCATION Commerce, TX	.808	.983	1.18	7.01	1.18	168	5.99	.913	180		22.9

BLACKLANDS REGION – INDIVIDUAL LOCATION SUMMARIES*

Location : Commerce, TX

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	628	871	41.9	7.54	4.99					
1516	DP 1646 B2XF	626	849	42.3	6.47	4.29					
1536	PHY 764 WRF	464	768	38.2	8.84	4.80					
1592	DG 3520 B3XF	650	968	39.6	8.65	4.46					
1593	ST 4550 GLTP	763	967	44.1	7.56	4.26					
1595	NG 4936 B3XF	606	971	39.7	7.82	4.79					
1598	DP 2012 B3XF	687	1045	41.1	7.14	4.34					
1599	PHY 400 W3FE	763	1090	41.5	7.86	5.24					
	LSD	60	162	1.27	2.01	1.30					

vcode	VARIETY	Micronaire	Maturity	Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830 GLT	4.7	0.885	1.08	82.4	7.4	31.1	4.4	78.4	8
1516	DP 1646 B2XF	4.5	0.875	1.16	82	6.4	29.3	5.5	76.8	8.4
1536	PHY 764 WRF	3.9	0.865	1.105	81.5	7.3	34.2	4.9	74.6	9
1592	DG 3520 B3XF	4.2	0.865	1.115	82.7	5.8	32.5	5.7	74.5	8.9
1593	ST 4550 GLTP	4.6	0.875	1.065	82.1	6.7	32.1	5.5	76.3	9.4
1595	NG 4936 B3XF	4.6	0.875	1.12	82.5	6.2	29	5.4	77.1	8.2
1598	DP 2012 B3XF	4.6	0.88	1.13	82	7.7	29.7	4.3	76.1	8.7
1599	PHY 400 W3FE	4.6	0.88	1.08	81.8	6.9	33.1	4.9	73	8.1
	LSD	0.44	0.01	0.06	1.43	1.29	3.46	0.35	2.84	0.70

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.80	0.98	1.17	22.1	7.32	165	5.75	0.94	151	13.5
1516	DP 1646 B2XF	0.79	0.99	1.22	25.6	8.37	168	5.62	0.91	220	24
1536	PHY 764 WRF	0.82	0.99	1.19	22.1	6.95	152	6.68	0.89	226	35.5
1592	DG 3520 B3XF	0.85	1.02	1.20	19.2	5.32	166	6.28	0.90	189	37
1593	ST 4550 GLTP	0.79	0.95	1.12	21.7	7.10	167	6.15	0.92	144	10
1595	NG 4936 B3XF	0.82	1.00	1.19	22.7	7.17	168	6.58	0.92	206	26.5
1598	DP 2012 B3XF	0.80	0.99	1.18	23.45	7.13	165	5.235	0.93	154	17
1599	PHY 400 W3FE	0.81	0.97	1.16	21.5	6.77	171	5.6	0.93	148	20
	LSD	0.08	0.08	3.70	2.09	0.10	12.0	0.98	0.03	80.6	17.5



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