



2022 National Cotton Variety Test

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National Cotton Variety Tests, 2022
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, Georgia, Mississippi, Missouri, New Mexico, North Carolina, 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, 2022

Yield, Boll, Seed, and Fiber Data

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**United States Department of Agriculture
Agricultural Research Service
Crop Genetics Research Unit
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TEST LOCATIONS

COLLEGE STATION, TX

FLORENCE, SC

Fort Cobb, OK

JACKSON, TN

KEISER, AR

LAS CRUCES, NM

LUBBOCK, TX

MARICOPA, AZ

PORTAGEVILLE, MO

ROCKY MOUNT, NC

STARKVILLE, MS

STONEVILLE, MS

Suffolk, VA

Tifton, GA

WESLACO, TX



ACKNOWLEDGMENTS

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

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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 2022)

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(As of May 2022)

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- H. Frame, Virginia Tech, Suffolk, VA
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- B. Wilson, University of Missouri, Portageville, MO
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- J. Zhang, (Pima Test Chair, 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 - 2021
Yield Archive File	1960 - 2021
Fiber Quality Archive File	1960 - 2021
Pima Combed Yarn Archive File	1962 - 2021

Code Files:

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

Excel Files:

- Yield Data File 1960-2021
- Fiber Quality Data File 1967-2021
- Cottonseed Quality Data File 1998-2021

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 these reports. 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
University of Georgia Extension Center	Tifton, GA

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
Main Station
Extension Center

Weslaco, TX
College Station, TX
Corpus Christi, TX

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

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

Lubbock, TX
Lamesa, TX

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

New Mexico State University,
New Mexico Agricultural Experiment Station
Main Station
Southeastern Branch Station

Las Cruces, NM
Artesia, NM

USDA-ARS,
US Arid-Land Agricultural Research Center

Maricopa, AZ

[High Quality](#) 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 Texas A&M University	Stoneville, MS
Texas Agricultural Experiment Station Agricultural Research and Extension Center University of Tennessee	College Station, TX Lubbock, TX
West Tennessee Ag Research & Education Ctr. New Mexico State University	Jackson, TN
New Mexico Agricultural Experiment Station Main Station	Las Cruces, NM

[Pima](#) Regional Cotton Variety Test
New Mexico State University
Dept. Plant & Environmental Science Las Cruces, NM

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 180øF 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 lb/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.

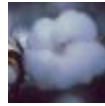
MR (Maturity Ratio): The ratio of fibers with a 0.5 (or more) circularity divided by the amount of fibers with a 0.25 (or less) circularity. The higher the maturity ratio, the more mature the fibers are and the better the fibers are for dyeing.

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 2022

1503	FM 1830 GLT
1516	DP 1646 B2XF
1536	PHY 764 WRF
1592	DG 3520 B3XF
1593	ST 4550 GLTP
1595	NG 4936 B3XF
1598	DP 2012 B3XF
1599	PHY 400 W3FE
1601	ST 4990 B3XF
1613	FM 1730 GLTP
1614	PHY 332 W3FE
1626	DP 2020 B3XF
1627	DP 2055 B3XF
1628	ARK 1408-53
1629	ARK 1405-18
1532	PHY 881 RF
1597	DP 359 RF
1611	DP 347 RF
1625	PHY 807 RF



United States Department of Agriculture

**Agricultural Research Service
Southeast Area
Crop Genetics Research Unit
National Cotton Variety Test Program
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Stoneville, MS 38776**

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 1830 GLT	1442	1683	42.2	9.3	5.3	3.97	16.5	0.60	0.45	1.05
1516	DP 1646 B2XF	1217	1665	43.2	7.8	4.1	4.20	17.4	0.61	0.50	1.11
1536	PHY 764 WRF	1056	1427	37.2	10.4	4.7	3.95	21.9	0.62	0.48	1.09
1592	DG 3520 B3XF	1201	1870	37.4	10.7	5.0	3.68	21.9	0.67	0.49	1.16
1593	ST 4550 GLTP	1288	1659	42.1	8.3	4.5	4.37	16.3	0.65	0.49	1.14
1595	NG 4936 B3XF	1363	1776	41.8	8.7	5.0	3.22	15.8	1.06	0.57	1.63
1598	DP 2012 B3XF	1395	1707	41.2	8.3	4.5	3.93	19.3	0.84	0.49	1.33
1599	PHY 400 W3FE	1302	1379	42.2	8.5	4.3	3.83	22.0	0.74	0.45	1.18
	LSD	252	550	2.20	0.97	0.56	0.37	0.63	0.12	0.10	0.22

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	5.3	0.90	1.16	82.7	6.6	33.2	5.3	80.3	7.0
1516	DP 1646 B2XF	5.3	0.89	1.15	81.8	6.9	31.9	6.5	79.0	7.2
1536	PHY 764 WRF	4.7	0.88	1.14	82.5	6.5	37.9	6.0	77.0	7.7
1592	DG 3520 B3XF	4.9	0.88	1.17	83.3	5.7	35.1	6.8	78.3	7.7
1593	ST 4550 GLTP	5.1	0.88	1.08	81.7	7.2	32.5	6.2	77.2	8.4

1595	NG 4936 B3XF	5.2	0.88	1.17	83.1	6.2	31.3	6.5	81.3	7.4
1598	DP 2012 B3XF	5.0	0.89	1.15	82.9	6.1	33.1	5.3	80.7	7.9
1599	PHY 400 W3FE	5.0	0.89	1.09	81.5	8.3	32.1	5.7	79.2	8.3
	LSD	0.31	0.01	0.06	1.90	1.10	2.20	0.46	1.70	0.87

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
				Fiber Content	Fiber Content			Fiber Content			Coat Number
1503	FM 1830 GLT	0.86	1.05	21.1	6.37	1.26	176	5.34	0.96	227	10
1516	DP 1646 B2XF	0.83	1.02	22.1	6.84	1.22	173	5.89	0.90	188	11
1536	PHY 764 WRF	0.87	1.03	18.3	5.40	1.21	161	6.34	0.90	189	18
1592	DG 3520 B3XF	0.87	1.04	19.0	5.35	1.21	175	6.89	0.90	205	17
1593	ST 4550 GLTP	0.81	0.97	20.8	6.52	1.15	172	5.90	0.91	220	14
1595	NG 4936 B3XF	0.88	1.06	20.8	6.07	1.26	179	6.32	0.93	201	13
1598	DP 2012 B3XF	0.87	1.04	20.1	5.75	1.23	173	5.77	0.93	162	10
1599	PHY 400 W3FE	0.79	0.98	25.3	8.05	1.18	171	5.82	0.92	198	18
	LSD	0.08	0.06	4.50	1.80	0.07	8.30	0.77	0.03	75	7.4

PLAINS 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	1283	1646	40.9	9.0	4.7	3.89	18.9	0.72	0.489	1.21
Fort Cobb, OK*										

*There was no yield data submitted in 2022 due to a laboratory shutdown during the pandemic period.

LOCATION	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
Lubbock, TX Fort Cobb, OK*	5.1	0.88	1.14	82.4	6.7	33.4	6.0	79.1	7.7

*There were no fiber samples submitted in 2022 due to a laboratory shutdown during the pandemic period.

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 Fort Cobb, OK*	0.85	1.02	20.9	6.29	1.21	172	6.03	0.92	199	14

*There were no fiber samples submitted in 2022 due to a laboratory shutdown during the pandemic period.

PLAINS REGION INDIVIDUAL LOCATION SUMMARIES

LOCATION: Lubbock, TX

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1442	1683	42.2	9.3	5.3	3.97	16.5	0.60	0.45	1.05
1516	DP 1646 B2XF	1217	1665	43.2	7.8	4.1	4.20	17.4	0.61	0.50	1.11
1536	PHY 764 WRF	1056	1427	37.2	10.4	4.7	3.95	21.9	0.62	0.48	1.09
1592	DG 3520 B3XF	1201	1870	37.4	10.7	5.0	3.68	21.9	0.67	0.49	1.16
1593	ST 4550 GLTP	1288	1659	42.1	8.3	4.5	4.37	16.3	0.65	0.49	1.14
1595	NG 4936 B3XF	1363	1776	41.8	8.7	5.0	3.22	15.8	1.06	0.57	1.63
1598	DP 2012 B3XF	1395	1707	41.2	8.3	4.5	3.93	19.3	0.84	0.49	1.33
1599	PHY 400 W3FE	1302	1379	42.2	8.5	4.3	3.83	22.0	0.74	0.45	1.18
	LSD	252	550	2.20	0.97	0.56	0.37	0.63	0.12	0.10	0.22

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830 GLT	5.3	0.9	1.16	82.7	6.6	33.2	5.3	80.3	7.0
1516	DP 1646 B2XF	5.3	0.89	1.15	81.8	6.9	31.9	6.5	79.0	7.2
1536	PHY 764 WRF	4.7	0.88	1.14	82.5	6.5	37.9	6.0	77.0	7.7
1592	DG 3520 B3XF	4.9	0.88	1.17	83.3	5.7	35.1	6.8	78.3	7.7
1593	ST 4550 GLTP	5.1	0.88	1.08	81.7	7.2	32.5	6.2	77.2	8.4
1595	NG 4936 B3XF	5.2	0.88	1.17	83.1	6.2	31.3	6.5	81.3	7.4
1598	DP 2012 B3XF	5.0	0.89	1.15	82.9	6.1	33.1	5.3	80.7	7.9
1599	PHY 400 W3FE	5.0	0.89	1.09	81.5	8.3	32.1	5.7	79.2	8.3
	LSD	0.31	0.01	0.06	1.90	1.10	2.20	0.46	1.70	0.87

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight			Fiber Content			Number Count
1503	FM 1830 GLT	0.86	1.05	21.1	6.37	1.26	176	5.34	0.96	227	10
1516	DP 1646 B2XF	0.83	1.02	22.1	6.84	1.22	173	5.89	0.90	188	11
1536	PHY 764 WRF	0.87	1.03	18.3	5.4	1.21	161	6.34	0.90	189	18
1592	DG 3520 B3XF	0.87	1.04	19.0	5.35	1.21	175	6.89	0.90	205	17
1593	ST 4550 GLTP	0.81	0.97	20.8	6.52	1.15	172	5.9	0.91	220	14
1595	NG 4936 B3XF	0.88	1.06	20.8	6.07	1.26	179	6.32	0.93	201	13
1598	DP 2012 B3XF	0.87	1.04	20.1	5.75	1.23	173	5.77	0.93	162	10
1599	PHY 400 W3FE	0.79	0.98	25.3	8.05	1.18	171	5.82	0.92	198	18
	LSD	0.08	0.06	4.50	1.80	0.07	8.30	0.77	0.03	75	7.4

LOCATION: Fort Cobb, OK *

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitro gen	oil	Plus Gossypol	Minus Gossypol	Free Gossypol
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*There were no yield data submitted in 2022 due to a laboratory shutdown during the pandemic period.

vcode	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
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Short

Short

Seed

vcode	VARIETY	Length Number	Length Weight	Fiber Content Number	Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Coat Number Count
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*There were no fiber samples submitted in 2022 due to a laboratory shutdown during the pandemic period.



2022 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.

EASTERN REGION

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

**2022 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 1830 GLT	1127	1480	43.6	9.7	4.7	3.78	16.3	0.61	0.46	1.07
1516	DP 1646 B2XF	1397	1675	45.5	8.6	4.4	3.70	16.9	0.62	0.57	1.19
1536	PHY 764 WRF	928	1301	41.6	9.9	5.8	3.93	20.5	0.62	0.47	1.09
1592	DG 3520 B3XF	1277	1760	41.6	11.1	5.1	3.56	23.6	0.70	0.57	1.27
1593	ST 4550 GLTP	1378	1599	46.3	8.7	4.7	3.88	16.3	0.68	0.52	1.20
1595	NG 4936 B3XF	1377	1895	42.2	10.1	5.1	3.51	15.9	0.89	0.48	1.37
1598	DP 2012 B3XF	1363	1822	43.6	8.9	4.2	3.81	19.2	0.88	0.56	1.44
1599	PHY 400 W3FE	1332	1628	44.6	9.0	4.5	3.73	21.9	0.87	0.54	1.41
	LSD	164	---	---	0.38	0.35	0.22	1.0	0.06	0.05	0.11

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.5	0.88	1.22	82.8	5.3	33.9	4.9	77.9	7.2
1516	DP 1646 B2XF	4.6	0.87	1.25	82.1	5.0	30.4	6.2	76.6	7.1
1536	PHY 764 WRF	4.3	0.87	1.17	82.8	5.7	36.8	5.7	73.7	8.0
1592	DG 3520 B3XF	4.2	0.86	1.24	84.1	4.5	33.1	6.4	75.8	7.4
1593	ST 4550 GLTP	4.9	0.88	1.18	83.5	5.4	33.6	5.8	75.3	7.9
1595	NG 4936 B3XF	4.6	0.88	1.21	83.9	5.0	30.6	5.9	77.9	6.8
1598	DP 2012 B3XF	4.6	0.88	1.20	83.3	5.2	32.2	5.0	77.1	7.5
1599	PHY 400 W3FE	4.5	0.88	1.19	83.1	5.8	32.9	5.4	76.9	7.5
	LSD	0.24	0.01	0.04	1.2	0.99	1.0	0.17	0.7	0.27

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature	Maturity ratio	Nep Count	SCN Count
				Content Number	Content Weight			Fiber Content			
1503	FM 1830 GLT	0.88	1.09	22.0	6.46	1.32	158	6.49	0.9	136	17
1516	DP 1646 B2XF	0.86	1.07	23.8	7.28	1.32	162	6.71	0.88	158	14
1536	PHY 764 WRF	0.89	1.06	19.0	5.53	1.26	159	6.57	0.9	153	25
1592	DG 3520 B3XF	0.90	1.11	21.1	5.82	1.33	157	7.11	0.87	179	25
1593	ST 4550 GLTP	0.83	1.02	23.0	7.21	1.23	170	6.07	0.91	135	15
1595	NG 4936 B3XF	0.86	1.07	23.5	7.03	1.3	162	6.55	0.88	192	25
1598	DP 2012 B3XF	0.88	1.07	21.0	6.03	1.28	166	5.91	0.91	117	17
1599	PHY 400 W3FE	0.81	1.02	26.0	8.32	1.25	158	6.78	0.88	164	20
	LSD	0.06	0.05	4.00	1.50	0.05	7.70	0.57	0.02	51	10.0

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, SC	1060	1332	44.3	.	.	3.76	18.7	0.74	0.55	1.29
Rocky Mount, NC	1886	2352	44.4	10.2	.	3.89	18.7	0.74	0.51	1.25
Starkville, MS	871	1159	43.0	.	4.6	.	.	.	.	.
Tifton, GA	1273	1707	42.7	8.76	4.87	3.56	19.0	0.72	0.51	1.23

LOCATION	Micro naire	Maturity	Upper Half	Short Fiber	Elon gation	Hunters Plus b			
			Mean Length				Uniformity Index	Strength	RD
Florence, SC	5.0	0.88	1.18	80.7	6.2	33.4	5.9	71.3	7.7
Rocky Mount, NC	4.5	0.87	1.20	83.7	5.0	33.2	5.7	72.7	6.9
Starkville, MS	4.1	0.87	1.26	85.2	4.2	33.1	5.2	80.7	7.1
Tifton, GA	4.4	0.87	1.19	83.1	5.5	32	5.8	80.9	8.0

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, SC	0.83	1.04	25.3	7.73	1.27	166	6.15	0.90	140	25
Rocky Mount, NC	0.86	1.07	23.0	6.77	1.29	164	6.67	0.89	174	30
Starkville, MS	0.93	1.11	18.3	5.28	1.33	155	6.70	0.89	127	13
Tifton, GA	0.84	1.03	23.1	7.05	1.25	161	6.58	0.88	175	12

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 1830 GLT	850	1099	44.0	.	.	3.74	16.5	0.60	0.47	1.07
1516	DP 1646 B2XF	1189	1388	46.2	.	.	3.79	17.9	0.68	0.64	1.32
1536	PHY 764 WRF	872	1173	42.8	.	.	3.98	20.7	0.62	0.48	1.09
1592	DG 3520 B3XF	868	1209	41.9	.	.	3.61	23.5	0.70	0.60	1.29
1593	ST 4550 GLTP	1172	1279	48.0	.	.	4.02	15.6	0.70	0.57	1.27
1595	NG 4936 B3XF	1173	1609	42.2	.	.	3.51	14.4	0.88	0.49	1.37
1598	DP 2012 B3XF	1120	1442	43.8	.	.	3.73	19.2	0.88	0.58	1.46
1599	PHY 400 W3FE	1235	1457	45.9	.	.	3.70	21.8	0.87	0.56	1.43
	LSD	172	212	1.40							

		Micro	Upper	Mean	Uniformity	Short	Elon	Hunters
vcode	VARIETY	naire	Half	Length	Index	Fiber	gation	Plus b
1503	FM 1830 GLT	5.1	0.89	1.16	80.5	6.7	35	7.4
1516	DP 1646 B2XF	5.1	0.88	1.22	78.6	6.2	31.3	7.4
1536	PHY 764 WRF	4.4	0.88	1.15	79.6	7.6	37.7	8
1592	DG 3520 B3XF	4.6	0.87	1.23	82.3	4.7	33.1	7.6
1593	ST 4550 GLTP	5.3	0.89	1.18	81.3	6.0	33.7	8.2
1595	NG 4936 B3XF	5	0.89	1.17	81.1	6.1	31.3	7
1598	DP 2012 B3XF	5.3	0.9	1.17	81.6	5.8	31.7	7.5
1599	PHY 400 W3FE	5.2	0.89	1.19	80.8	6.9	33.8	8.1
	LSD	0.40	0.01	0.12	3.00	2.60	3.30	0.55

		Length	Length	Short	Short	UQL wt.	Fineness	Immature	Maturity	Nep	Seed
vcode	VARIETY	Number	Weight	Fiber	Fiber			Fiber	ratio	Count	Coat
1503	FM 1830 GLT	0.84	1.06	25.0	7.47	1.30	163	5.97	0.92	117	21
1516	DP 1646 B2XF	0.83	1.05	25.5	7.92	1.29	169	6.22	0.89	130	16
1536	PHY 764 WRF	0.83	1.04	25.4	7.80	1.26	157	6.49	0.89	208	39
1592	DG 3520 B3XF	0.9	1.12	22.1	5.93	1.36	161	6.8	0.87	147	31
1593	ST 4550 GLTP	0.79	0.99	26.2	8.43	1.20	178	5.63	0.92	103	20
1595	NG 4936 B3XF	0.84	1.06	24.9	7.35	1.29	168	6.27	0.9	157	26
1598	DP 2012 B3XF	0.85	1.05	23.3	6.82	1.28	172	5.74	0.92	120	20
1599	PHY 400 W3FE	0.76	0.99	30.1	10.1	1.23	165	6.12	0.9	140	26
	LSD	0.07	0.06	4.90	2.40	0.06	11	0.56	0.03	51	16.0

Location: Tifton, GA

		Lint	Seed	Lint	Seed	Boll	Nitrogen	oil	Plus	Minus	Free
vcode	VARIETY	(lb/a)	(lb/a)	Percent	Index	Size			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	1142	1520	42.9	8.6	4.94	3.65	15.1	0.57	0.44	1.01
1516	DP 1646 B2XF	1519	1893	44.4	7.8	4.58	3.49	16.8	0.56	0.53	1.09
1536	PHY 764 WRF	896	1319	40.4	9.8	5.33	3.72	21.0	0.68	0.50	1.18
1592	DG 3520 B3XF	1281	1890	40.4	10.1	5.46	3.34	23.8	0.69	0.56	1.25
1593	ST 4550 GLTP	1268	1575	44.7	8.2	4.32	3.60	16.2	0.58	0.41	0.99

1595	NG 4936 B3XF	1390	1977	41.4	9.0	5.19	3.29	17.4	0.88	0.47	1.35
1598	DP 2012 B3XF	1469	1901	43.6	8.2	4.56	3.86	19.6	0.89	0.57	1.46
1599	PHY 400 W3FE	1216	1580	43.5	8.4	4.59	3.53	22.0	0.94	0.57	1.51
	LSD	268	358	2.00	0.57	0.28					

Upper
Half

vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.6	0.88	1.21	83.3	5.4	33.0	5.2	81.9	7.5
1516	DP 1646 B2XF	4.5	0.87	1.22	82.4	5.7	29.8	6.4	81.8	7.7
1536	PHY 764 WRF	4.3	0.87	1.13	83.8	5.0	34.3	6.0	79.6	8.6
1592	DG 3520 B3XF	4.0	0.86	1.22	83.3	5.3	32.9	6.3	81.4	8.5
1593	ST 4550 GLTP	4.7	0.88	1.21	83.0	5.8	33.1	5.6	80.3	8.4
1595	NG 4936 B3XF	4.6	0.88	1.18	83.9	5.3	30.8	6.1	79.4	7.4
1598	DP 2012 B3XF	4.3	0.87	1.19	83.2	4.8	31.2	5.4	81.1	8.4
1599	PHY 400 W3FE	4.4	0.87	1.13	82.3	7.0	30.8	5.7	81.5	8.0
	LSD	0.41	0.01	0.05	2.60	2.30	2.00	0.35	5.10	0.76

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.88	1.08	21.6	6.30	1.31	160	6.39	0.90	169	9
1516	DP 1646 B2XF	0.83	1.04	24.9	7.83	1.27	164	6.72	0.87	216	12
1536	PHY 764 WRF	0.87	1.03	18.3	5.42	1.20	159	6.92	0.89	140	15
1592	DG 3520 B3XF	0.85	1.06	23.3	6.75	1.28	155	7.27	0.86	150	12
1593	ST 4550 GLTP	0.81	1.02	26.5	8.42	1.25	164	6.05	0.90	132	7
1595	NG 4936 B3XF	0.82	1.02	24.5	7.73	1.23	158	6.79	0.87	286	21
1598	DP 2012 B3XF	0.84	1.03	22.9	6.90	1.24	166	5.95	0.90	117	9
1599	PHY 400 W3FE	0.81	1.00	22.8	7.10	1.21	162	6.58	0.89	188	10
	LSD	0.08	0.06	6.80	2.90	0.05	12	1.60	0.05	152	12.0

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 1830 GLT	1568	1993	44.0	10.8	.	3.96	17.1	0.65	0.47	1.12
1516	DP 1646 B2XF	1796	2133	45.7	9.4	.	3.82	16.0	0.61	0.55	1.16
1536	PHY 764 WRF	1214	1645	42.5	10.0	.	4.09	19.9	0.58	0.42	1.00
1592	DG 3520 B3XF	2092	2654	44.1	12.1	.	3.72	23.5	0.72	0.57	1.29
1593	ST 4550 GLTP	2110	2397	46.8	9.2	.	4.01	17.0	0.76	0.59	1.34
1595	NG 4936 B3XF	2060	2811	42.3	11.2	.	3.74	15.9	0.92	0.48	1.39
1598	DP 2012 B3XF	2080	2654	44.0	9.7	.	3.84	18.6	0.88	0.54	1.41
1599	PHY 400 W3FE	2169	2531	46.2	9.6	.	3.96	22.0	0.80	0.49	1.28
	LSD	185	241	0.35							

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830 GLT	4.6	0.88	1.23	83.0	5.0	33.8	5.0	73.4	6.7
1516	DP 1646 B2XF	4.6	0.87	1.25	83.2	4.6	31.1	6.2	71.4	7.1
1536	PHY 764 WRF	4.3	0.87	1.17	83.1	5.7	38.1	5.5	70.4	7.5
1592	DG 3520 B3XF	4.1	0.86	1.25	84.6	4.0	33.0	6.8	72.1	6.8
1593	ST 4550 GLTP	5.0	0.89	1.13	83.8	5.5	33.5	6.0	72.7	7.2
1595	NG 4936 B3XF	4.5	0.87	1.24	84.8	4.7	30.5	6.2	75.6	6.3
1598	DP 2012 B3XF	4.7	0.88	1.17	83.0	6.0	32.0	5.2	74.0	6.9
1599	PHY 400 W3FE	4.5	0.88	1.19	84.2	4.8	34.1	5.2	72.2	6.7
	LSD	0.40	0.02	0.06	2.80	2.60	1.20	0.30	3.00	0.55

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight						Number
1503	FM 1830 GLT	0.91	1.12	20.6	5.85	1.35	166	6.43	0.93	122	21
1516	DP 1646 B2XF	0.85	1.08	25.3	7.68	1.34	159	7.20	0.87	166	22
1536	PHY 764 WRF	0.90	1.08	19.1	5.38	1.28	158	7.02	0.90	176	35
1592	DG 3520 B3XF	0.92	1.13	20.9	5.60	1.35	161	6.94	0.87	235	46

1593	ST 4550 GLTP	0.81	0.99	23.7	7.52	1.19	173	6.42	0.9	197	21
1595	NG 4936 B3XF	0.87	1.09	24.4	7.12	1.33	164	6.65	0.89	201	36
1598	DP 2012 B3XF	0.90	1.09	20.2	5.35	1.29	173	5.74	0.93	112	26
1599	PHY 400 W3FE	0.78	1.00	29.6	9.69	1.23	161	6.94	0.89	187	31
	LSD	0.13	0.11	8.60	3.60	0.12	10	0.92	0.04	103	10.0

Location: Starkville, MS

vcode	VARIETY	Lint	Seed			Boll	Nitrogen	oil	Plus	Minus	Free
		Yield	Yield	Lint	Seed	Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1503	FM 1830 GLT	948	1252	43.7	.	4.45	.	.	.	.	.
1516	DP 1646 B2XF	1086	1287	45.6	.	4.19	.	.	.	.	.
1536	PHY 764 WRF	732	1069	40.6	.	5.04	.	.	.	.	.
1592	DG 3520 B3XF	868	1288	40.2	.	4.82	.	.	.	.	.
1593	ST 4550 GLTP	960	1145	45.5	.	5.00	.	.	.	.	.
1595	NG 4936 B3XF	886	1185	42.8	.	5.07	.	.	.	.	.
1598	DP 2012 B3XF	782	1111	42.6	.	3.84	.	.	.	.	.
1599	PHY 400 W3FE	707	944	42.8	.	4.41	.	.	.	.	.
	LSD	225									

vcode	VARIETY	Micro	Maturity	Upper	Uniformity	Short	Strength	Elon	RD	Hunters
				Half						
		naire		Mean	Index	Fiber		gation		Plus b
				Length						
1503	FM 1830 GLT	3.8	0.87	1.26	84.5	4.3	33.8	4.6	83.0	7.0
1516	DP 1646 B2XF	4.3	0.87	1.31	84.2	3.5	29.4	5.5	81.2	6.3
1536	PHY 764 WRF	4.2	0.87	1.23	84.7	4.7	37.3	5.5	77.7	8.0
1592	DG 3520 B3XF	3.9	0.86	1.27	86.2	4.0	33.4	5.7	79.6	7.0
1593	ST 4550 GLTP	4.7	0.88	1.22	85.8	4.5	34.4	5.5	78.9	7.8
1595	NG 4936 B3XF	4.2	0.87	1.28	85.7	4.0	30.0	5.2	82.9	6.3
1598	DP 2012 B3XF	4.1	0.87	1.28	85.5	4.2	33.8	4.4	80.1	7.1
1599	PHY 400 W3FE	3.9	0.87	1.27	85.3	4.5	32.8	5.0	82.5	7.2
	LSD	0.77	0.02	0.03	2.20	1.50	2.20	0.45	2.30	0.47

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 1830 GLT	0.91	1.11	20.7	6.20	1.34	142	7.17	0.88	136	16
1516	DP 1646 B2XF	0.93	1.13	19.4	5.68	1.38	156	6.72	0.89	121	8
1536	PHY 764 WRF	0.98	1.12	13.2	3.52	1.30	164	5.85	0.93	87	11
1592	DG 3520 B3XF	0.94	1.13	18.1	5.00	1.34	154	7.45	0.87	183	13
1593	ST 4550 GLTP	0.93	1.10	15.7	4.47	1.28	164	6.17	0.92	109	14
1595	NG 4936 B3XF	0.92	1.12	20.0	5.92	1.35	157	6.52	0.89	125	16
1598	DP 2012 B3XF	0.93	1.12	17.7	5.07	1.33	156	6.20	0.90	118	11
1599	PHY 400 W3FE	0.89	1.09	21.7	6.40	1.34	146	7.50	0.87	141	14
	LSD	0.09	0.07	6.40	2.50	0.05	18	1.70	0.06	60	12.0

Location: Suffolk, VA*

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

There was no data reported in 2022 due to a laboratory shutdown during the pandemic period.

vcode	VARIETY	Micro	Maturity	Upper	Uniformity	Short	Elon	Hunters
				Half				
		naire		Mean	Index	Fiber	gation	Plus b
1503	FM 1830 GLT			Length			RD	
1516	DP 1646 B2XF							



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CENTRAL REGION

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

**2022 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR CENTRAL BY VARIETIES**

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)			Gossypol	Gossypol	Gossypol
1503	FM 1830 GLT	1475	2294	40.2	9.9	5.0	3.69	16.8	0.50	0.37	0.86
1516	DP 1646 B2XF	1838	2649	41.0	8.2	4.4	3.39	16.1	0.60	0.52	1.12
1536	PHY 764 WRF	937	1574	38.9	10.2	4.4	3.65	19.6	0.62	0.44	1.06
1592	DG 3520 B3XF	1187	2054	38.4	11.3	4.2	3.56	23.3	0.63	0.47	1.10
1593	ST 4550 GLTP	1546	2217	40.6	9.0	5.0	3.87	14.4	0.63	0.46	1.10
1595	NG 4936 B3XF	1508	2469	40.0	9.0	4.5	3.28	14.4	0.80	0.38	1.18
1598	DP 2012 B3XF	1724	2352	41.6	8.3	4.2	3.55	17.3	0.82	0.48	1.29
1599	PHY 400 W3FE	1614	2449	40.8	9.4	4.47	3.33	22.1	0.90	0.50	1.40
	LSD	112	723	5.30	0.65	0.76	0.36	3.00	---	---	---

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short	Strength	Elon	RD	Hunters
				Mean Length		Fiber		gation		Plus b
1503	FM 1830 GLT	4.3	0.88	1.26	85.0	4.4	34.5	4.4	82.5	7.8
1516	DP 1646 B2XF	4.5	0.87	1.27	84.1	4.1	29.7	5.6	81.2	8.0
1536	PHY 764 WRF	4.2	0.87	1.22	84.4	4.8	37.2	5.1	78.3	9.0
1592	DG 3520 B3XF	4.0	0.86	1.26	86.4	3.9	33.6	5.5	79.4	8.5
1593	ST 4550 GLTP	4.9	0.89	1.20	86.0	4.3	34.4	5.3	78.9	9.0
1595	NG 4936 B3XF	4.5	0.88	1.25	85.6	4.3	31.1	5.3	81.9	7.7
1598	DP 2012 B3XF	4.4	0.88	1.25	84.8	4.7	32.4	4.4	80.7	8.3
1599	PHY 400 W3FE	4.4	0.88	1.25	85.3	4.6	33.6	4.8	82.0	8.4
	LSD	0.38	0.01	0.02	1.40	0.82	1.70	0.24	1.40	0.66

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 1830 GLT	0.96	1.13	15.2	3.91	1.32	167	5.34	0.95	113	11
1516	DP 1646 B2XF	0.93	1.13	18.5	4.88	1.34	169	5.84	0.92	146	15
1536	PHY 764 WRF	0.91	1.08	17.6	4.94	1.27	157	6.67	0.9	174	17
1592	DG 3520 B3XF	0.95	1.14	17.3	4.3	1.32	161	6.7	0.88	174	20
1593	ST 4550 GLTP	0.92	1.08	15.6	4.08	1.25	174	5.12	0.94	90	14
1595	NG 4936 B3XF	0.92	1.1	18.8	5.13	1.3	170	5.8	0.92	134	13
1598	DP 2012 B3XF	0.91	1.09	18.3	4.92	1.29	172	5.07	0.95	113	9
1599	PHY 400 W3FE	0.88	1.07	20.8	5.98	1.27	166	5.54	0.93	104	9
	LSD	0.09	0.05	7.1	2.1	0.03	8.9	0.63	0.03	80	13.0

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	1313	2040	40.2	9.4	4.6	3.79	17.7	0.67	0.45	1.13
Weslaco-Irri	1673	2474	40.2	9.4	4.4	3.29	18.3	0.70	0.45	1.15

LOCATION	Micronaire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
			Mean Length						
College Station, TX	4.1	0.87	1.26	85.2	4.2	33.1	5.2	80.7	7.1
Weslaco, TX	4.7	0.88	1.22	85.2	4.6	33.5	4.9	80.5	9.6

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	0.87	1.08	21.5	5.82	1.28	163	5.90	0.92	166	20
Weslaco, TX	0.97	1.12	14.1	3.71	1.30	171	5.62	0.93	96	7

CENTRAL REGION INDIVIDUAL LOCATION SUMMARIES

Location: College Station, TX

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)								
1503	FM 1830 GLT	1303	1935	41.2	10.0	5.3	3.92	18.5	0.49	0.37	0.86
1516	DP 1646 B2XF	1731	2911	37.6	8.6	5.1	3.66	15.5	0.59	0.54	1.12
1536	PHY 764 WRF	713	1082	41.1	10.2	3.8	3.99	17.8	0.58	0.42	1.00
1592	DG 3520 B3XF	1071	1987	38.2	11.5	4.2	3.71	22.7	0.64	0.50	1.13
1593	ST 4550 GLTP	1331	2059	39.6	8.8	4.8	3.98	14.0	0.64	0.46	1.10
1595	NG 4936 B3XF	1301	1859	42.3	8.8	4.6	3.56	15.0	0.79	0.40	1.19
1598	DP 2012 B3XF	1525	2237	39.4	8.6	4.9	4.05	16.7	0.77	0.45	1.22
1599	PHY 400 W3FE	1528	2252	41.6	8.7	4.5	3.49	21.6	0.89	0.51	1.41
	LSD	118	776	6.80	1.00	1.20	0.56	6.60			

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1503	FM 1830 GLT	3.8	0.87	1.26	84.5	4.3	33.8	4.6	83.0	7.0
1516	DP 1646 B2XF	4.3	0.87	1.31	84.2	3.5	29.4	5.5	81.2	6.3
1536	PHY 764 WRF	4.2	0.87	1.23	84.7	4.7	37.3	5.5	77.7	8.0
1592	DG 3520 B3XF	3.9	0.86	1.27	86.2	4.0	33.4	5.7	79.6	7.0
1593	ST 4550 GLTP	4.7	0.88	1.22	85.8	4.5	34.4	5.5	78.9	7.8
1595	NG 4936 B3XF	4.2	0.87	1.28	85.7	4.0	30.0	5.2	82.9	6.3
1598	DP 2012 B3XF	4.1	0.87	1.28	85.5	4.2	33.8	4.4	80.1	7.1

1599	PHY 400 W3FE	3.9	0.87	1.27	85.3	4.5	32.8	5.0	82.5	7.2
	LSD	0.77	0.02	0.03	2.20	1.50	2.20	0.45	2.30	0.47

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.93	1.12	18.0	4.59	1.32	165	5.37	0.95	144	15
1516	DP 1646 B2XF	0.90	1.12	21.1	5.44	1.33	166	5.87	0.92	152	18
1536	PHY 764 WRF	0.87	1.06	20.8	5.92	1.26	156	6.87	0.90	241	24
1592	DG 3520 B3XF	0.87	1.10	23.6	6.10	1.31	153	7.32	0.86	245	30
1593	ST 4550 GLTP	0.86	1.05	19.9	5.27	1.23	169	5.24	0.93	129	24
1595	NG 4936 B3XF	0.87	1.08	22.5	6.18	1.29	164	6.02	0.91	162	18
1598	DP 2012 B3XF	0.88	1.08	21.2	5.74	1.29	169	5.18	0.95	130	15
1599	PHY 400 W3FE	0.83	1.03	24.5	7.35	1.25	164	5.35	0.93	127	15
	LSD	0.08	0.04	6.30	2.10	0.04	9.10	0.77	0.04	90	18.0

Location: Weslaco, TX

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1705	2653	39.2	9.7	4.8	3.46	15.1	0.50	0.36	0.86
1516	DP 1646 B2XF	1946	2387	44.3	7.7	3.7	3.11	16.6	0.61	0.51	1.12
1536	PHY 764 WRF	1161	2067	36.6	10.2	5.0	3.32	21.5	0.66	0.47	1.13
1592	DG 3520 B3XF	1342	2122	38.6	11.2	4.2	3.42	23.9	0.63	0.44	1.07
1593	ST 4550 GLTP	1762	2374	41.6	9.2	5.1	3.76	14.8	0.63	0.47	1.10
1595	NG 4936 B3XF	1785	3078	37.7	9.2	4.3	3.01	13.7	0.80	0.37	1.17
1598	DP 2012 B3XF	1924	2467	43.8	8.0	3.4	3.06	17.9	0.86	0.51	1.37
	LSD	189	1137	6.40	1.00	1.20	0.57	1.80	0.10	0.04	0.14

vcode	VARIETY	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
1503	FM 1830 GLT	4.8	0.89	1.25	85.5	4.5	35.3	4.2	82.0	8.6
1516	DP 1646 B2XF	4.8	0.88	1.24	84.1	4.8	30.0	5.6	81.3	9.7
1536	PHY 764 WRF	4.2	0.88	1.21	84.0	4.9	37.2	4.8	78.9	10.1
1592	DG 3520 B3XF	4.1	0.87	1.25	86.6	3.9	33.8	5.4	79.3	10.0
1593	ST 4550 GLTP	5.1	0.89	1.19	86.2	4.2	34.5	5.1	78.9	10.1
1595	NG 4936 B3XF	4.9	0.89	1.21	85.5	4.7	32.1	5.5	80.8	9.2
1598	DP 2012 B3XF	4.7	0.89	1.22	84.2	5.2	31.0	4.5	81.3	9.6
1599	PHY 400 W3FE	4.8	0.89	1.23	85.3	4.8	34.5	4.6	81.5	9.5
	LSD	0.40	0.01	0.03	2.30	1.10	2.80	0.32	2.20	0.97

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	1.00	1.14	12.5	3.24	1.32	169	5.32	0.96	82	7
1516	DP 1646 B2XF	0.97	1.14	15.9	4.32	1.35	171	5.82	0.92	140	12
1536	PHY 764 WRF	0.95	1.11	14.4	3.95	1.28	159	6.47	0.91	106	10
1592	DG 3520 B3XF	1.04	1.17	11.0	2.50	1.34	169	6.09	0.91	102	9
1593	ST 4550 GLTP	0.98	1.11	11.3	2.90	1.27	179	5.00	0.96	52	5
1595	NG 4936 B3XF	0.97	1.12	15.2	4.08	1.30	175	5.58	0.93	107	9
1598	DP 2012 B3XF	0.95	1.11	15.3	4.10	1.30	175	4.95	0.95	96	3
1599	PHY 400 W3FE	0.93	1.1	17.2	4.60	1.29	169	5.73	0.94	81	3
	LSD	0.06	0.04	4.20	1.30	0.03	11	0.97	0.03	63	8.5



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DELTA REGION

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

**2022 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 1830 GLT	1137	1398	40.7	9.7	5.3	4.01	15.2	0.52	0.38	0.90
1516	DP 1646 B2XF	1376	1635	41.3	8.8	4.7	3.84	15.6	0.59	0.52	1.11
1536	PHY 764 WRF	979	1268	39.0	10.8	4.8	3.90	19.0	0.52	0.39	0.91
1592	DG 3520 B3XF	1242	1749	38.9	11.6	5.0	3.72	22.5	0.60	0.46	1.06
1593	ST 4550 GLTP	1370	1700	41.1	9.2	5.3	4.17	16.6	0.67	0.49	1.16
1595	NG 4936 B3XF	1350	1737	39.3	10.0	5.3	3.73	15.1	0.84	0.42	1.26
1598	DP 2012 B3XF	1428	1884	39.1	8.9	4.7	4.03	17.7	0.78	0.44	1.20
1599	PHY 400 W3FE	1510	1732	42.1	9.5	4.7	3.94	18.7	0.76	0.43	1.19
	LSD*	164	349	2.40	0.34	0.91**	0.34	1.9	0.08	0.07	0.15

*LSD was calculated based on three locations, Jackson, Keiser, and Portageville.

**LSD for boll size was calculated based on the solely available data from Keiser location.

vcode	VARIETY	Micronaire	Maturity	Upper Half	Uniformity	Short Fiber	Strength	Elongation	RD	Hunters
				Mean Length	Index					Plus b
1503	FM 1830 GLT	4.5	0.88	1.25	84.1	4.4	33.1	4.8	79.5	7.1
1516	DP 1646 B2XF	4.6	0.87	1.24	83.4	4.7	31.0	5.7	79.9	7.3
1536	PHY 764 WRF	4.4	0.88	1.19	84.5	4.8	35.5	5.1	78.2	7.8
1592	DG 3520 B3XF	4.0	0.86	1.25	84.9	4.2	31.7	6.1	78.1	7.6
1593	ST 4550 GLTP	4.6	0.87	1.17	84.4	5.3	31.9	6.0	78.5	8.1
1595	NG 4936 B3XF	4.5	0.87	1.21	84.0	5.5	29.5	6.1	80.4	7.0
1598	DP 2012 B3XF	4.5	0.88	1.21	84.0	5.1	32.2	5.1	78.7	7.7
1599	PHY 400 W3FE	4.5	0.88	1.19	83.5	6.0	32.4	5.2	78.6	7.6
	LSD*	0.17	0.01	0.03	1.2	0.88	1.20	0.23	1.30	0.45

*LSD was calculated based on three locations, Jackson, Keiser, and Portageville.

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Fiber	Fiber			Fiber			
1503	FM 1830 GLT	0.95	1.13	17.0	4.80	1.35	164	5.86	0.93	147	12
1516	DP 1646 B2XF	0.89	1.07	20.4	6.38	1.30	165	6.68	0.89	134	9
1536	PHY 764 WRF	0.93	1.08	15.8	4.59	1.27	165	6.07	0.91	110	14
1592	DG 3520 B3XF	0.92	1.10	18.7	5.45	1.32	158	7.30	0.86	171	12
1593	ST 4550 GLTP	0.89	1.06	18.7	5.67	1.26	166	6.75	0.89	146	12
1595	NG 4936 B3XF	0.89	1.09	21.4	6.37	1.32	166	6.69	0.89	211	16
1598	DP 2012 B3XF	0.90	1.07	18.1	5.35	1.27	168	6.18	0.91	130	8
1599	PHY 400 W3FE	0.88	1.07	20.0	6.04	1.29	165	6.37	0.90	129	9
	LSD*	0.06	0.04	4.80	1.70	0.04	8.90	0.95	0.03	77	8.4

*LSD was calculated based on three locations, Jackson, Keiser, and Portageville.

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
Jackson, TN	1465	.	.	10.4	.	3.59	18.5	0.77	0.55	1.32
Portageville, MO	1017	1706	37.4	.	.	.	.	.	.	.
Keiser, AR	1274	1570	43.1	9.2	5.0	4.24	16.6	0.55	0.33	0.87

LOCATION	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
Stoneville, MS	4.5	0.88	1.17	84.5	5.4	32.9	4.9	79.6	7.6
Jackson, TN	4.8	0.88	1.23	84.7	4.7	32.8	5.8	81.1	7.3
Portageville, MO	4.2	0.86	1.23	83.2	5.1	31.2	5.8	73.5	7.3
Keiser, AR	4.2	0.87	1.20	84.2	4.8	32.4	5.3	81.9	7.9

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
Jackson, TN	0.95	1.12	15.9	4.49	1.32	172	5.85	0.92	121	7
Portageville, MO	0.87	1.08	23.3	7.11	1.33	158	7.41	0.87	217	18
Keiser, AR	0.91	1.08	17.6	5.24	1.27	163	6.49	0.90	115	13
Stoneville, MS	0.88	1.04	17.2	5.25	1.22	165	5.98	0.92	114	5.4

DELTA REGION INDIVIDUAL LOCATION SUMMARIES

Location: Jackson, TN

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	1255	.	.	10.3	.	3.72	16.3	0.61	0.49	1.10
1516	DP 1646 B2XF	1543	.	.	9.3	.	3.50	16.6	0.70	0.64	1.33
1536	PHY 764 WRF	1075	.	.	11.5	.	3.45	20.3	0.67	0.54	1.20
1592	DG 3520 B3XF	1297	.	.	13.2	.	3.44	23.2	0.73	0.62	1.35
1593	ST 4550 GLTP	1546	.	.	9.7	.	3.80	19.3	0.79	0.61	1.40
1595	NG 4936 B3XF	1624	.	.	10.5	.	3.56	15.5	0.92	0.50	1.41
1598	DP 2012 B3XF	1579	.	.	9.0	.	3.60	18.8	0.89	0.55	1.43
1599	PHY 400 W3FE	1799	.	.	9.9	.	3.71	17.9	0.86	0.50	1.35
	LSD	278			0.60		0.59	3.9	0.13	0.12	0.25

vcode	VARIETY	Micronaire	Maturity	Upper Half						
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	5.0	0.90	1.26	83.8	4.8	33.7	4.7	81.7	6.6
1516	DP 1646 B2XF	5.0	0.88	1.30	83.7	3.7	31.0	6.2	82.3	7.0
1536	PHY 764 WRF	4.7	0.89	1.23	85.7	4.1	39.5	5.5	78.6	7.7
1592	DG 3520 B3XF	4.1	0.86	1.29	86.8	3.1	31.8	6.9	81.4	8.1
1593	ST 4550 GLTP	5.1	0.88	1.19	85.6	4.8	33.4	6.2	80.1	8.2
1595	NG 4936 B3XF	5.1	0.88	1.21	84.5	5.6	29.7	6.4	82.5	6.6
1598	DP 2012 B3XF	4.8	0.89	1.21	84.2	5.7	31.6	5.0	81.2	7.1
1599	PHY 400 W3FE	4.9	0.89	1.19	83.2	6.3	32.1	5.3	81.2	7.6
	LSD	0.22	0.01	0.07	1.70	1.60	2.40	0.37	2.00	1.10

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight			Fiber Content			Number Count
1503	FM 1830 GLT	0.98	1.14	14.9	3.98	1.35	174	4.95	0.95	99	8
1516	DP 1646 B2XF	0.97	1.15	16.3	4.58	1.38	172	6.15	0.90	115	4
1536	PHY 764 WRF	0.98	1.13	14.4	4.00	1.32	171	5.60	0.93	119	9
1592	DG 3520 B3XF	1.02	1.17	13.5	3.45	1.38	161	7.43	0.86	178	10
1593	ST 4550 GLTP	0.95	1.10	14.5	4.03	1.28	174	5.95	0.93	118	4
1595	NG 4936 B3XF	0.94	1.12	16.9	4.82	1.33	176	5.73	0.92	134	10
1598	DP 2012 B3XF	0.91	1.07	17.5	5.05	1.28	174	5.50	0.93	112	5
1599	PHY 400 W3FE	0.88	1.06	19.5	5.99	1.28	175	5.47	0.94	95	5
	LSD	0.10	0.08	5.60	2.00	0.07	6.20	0.54	0.02	42	6.5

Location: Portageville, MO

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)					
1503	FM 1830 GLT	806	1332	37.7	.	.	.	.	.	.	.
1516	DP 1646 B2XF	1110	1790	38.5	.	.	.	.	.	.	.
1536	PHY 764 WRF	654	1163	36.7	.	.	.	.	.	.	.
1592	DG 3520 B3XF	1067	1851	36.6	.	.	.	.	.	.	.
1593	ST 4550 GLTP	1022	1769	36.6	.	.	.	.	.	.	.
1595	NG 4936 B3XF	1210	2023	37.1	.	.	.	.	.	.	.
1598	DP 2012 B3XF	1088	1898	36.3	.	.	.	.	.	.	.
1599	PHY 400 W3FE	1182	1821	39.4	.	.	.	.	.	.	.
	LSD	387	616	5.10							

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.2	0.87	1.28	83.6	3.8	32.1	5.0	73.8	7.1
1516	DP 1646 B2XF	4.4	0.87	1.27	82.8	4.1	28.3	6.2	75.5	6.7
1536	PHY 764 WRF	4	0.86	1.21	83.5	5.2	34.5	5.7	72.9	7.7
1592	DG 3520B 3XF	3.7	0.85	1.27	82.8	4.5	31.0	6.5	69.8	7.6
1593	ST 4550 GLTP	4.4	0.87	1.17	83.6	6.4	30.6	6.0	74.0	7.5
1595	NG 4936 B3XF	4.3	0.87	1.23	83.0	5.4	29.0	6.4	75.8	6.9
1598	DP 2012 B3XF	4.4	0.87	1.22	82.9	5.4	31.8	5.2	73.2	7.2
1599	PHY 400 W3FE	4.3	0.87	1.22	83.6	6.0	32.2	5.3	73.2	7.8
	LSD	0.37	0.01	0.02	3.30	1.80	2.10	0.48	3.50	0.68

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL wt.	Fineness	Immature	Maturity ratio	Nep Count	Seed
				Fiber Content	Fiber Content			Fiber Content			Coat Number
1503	FM 1830 GLT	0.93	1.13	19.7	5.74	1.38	155	6.85	0.89	252	15
1516	DP 1646 B2XF	0.84	1.07	26.1	8.53	1.35	158	8.13	0.86	171	13
1536	PHY 764 WRF	0.89	1.07	19.9	6.05	1.28	164	6.62	0.90	153	26
1592	DG 3520 B3XF	0.87	1.10	23.8	7.19	1.36	150	8.24	0.83	243	16
1593	ST 4550 GLTP	0.82	1.04	25.2	7.94	1.27	156	7.75	0.85	216	23
1595	NG 4936 B3XF	0.84	1.08	26.7	8.05	1.35	157	7.79	0.85	351	22
1598	DP 2012 B3XF	0.88	1.09	22.8	6.80	1.33	165	7.00	0.89	172	16
1599	PHY 400 W3FE	0.87	1.08	22.1	6.63	1.32	160	6.90	0.88	176	11
	LSD	0.06	0.04	4.50	1.80	0.04	11	1.00	0.04	138	17.0

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 1830 GLT	1184	1465	43.8	9.1	5.3	4.30	14.1	0.43	0.28	0.71
1516	DP 1646 B2XF	1342	1480	44.1	8.3	4.7	4.18	14.7	0.49	0.40	0.89
1536	PHY 764 WRF	1045	1374	41.4	10.2	4.8	4.35	17.7	0.38	0.24	0.62
1592	DG 3520 B3XF	1275	1647	41.3	10	5.0	4.00	21.8	0.47	0.31	0.78
1593	ST 4550 GLTP	1367	1630	45.6	8.7	5.3	4.54	13.9	0.55	0.36	0.91
1595	NG 4936 B3XF	1146	1452	41.5	9.6	5.2	3.91	14.7	0.76	0.35	1.10
1598	DP 2012 B3XF	1448	1870	41.9	8.8	4.7	4.46	16.6	0.66	0.32	0.98
1599	PHY 400 W3FE	1386	1643	44.9	9.2	4.7	4.17	19.5	0.66	0.37	1.02
	LSD	159	460	1.50	0.44	0.91	0.46	1.50	0.11	0.11	0.22

vcode	VARIETY	Micronaire	Maturity	Upper Half							Hunters Plus b
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD		
1503	FM 1830 GLT	4.4	0.88	1.22	84.9	4.7	33.6	4.6	83.1	7.5	
1516	DP 1646 B2XF	4.4	0.87	1.24	83.7	5.1	30.6	5.7	82.9	7.8	
1536	PHY 764 WRF	4.4	0.88	1.19	84.9	4.5	36.7	5.3	80.6	8.7	
1592	DG 3520 B3XF	3.6	0.85	1.26	84.6	3.7	32.1	6.0	81.1	7.6	
1593	ST 4550 GLTP	4.3	0.87	1.14	84.0	4.7	31.8	5.8	81.6	8.7	
1595	NG 4936 B3XF	4.2	0.87	1.20	84.7	5.4	29.9	5.5	83.1	7.5	
1598	DP 2012 B3XF	4.3	0.88	1.21	83.5	5.0	31.5	4.5	81.4	8.2	
1599	PHY 400 W3FE	4.2	0.87	1.17	83.8	5.7	32.8	5.0	81.3	7.6	
	LSD	0.37	0.01	0.06	1.30	1.20	2.30	0.23	1.80	0.90	

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 1830 GLT	0.95	1.12	16.5	4.68	1.32	164	5.78	0.94	91	15
1516	DP 1646 B2XF	0.89	1.08	20.7	6.42	1.30	166	6.42	0.90	123	13
1536	PHY 764 WRF	0.96	1.09	12.7	3.59	1.26	162	6.45	0.90	93	18
1592	DG 3520 B3XF	0.90	1.08	18.5	5.48	1.28	155	7.55	0.86	162	16
1593	ST 4550 GLTP	0.89	1.04	16.4	5.05	1.22	167	6.55	0.90	104	9
1595	NG 4936 B3XF	0.88	1.07	20.6	6.25	1.28	166	6.57	0.90	149	15
1598	DP 2012 B3XF	0.92	1.08	16.9	4.95	1.28	167	5.90	0.92	86	5
1599	PHY 400 W3FE	0.89	1.07	18.4	5.50	1.27	160	6.73	0.90	115	13
	LSD	0.07	0.06	4.60	1.80	0.05	9.90	1.00	0.03	59	13.0

Location: Stoneville, MS

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

<u>vcode</u>	VARIETY	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	4.5	0.88	1.13	83.5	6.0	34.2	5.1	78.9	7.9
1536	PHY 764 WRF	4.4	0.88	1.17	83.8	5.6	31.5	4.1	80.6	7.3
1592	DG 3520 B3XF	4.6	0.88	1.17	85.3	5.5	32.1	5.0	80.3	6.9
1593	ST 4550 GLTP	.	.	.	.	.	.	.	.	.
1595	NG 4936 B3XF	.	.	.	.	.	.	.	.	.
1598	DP 2012 B3XF	4.5	0.88	1.20	85.5	4.4	34.0	5.6	78.9	8.4
1599	PHY 400 W3FE	.	.	.	.	.	.	.	.	.
	LSD	1.40	0.03	0.12	1.30	1.60	12.0	0.59	2.40	2.70

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT										
1516	DP 1646 B2XF	0.85	1.00	18.5	6.00	1.19	164	6.04	0.91	128	6
1536	PHY 764 WRF	0.90	1.05	15.9	4.72	1.23	165	5.60	0.93	76	2
1592	DG 3520 B3XF	0.89	1.06	19.0	5.67	1.25	167	5.98	0.92	100	7
1593	ST 4550 GLTP										
1595	NG 4936 B3XF										
1598	DP 2012 B3XF	0.90	1.05	15.4	4.60	1.21	165	6.32	0.90	152	7
1599	PHY 400 W3FE										
	LSD	0.12	0.13	7.30	2.80	0.17	25	1.70	0.06	58	11.0



2022 National Cotton Variety Test

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WESTERN REGION

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

**2022 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR WESTERN 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 1830 GLT	2624	3603	42.3	10.0	6.3	4.04	15.8	0.54	0.40	0.94
1516	DP 1646 B2XF	2173	2965	42.5	8.7	5.6	3.88	16.5	0.58	0.48	1.07
1536	PHY 764 WRF	2169	3222	40.6	9.6	5.8	4.17	19.3	0.51	0.35	0.86
1592	DG 3520 B3XF	2290	3630	39.1	11.6	6.1	3.80	22.6	0.59	0.43	1.02
1593	ST 4550 GLTP	2543	3493	42.1	9.2	6.2	4.27	15.3	0.68	0.49	1.16
1595	NG 4936 B3XF	2368	3562	40.1	9.3	6.1	3.66	15.5	0.88	0.44	1.31
1598	DP 2012 B3XF	2673	3702	42.1	8.5	5.3	4.33	18.0	0.66	0.32	0.98
1599	PHY 400 W3FE	2648	3575	42.6	9.9	6.3	3.90	19.5	0.70	0.40	1.11
	LSD	213	293	1.1	1.00	0.37	0.25	1.6			

vcode	VARIETY	Micronaire	Maturity	Upper Half						
				Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	4.6	0.88	1.23	83.1	5.3	30.7	4.8	79.3	7.2
1516	DP 1646 B2XF	4.5	0.87	1.24	82.5	5.5	29.2	5.9	80.4	7.5
1536	PHY 764 WRF	4.3	0.88	1.17	83.3	6.2	34.5	5.3	76.7	8.6
1592	DG 3520 B3XF	3.9	0.86	1.24	84.3	4.2	31.7	6.4	78.1	8.0
1593	ST 4550 GLTP	4.9	0.88	1.14	83.7	6.1	32.1	5.9	77.5	8.1
1595	NG 4936 B3XF	4.6	0.87	1.21	83.6	5.5	29.6	5.6	80.0	7.3
1598	DP 2012 B3XF	4.5	0.88	1.18	82.9	6.8	28.3	5.0	78.8	7.8
1599	PHY 400 W3FE	4.6	0.88	1.18	82.1	7.1	31.1	5.2	78.3	8.0
	LSD	0.25	0.01	0.04	0.87	1.00	1.80	0.44	1.90	0.74

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 1830 GLT	0.89	1.07	19.4	6.06	1.30	167	6.38	0.92	147	9
1516	DP 1646 B2XF	0.87	1.07	22.2	6.93	1.31	166	6.46	0.88	183	8
1536	PHY 764 WRF	0.90	1.06	17.3	5.30	1.25	165	6.43	0.90	148	9
1592	DG 3520 B3XF	0.90	1.08	19.4	5.65	1.28	161	7.29	0.86	204	13
1593	ST 4550 GLTP	0.85	1.01	19.9	6.33	1.20	173	6.35	0.91	131	7
1595	NG 4936 B3XF	0.88	1.06	21.0	6.44	1.28	173	6.62	0.90	194	11
1598	DP 2012 B3XF	0.88	1.05	19.7	5.95	1.26	168	6.26	0.90	138	6
1599	PHY 400 W3FE	0.83	1.02	23.0	7.46	1.23	171	6.38	0.91	145	7
	LSD	0.07	0.08	2.60	1.00	0.12	16	1.10	0.06	54	4.7

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
Las Cruces, NM	2181	2959	42.4	.	6.0	3.77	19.0	0.76	0.54	1.30
Maricopa, AZ	2776	4148	40.1	9.6	.	4.24	16.6	0.55	0.33	0.87

LOCATION	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
Las Cruces, NM	4.1	0.86	1.27	84.5	4.2	29.3	6.2	79.7	6.6
Maricopa, AZ	4.8	0.89	1.12	81.8	7.4	32.5	4.8	77.6	9.0

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
Las Cruces, NM	0.90	1.10	19.6	5.93	1.33	160	7.03	0.86	146	8
Maricopa, AZ	0.84	1.01	20.9	6.60	1.20	175	6.01	0.93	176	9

WESTERN REGION INDIVIDUAL LOCATION SUMMARIES

Location: Las Cruces, NM

vcode	VARIETY	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830 GLT	2453	3239	43.1	.	6.29	3.77	17.6	0.66	0.52	1.17
1516	DP 1646 B2XF	1646	2177	43.1	.	5.57	3.59	18.4	0.77	0.66	1.43
1536	PHY 764 WRF	1797	2461	42.1	.	5.76	3.98	21.0	0.64	0.47	1.10
1592	DG 3520 B3XF	2111	3050	41.0	.	6.13	3.60	23.3	0.71	0.56	1.26
1593	ST 4550 GLTP	2234	3120	41.7	.	6.22	4.00	16.7	0.81	0.61	1.42
1595	NG 4936 B3XF	2111	3050	41.0	.	6.13	3.41	16.4	0.99	0.53	1.52
1598	DP 2012 B3XF	2642	3338	44.2	.	5.27	4.21	19.5	.	.	.
1599	PHY 400 W3FE	2453	3239	43.1	.	6.29	3.63	19.5	0.80	0.48	1.28
	LSD	376	505	1.70		0.37	0.32	2.90			

vcode	VARIETY	Micronaire	Maturity	Upper Half			Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length	Uniformity Index						
1503	FM 1830 GLT	3.9	0.86	1.35	84.9		2.7	29.3	5.4	80.6	5.6
1516	DP 1646 B2XF	4.2	0.86	1.33	84.0		3.0	27.3	6.7	80.7	6.3
1536	PHY 764 WRF	3.9	0.86	1.27	84.9		4.1	33.8	5.7	77.9	7.9
1592	DG 3520 B3XF	3.6	0.84	1.33	85.2		2.8	28.3	7.2	80.1	6.9
1593	ST 4550 GLTP	4.5	0.87	1.19	84.5		5.2	29.5	6.5	79.3	6.6
1595	NG 4936 B3XF	4.4	0.87	1.26	85.1		4.6	28.1	6.4	81.5	6.2
1598	DP 2012 B3XF	4.3	0.87	1.25	85.1		4.8	28.5	5.7	78.8	6.2
1599	PHY 400 W3FE	4.1	0.87	1.23	82.5		6.9	29.5	5.9	78.8	7.2
	LSD	0.38	0.01	0.04	1.80		1.60	2.00	0.90	3.60	1.30

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber	Maturity ratio	Nep Count	Seed Coat
				Content	Content			Content			Number
1503	FM 1830 GLT	0.93	1.13	19.8	5.98	1.40	151	7.32	0.87	166	6
1516	DP 1646 B2XF	0.91	1.12	20.9	6.37	1.38	160	7.20	0.84	152	7
1536	PHY 764 WRF	0.93	1.12	18.1	5.32	1.34	158	6.87	0.88	136	11
1592	DG 3520 B3XF	0.95	1.13	17.7	4.93	1.37	154	7.89	0.82	183	11
1593	ST 4550 GLTP	0.88	1.05	19.2	5.89	1.25	166	6.62	0.88	128	5
1595	NG 4936 B3XF	0.91	1.10	19.1	5.72	1.32	169	6.84	0.87	161	13
1598	DP 2012 B3XF	0.91	1.09	19.4	5.65	1.32	162	7.05	0.86	112	6
1599	PHY 400 W3FE	0.84	1.04	23.1	7.60	1.28	163	6.47	0.88	133	6
	LSD	0.04	0.03	2.50	1.10	0.02	7.20	0.54	0.03	59	6.1

Location: Maricopa, AZ

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 1830 GLT	2851	4088	41.1	10.0	.	4.30	14.1	0.43	0.28	0.71
1516	DP 1646 B2XF	2874	4015	41.7	8.7	.	4.18	14.7	0.49	0.40	0.89
1536	PHY 764 WRF	2665	4237	38.6	9.6	.	4.35	17.7	0.38	0.24	0.62
1592	DG 3520 B3XF	2529	4403	36.5	11.6	.	4.00	21.8	0.47	0.31	0.78
1593	ST 4550 GLTP	2955	3991	42.6	9.2	.	4.54	13.9	0.55	0.36	0.91
1595	NG 4936 B3XF	2710	4244	39.0	9.3	.	3.91	14.7	0.76	0.35	1.10
1598	DP 2012 B3XF	2716	4187	39.4	8.5	.	4.46	16.6	0.66	0.32	0.98
	LSD	9.9	190	1.10			0.46	1.50	0.10	0.11	0.22

vcode	VARIETY	Upper Half								
		Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
1503	FM 1830 GLT	5.2	0.9	1.12	81.3	7.9	32.1	4.2	78.0	8.7
1516	DP 1646 B2XF	4.9	0.89	1.15	80.9	8.0	31.2	5.1	80.0	8.6
1536	PHY 764 WRF	4.7	0.89	1.08	81.7	8.4	35.3	4.9	75.5	9.4
1592	DG 3520 B3XF	4.2	0.87	1.15	83.3	5.6	35.0	5.7	76.1	9.1
1593	ST 4550 GLTP	5.2	0.90	1.08	82.8	7.0	34.7	5.3	75.8	9.7
1595	NG 4936 B3XF	4.8	0.88	1.15	82.1	6.5	31.2	4.9	78.5	8.5
1598	DP 2012 B3XF	4.7	0.89	1.11	80.7	8.9	28.1	4.3	78.8	9.3
1599	PHY 400 W3FE	5.0	0.89	1.13	81.8	7.4	32.6	4.6	77.8	8.9
	LSD	0.40	0.02	0.08	0.85	1.40	3.50	0.47	2.40	1.10

vcode	VARIETY	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat Number Count
1503	FM 1830 GLT	0.85	1.01	19.1	6.14	1.19	184	5.44	0.98	129	12
1516	DP 1646 B2XF	0.83	1.01	23.6	7.50	1.23	172	5.72	0.91	215	8
1536	PHY 764 WRF	0.86	1.00	16.6	5.29	1.16	171	6.00	0.92	159	7
1592	DG 3520 B3XF	0.84	1.02	21.1	6.37	1.20	168	6.70	0.89	224	16
1593	ST 4550 GLTP	0.82	0.98	20.6	6.77	1.16	180	6.09	0.94	135	9
1595	NG 4936 B3XF	0.84	1.03	23.0	7.17	1.25	177	6.40	0.94	227	9
1598	DP 2012 B3XF	0.85	1.01	19.9	6.25	1.20	173	5.47	0.94	164	7
1599	PHY 400 W3FE	0.82	1.00	22.9	7.32	1.19	179	6.28	0.94	157	9
	LSD	0.06	0.06	4.40	1.60	0.08	20	1.30	0.05	91	7.1



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PIMA REGION

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

**2022 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR PIMA BY VARIETIES**

vcode	VARIETY	Lint	Seed	Lint Percent	Seed Index	Boll	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
		Yield (lb/a)	Yield (lb/a)			Size (g/boll)					
1532	PHY 881 RF	888	1445	38.2		4.3	3.98	23.6			
1597	DP 359 RF	780	1214	39.3		4.1	3.88	23.1			
1611	DP 347 RF	1307	1830	41.8		3.8	3.96	22.1			
1625	PHY 807 RF	1024	1661	38.3		4.0	3.93	23.1			
	LSD	221	305	1.20		0.39	0.43	3.10			

vcode	VARIETY	Micronaire	Maturity	Upper Half		Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
				Mean Length							
1532	PHY 881 RF	4.3	0.88	1.50		86.5	2.6	45.4	5.6	70.3	10.3
1597	DP 359 RF	4.5	0.89	1.42		85.7	2.6	43.2	5.1	68.7	11.3
1611	DP 347 RF	4.0	0.87	1.43		85.2	2.6	43.2	5.4	71.6	11.0
1625	PHY 807 RF	4.0	0.87	1.46		87.3	2.5	45.2	5.7	71.8	11.1
	LSD	0.34	0.01	0.10		2.90	0.13	2.60	0.54	3.00	0.78

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL wt.	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	Seed Coat
				Content Number	Content Weight						Number Count
1532	PHY 881 RF	1.11	1.31	14.2	3.12	1.57	148	6.30	0.93	115	8
1597	DP 359 RF	1.02	1.23	17.2	3.84	1.47	153	5.70	0.95	107	7
1611	DP 347 RF	1.02	1.25	17.7	4.09	1.50	144	6.50	0.92	152	7
1625	PHY 807 RF	1.03	1.25	16.8	3.87	1.50	143	6.45	0.91	142	4
	LSD	0.05	0.07	2.70	0.63	0.09	11	1.20	0.04	33	3.1

PIMA 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
Las Cruces, NM	1000	1538	39.4		4.1	3.93	23.0			

LOCATION	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus b
Las Cruces, NM	4.2	0.87	1.45	86.2	2.6	44.2	5.4	70.6	10.9

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
Las Cruces, NM	1.04	1.26	16.4	3.73	1.51	146	6.24	0.92	129	6

PIMA REGION – INDIVIDUAL LOCATION SUMMARIES

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)	Nitr ogen Oil	Gossypol	Gossypol	Gossypol	
1532	PHY 881 RF	888	1445	38.2	4.3		3.98	23.6			
1597	DP 359 RF	780	1214	39.3	4.1		3.88	23.1			
1611	DP 347 RF	1307	1830	41.8	3.8		3.96	22.1			
1625	PHY 807 RF	1024	1661	38.3	4.0		3.93	23.1			
	LSD										

vcode	VARIETY			Upper Half		Short Fiber	Strength	Elongation	RD	Hunters Plus b
		Micronaire	Maturity	Mean Length	Uniformity Index					
1532	PHY 881 RF	4.3	0.88	1.50	86.5	2.6	45.4	5.6	70.3	10.3
1597	DP 359 RF	4.5	0.89	1.42	85.7	2.6	43.2	5.1	68.7	11.3
1611	DP 347 RF	4.0	0.87	1.43	85.2	2.6	43.2	5.4	71.6	11.0
1625	PHY 807 RF	4.0	0.87	1.46	87.3	2.5	45.2	5.7	71.8	11.1
	LSD	0.34	0.01	0.10	2.90	0.13	2.60	0.54	3.00	0.78

vcode	VARIETY			Short	Short			Immature	Maturity ratio	Nep Count	Seed
		Length Number	Length Weight	Fiber Content Number	Fiber Content Weight	UQL wt.	Fineness	Fiber Content			Coat Number Count
1532	PHY 881 RF	1.11	1.31	14.2	3.12	1.57	148	6.30	0.93	115	8
1597	DP 359 RF	1.02	1.23	17.2	3.84	1.47	153	5.70	0.95	107	7
1611	DP 347 RF	1.02	1.25	17.7	4.09	1.50	144	6.50	0.92	152	7
1625	PHY 807 RF	1.03	1.25	16.8	3.87	1.50	143	6.45	0.91	142	4
	LSD	0.05	0.07	2.70	0.63	0.09	11	1.20	0.04	33	3.1



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REGIONAL HIGH QUALITY

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

**2022 NATIONAL COTTON VARIETY TEST
REGIONAL SUMMARIES FOR REGIONAL HIGH QUALITY 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			
1516	DP 1646 B2XF	1444	2029	42.8	9.1	6.0	3.81	16.7	0.71	0.61	1.32
1536	PHY 764 WRF	1052	1681	40.0	11.1	6.4	3.99	20.1	0.66	0.50	1.16
1598	DP 2012 B3XF	1605	2415	42.4	9.1	5.8	4.00	19.4	0.89	0.54	1.43
1599	PHY 400 W3FE	1494	2011	43.6	9.5	6.1	3.92	20.4	0.77	0.52	1.28
1601	ST 4990 B3XF	1479	2417	40.4	9.9	6.1	3.54	16.2	0.85	0.50	1.35
1613	FM 1730 GLTP	1352	2193	41.1	10.1	6.8	4.05	16.7	0.65	0.46	1.12
1614	PHY 332 W3FE	1491	2156	42.0	10.2	6.3	3.54	18.8	0.88	0.62	1.50
1626	DP 2020 B3XF	1568	2510	40.9	9.6	5.6	3.92	19.0	0.90	0.56	1.46
1627	DP 2055 B3XF	1509	2041	43.5	8.0	5.6	3.72	16.7	0.69	0.53	1.22
1628	ARK 1408-53	1431	2273	39.5	11.0	7.1	3.80	19.9	0.69	0.57	1.26
1629	ARK 1405-18	1363	2136	39.4	11.1	6.7	3.98	20.0	0.85	0.61	1.46
	LSD	106	209	0.96	0.56	0.46*	0.16	1.10			

*LSD of boll size was calculated based on 4 locations, Las Cruces, Lubbock, Keiser, and Stoneville.

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon		Plus b
				Mean Length				gation	RD	
1516	DP 1646 B2XF	4.8	0.88	1.24	83.5	5.1	30.0	6.2	80.9	7.4
1536	PHY 764 WRF	4.5	0.87	1.21	84.3	4.9	36.2	5.5	79.1	8.1
1598	DP 2012 B3XF	4.5	0.88	1.19	83.6	5.7	31.6	5.0	80.1	7.9
1599	PHY 400 W3FE	4.5	0.88	1.19	83.6	5.6	33.0	5.2	79.5	7.6
1601	ST 4990 B3XF	4.9	0.88	1.21	84.2	5.3	31.3	5.8	80.7	7.1
1613	FM 1730 GLTP	4.5	0.88	1.23	84.5	4.5	34.3	5.0	80.1	7.3
1614	PHY 332 W3FE	4.7	0.88	1.21	83.7	5.5	31.9	5.7	79.2	8.1
1626	DP 2020 B3XF	4.6	0.88	1.22	83.8	5.5	31.4	5.1	79.6	7.6
1627	DP 2055 B3XF	4.7	0.88	1.24	83.1	5.2	30.6	6.1	80.2	7.8
1628	ARK 1408-53	4.8	0.88	1.25	83.5	4.9	33.5	5.3	79.1	7.9
1629	ARK 1405-18	4.8	0.88	1.24	84.5	4.2	33.5	5.7	80.4	7.8
	LSD	0.13	0.01	0.02	0.68	0.56	1.30	0.29	1.10	0.50

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 1646 B2XF	0.89	1.08	21.5	6.64	1.32	169	6.31	0.89	166	11
1536	PHY 764 WRF	0.91	1.08	18.2	5.33	1.29	162	6.50	0.90	144	13
1598	DP 2012 B3XF	0.87	1.06	20.4	6.11	1.26	168	6.23	0.91	125	9
1599	PHY 400 W3FE	0.87	1.05	20.9	6.41	1.27	167	6.28	0.91	140	9
1601	ST 4990 B3XF	0.90	1.09	19.8	5.86	1.3	171	6.09	0.90	163	12
1613	FM 1730 GLTP	0.93	1.11	17.2	4.83	1.31	162	6.12	0.91	132	9
1614	PHY 332 W3FE	0.86	1.06	22.3	6.96	1.29	172	6.33	0.90	159	7
1626	DP 2020 B3XF	0.90	1.09	19.8	5.76	1.31	169	6.02	0.91	147	9
1627	DP 2055 B3XF	0.84	1.04	23.0	7.42	1.28	169	6.35	0.90	176	8
1628	ARK 1408-53	0.92	1.12	19.6	5.59	1.35	168	5.90	0.92	154	10
1629	ARK 1405-18	0.94	1.11	17.1	4.91	1.32	174	5.63	0.92	114	8
	LSD	0.04	0.04	2.40	0.95	0.04	5.60	0.48	0.02	43	3.8

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	547	770	40.4	9.3	4.5	3.98	19.0	0.72	0.52	1.24
Stoneville, MS	1424	1980	41.8	10.6	5.1	3.79	17.7	0.79	0.58	1.36
Jackson, TN	1633	.	.	10.4	.	3.69	18.6	0.82	0.57	1.40
Florence, SC	.	.	.	.	.	3.57	19.0	0.78	0.56	1.34
Portageville, MO	1739	2786	38.3	.	.	.	.	.	.	.
Las Cruces, NM	2135	2868	42.7	.	5.8	3.73	19.2	0.90	0.64	1.53
Keiser, AR	1283	1743	42.4	9.2	4.9	4.30	17.8	0.73	0.47	1.20

LOCATION	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
Lubbock, TX	5.2	0.89	1.14	82.2	6.9	32.5	5.7	79.6	8.2
Stoneville, MS	4.5	0.88	1.23	84.3	4.8	33.9	5.1	81.7	7.9
Jackson, TN	4.8	0.88	1.25	84.7	4.6	32.9	5.7	81.5	7.8
Florence, SC	5.0	0.89	1.22	84.0	4.5	34.6	5.7	81.7	7.5
Portageville, MO	4.5	0.88	1.22	83.4	5.3	31.8	5.3	73.7	7.4
Las Cruces, NM	4.3	0.86	1.28	84.5	4.2	29.7	6.1	79.0	6.5
Keiser, AR	4.4	0.87	1.20	83.7	5.7	31.8	5.1	82.1	8.3

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	0.84	1.01	21.9	6.79	1.22	176	5.65	0.93	195	12
Stoneville, MS	0.91	1.11	20.2	5.90	1.33	168	6.16	0.91	134	9
Jackson, TN	0.96	1.13	15.9	4.38	1.34	174	5.71	0.92	99	7
Florence, SC	0.92	1.10	18.0	5.12	1.31	173	5.61	0.92	94	7
Portageville, MO	0.88	1.09	21.8	6.54	1.32	164	6.52	0.89	202	15
Las Cruces, NM	0.92	1.11	19.5	5.84	1.35	163	6.85	0.87	145	6
Keiser, AR	0.89	1.06	18.5	5.71	1.27	166	6.18	0.91	114	9

REGIONAL HIGH QUALITY REGION – INDIVIDUAL LOCATION SUMMARIES

Location: Lubbock, 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
1516	DP 1646 B2XF	535	715	42.7	8.3	4.4	4.23	17.5	0.60	0.56	1.16
1536	PHY 764 WRF	379	649	36.8	10.4	4.4	4.09	22.1	0.59	0.46	1.05
1598	DP 2012 B3XF	466	618	41.5	8.2	3.9	4.25	20.9	0.94	0.55	1.49
1599	PHY 400 W3FE	619	886	42.4	9.4	4.4	3.97	21.6	0.82	0.50	1.31

1601	ST 4990 B3XF	454	673	41.1	8.9	4.4	3.45	14.5	0.84	0.49	1.32
1613	FM 1730 GLTP	507	655	41.6	9.2	4.4	4.055	16.8	0.58	0.44	1.02
1614	PHY 332 W3FE	931	1182	41.4	10.1	4.9	3.64	19.1	0.79	0.60	1.39
1626	DP 2020 B3XF	631	829	40.5	8.5	4.2	4.145	20.1	0.86	0.51	1.36
1627	DP 2055 B3XF	513	721	43.0	7.4	3.8	3.85	16.1	0.64	0.50	1.14
1628	ARK 1408-53	469	726	37.6	10.8	5.6	3.905	20.5	0.60	0.54	1.14
1629	ARK 1405-18	509	811	36.3	10.9	5.0	4.23	20.4	0.69	0.56	1.25
	LSD	136	329	1.35	0.54	0.52	0.26	3.06	0.08	0.06	0.14

vcode	VARIETY	Micro naire	Maturity	Upper Half		Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length	Uniformity Index					
1516	DP 1646 B2XF	5.1	0.88	1.16	82	6.8	31.1	6.5	80.7	8.0
1536	PHY 764 WRF	4.7	0.88	1.13	81.9	6.5	36.3	6.0	78.5	8.5
1598	DP 2012 B3XF	4.8	0.88	1.10	81.4	8.5	30.8	5.2	80.1	8.4
1599	PHY 400 W3FE	5.2	0.89	1.11	81.9	7.6	32.7	5.5	78.8	8.1
1601	ST 4990 B3XF	5.2	0.89	1.15	82.4	6.9	31.2	6.0	81.2	7.7
1613	FM 1730 GLTP	5.3	0.90	1.10	82.7	6.9	33.5	5.1	80.5	7.4
1614	PHY 332 W3FE	5.3	0.89	1.15	82.3	6.7	32.2	6.2	76.9	8.9
1626	DP 2020 B3XF	5.2	0.89	1.15	82	7.1	32.0	5.0	80.3	8.7
1627	DP 2055 B3XF	5.3	0.89	1.17	81.5	7.6	29.3	6.4	79.3	8.1
1628	ARK 1408-53	5.5	0.90	1.17	83.1	6.0	33.5	5.1	79.8	8.0
1629	ARK 1405-18	5.3	0.89	1.19	83.5	5.4	35.2	6.1	79.6	8.1
	LSD	0.32	0.01	0.03	1.60	1.20	2.10	0.41	2.70	0.57

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
1536	PHY 764 WRF	0.81	0.99	23.1	7.37	1.19	164	6.22	0.90	240	19

1598	DP 2012 B3XF	0.82	0.99	21.9	6.83	1.19	177	5.17	0.94	154	8
1599	PHY 400 W3FE	0.82	0.99	22.6	7.12	1.19	177	5.57	0.93	191	7
1601	ST 4990 B3XF	0.82	1.01	24.4	7.62	1.23	173	6.15	0.91	253	16
1613	FM 1730 GLTP	0.84	1.01	20.1	6.17	1.19	173	4.92	0.96	137	12
1614	PHY 332 W3FE	0.84	1.02	22.8	7.35	1.23	189	6.24	0.94	199	13
1626	DP 2020 B3XF	0.85	1.03	21.1	6.47	1.23	180	5.39	0.95	201	10
1627	DP 2055 B3XF	0.80	1.00	25.0	8.20	1.23	180	6.34	0.93	224	11
1628	ARK 1408-53	0.89	1.06	18.9	5.22	1.26	178	4.74	0.95	146	8
1629	ARK 1405-18	0.92	1.08	16.8	4.70	1.28	180	5.15	0.94	163	8
	LSD	0.04	0.04	3.70	1.40	0.04	6.00	0.46	0.02	49	9

Location: Stoneville, MS

vcode	VARIETY	Lint	Seed	Boll			Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield	Lint	Seed	Size					
		(lb/a)	(lb/a)	Percent	Index	(g/boll)			Gossypol	Gossypol	Gossypol
1516	DP 1646B 2XF	1670	2108	44.2	9.3	4.9	3.57	17.1	0.70	0.73	1.43
1536	PHY 764 WRF	883	1330	39.9	12.4	5.1	3.89	19.5	0.63	0.48	1.11
1598	DP 2012 B3XF	1534	2092	42.3	9.8	4.9	3.98	17.6	0.99	0.62	1.61
1599	PHY 400 W3FE	1637	2058	44.3	9.6	4.5	3.83	20.9	0.83	0.56	1.34
1601	ST 4990 B3XF	1318	1888	41.2	10.8	5.1	3.60	14.6	0.88	0.48	1.36
1613	FM 1730 GLTP	1258	1844	40.5	10.9	5.1	4.04	14.7	0.52	0.41	0.92
1614	PHY 332 W3FE	1881	2457	43.4	10.8	5.2	3.39	17.6	0.86	0.66	1.51
1626	DP 2020 B3XF	1482	2115	41.2	10.0	4.8	4.04	16.8	1.02	0.60	1.62
1627	DP 2055 B3XF	1134	1407	44.6	8.6	4.4	3.79	18.0	0.66	0.55	1.20
1628	ARK 1408-53	1317	2118	38.3	12.3	5.7	3.62	19.1	0.69	0.59	1.28
1629	ARK 1405-18	1547	2370	39.5	12.4	5.9	3.99	18.8	0.90	0.70	1.59
	LSD	271	346	0.88	0.62	0.25	0.45	2.54	0.17	0.12	0.28

vcode	VARIETY	Micro	Maturity	Upper		Short	Elon	Hunters		
				Half	Mean					
		naire		Length	Uniformity	Fiber	gation	Plus b		
1516	DP 1646 B2XF	4.6	0.87	1.21	82.9	5.9	30.4	5.8	83.7	8.0
1536	PHY 764 WRF	4.3	0.88	1.21	85.4	4.7	39.3	5.2	80.0	8.6

1598	DP 2012 B3XF	4.5	0.88	1.19	83.2	5.6	32.4	4.4	82.0	8.6
1599	PHY 400 W3FE	4.3	0.88	1.22	84.0	5.3	34.3	4.9	82.0	7.5
1601	ST 4990 B3XF	4.8	0.89	1.21	83.9	5.8	32.0	5.2	83.5	7.6
1613	FM 1730 GLTP	4.3	0.88	1.23	85.4	3.8	35.8	4.6	81.0	6.8
1614	PHY 332 W3FE	4.7	0.88	1.24	84.8	4.8	32.8	5.4	81.9	8.7
1626	DP 2020 B3XF	4.3	0.88	1.23	84.4	5.0	31.7	4.4	80.4	8.2
1627	DP 2055 B3XF	4.5	0.88	1.27	84.1	3.9	32.1	5.6	81.8	7.9
1628	ARK 1408-53	4.9	0.89	1.25	83.8	4.6	35.7	4.7	80.1	7.4
1629	ARK 1405-18	4.7	0.89	1.29	85.5	3.2	36.0	5.6	82.5	8.1
	LSD	0.26	0.01	0.04	1.80	1.40	2.00	0.38	4.00	0.83

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Fiber	Fiber			Fiber			
		Number	Weight	Number	Weight	Weight		Content	ratio	Count	Count
1516	DP 1646 B2XF	0.86	1.09	25.3	8.04	1.34	168	6.63	0.90	195	6
1536	PHY 764 WRF	0.92	1.10	18.5	5.10	1.30	164	6.50	0.92	119	10
1598	DP 2012 B3XF	0.90	1.08	20.3	5.92	1.30	173	6.08	0.94	111	8
1599	PHY 400 W3FE	0.85	1.05	23.9	7.40	1.28	168	6.92	0.92	145	12
1601	ST 4990 B3XF	0.89	1.08	21.0	6.28	1.30	173	5.63	0.92	170	11
1613	FM 1730 GLTP	0.98	1.15	15.3	3.97	1.36	155	6.32	0.92	83	5
1614	PHY 332 W3FE	0.90	1.11	21.3	6.22	1.35	168	6.00	0.90	86	5
1626	DP 2020 B3XF	0.92	1.11	19.5	5.65	1.33	164	6.10	0.91	127	10
1627	DP 2055 B3XF	0.85	1.07	24.4	7.80	1.31	169	6.30	0.90	232	11
1628	ARK 1408-53	0.93	1.13	19.6	5.42	1.35	174	5.74	0.93	154	14
1629	ARK 1405-18	1.05	1.21	13.0	3.12	1.40	173	5.60	0.92	59	5
	LSD	0.07	0.06	4.20	1.90	0.05	7.80	0.62	0.02	96	7.80

Location: Jackson, TN

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size			Gossypol	Gossypol	Gossypol
		(lb/a)	(lb/a)	Percent	Index	(g/boll)					
1516	DP 1646 B2XF	1753	.	.	9.5	3.81	16.8	0.68	0.62	1.30	
1536	PHY 764 WRF	1134	.	.	11.8	4.02	20.1	0.67	0.52	1.18	

1598	DP 2012 B3XF	1689	.	.	9.6	3.84	20.3	0.94	0.57	1.51
1599	PHY 400 W3FE	1900	.	.	10.1	3.79	21.3	0.88	0.54	1.42
1601	ST 4990 B3XF	1711	.	.	10.3	3.36	15.7	0.96	0.52	1.48
1613	FM 1730 GLTP	1317	.	.	10.9	4.10	15.5	0.67	0.48	1.15
1614	PHY 332 W3FE	1568	.	.	10.9	3.32	19.4	0.88	0.63	1.51
1626	DP 2020 B3XF	1631	.	.	9.7	3.53	18.5	0.97	0.57	1.54
1627	DP 2055 B3XF	2039	.	.	8.7	3.55	16.2	0.72	0.54	1.26
1628	ARK 1408-53	1653	.	.	11.8	3.54	19.8	0.78	0.63	1.40
1629	ARK 1405-18	1573	.	.	11.6	3.75	21.5	0.94	0.71	1.65
	LSD	189			0.39	0.47	1.39	0.08	0.05	0.13

				Upper Half							
vcode	VARIETY	Micro naire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b	
1516	DP 1646 B2XF	4.9	0.88	1.27	84.5	4.4	31.1	6.4	81.8	7.9	
1536	PHY 764 WRF	4.6	0.88	1.21	85.7	4.8	39.2	5.6	80.1	8.4	
1598	DP 2012 B3XF	4.7	0.88	1.23	84.9	4.9	31.6	5.1	82.6	8.8	
1599	PHY 400 W3FE	4.7	0.88	1.18	84.0	5.7	32.5	5.3	80.7	8.0	
1601	ST 4990 B3XF	5.0	0.88	1.24	85.8	4.6	30.7	6.1	82.2	6.8	
1613	FM 1730 GLTP	4.8	0.89	1.28	85.1	3.7	34.9	5.0	83.2	7.1	
1614	PHY 332 W3FE	4.9	0.88	1.23	82.9	5.9	31.9	6.0	79.8	8.2	
1626	DP 2020 B3XF	4.8	0.89	1.27	85.4	4.4	32.2	5.2	81.4	7.7	
1627	DP 2055 B3XF	4.8	0.88	1.27	83.3	4.8	31.8	6.3	81.8	7.9	
1628	ARK 1408-53	4.9	0.89	1.27	84.8	4.4	33.5	5.4	81.6	7.9	
1629	ARK 1405-18	5.0	0.88	1.29	85.5	3.5	33.1	6.3	81.5	7.8	
	LSD	0.27	0.01	0.05	2.20	1.90	1.80	0.28	1.20	0.82	

				Short Fiber	Short Fiber			Immature			
vcode	VARIETY	Length Number	Length Weight	Content Number	Content Weight	UQL Weight	Fineness	Fiber Content	Maturity ratio	Nep Count	SCN Count
1516	DP 1646B2XF	0.96	1.14	16.5	4.59	1.37	168	6.4	0.89	115	4
1536	PHY 764WRF	0.96	1.12	14.5	3.92	1.31	169	6.07	0.92	91	12

1598	DP 2012 B3XF	0.99	1.14	13.7	3.64	1.33	177	5.57	0.93	85	3
1599	PHY 400 W3FE	0.93	1.10	17.2	5.00	1.31	174	5.69	0.93	99	6
1601	ST 4990 B3XF	0.97	1.13	15.8	4.27	1.32	177	5.53	0.92	127	13
1613	FM 1730 GLTP	0.99	1.15	14.9	3.82	1.36	172	5.10	0.95	90	9
1614	PHY 332 W3FE	0.88	1.07	21.3	6.50	1.31	177	6.04	0.91	106	4
1626	DP 2020 B3XF	0.97	1.13	15.4	4.25	1.34	173	5.64	0.92	110	5
1627	DP 2055 B3XF	0.97	1.14	15.6	4.45	1.37	174	6.07	0.91	92	8
1628	ARK 1408-53	0.96	1.14	16.8	4.39	1.35	175	5.14	0.94	91	5
1629	ARK 1405-18	1.02	1.17	12.8	3.37	1.36	178	5.57	0.93	88	7
	LSD	0.08	0.06	4.80	1.70	0.06	6.60	0.61	0.03	45	8.00

Location: Florence, SC

vcode	VARIETY	Lint*	Seed	Boll			Nitrogen	Oil	Plus	Minus	Free
		Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)					
1516	DP 1646 B2XF	.	.	.	.	.	3.42	15.8	0.86	0.63	1.49
1536	PHY 764 WRF	.	.	.	.	.	3.69	19.6	0.82	0.59	1.41
1598	DP 2012 B3XF	.	.	.	.	.	3.43	19.0	0.76	0.53	1.29
1599	PHY 400 W3FE	.	.	.	.	.	3.78	18.3	0.69	0.56	1.25
1601	ST 4990 B3XF	.	.	.	.	.	3.38	18.3	0.62	0.51	1.13
1613	FM 1730 GLTP	.	.	.	.	.	3.81	20.1	0.72	0.54	1.25
1614	PHY 332 W3FE	.	.	.	.	.	3.49	17.9	0.84	0.49	1.32
1626	DP 2020 B3XF	.	.	.	.	.	3.50	21.3	0.87	0.62	1.48
1627	DP 2055 B3XF	.	.	.	.	.	3.61	18.0	0.82	0.62	1.44
1628	ARK 1408-53	.	.	.	.	.	3.62	20.3	0.74	0.60	1.34
1629	ARK 1405-18	.	.	.	.	.	3.53	20.4	0.82	0.51	1.33
	LSD						0.54	5.65	0.29	0.20	0.45

* Yield data was not reported due to severe storm damage during the test.

vcode	VARIETY	Micro naire	Maturity	Upper	Uniformity	Short	Elon	Hunters		
				Mean Length					gation RD	Plus b
1516	DP 1646 B2XF	5.1	0.89	1.26	84.7	3.8	32.3	6.3	83.6	7
1536	PHY 764 WRF	5.1	0.89	1.24	84.4	4.0	34.2	5.9	83	8
1598	DP 2012 B3XF	4.6	0.88	1.21	83.5	4.7	36.2	5.4	80.1	8

1599	PHY 400 W3FE	4.9	0.89	1.25	84.3	3.9	37.1	4.9	80.6	7
1601	ST 4990 B3XF	5.1	0.89	1.23	84.6	4.7	34.2	5.8	80.6	7
1613	FM 1730 GLTP	4.6	0.88	1.23	84.4	4.2	37.9	5.7	80.7	8
1614	PHY 332 W3FE	5.0	0.89	1.21	85.0	4.5	34.3	5.7	83.3	7
1626	DP 2020 B3XF	5.1	0.89	1.23	84.7	4.4	33.8	5.7	81.2	7
1627	DP 2055 B3XF	5.0	0.89	1.21	82.5	4.8	33.8	5.6	81.2	8
1628	ARK 1408-53	5.1	0.89	1.21	82.9	5.3	32.8	6.1	81.5	8
1629	ARK 1405-18	5.0	0.89	1.17	83.5	5.3	34.3	5.3	82.9	8
	LSD	0.49	0.02	0.09	2.40	1.80	4.50	1.50	2.80	1.30

vcode	VARIETY	Length	Length	Short	Short	UQL	Fineness	Immature	Maturity	Nep	SCN
		Number	Weight	Content	Content			Fiber			
1516	DP 1646 B2XF	1.00	1.16	15.2	3.99	1.37	173	5.35	0.92	90	8
1536	PHY 764 WRF	0.98	1.15	15.6	4.25	1.37	171	5.60	0.92	70	3
1598	DP 2012 B3XF	0.91	1.09	18.3	5.20	1.29	164	6.70	0.9	98	8
1599	PHY 400 W3FE	0.91	1.09	18.5	5.13	1.29	173	5.42	0.94	107	11
1601	ST 4990 B3XF	0.92	1.11	18.9	5.30	1.33	173	5.52	0.92	92	9
1613	FM 1730 GLTP	0.92	1.09	17.7	4.90	1.28	172	6.02	0.92	100	9
1614	PHY 332 W3FE	0.93	1.11	17.4	4.84	1.31	174	5.40	0.92	95	4
1626	DP 2020 B3XF	0.98	1.15	15.9	4.13	1.35	178	5.45	0.93	90	9
1627	DP 2055 B3XF	0.83	1.02	23.0	7.40	1.22	174	5.50	0.92	112	4
1628	ARK 1408-53	0.95	1.13	18.2	5.34	1.36	172	6.00	0.91	86	4
1629	ARK 1405-18	0.88	1.04	19.3	5.90	1.24	181	4.73	0.95	102	9
	LSD	0.12	0.11	6.10	2.30	0.13	13	1.20	0.03	28	8.40

Location: Portageville, MO

vcode	VARIETY	Lint	Seed	Lint	Seed	Boll	Nitrogen	Oil	Plus	Minus	Free
		Yield	Yield			Size					
1516	DP 1646 B2XF	2229	3228	40.9	.	.	.	.	.	.	.
1536	PHY 764 WRF	1051	1763	37.4	.	.	.	.	.	.	.

1598	DP 2012 B3XF	2113	3373	38.5	.	.	.	.	.	.	.
1599	PHY 400 W3FE	1816	2471	42.4	.	.	.	.	.	.	.
1601	ST 4990 B3XF	2060	3534	36.8	.	.	.	.	.	.	.
1613	FM 1730 GLTP	1417	2325	37.9	.	.	.	.	.	.	.
1614	PHY 332 W3FE	1970	3154	38.4	.	.	.	.	.	.	.
1626	DP 2020 B3XF	2016	3142	39.1	.	.	.	.	.	.	.
1627	DP 2055 B3XF	1933	3335	36.7	.	.	.	.	.	.	.
1628	ARK 1408-53	1301	2235	36.8	.	.	.	.	.	.	.
	LSD	243	363	2.87							

						Upper						
						Half						
						Mean	Uniformity	Short	Elon		Hunters	
vcode	VARIETY	Micro	Maturity	Length	Index	Fiber	Strength	gation	RD	Plus b		
1516	DP 1646 B2XF	4.6	0.88	1.27	83.2	4.8	29.4	5.9	75.1	6.9		
1536	PHY 764 WRF	4.2	0.87	1.21	84.8	4.5	35.9	5.5	73.0	7.9		
1598	DP 2012 B3XF	4.2	0.87	1.19	83.2	5.9	31.4	4.8	73.6	7.1		
1599	PHY 400 W3FE	4.3	0.88	1.19	83.2	6.4	32.5	5.1	74.0	7.8		
1601	ST 4990 B3XF	4.9	0.88	1.21	83.4	5.6	29.9	5.8	75.1	6.8		
1613	FM 1730 GLTP	4.4	0.88	1.23	84.5	4.8	33.2	5.0	72.2	7.3		
1614	PHY 332 W3FE	4.4	0.88	1.21	83.9	5.6	32.8	5.2	72.9	8.4		
1626	DP 2020 B3XF	4.4	0.88	1.21	82.2	6.2	30.7	5.0	74.6	7.1		
1627	DP 2055 B3XF	4.5	0.87	1.25	82.9	4.9	30.2	6.1	73.6	7.3		
1628	ARK 1408-53	4.5	0.88	1.23	82.0	5.9	31.7	5.0	72.8	7.5		
1629	ARK 1405-18	4.7	0.88	1.25	84.7	4.4	32.0	5.7	73.7	7.3		
	LSD	0.51	0.01	0.04	2.20	1.60	2.30	0.57	3.90	0.64		

				Short	Short						
				Fiber	Fiber			Immature			
		Length	Length	Content	Content	UQL	Fiber		Maturity	Nep	SCN
vcode	VARIETY	Number	Weight	Number	Weight	Weight	Fineness	Content	ratio	Count	Count
1516	DP 1646 B2XF	0.88	1.10	22.0	6.75	1.35	168	6.48	0.89	158	13
1536	PHY 764 WRF	0.89	1.08	20.5	6.12	1.31	152	7.29	0.87	195	23
1598	DP 2012 B3XF	0.85	1.06	22.9	7.05	1.29	161	6.73	0.89	163	17

1599	PHY 400 W3FE	0.87	1.06	21.8	6.78	1.30	164	6.68	0.89	170	13
1601	ST 4990 B3XF	0.91	1.11	21.1	5.95	1.34	173	6.02	0.91	181	18
1613	FM 1730 GLTP	0.93	1.13	19.0	5.27	1.35	154	6.84	0.89	262	21
1614	PHY 332 W3FE	0.84	1.05	25.2	8.12	1.30	169	6.84	0.88	323	11
1626	DP 2020 B3XF	0.86	1.08	24.2	7.14	1.33	166	6.27	0.90	220	12
1627	DP 2055 B3XF	0.88	1.08	21.3	6.74	1.32	165	6.44	0.88	168	10
1628	ARK 1408-53	0.88	1.10	23.6	6.85	1.36	161	6.24	0.90	242	18
1629	ARK 1405-18	0.94	1.13	18.4	5.17	1.36	173	5.89	0.92	142	14
	LSD	0.05	0.04	4.00	1.40	0.05	7.60	0.66	0.02	111	9.40

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
1516	DP 1646 B2XF	1646	2177	43.1	.	5.57	3.74	17.9	.	.	.
1536	PHY 764 WRF	1797	2461	42.1	.	5.76	3.87	20.3	.	.	.
1598	DP 2012 B3XF	2642	3338	44.2	.	5.27	3.97	19.6	.	.	.
1599	PHY 400 W3FE	2016	2497	44.5	.	5.54	3.73	22.9	0.64	0.51	1.15
1601	ST 4990 B3XF	2336	3376	40.9	.	6.00	3.27	16.4	1.00	0.57	1.57
1613	FM 1730 GLTP	2457	3289	42.8	.	6.07	3.84	16.6	0.73	0.53	1.25
1614	PHY 332 W3FE	1713	2293	42.8	.	5.97	3.35	20.3	1.10	0.84	1.94
1626	DP 2020 B3XF	2536	3483	42.1	.	5.36	3.9	18.9	.	.	.
1627	DP 2055 B3XF	2105	2557	45.2	.	5.29	3.48	15.7	.	.	.
1628	ARK 1408-53	2188	3178	40.9	.	6.14	3.85	22.2	0.71	0.58	1.29
1629	ARK 1405-18	2045	2904	41.3	.	6.42	4.00	20.1	0.98	0.72	1.70
	LSD	400	482	1.74		0.88	0.27	2.89			

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon	RD	Hunters
				Mean Length				gation		Plus b
1516	DP 1646 B2XF	4.4	0.87	1.33	84.7	3.2	27.4	6.9	79.0	6.1
1536	PHY 764 WRF	4.0	0.86	1.24	84.1	5.1	32.5	5.8	77.6	6.8
1598	DP 2012 B3XF	4.4	0.87	1.24	84.7	5.0	28.0	5.7	79.5	6.0
1599	PHY 400 W3FE	4.2	0.87	1.24	84.4	5.3	30.1	5.9	78.3	6.9
1601	ST 4990 B3XF	4.6	0.87	1.25	84.1	4.9	26.7	6.5	81.3	5.6

1613	FM 1730G LTP	4.0	0.86	1.32	84.7	3.1	29.7	5.4	81.3	6.0
1614	PHY 332 W3FE	4.7	0.88	1.25	84.7	4.8	30.2	6.2	78.0	6.5
1626	DP 2020 B3XF	4.2	0.87	1.25	84.6	5.3	27.9	5.5	77.3	5.7
1627	DP 2055 B3XF	4.5	0.86	1.29	84.7	4.0	27.4	6.9	80.3	6.5
1628	ARK 1408-53	4.2	0.87	1.38	84.8	2.9	36.0	5.6	74.9	8.9
1629	ARK 1405-18	4.1	0.86	1.32	84.8	3.1	30.5	6.5	81.1	7.0
	LSD	0.40	0.01	0.08	2.10	1.40	6.30	0.37	4.90	3.00

vcode	VARIETY	Length Number	Length Weight	Short	Short	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	SCN Count
				Fiber Content Number	Fiber Content Weight						
1516	DP 1646 B2XF	0.91	1.11	20.3	6.32	1.37	167	7.00	0.86	135	5
1536	PHY 764 WRF	0.91	1.09	17.9	5.27	1.30	156	7.52	0.86	149	11
1598	DP 2012 B3XF	0.91	1.09	18.6	5.35	1.29	169	6.37	0.89	116	2
1599	PHY 400 W3FE	0.89	1.08	20.7	6.44	1.30	163	6.75	0.88	125	6
1601	ST 4990 B3XF	0.94	1.12	17.7	5.30	1.34	168	6.88	0.86	181	5
1613	FM 1730 GLTP	0.97	1.15	16.3	4.63	1.38	150	7.15	0.87	139	3
1614	PHY 332 W3FE	0.85	1.06	24.1	7.67	1.31	173	6.65	0.88	137	7
1626	DP 2020 B3XF	0.91	1.11	20.1	5.82	1.34	165	6.59	0.88	133	6
1627	DP 2055 B3XF	0.86	1.07	23.7	7.75	1.34	164	7.24	0.86	204	8
1628	ARK 1408-53	1.01	1.22	16.5	4.04	1.47	156	6.52	0.90	136	10
1629	ARK 1405-18	0.94	1.13	18.5	5.63	1.38	165	6.65	0.88	137	3
	LSD	0.07	0.06	4.50	1.70	0.05	12	0.70	0.03	52	6.60

Location: Keiser, AR

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)					
1516	DP 1646 B2XF	1335	1768	43.0	9.3	5.5	4.08	15.3	0.74	0.52	1.25
1536	PHY 764 WRF	985	1422	41.4	10.1	5.1	4.43	19.3	0.61	0.46	1.07
1598	DP 2012 B3XF	1406	1733	43.6	8.7	4.3	4.52	19.3	0.82	0.46	1.27
1599	PHY 400 W3FE	1210	1659	43.4	8.8	5.0	4.45	17.5	0.72	0.44	1.15

1601	ST 4990 B3XF	1202	1653	41.2	9.5	4.6	4.18	17.7	0.78	0.46	1.24
1613	FM 1730 GLTP	1144	1757	41.0	9.4	5.2	4.47	16.8	0.72	0.41	1.13
1614	PHY 332 W3FE	1319	1555	43.2	9.0	4.6	4.05	18.8	0.81	0.52	1.33
1626	DP 2020 B3XF	1309	2010	40.2	10.2	5.8	4.44	18.4	0.79	0.52	1.31
1627	DP 2055 B3XF	1358	1670	46.3	7.5	4.6	4.06	16.3	0.62	0.44	1.05
1628	ARK 1408-53	1538	2204	42.6	9.4	5.0	4.25	17.6	0.63	0.51	1.14
1629	ARK 1405-18	1303	1742	40.8	9.6	4.6	4.39	19.0	0.79	0.49	1.28
	LSD	198	471	3.30	2.20	1.60	0.41	4.10	0.26	0.18	0.37

vcode	VARIETY	Micro naire	Maturity	Upper Half	Uniformity Index	Short Fiber	Strength	Elon gation	RD	Hunters Plus b
				Mean Length						
1516	DP 1646 B2XF	4.7	0.88	1.18	82.4	7.0	28.2	5.6	82.0	7.3
1536	PHY 764 WRF	4.5	0.88	1.22	84.1	5.1	35.8	4.9	81.3	8.6
1598	DP 2012 B3XF	4.1	0.87	1.19	84.5	5.6	30.5	4.8	82.7	8.7
1599	PHY 400 W3FE	4.2	0.87	1.17	83.4	5.3	31.5	4.8	82.2	8.0
1601	ST 4990 B3XF	4.5	0.88	1.18	85.4	4.5	34.6	5.4	81.2	7.9
1613	FM 1730 GLTP	4.3	0.88	1.21	84.7	5.0	34.8	4.5	82.0	8.4
1614	PHY 332 W3FE	4.1	0.86	1.18	82.5	6.5	29.0	5.1	81.7	8.6
1626	DP 2020 B3XF	4.4	0.88	1.22	83.2	6.2	31.4	5.2	82.3	8.4
1627	DP 2055 B3XF	4.6	0.88	1.21	82.8	6.6	29.5	5.8	83.2	8.6
1628	ARK 1408-53	4.4	0.87	1.23	83.1	5.6	31.4	5.4	82.8	8.2
1629	ARK 1405-18	4.5	0.88	1.21	84.3	4.9	33.6	5.0	81.6	8.7
	LSD	0.42	0.02	0.09	1.80	2.00	5.40	1.50	3.10	1.40

vcode	VARIETY	Length Number	Length Weight	Short Fiber	Short Fiber	UQL Weight	Fineness	Immature Fiber Content	Maturity ratio	Nep Count	SCN Count
				Content Number	Content Weight						
1516	DP 1646 B2XF	0.85	1.04	21.7	7.09	1.26	169	6.09	0.89	181	15
1536	PHY 764 WRF	0.96	1.10	13.6	3.85	1.28	169	5.89	0.92	94	10
1598	DP 2012 B3XF	0.87	1.04	20.2	6.33	1.23	165	6.34	0.90	108	10
1599	PHY 400 W3FE	0.88	1.05	17.9	5.57	1.25	161	6.34	0.91	103	8

1601	ST 4990 B3XF	0.94	1.10	16.0	4.73	1.29	169	6.37	0.92	104	17
1613	FM 1730 GLTP	0.96	1.11	14.7	4.07	1.30	168	5.50	0.94	72	7
1614	PHY 332 W3FE	0.83	1.02	23.0	7.55	1.24	159	6.85	0.88	115	5
1626	DP 2020 B3XF	0.92	1.09	18.0	5.39	1.30	161	6.35	0.90	115	9
1627	DP 2055 B3XF	0.86	1.03	20.2	6.65	1.25	165	6.30	0.90	119	7
1628	ARK 1408-53	0.87	1.06	20.9	6.69	1.29	168	6.20	0.91	158	9
1629	ARK 1405-18	0.92	1.09	16.9	4.95	1.29	173	5.75	0.92	84	7
	LSD	0.09	0.07	5.90	2.30	0.07	17	0.99	0.05	57	7.10



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