



# 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  
Crop Genetics Research Unit  
P.O. Box 345  
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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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Mississippi -- L. Zeng (USDA-ARS), B. Pieralisi, and T. Wallace  
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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(As of May 2021)

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(As of May 2021)

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- B. Wilson, University of Missouri, Portageville, MO
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- J. Zhang, New Mexico Agricultural Experiment Station, Las Cruces, NM



## 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

<a href="#">High Quality</a> 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

<a href="#">Pima</a> 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 man 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 1830GLT
1516	DP 1646B2XF
1536	PHY 764WRF
1592	DG 3520B3XF
1593	ST 4550GLTP
1595	NG 4936B3XF
1598	DP 2012B3XF
1599	PHY400W3FE
1612	DP 1948B3XF
1613	FM 1730GLTP
1601	ST 4990B3XF
1614	PHY 332W3FE
1615	PHY 390W3FE
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	Seed	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	1050	840	37.7	9.9	4.8	4.24	16.7	0.517	0.347	0.86
1516	DP 1646B2XF	1190	993	42.7	8.1	4.3	3.97	16.8	0.630	0.480	1.11
1536	PHY 764WRF	783	869	35.9	10.8	4.3	4.20	19.6	0.487	0.357	0.85
1592	DG 3520B3XF	1168	1109	37.6	11.1	4.4	3.87	24.0	0.613	0.427	1.04
1593	ST 4550GLTP	1244	962	42.8	9.2	4.7	4.20	16.1	0.617	0.432	1.05
1595	NG 4936B3XF	970	1065	30.2	9.7	4.6	3.89	15.4	0.845	0.405	1.25
1598	DP 2012B3XF	1124	986	37.9	9	4	4.10	18.0	0.760	0.410	1.17
1599	PHY 400W3FE	1321	1014	40.6	9.4	4.7	4.04	19.6	0.708	0.392	1.10
	LSD	152	610	1.1	0.767	0.575	0.246	1.7	0.045	0.028	0.062

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

1592	DG 3520B3XF	4	0.86	1.17	83.2	6.1	32.8	6.2	72.1	8
1593	ST 4550GLTP	4.6	0.87	1.11	82.4	7.3	31.5	5.9	73.1	8.1
1595	NG 4936B3XF	4.3	0.87	1.16	82.8	6.7	29.3	5.7	75.8	7.7
1598	DP 2012B3XF	4.5	0.88	1.13	81.8	7.6	29.8	4.6	73.7	7.8
1599	PHY 400W3FE	4.4	0.87	1.12	81.9	7.9	32.8	5.2	73.6	7.8
	LSD	0.208	0.006	0.024	1	0.971	1.3	0.165	1.37	0.343

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature		Nep Count	Seed Coat Number
				Fiber Content Number	Fiber Content Weight			Fiber Content	Maturity ratio		
1503	FM 1830GLT	0.82	1.02	24.4	7.92	1.25	160	5.89	0.91	214	23.7
1516	DP 1646B2XF	0.76	0.96	28.6	9.95	1.19	163	6.59	0.87	268	21.3
1536	PHY 764WRF	0.78	0.97	25.3	8.58	1.18	150	7.24	0.86	291	34.2
1592	DG 3520B3XF	0.79	0.99	26.4	8.33	1.21	152	7.48	0.84	313	28.3
1593	ST 4550GLTP	0.79	0.97	24.3	8.04	1.16	163	6.51	0.88	205	20.8
1595	NG 4936B3XF	0.78	0.99	27.7	9.08	1.22	159	6.96	0.87	272	25.8
1598	DP 2012B3XF	0.8	0.99	25.3	8.2	1.21	162	6.22	0.9	222	20.5
1599	PHY 400W3FE	0.73	0.95	30.3	10.52	1.17	159	6.6	0.88	240	23.0
	LSD	0.029	0.023	2.34	1.01	0.022	4.44	0.436	0.011	46.3	7.34

### PLAINS SUB-REGION 11

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 1830GLT	540	840	37.7	9.9	5.5	3.69	18.6	0.57	0.4	0.97
1516	DP 1646B2XF	747	993	42.7	8.1	4.8	3.73	16.1	0.66	0.54	1.19
1536	PHY 764WRF	451	869	35.9	10.8	4.9	3.93	19.0	0.5	0.38	0.88
1592	DG 3520B3XF	597	1109	37.6	11.1	5.5	3.47	24.1	0.68	0.47	1.15
1593	ST 4550GLTP	712	962	42.8	9.2	5.5	3.88	18.2	0.67	0.49	1.16
1595	NG 4936B3XF	466	1065	30.2	9.7	5.4	3.45	15.1	0.93	0.46	1.38
1598	DP 2012B3XF	649	986	37.9	9	4.5	3.63	17.3	0.86	0.46	1.32
1599	PHY 400W3FE	764	1014	40.6	9.4	5.4	3.49	17.0	0.75	0.42	1.17
	LSD	186	610	1.1	0.768	0.362	0.6	5.32	0.049	0.038	0.07

vcode	VARIETY	Micronaire	Maturity	Upper Half						
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.5	0.88	1.17	81.6	7.6	32.6	5	83.7	8.7
1516	DP 1646B2XF	4.5	0.87	1.15	80.7	7.8	29.2	6.4	83.7	9.4
1536	PHY 764WRF	3.8	0.86	1.14	81.2	7.5	34.2	5.4	82.3	9.2
1592	DG 3520B3XF	4	0.86	1.17	83.2	5.8	33.6	6.6	82.9	9.3
1593	ST 4550GLTP	4.7	0.87	1.1	81.4	7.9	30.7	6.3	81.4	9.5
1595	NG 4936B3XF	4.6	0.87	1.15	82.6	6.7	30.4	6	84.4	9
1598	DP 2012B3XF	4.4	0.88	1.13	81.8	7	30.4	4.8	83.6	9.5
1599	PHY 400W3FE	4.5	0.88	1.11	80.9	8.6	32.8	5.3	81.8	8.9
	LSD	0.248	0.011	0.047	1.26	0.954	1.3	0.434	0.531	0.34

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 1830GLT	0.87	1.06	1.28	20.6	6.3	160	5.98	0.9	271	18
1516	DP 1646B2XF	0.76	0.96	1.18	27.2	9.65	163	7.3	0.84	391	15.5
1536	PHY 764WRF	0.795	0.98	1.2	24.8	8.49	149	7.885	0.84	422	28
1592	DG 3520B3XF	0.82	1.01	1.215	23.5	7.27	155	7.82	0.825	353	13.5
1593	ST 4550GLTP	0.8	0.97	1.17	22.9	7.74	164	6.78	0.86	270	15.5
1595	NG 4936B3XF	0.845	1.025	1.235	21.2	6.57	164	6.73	0.86	249	11.5
1598	DP 2012B3XF	0.815	0.985	1.19	22.7	7.34	164	6.35	0.88	274	9.5
1599	PHY 400W3FE	0.76	0.955	1.18	26.9	9.29	164	6.4	0.875	300	12
	LSD	0.068	0.065	4.62	2.03	0.068	7.66	0.741	0.015	139	12.9

## PLAINS SUB-REGION 12

vcode	VARIETY	Lint	Seed	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	1342				4.51	4.52	15.8	0.49	0.32	0.81
1516	DP 1646B2XF	1444				4.07	4.09	17.1	0.62	0.45	1.07
1536	PHY 764WRF	973				3.95	4.33	19.9	0.48	0.35	0.84
1592	DG 3520B3XF	1494				3.87	4.08	23.9	0.58	0.41	0.99
1593	ST 4550GLTP	1548				4.34	4.37	15.1	0.59	0.41	1
1595	NG 4936B3XF	1258				4.29	4.11	15.6	0.81	0.38	1.18
1598	DP 2012B3XF	1396				3.79	4.33	18.3	0.71	0.39	1.1
1599	PHY 400W3FE	1640				4.40	4.31	21.0	0.69	0.38	1.07
	LSD	176				0.862	0.282	1.01	0.065	0.041	0.09

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.5	0.88	1.19	83.2	6.6	31.3	4.7	74.2	6.9
1516	DP 1646B2XF	4.5	0.88	1.17	82.4	6.9	30	5.5	73.1	7.6
1536	PHY 764WRF	4.2	0.87	1.12	82.5	7.7	34.4	5.1	69	7.7
1592	DG 3520B3XF	3.9	0.86	1.19	83.8	5.7	32.9	5.5	70.3	7.3
1593	ST 4550GLTP	4.5	0.87	1.14	83.3	6.7	32.3	5.4	72.4	7.5
1595	NG 4936B3XF	4.1	0.87	1.18	83.2	6.5	29.9	5.4	73.1	7.4
1598	DP 2012B3XF	4.4	0.87	1.17	82.7	7	30.6	5	71.7	7.2
1599	PHY 400W3FE	4.3	0.87	1.15	82.7	7.2	32.9	5	72.5	7.4
	LSD	0.262	0.008	0.03	1.32	1.28	1.73	0.188	1.85	0.45

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
				Fiber Content Number	Fiber Content Weight			Fiber Content			Coat Number Count
1503	FM 1830GLT	0.815	1.03	1.25	25.8	8.25	162	5.95	0.912	197	22.2
1516	DP 1646B2XF	0.793	1.00	1.23	27.0	8.91	162	6.33	0.887	194	18.7
1536	PHY 764WRF	0.798	0.99	1.19	24.5	8.04	151	6.88	0.878	232	33.8
1592	DG 3520B3XF	0.818	1.03	1.24	25.2	7.68	149	7.08	0.863	267	31.0
1593	ST 4550GLTP	0.790	0.99	1.20	25.4	8.17	160	6.31	0.893	178	20.0
1595	NG 4936B3XF	0.762	1.00	1.25	30.9	10.13	156	7.14	0.865	260	31.0
1598	DP 2012B3XF	0.812	1.03	1.26	26.4	8.16	161	6.28	0.897	197	22.2
1599	PHY 400W3FE	0.757	0.98	1.20	29.8	10.01	156	6.57	0.882	184	22.3
	LSD	0.034	0.026	2.87	1.23	0.023	5.62	0.553	0.014	49.6	9.3

### PLAINS 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
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 1830GLT	540	840	37.7	9.9	5.5	3.69	18.6	0.57	0.4	0.97
1516	DP 1646B2XF	747	993	42.7	8.1	4.8	3.73	16.1	0.66	0.54	1.19
1536	PHY 764WRF	451	869	35.9	10.8	4.9	3.93	19.0	0.5	0.38	0.88
1592	DG 3520B3XF	597	1109	37.6	11.1	5.5	3.47	24.1	0.68	0.47	1.15
1593	ST 4550GLTP	712	962	42.8	9.2	5.5	3.88	18.2	0.67	0.49	1.16
1595	NG 4936B3XF	466	1065	30.2	9.7	5.4	3.45	15.1	0.93	0.46	1.38
1598	DP 2012B3XF	649	986	37.9	9	4.5	3.63	17.3	0.86	0.46	1.32
1599	PHY 400W3FE	764	1014	40.6	9.4	5.4	3.49	17.0	0.75	0.42	1.17
	LSD	187	567	1.03	0.331	0.756	0.58	5.02	0.056	0.052	0.097

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830GLT	4.5	0.88	1.17	81.6	7.6	32.6	5	83.7	8.7
1516	DP 1646B2XF	4.5	0.87	1.15	80.7	7.8	29.2	6.4	83.7	9.4
1536	PHY 764WRF	3.8	0.86	1.14	81.2	7.5	34.2	5.4	82.3	9.2
1592	DG 3520B3XF	4	0.86	1.17	83.2	5.8	33.6	6.6	82.9	9.3
1593	ST 4550GLTP	4.7	0.87	1.1	81.4	7.9	30.7	6.3	81.4	9.5
1595	NG 4936B3XF	4.6	0.87	1.15	82.6	6.7	30.4	6	84.4	9
1598	DP 2012B3XF	4.4	0.88	1.13	81.8	7	30.4	4.8	83.6	9.5
1599	PHY 400W3FE	4.5	0.88	1.11	80.9	8.6	32.8	5.3	81.8	8.9
	LSD	0.248	0.01	0.047	1.26	0.954	1.3	0.446	0.531	0.34

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 1830GLT	0.87	1.06	20.5	6.3	1.28	160	5.98	0.9	271	18
1516	DP 1646B2XF	0.76	0.96	27.1	9.65	1.18	163	7.3	0.84	391	15.5
1536	PHY 764WRF	0.8	0.98	24.8	8.49	1.2	149	7.89	0.84	422	28
1592	DG 3520B3XF	0.82	1.01	23.5	7.27	1.21	155	7.82	0.83	353	13.5
1593	ST 4550GLTP	0.8	0.97	22.9	7.74	1.17	164	6.78	0.86	270	15.5
1595	NG 4936B3XF	0.85	1.03	21.2	6.57	1.23	164	6.73	0.86	249	11.5
1598	DP 2012B3XF	0.82	0.99	22.7	7.34	1.19	164	6.35	0.88	274	9.5
1599	PHY 400W3FE	0.76	0.96	26.9	9.29	1.18	164	6.4	0.88	300	12
	LSD	0.062	0.059	4.22	1.85	0.062	7.13	0.7	0.014	132	13

LOCATION: Fort Cobb, OK (irrigated)

vcode	VARIETY	Lint	Seed	Boll			Nitro	oil	Plus	Minus	Free
		Yield	Yield	Lint	Seed	Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM 1830GLT	1705				4.60	4.3	15.8	0.53	0.36	0.88
1516	DP 1646B2XF	1755				4.15	3.97	18.3	0.68	0.48	1.16
1536	PHY 764WRF	1269				3.91	4.25	19.6	0.51	0.37	0.89
1592	DG 3520B3XF	1784				3.79	4.01	24.0	0.63	0.47	1.1
1593	ST 4550GLTP	1908				5.03	4.35	15.4	0.61	0.45	1.06
1595	NG 4936B3XF	1571				4.49	4.15	14.9	0.8	0.39	1.19
1598	DP 2012B3XF	1776				3.98	4.29	18.8	0.77	0.44	1.2
1599	PHY 400W3FE	2088				4.38	4.17	21.7	0.75	0.43	1.17
	LSD	353				0.857	0.383	2.24	0.145	0.073	0.187

vcode	VARIETY	Micro	Maturity	Upper	Uniformity	Short	Elon	Hunters		
				Half						
		naire		Mean	Index	Fiber	Strength	gation	RD	Plus b
1503	FM 1830GLT	4.6	0.88	1.21	83.3	6.4	33.6	4.5	71.1	6.5
1516	DP 1646B2XF	4.7	0.88	1.16	82.4	6.9	32.3	5.5	71.9	7.1
1536	PHY 764WRF	4.3	0.88	1.15	83.1	6.5	36.6	5.2	67.7	7.3
1592	DG 3520B3XF	3.6	0.85	1.21	83.5	6	34	6.1	68.3	7.4
1593	ST 4550GLTP	4.8	0.88	1.13	83.5	6.3	33.7	5.7	70.8	7.1
1595	NG 4936B3XF	4.4	0.87	1.17	82.6	7.4	28.9	5.7	72	6.7
1598	DP 2012B3XF	4.5	0.88	1.19	83.7	6	31.3	4.6	72.5	6.8
1599	PHY 400W3FE	4.3	0.87	1.15	83.2	6.8	33.9	5.2	70.8	6.9
	LSD	0.54	0.014	0.036	2.44	2.03	3.95	0.282	3.67	0.831

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber			Coat
				Content	Content			Content	ratio	Count	Number
1503	FM 1830GLT	0.83	1.04	25.84	8.32	1.28	158.5	6.17	0.92	183	29
1516	DP 1646B2XF	0.79	1	27.79	9.18	1.23	164.5	5.94	0.9	188	16.5
1536	PHY 764WRF	0.82	1.01	23.47	7.44	1.21	150.5	6.73	0.88	201.5	31
1592	DG 3520B3XF	0.8	1.02	27.07	8.37	1.25	146	7.6	0.84	305.5	36.5
1593	ST 4550GLTP	0.8	0.99	24.92	7.94	1.19	165.5	6.25	0.91	176	19
1595	NG 4936B3XF	0.77	1	30.7	9.89	1.25	157.5	6.84	0.88	277	32
1598	DP 2012B3XF	0.82	1.03	25.05	7.87	1.26	164.5	6.14	0.92	193	22.5
1599	PHY 400W3FE	0.72	0.96	34.75	12.05	1.21	153.5	6.9	0.88	226	32
	LSD	0.06	0.04	5.86	2.52	0.04	11.8	1.14	0.028	99.7	14.3

Location: Fort Cobb, OK (dry)

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitro	oil	Plus	Minus	Free
		Yield	Yield			Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM 1830GLT	858				4.42	4.73	15.9	0.46	0.29	0.75
1516	DP 1646B2XF	1029				3.98	4.22	16.0	0.56	0.43	0.99
1536	PHY 764WRF	578				3.99	4.41	20.3	0.46	0.33	0.79
1592	DG 3520B3XF	1106				3.96	4.15	23.9	0.53	0.35	0.88
1593	ST 4550GLTP	1068				3.66	4.39	14.8	0.57	0.36	0.93
1595	NG 4936B3XF	840				4.10	4.08	16.2	0.81	0.37	1.18
1598	DP 2012B3XF	888				3.59	4.38	17.8	0.66	0.34	0.99
1599	PHY 400W3FE	1043				4.41	4.45	20.3	0.64	0.33	0.97
	LSD	435				1.74	0.551	0.95	0.101	0.087	0.185

vcode	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830GLT	4.6	0.88	1.12	81.3	8.2	29.9	4.4	72.1	7.2
1516	DP 1646B2XF	4.4	0.87	1.12	81.1	8	28	5.5	68.3	7.2
1536	PHY 764WRF	4.2	0.87	1.07	79.8	11.2	30	5.2	63.9	7.4
1592	DG 3520B3XF	4.2	0.86	1.13	82.8	6.5	30.7	6	65.2	7.1
1593	ST 4550GLTP	4.5	0.87	1.09	82.4	7.8	30.3	5.8	67.2	7.8
1595	NG 4936B3XF	4.1	0.87	1.15	83.1	5.9	28.8	5.3	71.1	7.4
1598	DP 2012B3XF	4.4	0.88	1.07	80.1	9.9	27.7	4.4	65	7
1599	PHY 400W3FE	4.4	0.87	1.1	81.6	8.5	31.9	5.2	68.3	7.6
	LSD	0.34	0.01	0.104	2.96	3.06	3.37	0.87	9.19	0.783

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 1830GLT	0.77	0.97	26.7	9.15	1.18	162	5.52	0.92	188	24
1516	DP 1646B2XF	0.72	0.93	30.9	11.0	1.15	161	6.52	0.88	225	32
1536	PHY 764WRF	0.74	0.93	27.8	9.82	1.13	150	7.1	0.87	249	43.5
1592	DG 3520B3XF	0.75	0.95	28.6	9.35	1.15	156	7.02	0.86	281	35
1593	ST 4550GLTP	0.76	0.94	25.1	8.44	1.13	160	6.5	0.88	168	28
1595	NG 4936B3XF	0.74	0.95	31.2	10.8	1.17	157	7.32	0.86	291	34
1598	DP 2012B3XF	0.76	0.97	28.17	9.4	1.19	157	6.17	0.89	198	29.5
1599	PHY 400W3FE	0.73	0.93	29.2	10.22	1.14	158.5	6.49	0.88	193	25
	LSD	0.065	0.063	4.65	2.4	0.062	10.4	0.9	0.027	84.5	20.5

Location: Chillicothe, TX

vcode	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830GLT	4.4	0.88	1.23	85.2	5.3	30.6	5.3	79.4	7.1
1516	DP 1646B2XF	4.5	0.88	1.23	83.7	5.7	29.6	5.5	79.3	8.6
1536	PHY 764WRF	4	0.87	1.16	84.6	5.4	36.5	4.8	75.4	8.5
1592	DG 3520B3XF	3.8	0.87	1.23	85	4.5	34.1	4.4	77.4	7.3
1593	ST 4550GLTP	4.2	0.87	1.21	83.9	6.1	33	4.7	79.2	7.7
1595	NG 4936B3XF	3.8	0.86	1.23	84	6.3	32.2	5.3	76.3	8
1598	DP 2012B3XF	4.2	0.87	1.25	84.5	5.2	32.7	6.1	77.5	7.8
1599	PHY 400W3FE	4.1	0.87	1.2	83.2	6.4	32.9	4.8	78.5	7.8
	LSD	0.558	0.017	0.035	2.21	1.45	2.1	0.328	2.71	1.21

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 1830GLT	0.85	1.07	24.9	7.27	1.3	164	6.15	0.9	220	13.5
1516	DP 1646B2XF	0.88	1.08	22.3	6.52	1.31	162	6.54	0.89	171	7.5
1536	PHY 764WRF	0.84	1.03	22.3	6.85	1.23	154	6.82	0.89	244	27
1592	DG 3520B3XF	0.91	1.11	19.9	5.32	1.32	146	6.62	0.9	216	21.5
1593	ST 4550GLTP	0.81	1.03	26.3	8.13	1.27	155	6.18	0.9	191	13
1595	NG 4936B3XF	0.79	1.04	30.8	9.73	1.31	153	7.27	0.86	211	27
1598	DP 2012B3XF	0.86	1.09	26.0	7.2	1.34	161	6.55	0.89	200	14.5
1599	PHY 400W3FE	0.83	1.04	25.5	7.77	1.27	155	6.32	0.89	134	10
	LSD	0.082	0.069	6.41	2.62	0.046	11.5	1.3	0.034	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	Seed			Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830GLT	1,061	1157	44.7	9.5	5.4	3.72	17.3	0.691	0.47	1.16
1516	DP 1646B2XF	1,252	1331	45.4	8.6	5.2	3.64	17.6	0.765	0.645	1.41
1536	PHY 764WRF	991	998	44.6	9.6	5.1	3.68	19.5	0.671	0.519	1.19
1592	DG 3520B3XF	1,161	1316	43.4	10.3	5.5	3.57	22.1	0.72	0.559	1.28
1593	ST 4550GLTP	1,223	1304	46.5	9	5.7	3.54	17.1	0.785	0.57	1.36
1595	NG 4936B3XF	1,077	1399	43.3	9.2	5.1	3.41	15.7	0.854	0.498	1.35
1598	DP 2012B3XF	1,252	1393	45.4	8.5	5.2	3.73	20.1	0.88	0.568	1.45
1599	PHY 400W3FE	1,217	1357	45.6	9.2	5.3	3.63	20.0	0.765	0.479	1.24
	LSD	124	167	0.877	0.63	0.41	0.185	1.45	0.064	0.055	0.11

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.8	0.885	1.20	84.9	4.8	35.1	4.9	78.8	7
1516	DP 1646B2XF	4.6	0.867	1.23	85.1	4.5	32	6.6	78.1	7.5
1536	PHY 764WRF	4.5	0.877	1.16	85	5.1	37	5.5	75.5	8.2
1592	DG 3520B3XF	4.1	0.857	1.22	85.8	3.9	33.4	6.6	76.4	7.9
1593	ST 4550GLTP	4.8	0.877	1.13	84.7	4.7	33	6.2	76.6	7.9
1595	NG 4936B3XF	4.5	0.867	1.20	85.4	4.6	31.8	6.4	79	7.3
1598	DP 2012B3XF	4.6	0.878	1.15	84.1	5.5	31.1	5.1	79	7.5
1599	PHY 400W3FE	4.7	0.883	1.16	84	6	33.4	5.2	77.8	7.7
	LSD	0.249	0.007	0.037	1.19	0.889	1.14	0.251	1.54	0.38



vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Fiber Content	Fiber Weight			Fiber Content			
1503	FM 1830GLT	0.902	1.08	18.9	5.47	1.28	168	5.62	0.937	106	9
1516	DP 1646B2XF	0.897	1.09	20.9	6.22	1.31	165	6.42	0.887	129	13.3
1536	PHY 764WRF	0.873	1.05	19.6	5.97	1.24	162	6.26	0.903	144	22.3
1592	DG 3520B3XF	0.888	1.08	20.4	5.84	1.28	162	6.78	0.875	172	18.8
1593	ST 4550GLTP	0.865	1.02	18.0	5.54	1.19	173	6.34	0.905	112	12.5
1595	NG 4936B3XF	0.902	1.09	20.4	5.72	1.30	168	6.26	0.898	126	13.8
1598	DP 2012B3XF	0.877	1.05	19.2	5.51	1.23	172	5.43	0.923	91	9.33
1599	PHY 400W3FE	0.838	1.03	22.7	7.1	1.24	169	6.07	0.912	118	10.3
	LSD	0.038	0.035	2.43	0.989	0.033	5.08	0.481	0.015	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	0.535	1.31
Rocky Mount	1,070	1211	46.8	9.3	5.7	3.41	19.3	0.806	0.54	1.35
Starkville, MS	550	729	42.9	9	4.7	3.87	16.3	0.699	0.502	1.20
Suffolk, VA	1,542	.	.	9.4	5.7	3.26	19.9	0.791	0.576	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	0.881	1.16	84.9	4.4	34.2	5.9	5.9	9
Starkville, MS	.	.	.	.	.	.	.	.	.
Suffolk, VA	4.4	0.868	1.21	85.4	4.8	32	5.8	.	7

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
Florence	0.798	1.02	27.6	8.58	1.25	168	6.79	0.903	169	23.6
Rocky Mount, NC	0.913	1.06	15.4	4.43	1.23	175	5.29	0.924	92.3	10.2
Starkville, MS	.	.	.	.	.	.	.	.	.	.
Suffolk, VA	.	.	.	.	.	.	.	.	.	.

### EASTERN REGION INDIVIDUAL LOCATION SUMMARIES

Location: Florence, SC

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 1830GLT	1,498	1802	45.3	.	.	4.14	16.9	0.605	0.46	1.07
1516	DP 1646B2XF	1,723	2040	45.8	.	.	3.93	17.4	0.705	0.625	1.33
1536	PHY 764WRF	1,152	1483	43.7	.	.	4.03	20.2	0.675	0.515	1.19
1592	DG 3520B3XF	1,451	1950	42.7	.	.	3.82	24.7	0.745	0.595	1.34
1593	ST 4550GLTP	1,559	1712	47.6	.	.	3.99	16.9	0.715	0.525	1.24
1595	NG 4936B3XF	1,565	2065	43.1	.	.	3.46	14.8	0.87	0.45	1.32
1598	DP 2012B3XF	1,738	2134	44.8	.	.	4.00	20.3	0.985	0.6	1.59
1599	PHY 400W3FE	1,733	2044	45.8	.	.	4.07	22.2	0.86	0.51	1.37
	LSD	229	253	0.69			0.402	1.83	0.062	0.049	0.109

		Micro		Upper Half Mean	Uniformity	Short		Elon		Hunters
vcode	VARIETY	naire	Maturity	Length	Index	Fiber	Strength	gation	RD	Plus b
1503	FM 1830GLT	4.6	0.88	1.19	84	5.7	34.6	5	71.7	6.5
1516	DP 1646B2XF	4.5	0.865	1.23	84.2	5.2	32.7	6.4	72.4	6.7
1536	PHY 764WRF	4.6	0.88	1.17	85.1	5.3	36.5	5.5	68.7	7.8
1592	DG 3520B3XF	4.1	0.855	1.23	86.6	3.8	33.8	6.6	67.1	6.8
1593	ST 4550GLTP	4.8	0.88	1.14	83.3	5.5	33.8	5.8	71	7.2
1595	NG 4936B3XF	4.5	0.865	1.19	84.1	5.5	31.9	6.4	72.6	6.5
1598	DP 2012B3XF	4.5	0.88	1.17	84.1	5.6	32.6	5.1	73.4	7
1599	PHY 400W3FE	4.6	0.88	1.16	83.4	6.3	35.2	5.3	71.1	6.8
	LSD	0.318	0.01	0.044	2.38	2.1	2.28	0.486	3.78	0.658

				Short Fiber Content	Short Fiber Content			Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness	Content			
1503	FM 1830GLT	0.81	1.04	27.0	8.22	1.27	165	6.92	0.92	157	16
1516	DP 1646B2XF	0.795	1.04	29.3	9.25	1.30	165	6.6	0.885	147	25
1536	PHY 764WRF	0.775	0.99	28.6	9.12	1.21	163	6.53	0.9	214	40.5
1592	DG 3520B3XF	0.81	1.06	29.1	8.54	1.31	162	7.35	0.875	235	33.5
1593	ST 4550GLTP	0.79	0.98	24.6	8.1	1.18	174	7.3	0.905	141	17.5
1595	NG 4936B3XF	0.815	1.05	28.0	8.22	1.29	171	6.94	0.905	160	22.5
1598	DP 2012B3XF	0.81	1.03	26.3	7.84	1.25	173	5.99	0.92	127	17.5
1599	PHY 400W3FE	0.78	0.99	27.9	9.34	1.22	171	6.67	0.915	176	16
	LSD	0.062	0.055	4.4	2.18	0.053	6.67	0.874	0.021	106	11.5

Location: Rocky Mount, NC

vcode	VARIETY	Lint	Seed	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	5.1	0.895	1.18	85.1	4.3	36.2	4.9	83.5	8.2	5.1
1516	DP 1646B2XF	4.8	0.875	1.22	85.9	3.9	32.2	6.6	83.2	9.3	4.8
1536	PHY 764WRF	4.8	0.88	1.15	84.6	4.6	39.1	5.6	79.9	9.4	4.8
1592	DG 3520B3XF	4.3	0.865	1.17	85.2	4.4	35.3	6.7	81.8	9.2	4.3
1593	ST 4550GLTP	5	0.88	1.10	84.4	4.5	33.6	6.4	80.8	9.1	5
1595	NG 4936B3XF	4.7	0.87	1.21	86.2	3.5	33.1	6.6	83.3	9.2	4.7
1598	DP 2012B3XF	5	0.885	1.09	83.8	5	30.1	5.1	83.7	8.7	5
1599	PHY 400W3FE	5	0.895	1.14	83.9	5.5	33.9	5.2	82	9	5
	LSD	287	347	1.82	0.669	0.91	0.291	1.89	0.164	0.136	0.297

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830GLT	4.4	0.87	1.3	85.9	3.1	33.1	6.8	81.8	8.4
1516	DP 1646B2XF	4.4	0.86	1.27	86.4	3.6	30.7	8.9	82.3	8.2
1536	PHY 764WRF	4.2	0.86	1.21	85.5	4.8	38.3	8.6	80.2	9.1
1592	DG 3520B3XF	3.8	0.84	1.33	88.1	2.6	32.5	9.6	80.5	7.9
1593	ST 4550GLTP	4.5	0.86	1.19	84.9	4.5	35	8.8	79.6	8.8
1595	NG 4936B3XF	4.4	0.86	1.21	85.4	5.1	32.6	8.8	82.3	7.9
1598	DP 2012B3XF	4.6	0.87	1.19	85.4	4.4	34	7.5	80.9	8
1599	PHY 400W3FE	4.8	0.88	1.15	83.6	6.2	35.2	7.1	80.4	8.4
	LSD	0.773	0.017	0.11	2.34	1.38	2.92	0.468	1.22	0.724

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber			Coat
				Content	Content			Content	ratio	Count	Number
1503	FM 1830GLT	0.95	1.09	13.4	3.7	1.26	176	4.55	0.965	64	4
1516	DP 1646B2XF	0.96	1.12	15.7	4.39	1.32	171	6.12	0.895	122	9.5
1536	PHY 764WRF	0.915	1.06	14.8	4.3	1.23	171	5.85	0.92	91.5	16.5
1592	DG 3520B3XF	0.885	1.03	16.6	4.8	1.2	174	5.58	0.895	138	16
1593	ST 4550GLTP	0.87	1	15.5	4.67	1.16	178	5.67	0.915	98.5	12
1595	NG 4936B3XF	0.97	1.12	14.2	3.74	1.29	176	5.17	0.92	93	12.5
1598	DP 2012B3XF	0.88	1.01	15.3	4.4	1.16	181	4.57	0.945	62.5	3.5
1599	PHY 400W3FE	0.87	1.03	18.3	5.45	1.21	179	4.8	0.94	69	7.5
	LSD	0.077	0.09	2.55	1.16	0.1	13.7	0.937	0.035	50.5	12.5

Location: Starkville, 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
1503	FM1830GLT	536	728	42.3	9.2	4.8	3.78	17.2	0.855	0.465	1.32
1516	DP1646B2XF	595	786	43.1	8.6	4.6	3.95	14.7	0.755	0.55	1.31
1536	PHY764WRF	598	727	45.2	8.5	4.5	4.28	15.2	0.695	0.55	1.25
1592	DG3520B3XF	540	740	41.8	9.7	5.1	3.86	18.2	0.69	0.52	1.21
1593	ST 4550GLTP	579	802	42.2	9.5	4.8	3.91	17.6	0.8	0.495	1.30
1595	NG4936B3XF	529	710	42.5	8.6	4.1	3.59	14.6	0.595	0.46	1.06
1598	DP2012B3XF	500	636	44.2	8.6	4.8	3.79	17.9	0.695	0.59	1.29
1599	PHY400W3FE	523	706	42.2	9.5	4.6	3.79	15.2	0.51	0.385	0.90
	LSD	228	298	2.45	0.861	1.25	0.631	5.76	0.174	0.181	0.275

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

Location: Suffolk, VA

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM1830GLT	1,505	.	.	9.9	5.6	3.42	18.7	0.635	0.635	1.14
1516	DP1646B2XF	1,776	.	.	8.5	5.3	3.43	17.7	0.77	0.77	1.47
1536	PHY764WRF	1,769	.	.	10.2	5	3.19	22.3	0.685	0.685	1.23
1592	DG3520B3XF	1,739	.	.	10.7	6.2	3.10	24.6	0.71	0.71	1.28
1593	ST 4550GLTP	1,436	.	.	8.8	6.1	2.99	17.5	0.815	0.815	1.49
1595	NG4936B3XF	1,092	.	.	9.4	5.6	3.37	16.8	0.98	0.98	1.54
1598	DP2012B3XF	1,612	.	.	8.6	5.8	3.45	20.1	0.865	0.865	1.41
1599	PHY400W3FE	1,406	.	.	9.4	6	3.12	21.5	0.865	0.865	1.4
	LSD	327			0.516	0.537	0.228	1.39	0.157	0.098	0.248

vcode	VARIETY	Micro naire	Maturity	Upper Half		Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1503	FM 1830GLT	4.6	0.88	1.24	85.6	4.3	34.6	4.8	81.2	6.4
1516	DP 1646B2XF	4.5	0.86	1.24	85.4	4.4	31.1	6.8	78.9	6.6
1536	PHY 764WRF	4.3	0.87	1.18	85.4	5.3	35.4	5.5	78	7.4
1592	DG 3520B3XF	3.8	0.85	1.27	85.5	3.6	31	6.4	80.2	7.6
1593	ST 4550GLTP	4.6	0.87	1.16	86.3	4	31.5	6.5	78.1	7.5
1595	NG 4936B3XF	4.4	0.865	1.21	85.9	4.8	30.5	6.4	80.9	6.3
1598	DP 2012B3XF	4.3	0.87	1.2	84.4	6	30.6	5.1	80	6.8
1599	PHY 400W3FE	4.5	0.875	1.17	84.8	6.1	31	5.3	80.3	7.3
	LSD	0.411	0.014	0.048	2.06	1.47	1.51	0.5	3.15	0.884

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber			Coat
				Content	Content			Content	ratio	Count	Number
1503	FM 1830GLT	0.945	1.14	16.3	4.5	1.31	163	5.4	0.925	98	7
1516	DP 1646B2XF	0.935	1.12	17.8	5.03	1.32	160	6.54	0.88	117	5.5
1536	PHY 764WRF	0.93	1.09	15.5	4.48	1.28	153	6.4	0.89	126	10
1592	DG 3520B3XF	0.97	1.14	15.6	4.19	1.34	151	7.42	0.855	142	7
1593	ST 4550GLTP	0.935	1.08	14.0	3.85	1.24	168	6.05	0.895	95	8
1595	NG 4936B3XF	0.92	1.11	18.9	5.2	1.32	159	6.685	0.87	126	6.5
1598	DP 2012B3XF	0.94	1.11	16.1	4.29	1.30	163	5.75	0.905	84	7
1599	PHY 400W3FE	0.865	1.06	21.9	6.52	1.28	157	6.75	0.88	110.5	7.5
	LSD	0.077	0.048	6.32	2.18	0.026	13.2	1.16	0.04	54.2	7.7



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## 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 1830GLT	1050	1434	41.2	8.99	4.73	3.45	15.2	0.528	0.394	0.921
1516	DP 1646B2XF	1430	1981	42.2	7.81	4.34	3.27	16.6	0.664	0.626	1.29
1536	PHY 764WRF	740	1213	38.2	10.1	4.88	3.54	20.5	0.634	0.478	1.11
1592	DG 3520B3XF	935	1671	39.2	10.6	4.92	3.14	24.7	0.733	0.548	1.28
1593	ST 4550GLTP	1218	1490	43.6	8.41	4.68	3.51	15.7	0.683	0.53	1.21
1595	NG 4936B3XF	1126	1588	39.9	8.51	4.78	3.22	15.1	0.879	0.424	1.30
1598	DP 2012B3XF	1249	1622	40.9	8.73	4.31	3.54	18.3	0.874	0.529	1.40
1599	PHY 400W3FE	1351	1861	41.4	9.17	4.84	3.49	22.6	0.906	0.523	1.43
	LSD	135					0.189	0.718	0.075	0.05	0.118

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short	Strength	Elon	RD	Hunters
				Mean Length		Fiber		gation		Plus b
1503	FM 1830GLT	4.7	0.888	1.20	83.9	5.2	34.7	4.5	79.3	6.8
1516	DP 1646B2XF	4.7	0.875	1.21	83.2	5.7	30.7	5.8	79.3	7.6
1536	PHY 764WRF	4.3	0.876	1.15	83.3	6	36.7	5.1	75.6	8.2
1592	DG 3520B3XF	4.2	0.864	1.21	84.5	4.9	33.7	5.9	74.1	7.7
1593	ST 4550GLTP	4.8	0.883	1.14	83.8	5.6	33.4	5.5	76.9	8.3
1595	NG 4936B3XF	4.6	0.876	1.18	83.7	5.4	31	5.6	80.5	7.3
1598	DP 2012B3XF	4.7	0.884	1.19	83.6	5.5	31.9	4.6	78.6	7.9
1599	PHY 400W3FE	4.6	0.881	1.18	83.9	5.7	34.2	4.9	78.2	7.6
	LSD	0.147	0.005	0.029	1.15	1.17	1.19	0.17	0.997	0.361

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
				Fiber Content Number	Fiber Content Weight			Fiber Content			Coat Number Count
1503	FM 1830GLT	0.899	1.09	19.5	5.31	1.30	163	5.31	0.935	144	15.4
1516	DP 1646B2XF	0.838	1.05	24.5	7.35	1.28	164	6.36	0.883	201	16.6
1536	PHY 764WRF	0.863	1.04	20.0	5.72	1.23	159	6.20	0.9	182	22.4
1592	DG 3520B3XF	0.874	1.08	22.0	5.73	1.29	159	6.75	0.866	210	25.6
1593	ST 4550GLTP	0.855	1.02	19.4	5.6	1.21	167	5.85	0.904	171	19.3
1595	NG 4936B3XF	0.828	1.03	24.5	7.33	1.24	164	5.87	0.895	241	16
1598	DP 2012B3XF	0.888	1.08	19.9	5.38	1.28	169	5.30	0.924	151	14.6
1599	PHY 400W3FE	0.86	1.05	21.7	6.25	1.27	164	5.73	0.913	132	9.88
	LSD	0.033	0.031	1.96	0.851	0.034	3.34	0.405	0.013	46.4	7.18

### CENTRAL 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)					
College Station-Irri	1512.418	2345.167	39.18781	9.134244	5.001442	3.561875	17.26375	0.65	0.461875	1.111875
Weslaco-Irri	1144.37	1346.542	41.18813	8.397875	4.303125	2.8575	19.7775	0.795	0.55125	1.34625
Commerce	583.2188	959.6004	41.02688	9.400875	4.647356	3.865625	18.25875	0.761875	0.485625	1.2475
C Christi-Dry	1144.656	1559.868	41.80625	9.17225	4.666587	3.284375	19.06563	0.743125	0.52625	1.269375

LOCATION	Micronaire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
			Mean Length						
College Station, TX	4.3	0.874	1.19	83.6	5.8	33.5	5.1	78.9	8.1
Weslaco, TX	4.6	0.879	1.17	83.5	5.4	32.4	5.4	77.2	7.3

Commerce, TX	4.8	0.886	1.17	83.9	5.6	33.9	5	77.1	7.7
Corpus Christi, TX	4.5	0.874	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	0.833	1.04	24.7	7.32	1.27	160	6.35	0.888	199	17.5
Weslaco, TX	0.835	1.02	22.6	6.42	1.23	164	5.92	0.902	184	19.9
Commerce, TX	0.876	1.06	20.1	5.66	1.26	169	5.39	0.923	150	14.9
Corpus Christi, TX	0.908	1.09	18.4	4.94	1.29	163	6.01	0.897	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 1830GLT	1340	2259	39.0	9.32	4.91	3.59	13.3	0.48	0.355	0.835
1516	DP 1646B2XF	1854	2539	41.6	8.00	4.65	3.715	15.7	0.51	0.525	1.035
1536	PHY 764WRF	919	1549	37.2	10.30	4.97	3.735	17.4	0.495	0.375	0.87
1592	DG 3520B3XF	1518	2530	37.5	11.03	5.85	3.34	22.9	0.73	0.515	1.245
1593	ST 4550GLTP	1660	2569	41.9	8.06	5.20	3.51	14.8	0.63	0.51	1.14
1595	NG 4936B3XF	1563	2666	38.9	8.66	5.34	3.43	14.2	0.82	0.415	1.235
1598	DP 2012B3XF	1788	2795	39.4	8.97	4.80	3.49	17.5	0.705	0.485	1.19
1599	PHY 400W3FE	1719	2285	40.7	9.04	4.83	3.685	22.4	0.83	0.515	1.345
	LSD	295	645	1.03	0.812	1.49	0.453	1.88	0.198	0.057	0.219

vcodes	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830GLT	4.4	0.885	1.23	84.5	4.8	35.5	4.3	80.5	7.6
1516	DP 1646B2XF	4.5	0.875	1.20	82	7.1	30.8	5.6	79.7	8.2
1536	PHY 764WRF	4.1	0.875	1.17	84.2	5.6	39	4.9	76.6	8.7
1592	DG 3520B3XF	4	0.86	1.22	84.4	5.3	33.9	5.6	76.2	8
1593	ST 4550GLTP	4.6	0.875	1.16	83.5	6	32.5	5.5	78.3	8.7
1595	NG 4936B3XF	4.4	0.87	1.18	83.3	5.8	31.6	5.6	81.1	7.7
1598	DP 2012B3XF	4.5	0.88	1.20	83.1	5.7	30.9	4.6	79.2	8
1599	PHY 400W3FE	4.3	0.875	1.18	83.8	5.8	34.2	4.7	79.4	7.9
	LSD	0.311	0.013	0.077	2.99	3.31	1.44	0.3	1.73	0.986

vcodes	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 1830GLT	0.905	1.12	20.7	5.6	1.33	158	5.75	0.92	140	9.5
1516	DP 1646B2XF	0.78	1.02	29.6	9.42	1.27	164	6.65	0.875	243	11
1536	PHY 764WRF	0.835	1.02	22.6	6.89	1.23	156	6.54	0.89	183	25
1592	DG 3520B3XF	0.845	1.07	24.6	6.65	1.29	156	7.14	0.855	203	19
1593	ST 4550GLTP	0.83	1.03	22.3	6.5	1.23	159	6.25	0.885	206	26.5
1595	NG 4936B3XF	0.745	0.99	32.2	10.3	1.23	162	6.33	0.875	333	23.5
1598	DP 2012B3XF	0.875	1.08	22.3	6.17	1.30	166	6.02	0.905	158	17
1599	PHY 400W3FE	0.845	1.05	23.4	7.02	1.27	160	6.17	0.9	129	8.5
	LSD	0.08	0.058	6.09	2.48	0.064	7.36	0.882	0.026	159	25.4

Location: Weslaco, TX

vcodes	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
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1503	FM 1830GLT	914.3333	785.3139	41.955	8.302	4.351923	3.1	15.195	0.52	0.395	0.915
1516	DP 1646B2XF	1508.667	2026.63	41.995	7.222	3.932692	2.68	17.475	0.685	0.645	1.33
1536	PHY 764WRF	812.75	1192.817	38.765	9.265	4.530769	3.1	22.65	0.72	0.56	1.28
1592	DG 3520B3XF	821.75	1997.857	39.76	9.6255	4.307692	2.775	25.52	0.745	0.575	1.32
1593	ST 4550GLTP	1466.667	1049.285	43.89	7.99	4.690385	2.97	17.535	0.775	0.62	1.395
1595	NG 4936B3XF	1178.333	818.7769	39.92	8.0035	4.146154	2.635	16.11	0.89	0.42	1.31
1598	DP 2012B3XF	1384.667	1113.154	41.31	8.376	4.013462	2.825	19.985	1.01	0.61	1.62
1599	PHY 400W3FE	1250.5	1788.503	41.91	8.399	4.451923	2.775	23.75	1.015	0.585	1.6
	LSD	383					0.358	1.06	0.123	0.086	0.205

					Upper Half						
	vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
	1503	FM 1830GLT	4.8	0.89	1.18	83.6	5.3	33.8	4.5	78.3	6.3
	1516	DP 1646B2XF	4.6	0.875	1.23	83.4	5.2	30.4	5.8	78.5	7.3
	1536	PHY 764WRF	4.5	0.875	1.14	83.3	5.7	33.9	5.2	75.4	7.7
	1592	DG 3520B3XF	4.2	0.865	1.2	84.2	5.1	32.5	6	72.4	7.4
	1593	ST 4550GLTP	4.7	0.88	1.135	83.9	5.5	32.6	5.8	75.9	7.9
	1595	NG 4936B3XF	4.7	0.88	1.165	82.6	5.5	30.9	5.7	80.8	7.4
	1598	DP 2012B3XF	4.7	0.885	1.16	83.7	5.3	31.9	4.7	77.5	7.1
	1599	PHY 400W3FE	4.6	0.88	1.165	83.2	5.9	33.1	5.4	79	7.1
		LSD	0.457	0.016	0.056	1.28	1.41	3.22	0.428	2.31	0.822

				Short Fiber Content	Short Fiber Content			Immature Fiber Content		Maturity ratio	Nep Count	Seed Coat Number
vcode	VARIETY	Length Number	Length Weight	Number	Weight	UQL wt.	Fineness	Content				Count
1503	FM 1830GLT	0.865	1.06	21.0	5.85	1.26	167	5.05		0.94	141	17
1516	DP 1646B2XF	0.81	1.03	26.2	7.8	1.26	160	6.65		0.88	198	20

1536	PHY 764WRF	0.84	1.02	20.9	5.95	1.21	159	6.15	0.895	219	25.5
1592	DG 3520B3XF	0.855	1.07	23.1	5.87	1.28	159	6.77	0.87	230	39
1593	ST 4550GLTP	0.83	1.01	21.2	6.05	1.19	165	5.92	0.895	169	22
1595	NG 4936B3XF	0.815	1.01	23.9	7.22	1.21	165	5.74	0.905	220	11
1598	DP 2012B3XF	0.835	1.03	21.9	6.13	1.22	170	5.22	0.925	151	14.5
1599	PHY 400W3FE	0.83	1.02	22.2	6.53	1.22	165	5.89	0.905	148	10
	LSD	0.069	0.061	4.29	1.79	0.065	5.71	0.7	0.026	75.8	10.4

Location: Commerce, TX

vcode	VARIETY	Lint	Seed	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	636	924	41.9	9.41	4.99	3.77	15.7	0.52	0.36	0.88
1516	DP 1646B2XF	564	917	42.3	8.25	4.29	3.77	17.2	0.735	0.635	1.37
1536	PHY 764WRF	497	960	38.2	10.55	4.80	3.95	19.9	0.695	0.5	1.195
1592	DG 3520B3XF	508	946	39.6	10.95	4.46	3.54	24.8	0.775	0.555	1.33
1593	ST 4550GLTP	516	732	44.1	8.53	4.26	3.97	14.7	0.645	0.44	1.085
1595	NG 4936B3XF	640	1163	39.7	8.80	4.79	3.66	14.5	0.86	0.39	1.25
1598	DP 2012B3XF	578	886	41.1	8.99	4.34	4.15	18.0	0.99	0.54	1.53
1599	PHY 400W3FE	728	1150	41.5	9.73	5.24	4.13	21.3	0.875	0.465	1.34
	LSD	270	791	1.82	1.55	0.93	0.445	1.53	0.115	0.088	0.196

vcode	VARIETY	Micronaire	Maturity	Upper	Short						
				Half Mean Length	Index	Fiber	Strength	Elongation	RD	Hunters Plus b	
1503	FM 1830GLT	4.9	0.895	1.19	83.7	5.3	34.9	4.2	79.3	7	
1516	DP 1646B2XF	4.9	0.88	1.19	84	5.4	31.1	5.5	78.7	7.6	
1536	PHY 764WRF	4.6	0.885	1.14	82.8	6.8	37.7	4.8	75.9	8.4	
1592	DG 3520B3XF	4.5	0.87	1.18	84.1	5	34.5	5.9	73.9	7.7	
1593	ST 4550GLTP	5.1	0.89	1.12	84.4	6.1	34.5	5.4	75.2	8.2	

1595	NG 4936B3XF	4.8	0.885	1.19	84.2	5.5	31.1	5.4	79.8	7.5
1598	DP 2012B3XF	5	0.89	1.19	84.1	5.3	32	4.5	77.9	7.9
1599	PHY 400W3FE	4.8	0.89	1.2	84.4	5.7	35.4	4.8	76	7.6
	LSD	0.322	0.01	0.098	3.2	3.76	3.95	0.728	2.47	0.62

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber	Maturity ratio	Nep Count	Seed Coat Number
				Content Number	Content Weight			Content			
1503	FM 1830GLT	0.9	1.08	18.4	5.1	1.28	167	4.99	0.945	141.5	16
1516	DP 1646B2XF	0.875	1.07	21.3	6.22	1.28	169	5.73	0.905	170	17.5
1536	PHY 764WRF	0.885	1.07	18.5	5.19	1.25	166	5.63	0.925	150	20.5
1592	DG 3520B3XF	0.875	1.07	21.0	5.52	1.27	163	6.14	0.88	173	17.5
1593	ST 4550GLTP	0.84	1.00	19.6	6	1.18	174	5.68	0.92	174	16
1595	NG 4936B3XF	0.855	1.05	22.5	6.47	1.26	167	5.61	0.91	177	12.5
1598	DP 2012B3XF	0.91	1.09	18.0	4.67	1.28	178	4.28	0.96	109	10
1599	PHY 400W3FE	0.865	1.07	21.7	6.1	1.28	169	5.09	0.935	109	9.5
	0.063	0.085	3.02	1.67	0.101	11	1.36	0.04	50.8	5.91	

Location: Corpus Christi, TX

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 1830GLT	1277	1768	41.9	8.92	4.66	3.35	16.5	0.59	0.465	1.06
1516	DP 1646B2XF	1390	1882	43.6	7.54	4.17	2.90	15.9	0.725	0.7	1.43
1536	PHY 764WRF	555	815	39.4	10.18	5.11	3.37	22.1	0.625	0.475	1.10

1592	DG 3520B3XF	890	1210	40.1	10.92	5.05	2.91	25.5	0.68	0.545	1.23
1593	ST 4550GLTP	1292	1609	44.5	9.05	4.59	3.58	16.0	0.685	0.55	1.24
1595	NG 4936B3XF	1137	1705	41.3	8.58	4.82	3.15	15.7	0.945	0.47	1.42
1598	DP 2012B3XF	1279	1691	41.8	8.58	4.09	3.68	17.9	0.79	0.48	1.27
1599	PHY 400W3FE	1338	1798	42.0	9.61	4.84	3.35	23.0	0.905	0.525	1.43
	LSD	199	418	1.46	1.33	1.24	0.443	1.79	0.213	0.176	0.388

vcode	VARIETY	Micronaire	Maturity	Upper Half Mean Length	Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.6	0.88	1.21	83.9	5.3	34.6	4.9	79.3	6.5
1516	DP 1646B2XF	4.6	0.87	1.23	83.7	4.9	30.6	6.4	80.5	7.5
1536	PHY 764WRF	4.2	0.87	1.14	82.9	5.8	36.1	5.5	74.6	7.9
1592	DG 3520B3XF	4.2	0.86	1.23	85.5	4.1	33.9	6.3	74.1	7.8
1593	ST 4550GLTP	4.9	0.885	1.15	83.4	5.1	33.9	5.5	78.2	8.5
1595	NG 4936B3XF	4.6	0.87	1.19	84.5	4.7	30.6	6	80.4	6.7
1598	DP 2012B3XF	4.6	0.88	1.2	83.6	5.9	33	4.8	79.9	8.5
1599	PHY 400W3FE	4.7	0.88	1.19	84.2	5.5	34.1	5	78.4	7.7
	LSD	0.147	0.006	0.047	2.69	2.08	1.61	0.369	2.37	0.746

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 1830GLT	0.925	1.12	18	4.7	1.33	160	5.44	0.935	154	19
1516	DP 1646B2XF	0.885	1.08	21.1	5.95	1.31	162	6.4	0.87	192	18
1536	PHY 764WRF	0.89	1.07	18.1	4.87	1.25	156	6.47	0.89	176	18.5
1592	DG 3520B3XF	0.92	1.12	19.4	4.87	1.32	158	6.97	0.86	233	27



1593	ST 4550GLTP	0.92	1.07	14.3	3.85	1.24	172	5.55	0.915	134	12.5
1595	NG 4936B3XF	0.895	1.08	19.3	5.34	1.28	165	5.82	0.89	235	17
1598	DP 2012B3XF	0.93	1.12	17.6	4.57	1.32	164	5.7	0.905	187	17
1599	PHY 400W3FE	0.9	1.09	19.8	5.37	1.31	165	5.77	0.91	144	11.5
	LSD	0.079	0.073	3.33	1.51	0.079	4.08	0.384	0.019	96.4	15.7



## 2021 National Cotton Variety Test

**Crop Genetics Research Unit  
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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	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	924	1493	39.3	9.5	5	3.4	15.7	0.645	0.455	1.1
1516	DP 1646B2XF	1152	1658	41.7	8.4	4.8	3.15	18.5	0.725	0.645	1.37
1536	PHY 764WRF	914	1414	40.5	10.9	5.2	3.62	21.6	0.65	0.5	1.15
1592	DG 3520B3XF	1018	1804	38.0	10.8	5.7	3.4	23.6	0.69	0.51	1.2
1593	ST 4550GLTP	990	1638	38.8	10.2	5.2	3.75	15.1	0.655	0.5	1.16
1595	NG 4936B3XF	1077	1851	39.1	10.1	5.3	3.32	15.5	0.87	0.45	1.32
1598	DP 2012B3XF	1168	1932	39.7	9.1	4.6	3.50	19.1	0.915	0.535	1.45
1599	PHY 400W3FE	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	0.475	0.94	0.077	0.066	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 1830GLT	4.2	0.869	1.26	85.1	4.1	33	5.1	79.6	7.2
1516	DP 1646B2XF	4.4	0.87	1.26	84.9	4.4	31.4	6	78.6	7.5
1536	PHY 764WRF	4.2	0.868	1.22	85.5	4.4	36.4	5.7	77.1	7.7
1592	DG 3520B3XF	3.8	0.851	1.27	85.2	4.2	31.9	6.1	78.4	7.6
1593	ST 4550GLTP	4.4	0.869	1.22	85.7	4.1	33.5	6	77.7	7.9
1595	NG 4936B3XF	4.4	0.871	1.26	85.4	4	31.1	5.9	79.8	7.3
1598	DP 2012B3XF	4.2	0.871	1.24	85.4	4	33.5	5.2	77.9	7.5
1599	PHY 400W3FE	4.4	0.874	1.23	85.3	4.9	33.5	5.4	78.4	7.5
	LSD	0.236	0.007	0.03	0.96	0.95	2.29	0.37	1.2	0.396

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Fiber	Fiber			Fiber			
1503	FM 1830GLT	0.918	1.11	19.3	5.53	1.33	157	5.98	0.903	178	14.8
1516	DP 1646B2XF	0.911	1.11	20.3	5.86	1.34	160	6.39	0.881	145	12.6
1536	PHY 764WRF	0.905	1.09	19.1	5.50	1.30	157	6.44	0.895	164	16.5
1592	DG 3520B3XF	0.923	1.12	19.8	5.61	1.34	154	6.97	0.866	184	15.4
1593	ST 4550GLTP	0.913	1.09	17.9	5.04	1.28	159	6.54	0.888	154	14
1595	NG 4936B3XF	0.938	1.13	18.7	5.14	1.34	160	6.30	0.886	159	16.9
1598	DP 2012B3XF	0.928	1.11	17.8	4.88	1.31	162	6.14	0.903	127	9.63
1599	PHY 400W3FE	0.914	1.10	18.7	5.28	1.30	162	5.95	0.906	130	10.8
	LSD	0.034	0.026	2.61	0.933	0.024	6.01	0.512	0.018	33.9	6.38

### DELTA 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
Keiser, AR	1266	1648	44.3	9	4.2	3.50	18.9	0.748	0.509	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	0.869	1.24	84.7	4.8	33.4	5.4	72.1	7.1
Jackson, TN	4.2	0.863	1.24	85.7	3.7	33.6	6.3	83.3	8.3
Portageville, MO	4.6	0.875	1.27	85.7	3.7	32.5	5.7	79.1	7.6
Keiser, AR	4.1	0.865	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	205	20.8	0.861	1.08	1.32	23.7	7.02	156	6.50	0.883
Jackson, TN	112	9.31	0.959	1.13	1.32	15.8	4.23	160	6.58	0.879
Portageville, MO	169	11.5	0.95	1.14	1.36	18.2	4.90	164	5.82	0.914
Keiser, AR	135	13.7	0.903	1.08	1.28	18.1	5.27	156	6.47	0.889

### 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 1838	.	.	.	.	.	.	.	.	.	.
1516	DP 1646	.	.	.	.	.	.	.	.	.	.
1536	PHY 764	.	.	.	.	.	.	.	.	.	.
1592	DG 3520	.	.	.	.	.	.	.	.	.	.
1593	ST 4550	.	.	.	.	.	.	.	.	.	.
1595	NG 4936	.	.	.	.	.	.	.	.	.	.
1598	DP 2012	.	.	.	.	.	.	.	.	.	.
1599	PHY 400	.	.	.	.	.	.	.	.	.	.

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

Upper Half

vcode	VARIETY	Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.1	0.87	1.26	85.6	3.5	34.7	5.3	85.3	7.8
1516	DP 1646B2XF	4.4	0.86	1.27	85.5	3.3	31	7	83.9	8.5
1536	PHY 764WRF	4	0.86	1.21	85.6	3.8	37.6	6.5	81.7	8.6
1592	DG 3520B3XF	3.6	0.84	1.27	86.4	3.2	33.7	6.9	82.7	8.5
1593	ST 4550GLTP	4.5	0.865	1.18	85.3	4.1	33.7	7	81.9	8.7
1595	NG 4936B3XF	4.4	0.865	1.26	86.7	3.3	31.4	6.8	84.6	7.4
1598	DP 2012B3XF	4.3	0.87	1.23	84.7	4.2	33.2	5.6	84.1	8.2
1599	PHY 400W3FE	4.4	0.87	1.23	86.2	4	34	5.8	82.6	8.7
	LSD	0.542	0.014	0.049	1.25	1.12	2.55	0.258	0.973	0.453

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight			Content			Number
1503	FM 1830GLT	0.985	1.15	15.0	3.87	1.36	158	6.17	0.905	111	5
1516	DP 1646B2XF	0.96	1.13	16.4	4.42	1.34	163	6.7	0.86	124	10
1536	PHY 764WRF	0.92	1.09	16.8	4.67	1.27	153	7.17	0.87	97.5	9.5
1592	DG 3520B3XF	0.99	1.16	15.1	3.9	1.36	157	7.02	0.86	115	9
1593	ST 4550GLTP	0.945	1.10	14.4	3.87	1.26	163	6.72	0.875	106	13
1595	NG 4936B3XF	1	1.18	15.5	3.89	1.38	161	6.79	0.865	144	17.5
1598	DP 2012B3XF	0.96	1.13	15.3	4.05	1.31	165	6.08	0.895	94	4
1599	PHY 400W3FE	0.915	1.10	18.2	5.2	1.31	163	6	0.9	105	6.5
	LSD	0.059	0.048	4.53	1.52	0.045	12.7	1.11	0.04	59.1	18.4

Location: Portageville, MO

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1503	FM 1838	1047	1901	35.3	10.5	6.1	.	.	.	.	.
1516	DP 1646	1449	2136	40.4	9.1	5.5	.	.	.	.	.
1536	PHY 764	1058	1640	38.8	11.6	6	.	.	.	.	.
1592	DG 3520	1131	2167	34.3	11.4	7	.	.	.	.	.
1593	ST 4550	1061	1954	34.8	11.4	6.1	.	.	.	.	.
1595	NG 4936	1245	2199	36.1	10.8	6.2	.	.	.	.	.
1598	DP 2012	1481	2536	36.9	9.9	5.1	.	.	.	.	.
1599	PHY 400	1364	2158	38.7	9.8	5.6	.	.	.	.	.

LSD

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.7	0.875	1.32	85.5	2.9	31.5	5.8	79.3	7.6
1516	DP 1646B2XF	4.6	0.88	1.27	84	4.6	30.1	5.7	79.5	7.1
1536	PHY 764WRF	4.5	0.875	1.24	85.8	4.2	37.1	6	79	8.3
1592	DG 3520B3XF	4	0.855	1.35	85.8	2.7	32.2	6.4	78.3	7.5
1593	ST 4550GLTP	4.6	0.875	1.23	87	3.9	34.3	6.2	77.8	8.1
1595	NG 4936B3XF	4.6	0.875	1.30	86.2	3.2	29.7	5.6	80.6	7.4
1598	DP 2012B3XF	4.6	0.88	1.27	86.3	3.5	33.2	4.7	78.3	7.3
1599	PHY 400W3FE	4.8	0.885	1.24	85.3	5	32.4	5.1	79.8	7.7
	LSD	0.4843	0.014	0.052	2.06	1.5	5.36	1.13	2.17	0.622

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
				Fiber Content Number	Fiber Content Weight			Fiber Content			Coat Number
1503	FM 1830GLT	0.945	1.16	19.3	5.08	1.39	164	5.57	0.915	247	22
1516	DP 1646B2XF	0.94	1.14	19.2	5.45	1.38	165	5.72	0.91	103	7
1536	PHY 764WRF	0.955	1.14	17.6	4.63	1.35	163	5.63	0.92	210	13.5
1592	DG 3520B3XF	0.995	1.20	17.3	4.33	1.42	158	6.79	0.885	180	11
1593	ST 4550GLTP	0.915	1.1	19.0	5.25	1.3	161	6.55	0.905	207	13
1595	NG 4936B3XF	0.97	1.16	17.8	4.72	1.38	164	5.79	0.91	171	14.5
1598	DP 2012B3XF	0.955	1.14	17.2	4.64	1.34	168	5.23	0.94	87.5	5
1599	PHY 400W3FE	0.925	1.11	18.4	5.09	1.31	167	5.27	0.925	148	6
	LSD	0.072	0.053	5	1.56	0.057	16.2	0.99	0.043	67	10.3

Location: Keiser, AR

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 1838	1165	1452	44.7	8.5	3.9	3.4	15.7	0.645	0.455	1.1
1516	DP 1646	1485	1732	46.0	7.7	4.1	3.15	18.5	0.725	0.645	1.37
1536	PHY 764	964	1278	42.8	10.1	4.4	3.62	21.6	0.65	0.5	1.15
1592	DG 3520	1295	1915	42.0	10.2	4.4	3.4	23.6	0.69	0.51	1.2
1593	ST 4550	1272	1560	45.8	9	4.3	3.75	15.1	0.655	0.5	1.155
1595	NG 4936	1325	1895	42.8	9.3	4.4	3.32	15.5	0.87	0.45	1.32
1598	DP 2012	1329	1751	43.9	8.2	4.1	3.50	19.1	0.915	0.535	1.45
1599	PHY 400	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	0.729	0.472	0.858	0.075	0.063	0.128



vcode	VARIETY	Micronaire	Maturity	Upper Half		Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length							
1503	FM 1830GLT	4	0.865	1.25		85.5	4.4	33.7	4.6	82	6.8
1516	DP 1646B2XF	4.5	0.87	1.26		85.4	4.4	29	6	80.3	6.8
1536	PHY 764WRF	3.9	0.86	1.24		86.1	4.3	38.6	5.4	76.9	7.3
1592	DG 3520B3XF	3.4	0.845	1.22		84	6.3	31.5	5.8	79.2	7.5
1593	ST 4550GLTP	4.3	0.87	1.16		85	5.2	33	5.8	79	7.9
1595	NG 4936B3XF	4.2	0.87	1.25		84.4	4.3	29.5	5.5	80.4	6.9
1598	DP 2012B3XF	4.1	0.87	1.23		85.7	4.3	32.1	4.9	78.6	6.7
1599	PHY 400W3FE	4.1	0.87	1.22		85	5.4	32.7	5.2	78.1	7
	LSD	0.289	0.008	0.063		2.49	1.98	3.13	0.472	3.42	1.1

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber	Maturity ratio	Nep	Seed Coat Number
				Content Number	Content Weight			Content		Count	Count
1503	FM 1830GLT	0.91	1.09	18	5.3	1.3	149	6.2	0.9	143	9.5
1516	DP 1646B2XF	0.9	1.1	21	6.07	1.34	156	6.57	0.875	137	12.5
1536	PHY 764WRF	0.905	1.08	17.1	5.03	1.27	154	6.68	0.895	159	24
1592	DG 3520B3XF	0.875	1.07	20.8	6.17	1.28	148	7.54	0.85	189	20
1593	ST 4550GLTP	0.885	1.04	16.3	4.99	1.21	160	6.47	0.885	128	12
1595	NG 4936B3XF	0.925	1.10	17.0	4.7	1.29	159	6.35	0.89	130	15
1598	DP 2012B3XF	0.91	1.07	16.4	4.65	1.26	162	5.93	0.91	96.5	8
1599	PHY 400W3FE	0.91	1.09	18.2	5.25	1.29	160	6	0.905	100	8.5
	LSD	0.066	0.06	4.6	1.63	0.059	8.09	0.73	0.023	58.7	8.84

Location: Stoneville, MS

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1503	FM 1838	561	718	41.9	.	.	.	.	.	.	.
1516	DP 1646	520	627	40.1	.	.	.	.	.	.	.
1536	PHY 764	721	1098	41.5	.	.	.	.	.	.	.
1592	DG 3520	628	968	41.4	.	.	.	.	.	.	.
1593	ST 4550	636	1086	39.8	.	.	.	.	.	.	.
1595	NG 4936	661	1112	41.5	.	.	.	.	.	.	.
1598	DP 2012	694	905	40.9	.	.	.	.	.	.	.
1599	PHY 400	603	799	39.9	.	.	.	.	.	.	.
	LSD	715	1019	3.92							

vcode	VARIETY	Micronaire	Maturity	Upper Half			Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index						
1503	FM 1830GLT	4.1	0.86	1.18	81.7		7.9	32.1	6.7	69.4	6.8
1516	DP 1646B2XF	4.6	0.87	1.21	83.3		5.7	33.8	7.2	69.4	6.7
1536	PHY 764WRF	4.8	0.88	1.15	83.5		6.8	32.5	6.3	68.2	6.3
1592	DG 3520B3XF	5	0.89	1.2	84.1		5.6	31	6.3	73.4	6.8
1593	ST 4550GLTP	4.6	0.88	1.17	81.4		8	30.3	6.5	70.5	6.7
1595	NG 4936B3XF	5	0.88	1.15	82.7		7.2	31.4	7.1	70.1	7
1598	DP 2012B3XF	4.7	0.88	1.16	82.8		6.5	33.2	6.1	68.2	7.3
1599	PHY 400W3FE	4.6	0.87	1.17	83.5		7.6	33.3	7.1	67.7	7.1
	LSD	0.758	0.025	0.091	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 1830GLT	0.83	1.05	25.0	7.89	1.29	156	6	0.89	212	22.5
1516	DP 1646B2XF	0.845	1.06	24.7	7.5	1.30	157	6.58	0.88	219	21
1536	PHY 764WRF	0.84	1.07	25.1	7.65	1.31	158	6.3	0.895	191	19
1592	DG 3520B3XF	0.83	1.06	26.2	8.05	1.32	156	6.54	0.87	252	21.5
1593	ST 4550GLTP	0.905	1.12	21.9	6.04	1.37	155	6.44	0.885	178	18
1595	NG 4936B3XF	0.855	1.08	24.4	7.27	1.31	157	6.29	0.88	192	20.5
1598	DP 2012B3XF	0.885	1.11	22.5	6.2	1.34	152	7.32	0.865	228	21.5
1599	PHY 400W3FE	0.905	1.11	20.2	5.57	1.32	160	6.53	0.895	169	22
	LSD	0.1	0.073	8.26	3.14	0.058	15.6	1.58	0.052	110	18.8



# 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.*

## 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	Boll				Plus	Minus	Free	
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen oil				Gossypol
1503	FM 1830GLT	1511	1959	.	9.44	6.04	.	8.02	9.95	0.563	0.86
1516	DP 1646B2XF	1553	2023	.	8.23	5.22	.	16.1	0.58	0.5	1.08
1536	PHY 764WRF	1474	1952	.	10.35	5.74	.	11.1	10.9	0.42	0.995
1592	DG 3520B3XF	1035	1507	.	10.73	5.49	.	12.6	11.0	0.46	1.11
1593	ST 4550GLTP	1597	1856	.	9.03	5.82	.	9.50	7.85	0.51	1.17
1595	NG 4936B3XF	1478	2125	.	9.63	5.76	.	8.17	8.24	0.665	0.873
1598	DP 2012B3XF	1787	2341	.	8.37	4.89	.	10.0	9.62	0.455	1.27
1599	PHY 400W3FE	1855	2259	.	9.26	5.48	.	12.1	10.4	0.623	0.99
	LSD	225	309		0.317	0.974	0.382	1.91			

vcode	VARIETY	Micronaire	Maturity	Upper Half						
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.1	0.872	1.19	82.6	5.9	32	4.6	79.7	8.5
1516	DP 1646B2XF	4.2	0.865	1.22	83	6	30.6	5.8	79.1	8.9
1536	PHY 764WRF	4.2	0.87	1.19	84.3	5.2	36.9	5.2	77.4	9.5
1592	DG 3520B3XF	3.6	0.847	1.24	84.4	4.7	32.1	6.1	77.4	8.9
1593	ST 4550GLTP	4.5	0.873	1.17	83.9	5.5	32.3	5.9	76.9	9.6
1595	NG 4936B3XF	4.4	0.87	1.21	84.3	5.6	30	5.8	80	8.8
1598	DP 2012B3XF	4.3	0.873	1.18	83.1	6.4	30	4.7	79	9.3
1599	PHY 400W3FE	4.5	0.88	1.16	82.3	7.5	32.7	5	78.4	8.8
	LSD	0.405	0.012	0.044	1.45	1.32	1.82	0.299	1.56	0.387

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber			Coat
				Content	Content	Weight		Content	ratio	Count	Number
1503	FM 1830GLT	0.822	1.03	25.1	8.22	1.27	157	6.40	0.9	207	19.3
1516	DP 1646B2XF	0.803	1.02	27.2	9.15	1.28	161	6.71	0.873	215	13.8
1536	PHY 764WRF	0.838	1.03	22.5	7.24	1.24	162	6.49	0.895	195	24.8
1592	DG 3520B3XF	0.845	1.07	25.0	7.71	1.31	156	7.52	0.848	247	21.3
1593	ST 4550GLTP	0.803	0.992	24.5	8.11	1.21	166	6.42	0.89	188	18.3
1595	NG 4936B3XF	0.815	1.03	26.1	8.58	1.27	168	6.5	0.887	214	25.3
1598	DP 2012B3XF	0.8	1.00	25.9	8.47	1.23	170	5.93	0.912	147	13.8
1599	PHY 400W3FE	0.772	0.983	28.5	9.69	1.22	172	6.05	0.917	147	13
	LSD	0.039	0.038	2.72	1.31	0.046	8.69	0.742	0.025	62.1	7.07

### WESTERN 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
Five Point, CA	1855	2458	.	9.6	5.64	.	16.5	0.683	0.454	1.14
Las Cruces, NM	1218	1548	.	9.27	5.47	.	5.42	18.7	0.91	0.523

LOCATION	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
Five Point, CA	4	0.865	1.21	83.3	5.5	32.3	5.1	71.8	9.1
Las Cruces, NM	4.1	0.862	1.20	83.6	6	29.9	5.9	82.3	8.8
Maricopa, AZ	4.6	0.879	1.18	83.5	6.1	34	5.1	81.3	9.2

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
Five Point, CA	0.799	1.03	28.1	8.89	1.27	156	7.30	0.881	239	24.9
Las Cruces, NM	0.812	1.00	24.6	8.68	1.24	165	6.59	0.877	163	15.9
Maricopa, AZ	0.826	1.02	24.1	7.62	1.24	170	5.62	0.913	184	15.4

### WESTERN REGION INDIVIDUAL LOCATION SUMMARIES

Location: Five Points, CA

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 1830GLT	1879	25001	.	9.3	5.87	.	12.3	0.575	0.41	0.985
1516	DP 1646B2XF	1958	2528	.	8.6	5.39	.	14.2	0.58	0.5	1.08
1536	PHY 764WRF	1673	2313	.	10.6	5.83	.	18.6	0.575	0.42	0.995
1592	DG 3520B3XF	1326	1966	.	10.8	5.58	.	21.8	0.645	0.46	1.12
1593	ST 4550GLTP	1851	2138	.	9.2	5.80	.	15.0	0.66	0.51	1.17
1595	NG 4936B3XF	1721	2594	.	9.5	5.92	.	13.0	0.83	0.43	1.26
1598	DP 2012B3XF	2167	2928	.	9.2	5.02	.	16.5	0.815	0.455	1.27
1599	PHY 400W3FE	2263	2696	.	9.6	5.7	.	20.5	0.78	0.45	1.23

LSD

vcode	VARIETY	Micronaire	Maturity	Upper Half						
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	3.8	0.865	1.24	83.7	4.4	32.6	4.4	71.5	8.3
1516	DP 1646B2XF	4.1	0.865	1.24	83.1	5.1	31.9	5.4	73.6	9
1536	PHY 764WRF	4	0.865	1.21	83.6	5.5	37.8	5.1	71.5	9.5
1592	DG 3520B3XF	3.2	0.84	1.24	84.7	4.4	31.8	5.8	69.6	8.6
1593	ST 4550GLTP	4.2	0.865	1.18	84.1	5.2	31.8	5.8	68.5	9.6
1595	NG 4936B3XF	4.3	0.87	1.21	83.6	5.3	30.9	5.5	74.2	9.2
1598	DP 2012B3XF	3.9	0.87	1.21	82.8	6	30.7	4.5	72.6	9.2
1599	PHY 400W3FE	4.4	0.88	1.16	81	7.9	31	4.7	73	9.2
	LSD	1.15	0.035	0.081	2.58	2.63	4.6	0.416	4.27	0.44

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 1830GLT	0.805	1.045	28.5	9.03	1.31	145	7.77	0.875	291	22.5
1516	DP 1646B2XF	0.79	1.025	29.1	9.6	1.29	156	7.17	0.875	219	20
1536	PHY 764WRF	0.84	1.05	24.3	7.38	1.28	154	7.35	0.885	269	39
1592	DG 3520B3XF	0.795	1.05	30.1	9.3	1.3	147	8.57	0.84	348	33
1593	ST 4550GLTP	0.8	1.005	25.9	8.2	1.23	152	7.4	0.855	274	28
1595	NG 4936B3XF	0.825	1.045	26.2	8.1	1.29	165	7.15	0.895	207	25
1598	DP 2012B3XF	0.78	1.02	30.0	9.52	1.26	163	6.9	0.905	165	16
1599	PHY 400W3FE	0.755	0.985	30.7	9.99	1.23	168	6.07	0.915	139	15.5
	LSD	0.072	0.069	4.77	2.58	0.08	21	1.48	0.057	177	18.7



Location: Las Cruces, NM

vcode	VARIETY	Lint	Seed	Boll							
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	1143	1418	.	9.51	6.21	.	3.71	19.3	0.87	0.61
1516	DP 1646B2XF	1148	1518	.	8.04	5.06	.	18.1	.	.	.
1536	PHY 764WRF	1275	1591	.	10.2	5.66	.	3.64	21.2	.	.
1592	DG 3520B3XF	744	1048	.	10.7	5.40	.	3.43	21.4	.	.
1593	ST 4550GLTP	1344	1574	.	8.95	5.83	.	3.98	15.0	.	.
1595	NG 4936B3XF	1236	1655	.	9.69	5.60	.	3.29	15.7	0.9	0.485
1598	DP 2012B3XF	1407	1755	.	7.95	4.76	.	3.58	18.4	.	.
1599	PHY 400W3FE	1447	1821	.	9.09	5.26	.	3.69	20.0	0.97	0.51
	LSD	391	563	2.68	0.564	1.36	0.666	3.45			

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4	0.865	1.23	83	6	30.1	5.1	85.6	8.1
1516	DP 1646B2XF	4	0.85	1.20	82.8	6.6	27.8	6.5	81.7	8.6
1536	PHY 764WRF	4.1	0.865	1.23	85.2	4.5	33.7	5.6	81	9.6
1592	DG 3520B3XF	3.4	0.84	1.25	84	4.5	29.8	6.6	82	9.1
1593	ST 4550GLTP	4.3	0.865	1.16	84.2	5.8	30.2	6.4	82.1	9.4
1595	NG 4936B3XF	4.3	0.865	1.22	84.9	5.7	28.4	6.3	82.1	8.3
1598	DP 2012B3XF	4.4	0.87	1.16	82.8	6.7	28	5.3	82	9.1
1599	PHY 400W3FE	4.4	0.875	1.14	82.1	8.2	31.2	5.3	81.9	8.6
	LSD	0.546	0.021	0.1	3.02	2.86	3.01	0.81	2.2	0.884

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
		Number	Weight	Fiber	Fiber			Fiber			
				Content	Content			Content	ratio	Count	Number
1503	FM 1830GLT	0.835	1.04	24.6	8.38	1.3	151	6.73	0.87	181	21.5
1516	DP 1646B2XF	0.79	1	27.4	9.72	1.26	160	7.04	0.85	230	13.5
1536	PHY 764WRF	0.845	1.02	21.1	7.32	1.24	169	6.25	0.89	118	21
1592	DG 3520B3XF	0.87	1.07	22	7.05	1.32	155	7.57	0.83	186	15.5
1593	ST 4550GLTP	0.795	0.97	24.2	8.77	1.19	172	6.39	0.895	119	12
1595	NG 4936B3XF	0.79	1	26.9	9.75	1.24	166	6.84	0.86	208	22
1598	DP 2012B3XF	0.8	0.98	23.7	8.37	1.20	176	5.67	0.905	134	13
1599	PHY 400W3FE	0.77	0.96	26.9	10.1	1.19	175	6.25	0.915	126	9
	LSD	0.086	0.079	5.62	2.78	0.091	13	1.49	0.044	56.8	8.21

Location: Maricopa, AZ\*

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

\*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 1830GLT	4.6	0.885	1.11	81.2	7.5	33.2	4.4	82.1	9.1
1516	DP 1646B2XF	4.6	0.88	1.21	83	6.5	32	5.5	81.9	9.2
1536	PHY 764WRF	4.4	0.88	1.14	84.2	5.6	39.2	5	79.6	9.4
1592	DG 3520B3XF	4.1	0.86	1.22	84.7	5.2	34.8	5.9	80.6	9
1593	ST 4550GLTP	5	0.89	1.16	83.3	5.6	34.8	5.6	80	9.7
1595	NG 4936B3XF	4.6	0.875	1.22	84.4	5.7	30.8	5.6	83.6	8.8
1598	DP 2012B3XF	4.6	0.88	1.18	83.6	6.5	31.2	4.4	82.5	9.5
1599	PHY 400W3FE	4.8	0.885	1.18	83.9	6.4	36.1	5	80.2	8.7
	LSD	0.402	0.01	0.061	2.58	2.01	2.75	0.424	1.78	0.803

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber	Maturity ratio	Nep Count	Seed Coat Number
				Content Number	Content Weight			Content			Count
1503	FM 1830GLT	0.83	0.995	22.3	7.25	1.20	176	4.69	0.955	149	14
1516	DP 1646B2XF	0.83	1.04	25.2	8.12	1.29	167	5.92	0.895	197	8
1536	PHY 764WRF	0.83	1.01	22	7.03	1.21	164	5.87	0.91	199	14.5
1592	DG 3520B3XF	0.87	1.08	22.9	6.78	1.31	165	6.43	0.875	208	15.5
1593	ST 4550GLTP	0.82	1	23.6	7.37	1.2	175	5.47	0.92	171	15
1595	NG 4936B3XF	0.83	1.04	25.1	7.9	1.27	172	5.52	0.905	228	29
1598	DP 2012B3XF	0.82	1.01	24	7.54	1.23	172	5.22	0.925	142	12.5
1599	PHY 400W3FE	0.79	1.01	28	8.97	1.24	172	5.84	0.92	178	14.5
	LSD	0.067	0.07	5.86	2.3	0.087	14.8	1.26	0.042	82.8	11.1



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## PIMA REGION

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



**PIMA REGION SUMMARY BY LOCATION SITES**

LOCATION	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus	Minus	Free
	Yield (lb/a)	Yield (lb/a)			Size (g/boll)			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	.	.	.

LOCATION	Micronaire	Maturity	Upper Half	Uniformity	Short Fiber	Strength	Elongation	RD	Hunters Plus b
			Mean Length	Index					
Five Point, CA	4.4	0.881	1.44	86.3	2.6	47	5.3	61.2	12.2
Las Cruces, NM	4.3	0.874	1.39	86.7	2.9	43.5	5.6	73.5	10.9

LOCATION	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
			Fiber Content Number	Fiber Content Weight			Fiber Content			Coat Number Count
Five Point, CA	0.903	1.19	26.3	6.92	1.48	141	6.00	0.919	132	18.5
Las Cruces, NM	0.976	1.19	18.8	5.13	1.43	149	5.72	0.918	129	9.88

**PIMA REGION – INDIVIDUAL LOCATION SUMMARIES**

Location: Five Points, CA

vcode	VARIETY	Lint	Seed	Boll				Plus	Minus	Free	
		Yield	Yield	Lint	Seed	Size	Nitrogen				Oil
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1532	PHY 881RF	890.75	1359.253889		14.3	3.97	3.87	19.51	0.53	0.58	1.11
1579	DP 341RF	941	1469.997942		13.6	3.8	4.01	20.72	0.47	0.51	0.98
1597	DP 359RF	860.75	1199.933807		12.7	3.73	3.93	20.93	0.52	0.55	1.07
1611	DP 347RF	892.25	1365.425992		12.85	3.64	3.9	19.17	0.6	0.65	1.24

LSD

vcode	VARIETY	Micronaire	Maturity	Upper Half			Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index						
1532	PHY 881RF	4.3	0.88	1.51	88		2.5	46.7	5.2	61.4	11.9
1579	DP 341RF	4.4	0.885	1.45	84.6		2.5	48.5	5.4	59.6	12.4
1597	DP 359RF	4.5	0.885	1.41	86.1		2.6	45.3	5.2	60.4	12.6
1611	DP 347RF	4.2	0.875	1.39	86.8		2.6	47.7	5.3	63.2	12.1
	LSD	0.877	0.026	0.029	2.43		0	4.55	0.295	2.94	1.25

vcode	VARIETY	Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
				Fiber	Fiber						Fiber
		Number	Weight	Content	Content			Content	ratio	Count	Count
1532	PHY 881RF	0.9	1.22	27.9	7.22	1.54	140	6.27	0.915	143	18.5
1579	DP 341RF	0.87	1.17	28.6	7.73	1.47	142	6.1	0.915	149	19.5
1597	DP 359RF	0.9	1.19	26.5	7.09	1.48	140	6.12	0.91	114	18
1611	DP 347RF	0.94	1.2	22.4	5.64	1.46	145	5.54	0.935	123	18
	LSD	0.143	0.11	9.17	3.52	0.092	17	2.13	0.083	46	11.7

Location: Las Cruces, NM

vcode	VARIETY	Lint	Seed			Boll			Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1532	PHY 881RF	189	285		13.2	4.24	4.07	20.8	.	.	.
1579	DP 341RF	217	324		12.7	4.5	4.04	21.3	.	.	.
1597	DP 359RF	505	719		13.3	4.08	3.74	21.3	.	.	.
1611	DP 347RF	408	563		9.59	4.26	4.01	22.1	.	.	.
	LSD	198	273	3.17	0.915	1.95					

vcode	VARIETY	Upper Half									
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b	
1532	PHY 881RF	4.4	0.88	1.47	87.2	2.5	47.7	5.5	71.1	11.3	
1579	DP 341RF	4	0.87	1.38	86.8	2.8	42.2	5.7	76.9	10.1	
1597	DP 359RF	4.3	0.875	1.4	86.9	2.6	45	5.5	70.8	11.9	
1611	DP 347RF	4.3	0.87	1.32	85.9	3.9	39.1	5.6	75.1	10.4	
	LSD	0.276	0.01	0.252	3.88	2.81	12.3	0.572	16.1	3.66	

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed
				Fiber Content	Fiber Content						Coat Number
1532	PHY 881RF	1.03	1.24	16.8	4.2	1.51	147	6.22	0.92	135	5.5
1579	DP 341RF	0.94	1.15	20.3	6.04	1.39	151	5.87	0.91	123	8
1597	DP 359RF	1	1.22	17.8	4.12	1.47	149	5.27	0.935	111	8
1611	DP 347RF	0.935	1.14	20.2	6.17	1.37	149	5.53	0.905	149	18
	LSD	0.39	0.4	15.1	7.78	0.411	20.3	1.12	0.053	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	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1126	48335	38.4	8.4	4.9	3.60	16.5	0.712	0.525	.
1536	PHY 764WRF	745	28710	35.9	10.3	4.9	3.48	19.3	0.627	0.45	.
1587	NM 18B1593	955	29679	36.4	9.4	5	3.79	17.6	0.663	0.434	.
1599	PHY 400W3FE	1173	446523	39.5	9.5	4.9	3.43	20.3	0.82	0.473	.
1601	ST 4990B3XF	1109	48201	35.9	9.5	4.8	3.34	16.5	0.988	0.531	.
1603	TAM 14H-11	795	31234	31.9	11.9	5.8	3.34	20.9	0.738	0.531	.
1612	DP 1948B3XF	917	41050	37.1	8.7	4.8	3.34	17.	0.69	0.508	.
1613	FM 1730GLTP	871	36003	35.7	9.6	4.9	3.52	18.	0.663	0.456	.
1614	PHY 332W3FE	1182	45856	37.7	9.7	5	3.43	17.8	0.867	0.571	.
1615	PHY 390W3FE	1157	44225	38.2	9.2	4.6	3.50	20.6	0.791	0.485	.
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	714	26584	34.6	11.4	5.1	3.50	21.7	0.829	0.599	.
1617		704	23824	32.4	12.2	5.6	3.58	19.2	0.661	0.483	.
1618	NM 18B1592	940	26848	34.7	10.3	5.2	3.61	17.3	0.693	0.475	.
1619	ARK 1319-59	1171	38393	36.5	10.2	5.5	3.62	19.2	0.886	0.571	.
1620	ARK 1303-29	1059	37510	36.6	10.8	5.6	3.50	19.1	0.696	0.484	.
1621	ARK 1311-26	1001	36805	38.4	9.9	5.3	3.85	15.9	0.686	0.405	.
1622	LA 17063090	797	25974	34.9	10.4	5.1	3.64	16.7	0.782	0.45	.
1623	LA 17063008	708	32786	34.6	11.1	5.7	3.59	18.9	0.994	0.608	.
1624	LA 16063006	866	23948	38.7	9.5	5.2	3.72	16.2	0.695	0.497	.
	LSD*	110	214	0.794	0.432	0.547	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 14646B2XF	4.3	0.87	1.24	84.4	4.6	31.5	5.9	81.2	8	13.6	71.9
1536	PHY 764WRF	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	34.9	5.2	79.8	8.2	4.3	78.6
1599	PHY 400W3FE	4.4	0.87	1.18	84.5	5.5	33.6	5.3	80.4	7.9	14.4	78.4
1601	ST 4990B3XF	4.5	0.87	1.19	84.9	5	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 1948B3XF	4.3	0.86	1.25	85.1	4	33.1	6.6	81.2	8	14.2	70.9
1613	FM 1730GLTP	4.3	0.87	1.19	84.6	4.7	34	4.8	81.4	7.5	14.0	75.6
1614	PHY 332W3FE	4.4	0.87	1.21	84.8	4.9	33	5.5	79.6	8.7	13.1	73.8
1615	PHY 390W3FE	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 12KJ-Q14-	4.2	0.87	1.27	85.6	3.8	39.3	5.4	80.2	7.6	11.7	82.6
1617	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	0.158	0.005	0.02	0.694	0.571	0.946	0.162	1.02	0.246		

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Fiber Content	Fiber Content			Fiber Content			
1516	DP 14646B2XF	0.895	1.10	21.3	6.22	1.32	162	6.42	0.88	179	12.8
1536	PHY 764WRF	0.902	1.08	18.5	5.36	1.28	156	6.26	0.896	158	13.9
1587	NM 18B1593	0.913	1.09	18.1	5.25	1.28	160	5.78	0.918	170	16.2
1599	PHY 400W3FE	0.884	1.07	20.2	6.00	1.27	165	5.95	0.909	152	8.57
1601	ST 4990B3XF	0.906	1.08	18.4	5.36	1.28	165	5.98	0.903	158	10.7
1603	TAM 14H-11	0.967	1.17	18.3	4.86	1.40	157	6.46	0.894	158	11.5
1612	DP 1948B3XF	0.891	1.11	22.2	6.30	1.34	160	6.46	0.88	156	12.7
1613	FM 1730GLTP	0.93	1.10	17.0	4.70	1.29	158	5.86	0.916	132	13.3
1614	PHY 332W3FE	0.891	1.09	21.1	6.26	1.31	169	5.93	0.902	141	10.2
1615	PHY 390W3FE	0.861	1.05	21.8	6.65	1.26	16	6.03	0.905	169	9.86
1616	KH-14-A-176- 2015-314-29	0.943	1.13	18.4	4.78	1.34	154	5.72	0.919	154	12.4
1617	12KJ-Q14-2015- 708-10	0.978	1.17	17.6	4.62	1.39	156	5.84	0.919	147	14.6
1618	NM 18B1592	0.878	1.05	19.5	6.04	1.25	158	6.17	0.899	193	16.6
1619	ARK 1319-59	0.923	1.10	18.6	5.28	1.31	164	6.00	0.908	141	10.8
1620	ARK 1303-29	0.925	1.10	17.6	5.01	1.30	165	5.74	0.913	155	15.8
1621	ARK 1311-26	0.894	1.08	19.6	5.72	1.28	163	5.77	0.913	168	12.8
1622	LA 17063090	0.941	1.11	16.4	4.72	1.30	158	6.21	0.903	160	11.8
1623	LA 17063008	0.937	1.1	16.8	4.89	1.29	165	5.84	0.916	150	10.8
1624	LA 16063006	0.923	1.09	17.1	4.96	1.28	161	6.06	0.907	149	12.8
	LSD	0.026	0.021	1.84	0.709	0.02	3.81	0.339	0.012	37.4	4.34

## REGIONAL HIGH QUALITY 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)					
Lubbock, TX	3378	551	36.3	9.4	4.9	3.72	18.6	0.704	0.450	338
College Station, TX	961	1533	38.7	9.3	5.2	3.78	16.8	0.695	0.438	961
Stoneville, MS	847	1302	38.9	11.2	4.6	.	.	.	.	847
Florence, SC	1179	1721	40.4	10.3	5.1	3.32	19.2	0.871	0.601	1179
Portageville, MO	1183	334264	0.3	11.2	5.6	.	.	.	.	1183
Las Cruces, NM	1121	1502	42.6	10.1	5.8	.	.	.	.	1121
Keiser, AR	1078	1426	42.9	9.4	4.4	3.46	18.6	0.776	0.517	1078

LOCATION	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	Waste	Yarn Tenacity
			Mean Length								
Lubbock, TX	4.2	0.865	1.10	81.8	7	32.5	5.7	82.6	9.4	4.2	0.865
College Station, TX	3.7	0.863	1.19	83.8	5.9	32.9	4.6	76.6	7.6	3.7	0.863
Saint Joseph, LA	.	.	.	.	.	.	.	.	.	.	.
Stoneville, MS	4.6	0.882	1.23	85.5	4.1	38.4	5.2	81.6	7.8	4.6	0.882
Jackson, TN	4.2	0.864	1.28	86	3.3	34.8	6.1	82.9	8.3	4.2	0.864
Florence, SC	4.4	0.871	1.21	85.1	4.6	34.5	5.8	80.4	8.1	4.4	0.871
Portageville, MO	4.7	0.880	1.26	85.6	4	33.9	5.4	79	7.6	4.7	0.880
Keiser, AR	4.1	0.869	1.22	85.3	4.5	34.5	5.1	79.3	7.4	4.1	0.869

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	0.794	0.974	23.6	7.70	1.17	157	6.8	0.869	283	13.3
College Station, TX	0.85	1.06	23.4	7.01	1.28	151	6.58	0.891	223	21.9
Saint Joseph, LA	.	.	.	.	.	.	.	.	.	.
Stoneville, MS	0.953	1.13	17.3	4.68	1.34	167	5.29	0.934	100	8.42
Jackson, TN	0.992	1.17	15.8	4.13	1.38	161	6.41	0.892	116	10.4
Florence, SC	0.922	1.10	18.6	5.07	1.31	165	5.77	0.905	95.9	6.21
Portageville, MO	0.959	1.14	17.2	4.62	1.35	169	5.12	0.937	139	11.16
Keiser, AR	0.932	1.10	16.4	4.70	1.30	157	6.13	0.906	113	12.6

### REGIONAL HIGH QUALITY REGION – INDIVIDUAL LOCATION SUMMARIES

Location: Lubbock, TX \*

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	318	397	41	7.4	4.1	3.78	15.2	0.635	0.445	.
1536	PHY 764WRF	249	349	34.9	9.4	4.2	3.41	18.0	0.545	0.4	.
1587	NM 18B1593	345	553	36.2	8.8	4.1	3.91	17.6	0.605	0.38	.
1599	PHY 400W3FE	452	681	39.9	8.9	4.7	3.69	19.8	0.695	0.395	.
1601	ST 4990B3XF	245	489	34.9	8.4	4.3	3.35	15.2	1.06	0.525	.
1603	TAM 14H-11	351	670	31.7	11.8	6.1	3.72	22.1	0.645	0.45	.
1612	DP 1948B3XF	275	477	38.8	7.8	4.7	3.36	15.4	0.545	0.42	.
1613	FM 1730GLTP	339	467	35.9	9	4.8	3.56	17.9	0.59	0.42	.
1614	PHY 332W3FE	479	803	37.4	9.4	5.2	3.62	18.2	0.805	0.505	.
1615	PHY 390W3FE	345	488	36.7	8.4	4.2	3.57	19.6	0.655	0.375	.
1616	KH-14-A-176- 2015-314-29	247	500	33.8	10.1	4.4	3.73	22.8	0.715	0.465	.
1617	12KJ-Q14-2015- 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	0.735	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	0.725	0.49	.
	LSD	128	193	1.15	0.438	0.591	0.501	3.56			

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 14646B2XF	4.4	0.87	1.08	80.8	8.4	28.6	5.8	83.4	9.7	5.38	68.2
1536	PHY 764WRF	3.8	0.85	1.06	80.1	8.3	31.8	6.1	83	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 400W3FE	4.2	0.87	1.07	80.1	9.1	30.8	5.7	82.6	9.2	5.04	75.6
1601	ST 4990B3XF	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 1948B3XF	4.3	0.86	1.13	82.6	6.5	32.6	6.9	83.9	8.9	5.12	74.4
1613	FM 1730GLTP	4.3	0.87	1.06	81	6.8	31.4	4.8	83.8	9	4.93	74.8
1614	PHY 332W3FE	4.2	0.87	1.12	81.9	7.1	32.4	5.6	81.8	10.1	4.29	74.4
1615	PHY 390W3FE	3.8	0.86	1.05	80.4	9.2	29.5	5.5	83	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	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	4.7	80.3
	LSD	0.332	0.011	0.05	1.18	1.46	1.9	0.346	1.46	0.359	1.78	8.81

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Fiber Content	Fiber Weight			Fiber Content			
1516	DP 14646B2XF	0.735	0.925	27.9	9.9	1.13	162	6.62	0.855	326	9.5
1536	PHY 764WRF	0.76	0.93	24.9	8.62	1.12	148	7.72	0.835	323	21.5
1587	NM 18B1593	0.795	0.975	22.7	7.27	1.17	154	6.54	0.88	240	13
1599	PHY 400W3FE	0.74	0.91	26.5	9.6	1.11	160	7.35	0.855	354	9
1601	ST 4990B3XF	0.775	0.945	24.4	8.29	1.14	161	6.78	0.86	349	14
1603	TAM 14H-11	0.875	1.08	21.6	6.22	1.31	153	7.58	0.86	275	13
1612	DP 1948B3XF	0.785	0.99	26.3	8.17	1.2	161	7.14	0.85	249	10.5
1613	FM 1730GLTP	0.775	0.94	23.6	7.65	1.13	158	6.09	0.895	231	19
1614	PHY 332W3FE	0.83	1	20.8	6.85	1.21	167	6.65	0.875	263	13
1615	PHY 390W3FE	0.71	0.895	28.9	10.4	1.09	150	7.69	0.84	434	11.5
1616	KH-14-A-176- 2015-314-29	0.81	0.99	22.5	6.94	1.18	147	6.82	0.875	277	13
1617	12KJ-Q14-2015- 708-10	0.805	1.02	25.2	7.63	1.24	149	7.09	0.875	282	17.5
1618	NM 18B1592	0.775	0.94	22.6	7.74	1.12	156	6.75	0.865	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	0.805	0.98	21.7	6.88	1.17	168	6.07	0.89	194	17
1621	ARK 1311-26	0.75	0.925	25.0	8.33	1.11	163	6	0.875	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	5.7	1.23	162	6.16	0.895	206	8
1624	LA 16063006	0.83	1.01	21.7	6.83	1.21	161	6.4	0.885	297	18
	LSD	0.057	0.054	4.18	1.86	0.058	6.35	0.683	0.022	137	8.8



Location: College Station, TX

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	880	1467	38.5	8.8	5.1	3.98	17.4	0.61	0.385	.
1536	PHY 764WRF	1044	1904	31.9	12	5.9	3.31	20.1	0.665	0.5	.
1587	NM 18B1593	913	1534	36.8	10.7	5.3	3.57	20.8	0.795	0.63	.
1599	PHY 400W3FE	1031	1807	36.1	12.2	5.9	3.62	19.1	0.555	0.42	.
1601	ST 4990B3XF	914	1541	38.8	8.1	4.9	3.85	15.0	0.623	0.41	.
1603	TAM 14H-11	1183	1888	39.6	9.1	5.2	3.99	17.5	0.823	0.48	.
1612	DP 1948B3XF	1008	1532	38.9	9.6	5.2	3.64	18.7	0.635	0.41	.
1613	FM 1730GLTP	1103	1453	41.2	8.7	5.3	3.84	13.9	0.563	0.327	.
1614	PHY 332W3FE	939	1674	38	8.9	5.3	3.85	15.5	0.803	0.413	.
1615	PHY 390W3FE	711	1111	38.3	9.4	5.5	3.72	17.0	0.88	0.51	.
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	893	1278	42.3	8.5	4.8	3.8	14.2	0.628	0.425	.
1617		880	1467	38.5	8.8	5.1	3.98	17.4	0.61	0.385	.
1618	NM 18B1592	1044	1904	31.9	12	5.9	3.31	20.1	0.665	0.5	.
1619	ARK 1319-59	913	1534	36.8	10.7	5.3	3.57	20.8	0.795	0.63	.
1620	ARK 1303-29	1031	1807	36.1	12.2	5.9	3.62	19.1	0.555	0.42	.
1621	ARK 1311-26	914	1541	38.8	8.1	4.9	3.85	15.0	0.623	0.41	.
1622	LA 17063090	1183	1888	39.6	9.1	5.2	3.99	17.5	0.823	0.48	.
1623	LA 17063008	1008	1532	38.9	9.6	5.2	3.64	18.7	0.635	0.41	.
1624	LA 16063006	1103	1453	41.2	8.7	5.3	3.84	13.9	0.563	0.327	.

LSD

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon		Hunters		Yarn Tenacity
				Mean Length				gation	RD	Plus b	Waste	
1516	DP 14646B2XF	3.6	0.86	1.31	85.2	3.4	36.6	5	75.1	8.2	5.51	79.4
1536	PHY 764WRF	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 400W3FE	4.6	0.88	1.21	84.7	5.5	32.9	4.9	76.1	7.4	4.27	75.0
1601	ST 4990B3XF	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 1948B3XF	4	0.87	1.33	86.2	2.8	37.1	4.8	74.9	8.3	5.9	79.1
1613	FM 1730GLTP	4.1	0.88	1.2	84.1	5.3	34.2	4.5	76.3	8.7	5.19	73.0
1614	PHY 332W3FE	4.4	0.88	1.23	84.5	5.2	33.1	4.9	74.4	8.1	5.22	75.7
1615	PHY 390W3FE	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- 2015-314-29	4.4	0.88	1.21	84.7	5.4	36.2	4.9	75.2	8.1	10.05	85.7
1617	12KJ-Q14- 2015-708-10	4.7	0.89	1.21	86	4.3	34.4	5	77	7.7	6.14	79.2
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	0.546	0.013	0.051	1.45	1.89	2.36	0.37	3.41	0.833	4.85	13

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature		Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content	Maturity ratio		
1516	DP 14646B2XF	0.88	1.16	27.4	7.1	1.43	151	7.2	0.88	285	38
1536	PHY 764WRF	0.89	1.12	22.6	5.92	1.34	148	5.9	0.915	173	15
1587	NM 18B1593	0.82	1.01	22.4	7.25	1.2	146	6.82	0.88	263	30
1599	PHY 400W3FE	0.86	1.08	24.3	6.95	1.3	168	5.82	0.915	199	18.5
1601	ST 4990B3XF	0.875	1.07	21.2	5.85	1.28	156	5.9	0.925	178	14.5

1603	TAM 14H-11	0.925	1.11	17.1	4.45	1.3	159	5.72	0.925	136	11
1612	DP 1948B3XF	0.925	1.18	24.1	6.24	1.44	150	6.3	0.905	199	23
1613	FM 1730GLTP	0.85	1.05	22.7	6.43	1.27	152	6.42	0.9	242	25
1614	PHY 332W3FE	0.825	1.07	28	8.15	1.31	164	5.99	0.905	181	14
1615	PHY 390W3FE	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	0.9	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	0.925	122	10
1618	NM 18B1592	0.75	0.965	30	10.7	1.21	140	7.8	0.845	363	29
1619	ARK 1319-59	0.815	1.01	24.0	7.9	1.22	145	6.85	0.875	193	22.5
1620	ARK 1303-29	0.815	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	0.795	0.995	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	0.795	0.975	23.7	8	1.18	142	7.97	0.845	245	23
	LSD	0.09	0.065	7.25	3	0.052	10.9	0.911	0.032	130	15.5

Location: Stoneville, MS

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1083	1481	42.2	9.6	4.2	.	.	.	.	.
1536	PHY 764WRF	502	799	38.6	11.6	4.4	.	.	.	.	.
1587	NM 18B1593	774	1179	39.6	10.3	4.5	.	.	.	.	.
1599	PHY 400W3FE	1173	1538	43.3	9.7	4.4	.	.	.	.	.
1601	ST 4990B3XF	957	1458	39.6	11.6	4.4	.	.	.	.	.
1603	TAM 14H-11	623	1208	34	14.3	4.7	.	.	.	.	.
1612	DP 1948B3XF	700	1000	41.2	9.1	4.2	.	.	.	.	.
1613	FM 1730GLTP	902	1383	39.5	10.1	4.4	.	.	.	.	.
1614	PHY 332W3FE	1182	1654	41.7	10.6	4.7	.	.	.	.	.
1615	PHY 390W3FE	1136	1522	42.7	10	4.4	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29	639	1073	37.3	12	4.7	.	.	.	.	.

12KJ-Q14-2015-												
1617	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	172	236	5.46								
Upper Half												
		Micro		Mean	Uniformity	Short		Elon		Hunters		Yarn
vcode	VARIETY	naire	Maturity	Length	Index	Fiber	Strength	gation	RD	Plus b	Waste	Tenacity
1516	DP 14646B2XF	4.7	0.88	1.26	84.9	3.8	34	5.9	82.7	7.9	3.68	72.5008
1536	PHY 764WRF	4.4	0.88	1.19	85.1	4.7	42.4	5.2	79.7	8.3	4.05	82.7375
1587	NM 18B1593	4.9	0.89	1.23	85	4.3	38.4	5	81.2	8.1	3.14	84.1133
1599	PHY 400W3FE	4.6	0.88	1.21	85	5.2	37.6	5.1	82.5	7.5	2.66	79.7194
1601	ST 4990B3XF	4.8	0.88	1.18	84.6	5.1	33.8	5.4	83.7	7.3	5.59	72.1396
1603	TAM 14H-11	4.1	0.87	1.29	84.8	3	40.4	5.2	80.2	8.2	4.6	80.911
1612	DP 1948B3XF	4.4	0.87	1.28	84.9	3.4	34.6	6.8	83.9	7.9	3.21	68.6911
1613	FM 1730GLTP	4.5	0.88	1.23	86.2	3.7	37.7	4.6	84.2	6.9	3.25	76.6575
1614	PHY 332W3FE	4.7	0.88	1.23	86	4.4	36.1	5.6	80.4	8.5	3.6	74.4965
1615	PHY 390W3FE	4.6	0.89	1.19	83.9	5.9	36	4.9	83	7.5	3.18	87.3936
1616	KH-14-A-176- 2015-314-29	4.3	0.88	1.24	86.1	3.6	45.5	5.1	81.3	7	3.34	83.6618
1617	12KJ-Q14- 2015-708-10	4.3	0.88	1.33	87	2.6	43.3	5.1	80.3	8.1	3.85	87.3874
1618	NM 18B1592	4.5	0.88	1.19	85.2	4.3	39.9	5	80.8	7.8	3.63	79.6671
1619	ARK 1319-59	4.7	0.89	1.21	86	4.3	39.3	5.1	80.4	8.2	3.05	85.6927
1620	ARK 1303-29	5.2	0.9	1.19	86.1	4.6	36.8	4.5	81.6	7.6	3.63	72.101
1621	ARK 1311-26	4.7	0.89	1.24	85	4.2	35.7	4.9	82	7.6	2.89	82.9967
1622	LA 17063090	4.7	0.89	1.23	86.4	3.9	38.8	5.4	80.6	8.2	3.11	71.7053
1623	LA 17063008	4.5	0.88	1.25	86.7	3.6	41.3	5	81	7.5	4.06	91.9223
1624	LA 16063006	4.8	0.89	1.24	85.4	3.8	38.3	5.3	80.9	7.5	2.43	78.182
	LSD	0.25	0.01	0.041	1.65	1.27	2.41	0.286	0.945	0.535	1.97	12.9

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Content	Content			Fiber			
1516	DP 14646B2XF	0.945	1.13	18.4	5.14	1.36	166	5.65	0.905	91	4
1536	PHY 764WRF	0.975	1.12	13.5	3.67	1.3	163	5.55	0.925	92	15
1587	NM 18B1593	0.96	1.13	16.2	4.33	1.33	168	4.85	0.955	126	11
1599	PHY 400W3FE	0.915	1.1	19.2	5.34	1.31	171	4.9	0.94	94	2.5
1601	ST 4990B3XF	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 1948B3XF	0.915	1.12	20.8	5.8	1.36	162	6.43	0.89	107	6.5
1613	FM 1730GLTP	0.985	1.14	13.7	3.6	1.32	160	5.3	0.94	73.5	5
1614	PHY 332W3FE	0.925	1.12	20.0	5.72	1.34	173	5.25	0.925	96	7
1615	PHY 390W3FE	0.885	1.08	20.7	6.13	1.29	167	5.07	0.935	90.5	6
1616	KH-14-A-176- 2015-314-29	0.95	1.15	18.1	4.55	1.35	160	5.07	0.95	123	11
1617	12KJ-Q14-2015- 708-10	1.015	1.23	17.9	4.42	1.47	159	5.15	0.95	106	15.5
1618	NM 18B1592	0.935	1.1	16.7	4.62	1.30	166	5.29	0.935	94	8
1619	ARK 1319-59	0.925	1.11	18.4	5.04	1.31	172	5.45	0.935	109	9.5
1620	ARK 1303-29	0.945	1.12	16.7	4.45	1.32	178	4.59	0.96	71.5	10
1621	ARK 1311-26	0.925	1.12	19.9	5.5	1.34	167	5.22	0.935	114	8
1622	LA 17063090	1.005	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	0.945	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	0.065	0.06	3.03	1.11	0.058	10.4	0.826	0.027	38.5	8.95

Location: Jackson, TN\*

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	.	.	.	.	.	.	.	.	.	.
1536	PHY 764WRF	.	.	.	.	.	.	.	.	.	.
1587	NM 18B1593	.	.	.	.	.	.	.	.	.	.
1599	PHY 400W3FE	.	.	.	.	.	.	.	.	.	.
1601	ST 4990B3XF	.	.	.	.	.	.	.	.	.	.
1603	TAM 14H-11	.	.	.	.	.	.	.	.	.	.
1612	DP 1948B3XF	.	.	.	.	.	.	.	.	.	.
1613	FM 1730GLTP	.	.	.	.	.	.	.	.	.	.
1614	PHY 332W3FE	.	.	.	.	.	.	.	.	.	.
1615	PHY 390W3FE	.	.	.	.	.	.	.	.	.	.
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 naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon		Hunters		Yarn Tenacity
				Mean Length				gation	RD	Plus b	Waste	
1516	DP 14646B2XF	4.1	0.86	1.3	85.5	3.2	30.1	6.9	84.1	8.2	3.12	70.8
1536	PHY 764WRF	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 400W3FE	4.2	0.87	1.26	86.5	3.5	33.6	5.6	83	8.4	2.71	81.9
1601	ST 4990B3XF	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 1948B3XF	4.1	0.85	1.28	85.8	3.1	30.9	7.7	85	8.2	2.71	65.5
1613	FM 1730GLTP	4.1	0.87	1.22	85.3	4	34.5	5.3	86	7.7	2.5	75.5
1614	PHY 332W3FE	4	0.86	1.26	85.3	3.6	31.4	6.1	82	9.2	2.91	71.2
1615	PHY 390W3FE	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- 2015-314-29 12KJ-Q14-	3.7	0.86	1.34	86.2	2.6	40.2	6	83	7.8	3.45	79.4
1617	2015-708-10	4.3	0.87	1.37	85.9	2.6	39.9	6	81.4	8.6	2.7	81.7
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	0.304	0.012	0.039	1.84	0.91	2.29	0.363	1.76	0.575	1.71	11.4

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature		Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content	Maturity ratio		
1516	DP 14646B2XF	0.98	1.17	16.6	4.54	1.39	161	7.29	0.85	115	9.5
1536	PHY 764WRF	0.94	1.11	16.3	4.49	1.3	157	6.48	0.88	120	12
1587	NM 18B1593	1.04	1.2	13.4	3.45	1.42	163	5.53	0.93	120	13.5
1599	PHY 400W3FE	0.94	1.12	18.1	4.99	1.34	161	6.7	0.89	91.5	9.5
1601	ST 4990B3XF	0.955	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 1948B3XF	0.93	1.14	19.9	5.55	1.37	157	7.5	0.845	150	12.5
1613	FM 1730GLTP	0.96	1.14	16.0	4.2	1.32	152	6.8	0.885	128	20
1614	PHY 332W3FE	0.95	1.15	18.5	5.32	1.39	168	6.84	0.88	125	10
1615	PHY 390W3FE	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	0.995	1.2	17.6	4.34	1.42	150	6.1	0.91	186	13.5
1617	12KJ-Q14-2015- 708-10	1.09	1.27	13.7	3.2	1.49	160	5.8	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	1.2	13.9	3.25	1.40	170	5.9	0.91	76	6.5
1620	ARK 1303-29	1.04	1.2	12.7	3.05	1.39	174	5.3	0.93	67.5	6
1621	ARK 1311-26	0.96	1.15	16.8	4.49	1.36	169	6.18	0.9	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	6.2	0.9	137	9.5
1624	LA 16063006	1.03	1.2	13.6	3.2	1.39	162	6.42	0.9	93	6.5
	LSD	0.075	0.057	4.62	1.48	0.047	8.04	0.801	0.026	64.6	9.07

Location: Florence, SC

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1562	2004	43.8	8.7	5	3.1	16.2	0.895	0.605	.
1536	PHY 764WRF	811	1267	39.2	10	4.7	3.59	18.9	0.735	0.51	.
1587	NM 18B1593	1346	1950	40.8	9.6	5.1	3.61	17.6	0.785	0.56	.
1599	PHY 400W3FE	1458	1816	44.6	9.5	5	3.18	20.0	0.895	0.53	.
1601	ST 4990B3XF	1437	2056	41.2	9.2	4.7	3.14	19.0	0.915	0.565	.
1603	TAM 14H-11	841	1468	36.4	11.6	5.8	3.09	20.8	0.89	0.64	.
1612	DP 1948B3XF	1126	1571	41.8	8.4	4.3	3.26	19.9	0.94	0.665	.
1613	FM 1730GLTP	1270	1875	40.4	9.7	5	3.24	20.7	0.785	0.545	.
1614	PHY 332W3FE	1437	1997	41.9	10.4	4.7	3.37	17.9	0.895	0.6	.
1615	PHY 390W3FE	1319	1771	42.8	9.4	4.7	3.48	21.2	0.87	0.575	.





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
1623	LA 17063008	.	.	.	.	.	.	.	.	.	.
1624	LA 16063006	.	.	.	.	.	.	.	.	.	.
	LSD										
1516	DP 14646B2XF	0.91	1.1	19.5	5.44	1.31	170	5.75	0.89	111.5	8
1536	PHY 764WRF	0.9	1.08	18.9	5.19	1.29	161	5.87	0.905	94.5	8
1587	NM 18B1593	.	.	.	.	.	.	.	.	.	.
1599	PHY 400W3FE	0.925	1.09	17.4	4.75	1.28	170	5.3	0.925	100	4.5
1601	ST 4990B3XF	0.91	1.07	16.8	5.03	1.26	158	6.57	0.875	100	4
1603	TAM 14H-11	0.915	1.12	20.7	5.87	1.35	163	6.62	0.89	119	6
1612	DP 1948B3XF	0.91	1.11	20.0	5.34	1.31	167	6.04	0.89	84	7
1613	FM 1730GLTP	0.975	1.14	15.2	3.82	1.32	168	5.3	0.925	64.5	4.5
1614	PHY 332W3FE	0.905	1.11	21.0	5.85	1.32	167	5.62	0.9	100	6.5
1615	PHY 390W3FE	0.92	1.11	18.6	4.9	1.31	166	5.29	0.935	88	6
1616	KH-14-A-176- 2015-314-29	0.98	1.17	17.2	3.97	1.38	161	4.97	0.93	99	9
1617	12KJ-Q14-2015- 708-10	.	.	.	.	.	.	.	.	.	.
1618	NM 18B1592	.	.	.	.	.	.	.	.	.	.
1619	ARK 1319-59	.	.	.	.	.	.	.	.	.	.
1620	ARK 1303-29	.	.	.	.	.	.	.	.	.	.
1621	ARK 1311-26	.	.	.	.	.	.	.	.	.	.
1622	LA 17063090	.	.	.	.	.	.	.	.	.	.
1623	LA 17063008	.	.	.	.	.	.	.	.	.	.
1624	LA 16063006	.	.	.	.	.	.	.	.	.	.
	LSD										

Location: Portageville, MO

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1568	423106	0.4	8.9	5.5	.	.	.	.	.
1536	PHY 764WRF	779	249670	0.3	12	5.8	.	.	.	.	.
1587	NM 18B1593	957	297753	0.3	10.5	5.5	.	.	.	.	.
1599	PHY 400W3FE	1579	389939	0.4	9.1	5.3	.	.	.	.	.
1601	ST 4990B3XF	1547	421033	0.4	10.1	5.6	.	.	.	.	.
1603	TAM 14H-11	917	299955	0.3	13.7	6.3	.	.	.	.	.
1612	DP 1948B3XF	1340	359014	0.4	9.6	5	.	.	.	.	.
1613	FM 1730GLTP	959	296080	0.3	11.2	5.8	.	.	.	.	.
1614	PHY 332W3FE	1507	399561	0.4	10.2	5.4	.	.	.	.	.
1615	PHY 390W3FE	1478	385489	0.4	9	4.5	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29	840	255618	0.3	13.1	5.4	.	.	.	.	.
1617	12KJ-Q14-2015- 708-10	701	227417	0.3	14.5	6.2	.	.	.	.	.
1618	NM 18B1592	896	279406	0.3	11.4	5.6	.	.	.	.	.
1619	ARK 1319-59	1428	404396	0.4	11.7	5.4	.	.	.	.	.
1620	ARK 1303-29	1431	396876	0.4	11.7	6.1	.	.	.	.	.
1621	ARK 1311-26	1484	391806	0.4	10.8	6	.	.	.	.	.
1622	LA 17063090	892	272980	0.3	12	5.8	.	.	.	.	.
1623	LA 17063008	1153	349606	0.3	12.7	5.8	.	.	.	.	.
1624	LA 16063006	1011	251326	0.4	10.7	5.6	.	.	.	.	.
	LSD	292		0.058	0.903	0.593					

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 14646B2XF	4.6	0.87	1.27	85	4.2	29.2	6.1	82	7.4	3.41	73.8081
1536	PHY 764WRF	4.5	0.87	1.244	86.4	3.9	35.1	5.8	78.2	8.4	4.49	82.1935
1587	NM 18B1593	4.8	0.89	1.23	85.4	4.3	35.3	5.1	78.7	7.8	4.03	81.5609

1599	PHY 400W3FE	4.6	0.88	1.21	84.6	4.9	32.7	5.3	78.6	7.2	4.39	69.9063
1601	ST 4990B3XF	4.7	0.88	1.26	86.7	3.8	31	5.5	78.7	6.9	4.04	65.0794
1603	TAM 14H-11	4.3	0.87	1.38	86.3	2.6	33	5.6	80	8.1	4.24	76.7057
1612	DP 1948B3XF	4.8	0.875	1.27	85.4	4.2	31.1	6.7	80.4	7.4	3.58	65.5077
1613	FM 1730GLTP	4.5	0.88	1.26	85.2	4.4	32.5	4.9	78.7	6.9	4.75	67.7544
1614	PHY 332W3FE	4.8	0.88	1.24	85.3	4.9	32.2	5.6	79.9	8.4	3.41	76.5926
1615	PHY 390W3FE	4.5	0.875	1.21	85	5.2	30.6	5	81.3	6.9	4.18	74.6033
1616	KH-14-A-176- 2015-314-29	4.6	0.875	1.35	86.7	2.6	37.9	5.5	80.3	7.5	6.4	82.9034
1617	2015-708-10	4.4	0.875	1.37	85.9	2.7	37.9	5.3	79.7	8.5	3.81	86.6919
1618	NM 18B1592	4.8	0.885	1.19	85.8	4.4	33.8	5.2	78.7	8.8	3.83	81.7231
1619	ARK 1319-59	4.9	0.89	1.25	86	4.1	34.1	5.2	78.8	7.6	5.38	82.269
1620	ARK 1303-29	5.2	0.9	1.25	84.7	4.3	33.5	4.7	76.9	7.2	3.14	76.5147
1621	ARK 1311-26	4.7	0.88	1.29	85.9	3.5	33.8	5.3	77.5	7.3	3.83	82.845
1622	LA 17063090	4.7	0.88	1.25	86.5	3.7	36.3	5.2	76.2	7.6	3.52	70.3972
1623	LA 17063008	4.8	0.885	1.28	85.1	3.4	38	5.1	78.7	7.4	4.2	87.6935
1624	LA 16063006	4.8	0.885	1.24	85.4	4.5	36.5	5.4	77.7	6.9	4	74.1879
	LSD	0.41	0.016	0.059	2.39	1.83	3.07	0.674	4.47	0.67	1.98	13.3

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Fiber Content	Fiber Content			Fiber Content			
1516	DP 14646B2XF	0.895	1.1	21.2	6.09	1.34	165	5.84	0.9	208	10.5
1536	PHY 764WRF	0.955	1.13	16.4	4.39	1.33	165	5.58	0.925	192	11.5
1587	NM 18B1593	0.92	1.1	18.8	5.15	1.31	165	5.12	0.945	172	15
1599	PHY 400W3FE	0.905	1.09	18.9	5.34	1.30	171	5.07	0.94	136	6.5
1601	ST 4990B3XF	0.935	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	5.5	0.925	126	14.5
1612	DP 1948B3XF	0.9	1.12	22.1	6.27	1.37	168	5.5	0.905	122	15.5
1613	FM 1730GLTP	1.01	1.17	12.4	3	1.35	166	4.84	0.95	97.5	9.5
1614	PHY 332W3FE	0.91	1.10	19.1	5.65	1.31	181	4.75	0.94	96.5	6.5
1615	PHY 390W3FE	0.855	1.07	23.5	7.2	1.29	166	5.6	0.925	155	14
1616	KH-14-A-176- 2015-314-29	1.02	1.21	15.6	3.58	1.41	157	4.99	0.945	130	16

	12KJ-Q14-2015-											
1617	708-10	1.04	1.26	17.2	4.17	1.50	160	4.95	0.935	129	15	
1618	NM 18B1592	0.915	1.1	18.3	5.02	1.31	161	5.68	0.92	198	13.5	
1619	ARK 1319-59	0.985	1.18	17.3	4.37	1.39	177	4.95	0.955	151	12	
1620	ARK 1303-29	0.975	1.14	15.3	3.92	1.33	177	4.63	0.955	117	10	
1621	ARK 1311-26	0.965	1.16	17.4	4.39	1.36	173	4.8	0.96	161	10.5	
1622	LA 17063090	0.97	1.14	14.8	4	1.33	166	5.27	0.935	149	10	
1623	LA 17063008	1.05	1.18	18.9	5.7	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	0.053	0.042	3.65	1.27	0.049	10.2	0.965	0.038	99.9	10.2	

Location: Las Cruces, NM\*

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1148	1518	43	8	5.1	.	.	.	.	.
1536	PHY 764WRF	1275	1591	44.5	10.2	5.7	.	.	.	.	.
1587	NM 18B1593	1178	1563	42.7	9.1	6	.	.	.	.	.
1599	PHY 400W3FE	1377	1623	46.1	10.2	5.2	.	.	.	.	.
1601	ST 4990B3XF	1338	1865	41.8	9.2	5.3	.	.	.	.	.
1603	TAM 14H-11	861	1377	38.4	10.7	6.1	.	.	.	.	.
1612	DP 1948B3XF	1263	1722	42.3	8.9	5.5	.	.	.	.	.
1613	FM 1730GLTP	951	1276	42.3	9.5	5.4	.	.	.	.	.
1614	PHY 332W3FE	1460	1779	45	9	5.6	.	.	.	.	.
1615	PHY 390W3FE	1683	2056	44.9	9.3	5.5	.	.	.	.	.
1616	KH-14-A-176- 2015-314-29	795	1121	42	11	5.8	.	.	.	.	.
1617	12KJ-Q14-2015- 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.

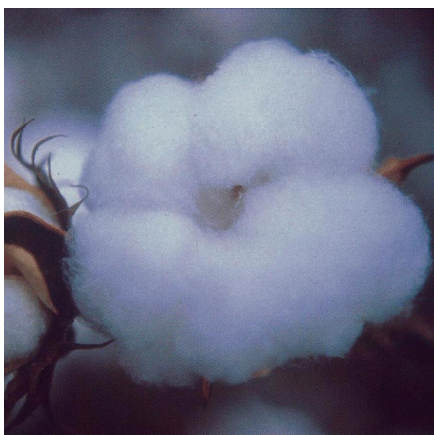
Location: Keiser, AR

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 14646B2XF	1295	1508	45.8	8	5	3.93	18.2	0.605	0.525	.
1536	PHY 764WRF	872	1059	43.1	9	3.9	3.44	21.1	0.6	0.44	.
1587	NM 18B1593	1339	1790	43.6	9.1	4.5	3.51	17.8	0.705	0.46	.
1599	PHY 400W3FE	1200	1300	47.3	8.5	4.3	3.43	21.0	0.87	0.495	.
1601	ST 4990B3XF	1349	1527	42.4	9.1	3.9	3.54	15.3	0.99	0.505	.
1603	TAM 14H-11	987	1709	37.8	10.4	5.4	3.27	20.6	0.75	0.535	.
1612	DP 1948B3XF	1010	1370	44.6	8.3	4.7	3.41	16.2	0.585	0.44	.
1613	FM 1730GLTP	855	1105	42.4	8.4	3.7	3.77	15.8	0.615	0.405	.
1614	PHY 332W3FE	1187	1484	44.6	8.8	3.8	3.32	17.3	0.9	0.61	.
1615	PHY 390W3FE	1140	1347	46.1	8.8	3.6	3.45	20.9	0.85	0.505	.
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-2015- 708-10	890	1324	41.5	10.4	4.2	3.42	22.2	0.905	0.68	.
1617		956	1462	40.4	10.8	4.1	3.30	17.6	0.62	0.47	.
1618	NM 18B1592	1090	1684	39.1	10.8	4.7	3.38	18.4	0.735	0.515	.
1619	ARK 1319-59	1329	1842	43.1	9.7	5	3.21	20.7	1.04	0.665	.
1620	ARK 1303-29	1179	1676	41.8	10.5	4.9	3.36	20.6	0.74	0.495	.
1621	ARK 1311-26	1062	1206	45.2	9.9	4.5	3.76	15.9	0.64	0.385	.
1622	LA 17063090	1023	1386	41	9.6	4.2	3.33	17.5	0.835	0.51	.
1623	LA 17063008	871	1303	41.1	10.3	4.9	3.36	19.2	1.05	0.655	.
1624	LA 16063006	864	1006	44.4	8.8	4	3.56	16.8	0.71	0.525	.
	LSD	213	450	2.04	1.49	1.38	0.505	1.42	0.091	0.072	.

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 14646B2XF	4.3	0.87	1.25	84.5	4.6	30.3	5.6	79.2	7	3.5	66.7618
1536	PHY 764WRF	3.7	0.86	1.18	84.3	5.7	37.7	5	80.3	8.3	3.06	78.8693
1587	NM 18B1593	4.3	0.875	1.22	86.1	4.2	35.2	5.1	78.2	7.6	3.19	68.8864
1599	PHY 400W3FE	4.1	0.87	1.17	85.7	5.4	32.7	5.1	79.6	7.4	3.36	88.2873
1601	ST 4990B3XF	4.5	0.875	1.18	84	5.8	30.3	5.4	79.2	6.7	4.98	76.5171
1603	TAM 14H-11	3.5	0.85	1.31	86.1	3.4	36.3	5.2	80.4	7.8	3.5	71.5663
1612	DP 1948B3XF	4	0.855	1.27	85.4	3.9	32.6	6.5	79.2	6.8	3.82	72.3259
1613	FM 1730GLTP	3.9	0.87	1.2	85.5	4.5	34.3	4.4	80.8	6.5	3.21	86.1742
1614	PHY 332W3FE	4.1	0.86	1.21	85.2	4.8	31.3	5.4	79.4	8.5	3.13	70.2616
1615	PHY 390W3FE	4.2	0.87	1.15	83.2	6.2	32.6	5	79.9	7.2	2.47	81.0298
1616	KH-14-A-176- 2015-314-29 12KJ-Q14-	4	0.865	1.32	86.8	2.8	39.2	5.4	79	6.6	3.49	87.0518
1617	2015-708-10	3.7	0.86	1.34	86.1	2.8	37.1	4.9	79.6	8.4	4.23	76.2656
1618	NM 18B1592	4.2	0.87	1.21	85.7	4.4	34.6	5.1	76.9	7.4	3.7	85.8005
1619	ARK 1319-59	4.3	0.875	1.23	85.7	4.4	34.9	5.1	78.1	7.4	4.26	76.4471
1620	ARK 1303-29	4.5	0.88	1.25	86.6	4	35	4.6	79.8	7.3	2.65	73.7543
1621	ARK 1311-26	4.4	0.88	1.23	84.2	5	32.9	4.8	79.9	7.6	3.33	78.2373
1622	LA 17063090	4	0.865	1.24	86.9	3.8	36.7	5.3	77.5	7.3	4.83	79.2942
1623	LA 17063008	4.4	0.875	1.16	85	4.6	37.9	4.7	80.7	8	2.99	82.4144
1624	LA 16063006	4.5	0.88	1.20	85.1	5.1	33.8	5	78.2	7.1	4.4	84.0258
	LSD	0.51	0.011	0.055	2.02	1.24	2.76	0.356	2.64	0.757		

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 14646B2XF	0.92	1.10	18.0	5.35	1.32	158	6.63	0.88	120	10
1536	PHY 764WRF	0.895	1.06	17.0	5.24	1.25	151	6.75	0.885	115	14
1587	NM 18B1593	0.945	1.11	14.9	4.05	1.30	159	5.8	0.92	103	14.5
1599	PHY 400W3FE	0.9	1.07	17.3	5.07	1.26	158	6.5	0.9	89	9.5
1601	ST 4990B3XF	0.935	1.10	15.6	4.37	1.28	169	5.49	0.92	108	19
1603	TAM 14H-11	1.005	1.19	14.9	3.97	1.41	145	7.25	0.875	145	16.5
1612	DP 1948B3XF	0.875	1.09	22.2	6.72	1.32	157	6.34	0.875	181	14
1613	FM 1730GLTP	0.955	1.12	15.2	4.18	1.31	149	6.27	0.915	90.5	10
1614	PHY 332W3FE	0.89	1.08	20.1	6.27	1.3	163	6.44	0.89	125	14.5
1615	PHY 390W3FE	0.83	1	21.2	6.95	1.21	160	5.95	0.91	167	13
1616	KH-14-A-176- 2015-314-29	0.97	1.16	16.9	4.32	1.37	144	6.07	0.91	91	11.5
1617	12KJ-Q14-2015- 708-10	0.98	1.18	16.4	4.44	1.4	146	6.4	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	0.905	77.5	6.5
1620	ARK 1303-29	0.97	1.13	14.5	3.89	1.32	170	5.15	0.935	69	6
1621	ARK 1311-26	0.945	1.11	14.7	3.85	1.3	163	5.77	0.915	72.5	7
1622	LA 17063090	1.01	1.15	11.5	3.04	1.33	151	6.33	0.9	102	10.5
1623	LA 17063008	0.925	1.07	14.0	4	1.24	167	5.48	0.935	110	12.5
1624	LA 16063006	0.915	1.07	15.2	4.35	1.24	160	5.69	0.92	98.5	12.5
	LSD	0.063	0.043	4.54	1.59	0.045	12	1.03	0.037	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	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1503	FM 1830GLT	628	871	41.9	7.54	4.99					
1516	DP 1646B2XF	626	849	42.3	6.47	4.29					
1536	PHY 764WRF	464	768	38.2	8.84	4.80					
1592	DG 3520B3XF	650	968	39.6	8.65	4.46					
1593	ST 4550GLTP	763	967	44.1	7.56	4.26					
1595	NG 4936B3XF	606	971	39.7	7.82	4.79					
1598	DP 2012B3XF	687	1045	41.1	7.14	4.34					
1599	PHY 400W3FE LSD	763	1090	41.5	7.86	5.24					
	LSD	60	162	1.27	1.3	2.01					

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.7	0.885	1.08	82.4	7.4	31.1	4.4	78.4	8
1516	DP 1646B2XF	4.5	0.875	1.16	82	6.4	29.3	5.5	76.8	8.4
1536	PHY 764WRF	3.9	0.865	1.105	81.5	7.3	34.2	4.9	74.6	9
1592	DG 3520B3XF	4.2	0.865	1.115	82.7	5.8	32.5	5.7	74.5	8.9
1593	ST 4550GLTP	4.6	0.875	1.065	82.1	6.7	32.1	5.5	76.3	9.4
1595	NG 4936B3XF	4.6	0.875	1.12	82.5	6.2	29	5.4	77.1	8.2
1598	DP 2012B3XF	4.6	0.88	1.13	82	7.7	29.7	4.3	76.1	8.7
1599	PHY 400W3FE	4.6	0.88	1.08	81.8	6.9	33.1	4.9	73	8.1
	LSD	0.474	0.016	0.056	1.53	1.35	2.23	0.351	2.61	0.758

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 1830GLT	0.8	0.975	1.17	22.13	7.32	165	5.75	0.935	151	13.5
1516	DP 1646B2XF	0.79	0.99	1.215	25.6	8.365	167.5	5.62	0.905	220	24
1536	PHY 764WRF	0.815	0.99	1.19	22.1	6.95	151.5	6.68	0.885	226	35.5
1592	DG 3520B3XF	0.85	1.015	1.195	19.2	5.315	165.5	6.28	0.895	189	37
1593	ST 4550GLTP	0.785	0.945	1.12	21.68	7.1	167	6.15	0.915	143.5	10
1595	NG 4936B3XF	0.815	0.995	1.19	22.73	7.165	167.5	6.58	0.915	205.5	26.5
1598	DP 2012B3XF	0.8	0.985	1.18	23.435	7.13	165	5.235	0.93	154	17
1599	PHY 400W3FE LSD	0.805	0.97	1.16	21.5	6.765	170.5	5.6	0.925	147.5	20
	LSD	0.047	0.06	3.02	1.44	0.074	13.2	1.04	0.035	85.2	19.2

**BLACKLANDS REGION SUMMARY BY LOCATION SITES\***

LOCATION	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
Commerce, TX	648	941	41.0	7.73	4.67					

LOCATION	Micro naire	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation RD	Hunters Plus b	Waste	Yarn Tenacity
Commerce, TX	4.5	0.875	1.11	82.1	6.8	31.4	5	75.8	8.6

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
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	Boll			Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1503	FM 1830GLT	628	871	41.9	7.54	4.99					
1516	DP 1646B2XF	626	849	42.3	6.47	4.29					
1536	PHY 764WRF	464	768	38.2	8.84	4.80					
1592	DG 3520B3XF	650	968	39.6	8.65	4.46					
1593	ST 4550GLTP	763	967	44.1	7.56	4.26					
1595	NG 4936B3XF	606	971	39.7	7.82	4.79					
1598	DP 2012B3XF	687	1045	41.1	7.14	4.34					
1599	PHY 400W3FE	763	1090	41.5	7.86	5.24					
	LSD	64	153	1.82	1.55	1.85					

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830GLT	4.7	0.885	1.08	82.4	7.4	31.1	4.4	78.4	8
1516	DP 1646B2XF	4.5	0.875	1.16	82	6.4	29.3	5.5	76.8	8.4
1536	PHY 764WRF	3.9	0.865	1.105	81.5	7.3	34.2	4.9	74.6	9
1592	DG 3520B3XF	4.2	0.865	1.115	82.7	5.8	32.5	5.7	74.5	8.9
1593	ST 4550GLTP	4.6	0.875	1.065	82.1	6.7	32.1	5.5	76.3	9.4
1595	NG 4936B3XF	4.6	0.875	1.12	82.5	6.2	29	5.4	77.1	8.2
1598	DP 2012B3XF	4.6	0.88	1.13	82	7.7	29.7	4.3	76.1	8.7
1599	PHY 400W3FE	4.6	0.88	1.08	81.8	6.9	33.1	4.9	73	8.1
	LSD	0.322	0.009	0.038	0.655	0.812	2.16	0.602	2.03	0.589

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 1830GLT	0.8	0.975	1.17	22.13	7.32	165	5.75	0.935	151	13.5
1516	DP 1646B2XF	0.79	0.99	1.215	25.6	8.365	167.5	5.62	0.905	220	24
1536	PHY 764WRF	0.815	0.99	1.19	22.1	6.95	151.5	6.68	0.885	226	35.5
1592	DG 3520B3XF	0.85	1.015	1.195	19.2	5.315	165.5	6.28	0.895	189	37
1593	ST 4550GLTP	0.785	0.945	1.12	21.68	7.1	167	6.15	0.915	143.5	10
1595	NG 4936B3XF	0.815	0.995	1.19	22.73	7.165	167.5	6.58	0.915	205.5	26.5
1598	DP 2012B3XF	0.8	0.985	1.18	23.435	7.13	165	5.235	0.93	154	17
1599	PHY 400W3FE	0.805	0.97	1.16	21.5	6.765	170.5	5.6	0.925	147.5	20
	LSD	0.026	0.029	2.17	1.01	0.039	7.46	0.644	0.022	46	12.2



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