2019 National Cotton Variety Test

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National Cotton Variety Tests, 2019
Yield, Boll, Seed, Spinning and Data

Program Headquarters are 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 Alabama, Arkansas, Arizona, California, Georgia, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, and Texas.

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National Cotton Variety Tests, 2019.

Yield, Boll, Seed, Spinning, and Fiber Data.

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DP 1646B2XF -- DELTA AND PINE LAND COMPANY;

NG 4545B2XF -- AMERICOT, INC; AND

PHY 499WRF AND PHYTOGEN 764WRF -- PHYTOGEN SEED COMPANY

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National Cotton Variety Test Archive File

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

Cottonseed Quality Archive File	1977 - 2018
Yield Archive File	1960 - 2018
Fiber Quality Archive File	1960 - 2018
Pima Combed Yarn Archive File	1962 - 2018

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

Excel Files:
- Yield Data File 1960-2018
- Fiber Quality Data File 1967-2018
- Cottonseed Quality Data File 1998-2018

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 nineteenth 3-year testing cycle, beginning in 2017, the national standards were PHY 499WRF, PHY 764WRF, DP 1646B2XF, and NG 4545B2XF. Within each region, cooperators annually select a group of regional standard varieties that are 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. Data on the national, regional, and interregional standards were included in this report. 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.

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)

University of Georgia	
Extension Center	Griffin, GA
Clemson University	
Pee Dee Experiment Station	Florence, SC
NC State University	
Extension Center	Rocky Mount, NC
Mississippi State University	
Extension Center	Starkville, MS
Auburn University	
Extension Center	Belle Mina, AL
Virginia Tech University	
Extension Center	Suffolk, VA

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station	
Northeast Research & Extension Center	Keiser, AR
Louisiana Agricultural Experiment Station	
Northeast Louisiana Experiment Station	St. Joseph, LA
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 Chickasha, OK
Dryland Test Chickasha, OK
Irrigation Experiment Station Altus, OK
Southwest Agronomy Research Station
Dryland Test Tipton, 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)
New Mexico Agricultural Experiment Station
Main Station Las Cruces, NM
Southeastern Branch Station Artesia, NM
Texas A&M University
Agricultural Research Center Pecos, TX

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
Louisiana Agricultural Experiment Station	
Red River Valley Experiment Station	St. Joseph, LA
Mississippi Agricultural & Forestry Experiment Station	
Delta Branch	Stoneville, MS
Texas A&M University	
Texas Agricultual Experiment Station	College Station, TX
Agricultural Research and Extension Center	Lubbock, TX
Experiment Station and Extension Center	
University of Tennessee	Jackson, TN
New Mexico Agricultural Experiment Station	Las Cruces, NM

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station	
Safford Research Center	Maricopa, AZ
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:

(LINT YIELD/ACRE) X ((100-LINT%) / 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 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 2019

VCODE	VARIETY	VCODE	VARIETY
1404	PHY 499WRF	1567	TAM 13Q-18
1441	FM 2484B2F	1569	PHY 440W3FE
1497	PHY 312WRF	1575	DP1840B3XF
1503	FM 1830GLT	1578	ST 5471GLTP
1513	DP 348RF	1579	DP 341RF
1516	DP 1646B2XF	1580	LA 14063083
1519	FM 1911GLT	1581	LA 14063075
1532	PHY 881RF	1582	ARK 1112-49
1533	DP 1612B2XF	1583	ARK 1110-11
1534	PHY 300W3FE	1584	ARK 1110-49
1535	NG 4545B2XF	1585	NM 18B1587
1536	PHY 764WRF	1586	NM 18B1589
1537	DP 1522B2XF	1587	NM 18B1593
1551	DG 3385B2XF	1588	TAM 14H-29
1552	NG 4601B2XF	1589	PHY 350W3FE
1553	Acala Daytona RF	1590	CROPLAN 9608B3XF
1554	DP 1549B2XF	1591	DP 1725B2XF
1555	PHY 888RF	1592	DG 3520B3XF
1556	FM 2574GLT	1593	ST 4550GLTP
1557	ST 5020GLT	1594	DP 1851B3XF
1558	DP 1845B3XF	1595	NG 4936B3XF
1559	DP 1820B3XF	1596	NG 5711B3XF
		1597	DP 359RF

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

PLAINS

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

Overall Summaries For Plains By Varieties
Combining All Sub Regions-Plains

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1002	1325	41.5	8.3	4.31	3.57	16.44	0.59	0.39	0.98
1516	DP 1646B2XF	970	1609	38.9	8.9	4.58	3.56	14.47	0.50	0.36	0.86
1519	FM 1911GLT	997	1487	38.7	9.8	4.62	3.30	17.79	0.61	0.48	1.08
1533	DP 1612B2XF	1048	1621	38.4	9.9	4.79	3.24	18.48	0.68	0.53	1.20
1534	PHY 300W3FE	1258	1487	41.4	7.8	4.37	3.37	16.52	0.58	0.41	0.99
1535	NG 4545B2XF	1041	1235	39.3	9.0	4.45	3.60	17.06	0.51	0.44	0.95
1536	PHY 764WRF	825	773	37.7	9.3	3.92	3.80	18.11	0.55	0.39	0.94

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.49	0.85	1.10	83.1	8.9	32.9	8.28	75.0	8.9	.	.
1516	DP 1646B2XF	4.58	0.86	1.13	81.8	9.8	30.7	7.99	76.5	8.3	.	.
1519	FM 1911GLT	4.15	0.85	1.13	82.2	9.8	31.5	6.41	77.1	8.2	.	.
1533	DP 1612B2XF	4.36	0.85	1.12	82.9	8.9	32.4	8.05	74.3	9.1	.	.
1534	PHY 300W3FE	4.42	0.86	1.08	81.4	11.1	30.2	6.84	75.3	9.2	.	.
1535	NG 4545B2XF	4.57	0.86	1.10	82.2	9.8	29.8	5.92	76.3	8.9	.	.
1536	PHY 764WRF	3.89	0.85	1.14	83.3	8.9	35.6	6.9	75.2	8.9	.	.

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
1404	PHY 499WRF	0.74	0.93	29.2	10.0	1.12	178.5	6.1	0.93	205	.
1516	DP 1646B2XF	0.73	0.94	30.4	11.0	1.15	173.3	6.5	0.92	191	.
1519	FM 1911GLT	0.76	0.95	27.8	9.7	1.15	166.0	5.2	0.94	260	.
1533	DP 1612B2XF	0.74	0.93	28.6	9.8	1.12	168.7	5.8	0.92	243	.
1534	PHY 300W3FE	0.74	0.91	27.4	9.8	1.09	175.5	5.2	0.93	247	.
1535	NG 4545B2XF	0.76	0.94	26.5	9.1	1.13	181.8	4.9	0.96	176	.
1536	PHY 764WRF	0.78	0.97	25.5	8.7	1.17	166.5	5.2	0.94	229	.

Plains Sub Region 11 Only

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
1404	PHY 499WRF	780	1114	40.3	7.8	4.36	3.57	16.44	0.59	0.39	0.98
1516	DP 1646B2XF	780	1296	38.2	8.5	4.78	3.56	14.47	0.50	0.36	0.86
1519	FM 1911GLT	901	1445	37.0	8.6	4.34	3.23	17.31	0.58	0.46	1.04
1533	DP 1612B2XF	936	1448	37.1	10.1	5.10	3.31	18.45	0.68	0.52	1.20
1534	PHY 300W3FE	1004	1338	39.9	7.7	4.41	3.23	16.20	0.58	0.43	1.01
1535	NG 4545B2XF	953	1415	38.5	8.5	4.31	3.60	17.06	0.51	0.44	0.95
1536	PHY 764WRF	781	1160	37.3	8.6	3.96	3.80	18.11	0.55	0.39	0.94
	LSD	309	655	2.7	1.3	0.79	0.40	0.53	0.18	0.15	0.30

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.57	0.85	1.07	82.4	.	31.8	8.5	74.7	.	.	.
1516	DP 1646B2XF	4.48	0.85	1.11	80.5	.	28.6	8.2	78.0	.	.	.
1519	FM 1911GLT	3.90	0.84	1.09	80.9	.	29.9	6.8	77.4	.	.	.
1533	DP 1612B2XF	4.31	0.85	1.09	81.9	.	31.3	8.2	75.2	.	.	.
1534	PHY 300W3FE	4.33	0.85	1.05	80.2	.	28.5	7.1	75.3	.	.	.
1535	NG 4545B2XF	4.49	0.86	1.07	80.9	.	27.6	6.2	76.1	.	.	.
1536	PHY 764WRF	3.98	0.85	1.09	81.7	.	33.0	7.1	75.5	.	.	.
	LSD	0.43	0.01	0.08	2.7	.	4.1	0.7	2.3	1.5	.	.

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
1404	PHY 499WRF	0.71	0.90	30.8	11.0	1.10	175.3	6.6	0.90	222	11
1516	DP 1646B2XF	0.70	0.90	34.0	13.0	1.13	167.0	7.5	0.88	224	11
1519	FM 1911GLT	0.71	0.91	30.9	11.4	1.12	160.3	5.7	0.91	319	12
1533	DP 1612B2XF	0.70	0.90	30.8	11.0	1.09	167.8	5.9	0.92	280	14
1534	PHY 300W3FE	0.70	0.87	30.0	11.4	1.05	174.0	5.3	0.93	304	16

1535	NG 4545B2XF	0.71	0.90	29.5	10.8	1.09	177.3	5.6	0.94	219	13
1536	PHY 764WRF	0.73	0.92	28.1	10.2	1.11	167.0	5.3	0.93	249	17
	LSD	0.09	0.09	6.2	3.5	0.09	9.7	1.3	0.05	93	9

Plains Sub Region 12 Only

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
1404	PHY 499WRF	1448	1746	43.8	9.5	4.20	.	.	.	.	.
1516	DP 1646B2XF	1350	2235	40.3	9.6	4.16	.	.	.	.	.
1519	FM 1911GLT	1190	1569	42.0	12.2	5.19	3.36	18.27	0.64	0.49	1.13
1533	DP 1612B2XF	1273	1965	41.0	9.5	4.18	3.16	18.51	0.67	0.54	1.21
1534	PHY 300W3FE	1765	1787	44.4	8.2	4.29	3.51	16.84	0.58	0.40	0.98
1535	NG 4545B2XF	1278	874	40.9	10.1	4.75	.	.	.	.	.
1536	PHY 764WRF	1004	0	38.3	10.8	3.84	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.33	0.85	1.15	84.4	.	35.2	7.8	75.5	.	.	.
1516	DP 1646B2XF	4.78	0.87	1.17	84.3	.	34.9	7.6	73.5	.	.	.
1519	FM 1911GLT	4.64	0.87	1.20	85.0	.	34.6	5.7	76.7	.	.	.
1533	DP 1612B2XF	4.47	0.85	1.18	84.8	.	34.6	7.7	72.7	.	.	.
1534	PHY 300W3FE	4.60	0.86	1.14	83.7	.	33.6	6.4	75.4	.	.	.
1535	NG 4545B2XF	4.73	0.87	1.17	84.9	.	34.2	5.5	76.7	.	.	.
1536	PHY 764WRF	3.71	0.85	1.26	86.4	.	40.9	6.5	74.5	.	.	.

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
1404	PHY 499WRF	0.79	0.99	26.0	8.0	1.17	185.0	5.1	0.98	172	28
1516	DP 1646B2XF	0.81	1.00	23.3	6.8	1.19	186.0	4.5	1.01	124	25
1519	FM 1911GLT	0.84	1.03	21.5	6.5	1.22	177.5	4.1	0.99	143	19
1533	DP 1612B2XF	0.80	0.99	24.1	7.4	1.19	170.5	5.6	0.93	170	23

1534	PHY 300W3FE	0.82	1.00	22.2	6.7	1.18	178.5	5.1	0.94	135	16
1535	NG 4545B2XF	0.86	1.03	20.3	5.9	1.21	191.0	3.5	1.02	90	16
1536	PHY 764WRF	0.89	1.08	20.4	5.7	1.28	165.5	4.9	0.97	187	31

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	1156	1666	39.3	9.0	5.08	3.34	17.04	0.62	0.47	1.09
Chillicothe, TX	1358	1454	41.5	10.0	4.37	3.34	17.88	0.63	0.48	1.10
Lamesa, TX	596	968	37.4	8.0	3.85	3.88	16.21	0.44	0.33	0.76

Location	Micro naire	Maturity	Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste
Lubbock, TX	4.48	0.85	1.12	82.2	9.2	31.9	7.8	77.4	8.5	.
Chillicothe, TX	4.47	0.86	1.18	84.8	7.3	35.4	6.7	75.0	7.6	.
Lamesa, TX	4.10	0.85	1.04	80.2	12.4	28.3	7.0	74.7	10.2	.

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
Lubbock, TX	0.74	0.93	28.4	9.8	1.13	172.6	5.8	0.92	222	12
Chillicothe, TX	0.83	1.02	22.5	6.7	1.21	179.1	4.7	0.98	146	22
Lamesa, TX	0.68	0.86	32.8	12.7	1.06	166.9	6.1	0.91	297	15

Plains Region Individual Location Summaries

Location: Chillicothe,TX

	Lint Yield	Seed Yield	Lint	Seed	Boll Size			Plus	Minus	Free

vcode	Variety	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1516	DP 1646B2XF	1350	2235	40.3	9.6	4.16	.	.	.	.	.
1519	FM 1911GLT	1190	1569	42.0	12.2	5.19	3.36	18.27	0.64	0.49	1.13
1533	DP 1612B2XF	1273	1965	41.0	9.5	4.18	3.16	18.51	0.67	0.54	1.21
1534	PHY 300W3FE	1765	1787	44.4	8.2	4.29	3.51	16.84	0.58	0.40	0.98
1535	NG 4545B2XF	1278	874	40.9	10.1	4.75	.	.	.	.	.
1536	PHY 764WRF	1004	0	38.3	10.8	3.84	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.33	0.85	1.15	84.4	7.8	35.2	7.8	75.5	7.5	.	.
1516	DP 1646B2XF	4.78	0.87	1.17	84.3	7.3	34.9	7.6	73.5	7.6	.	.
1519	FM 1911GLT	4.64	0.87	1.20	85.0	7.0	34.6	5.7	76.7	6.7	.	.
1533	DP 1612B2XF	4.47	0.85	1.18	84.8	7.2	34.6	7.7	72.7	7.7	.	.
1534	PHY 300W3FE	4.60	0.86	1.14	83.7	7.9	33.6	6.4	75.4	8.4	.	.
1535	NG 4545B2XF	4.73	0.87	1.17	84.9	7.4	34.2	5.5	76.7	8.1	.	.
1536	PHY 764WRF	3.71	0.85	1.26	86.4	6.3	40.9	6.5	74.5	7.5	.	.
	LSD	0.91	0.025	0.049	1.72	0.97	2.27	0.61	3.02	0.704	.	.

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
1404	PHY 499WRF	0.79	0.99	26.0	8.0	1.17	185.0	5.1	0.98	172	.
1516	DP 1646B2XF	0.81	1.00	23.3	6.8	1.19	186.0	4.5	1.01	124	.
1519	FM 1911GLT	0.84	1.03	21.5	6.5	1.22	177.5	4.1	0.99	143	.
1533	DP 1612B2XF	0.80	0.99	24.1	7.4	1.19	170.5	5.6	0.93	170	.
1534	PHY 300W3FE	0.82	1.00	22.2	6.7	1.18	178.5	5.1	0.94	135	.
1535	NG 4545B2XF	0.86	1.03	20.3	5.9	1.21	191.0	3.5	1.02	90	.
1536	PHY 764WRF	0.89	1.08	20.4	5.7	1.28	165.5	4.9	0.97	187	.
	LSD	0.05	0.057	5.64	1.9	0.074	18.4	2.14	0.05	106	20.2

Location: **Lamesa,TX**

		Lint Yield	Seed Yield	Lint	Seed	Boll Size			Plus	Minus	Free

vcode	Variety	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1404	PHY 499WRF	541	795	40.2	7.1	3.80	3.69	15.65	0.43	0.26	0.69
1516	DP 1646B2XF	612	1088	36.4	7.9	4.08	3.97	15.25	0.43	0.30	0.73
1519	FM 1911GLT	646	1107	35.7	8.2	4.07	.	.	.	.	.
1533	DP 1612B2XF	479	824	36.2	9.9	4.44	.	.	.	.	.
1534	PHY 300W3FE	772	1141	39.1	7.0	3.91	.	.	.	.	.
1535	NG 4545B2XF	691	1132	38.3	8.0	3.55	3.90	16.94	0.44	0.38	0.82
1536	PHY 764WRF	430	686	35.9	8.4	3.12	3.94	16.99	0.47	0.36	0.83
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.51	0.85	1.03	82.2	9.9	30.7	8.1	73.9	10.3	.	.
1516	DP 1646B2XF	4.51	0.86	1.05	78.5	13.6	26.6	7.5	77.2	9.5	.	.
1519	FM 1911GLT	3.56	0.84	1.05	79.4	13.3	27.8	6.4	76.2	10.1	.	.
1533	DP 1612B2XF	4.10	0.85	1.07	81.1	10.7	30.5	7.7	72.9	10.7	.	.
1534	PHY 300W3FE	4.29	0.85	1.00	79.1	15.1	25.5	6.8	73.8	10.6	.	.
1535	NG 4545B2XF	4.23	0.86	1.02	80.0	12.4	24.3	5.8	74.0	10.3	.	.
1536	PHY 764WRF	3.54	0.84	1.05	81.1	11.6	32.6	6.8	74.6	10.2	.	.
	LSD	0.565	0.019	0.063	2.55	4.12	2.16	1.03	1.65	0.6	.	.

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
1404	PHY 499WRF	0.69	0.88	32.1	11.9	1.08	174.0	6.0	0.92	240	.
1516	DP 1646B2XF	0.64	0.84	38.7	16.0	1.06	168.0	7.3	0.88	266	.
1519	FM 1911GLT	0.68	0.88	33.7	13.0	1.08	153.0	6.2	0.90	368	.
1533	DP 1612B2XF	0.69	0.88	31.1	11.5	1.07	167.5	5.8	0.92	323	.
1534	PHY 300W3FE	0.67	0.84	32.1	12.7	1.02	172.5	5.4	0.92	322	.
1535	NG 4545B2XF	0.68	0.86	31.7	12.1	1.04	173.0	6.6	0.92	246	.
1536	PHY 764WRF	0.70	0.89	30.2	11.6	1.08	160.5	5.6	0.91	314	.
	LSD	0.075	0.075	8.07	4.69	0.087	9.69	1.29	0.041	99.4	9.54

Location: **Lubbock, TX**

		Lint Yield	Seed Yield	Lint	Seed	Boll Size			Plus	Minus	Free

vcode	Variety	(lb/a)	(lb/a)	Percent	Index	(g/boll)	Nitrogen	Oil	Gossypol	Gossypol	Gossypol
1404	PHY 499WRF	1019	1433	40.5	8.5	4.92	3.45	17.23	0.76	0.52	1.27
1516	DP 1646B2XF	947	1503	40.0	9.1	5.48	3.15	13.69	0.57	0.42	0.99
1519	FM 1911GLT	1155	1783	38.3	9.1	4.60	3.23	17.31	0.58	0.46	1.04
1533	DP 1612B2XF	1393	2072	38.1	10.3	5.76	3.31	18.45	0.68	0.52	1.20
1534	PHY 300W3FE	1236	1534	40.7	8.4	4.91	3.23	16.20	0.58	0.43	1.01
1535	NG 4545B2XF	1215	1698	38.7	9.0	5.06	3.31	17.17	0.58	0.51	1.09
1536	PHY 764WRF	1131	1634	38.7	8.9	4.80	3.67	19.24	0.63	0.42	1.05
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.63	0.85	1.11	82.6	9.0	32.9	9.0	75.6	8.8	.	.
1516	DP 1646B2XF	4.44	0.85	1.17	82.5	8.6	30.6	8.8	78.9	8.0	.	.
1519	FM 1911GLT	4.24	0.85	1.14	82.4	9.0	31.9	7.1	78.6	7.9	.	.
1533	DP 1612B2XF	4.52	0.85	1.12	82.7	8.7	32.0	8.7	77.4	8.9	.	.
1534	PHY 300W3FE	4.37	0.86	1.11	81.4	10.4	31.4	7.3	76.7	8.6	.	.
1535	NG 4545B2XF	4.76	0.87	1.11	81.8	9.7	30.9	6.5	78.3	8.5	.	.
1536	PHY 764WRF	4.43	0.86	1.12	82.4	9.0	33.5	7.4	76.5	9.0	.	.
	LSD	0.428	0.018	0.039	1.98	1.88	3.18	1.04	3.66	0.789	.	.

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
1404	PHY 499WRF	0.73	0.92	29.5	10.2	1.12	176.5	7.1	0.89	204	.
1516	DP 1646B2XF	0.76	0.97	29.3	10.0	1.19	166.0	7.6	0.89	183	.
1519	FM 1911GLT	0.75	0.94	28.1	9.7	1.15	167.5	5.3	0.93	271	.
1533	DP 1612B2XF	0.72	0.92	30.6	10.6	1.12	168.0	6.0	0.92	238	.
1534	PHY 300W3FE	0.72	0.90	27.9	10.0	1.08	175.5	5.2	0.94	285	.
1535	NG 4545B2XF	0.75	0.94	27.3	9.4	1.13	181.5	4.6	0.96	192	.
1536	PHY 764WRF	0.77	0.95	26.0	8.9	1.15	173.5	5.0	0.94	185	.
	LSD	0.079	0.07	6.34	3.12	0.089	9.31	1.47	0.038	70.5	6.62

2019 National Cotton Variety Test

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EASTERN REGION

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

Regional Summaries For Eastern Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1625	2061	45.1	9.1	5.20	3.27	19.93	0.76	0.53	1.29
1516	DP 1646B2XF	1721	2115	45.9	8.0	4.82	3.32	17.30	0.64	0.54	1.18
1569	PHY 480W3FE	1598	1968	45.3	9.4	5.10	3.35	19.74	0.76	0.56	1.32
1575	DP1840B3XF	1668	2239	43.9	8.6	4.87	.	.	.	.	.
1578	ST 5471GLTP	1600	2173	43.5	10.5	5.75	.	.	.	.	.
1589	PHY 350W3FE	1669	2214	44.0	9.8	5.06	3.07	19.51	0.76	0.56	1.32
1593	ST 4550GLTP	1748	2033	47.0	8.6	5.49	.	.	.	.	.
1594	DP 1851B3XF	1671	2102	45.7	9.0	5.42	.	.	.	.	.
1595	NG 4936B3XF	1604	2226	43.2	9.1	5.27	.	.	.	.	.
1596	NG 5711B3XF	1544	1996	44.6	8.6	4.93	.	.	.	.	.
	LSD	309	654	1.7	0.5	0.37	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	5.09	0.87	1.14	86.10	.	33.0	8.4	72.3	.	.	.
1516	DP 1646B2XF	4.93	0.86	1.22	84.80	.	30.0	8.2	75.9	.	.	.
1569	PHY 480W3FE	4.69	0.85	1.14	85.30	.	31.3	8.8	73.5	.	.	.
1575	DP1840B3XF	4.78	0.87	1.20	84.50	.	32.2	7.4	75.4	.	.	.
1578	ST 5471GLTP	4.83	0.87	1.14	84.20	.	32.4	6.7	75.5	.	.	.
1589	PHY 350W3FE	4.98	0.87	1.18	86.00	.	32.9	7.4	73.4	.	.	.
1593	ST 4550GLTP	4.87	0.86	1.15	85.00	.	33.3	7.9	73.7	.	.	.
1594	DP 1851B3XF	4.83	0.86	1.18	84.90	.	33.8	8.6	74.3	.	.	.
1595	NG 4936B3XF	4.73	0.86	1.19	85.50	.	30.8	8.0	74.8	.	.	.
1596	NG 5711B3XF	4.69	0.86	1.19	84.20	.	32.1	7.6	76.2	.	.	.
	LSD	0.23	0.01	0.04	1.45	0.87	1.6	0.56	5.25	0.5	.	.

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
1404	PHY 499WRF	0.83	1.00	21.2	6.3	1.16	182.3	5.0	0.95	77	15
1516	DP 1646B2XF	0.85	1.05	22.4	6.7	1.25	178.3	5.7	0.93	77	10
1569	PHY 480W3FE	0.83	1.01	20.7	6.2	1.18	180.3	5.5	0.94	75	9
1575	DP1840B3XF	0.86	1.05	20.9	6.2	1.24	181.3	5.4	0.94	84	7
1578	ST 5471GLTP	0.81	0.98	22.5	7.1	1.17	183.6	4.8	0.96	81	10
1589	PHY 350W3FE	0.84	1.02	21.6	6.4	1.20	184.3	5.2	0.95	77	11

1593	ST 4550GLTP	0.84	1.00	19.5	5.9	1.17	182.0	4.8	0.96	79	10
1594	DP 1851B3XF	0.83	1.01	22.2	6.7	1.20	182.3	4.9	0.95	74	11
1595	NG 4936B3XF	0.84	1.03	22.9	6.8	1.22	179.1	5.2	0.95	107	15
1596	NG 5711B3XF	0.85	1.03	21.1	6.4	1.22	184.3	5.2	0.95	99	11
	LSD	.	.	.	.	.	.	.	.	.	.

Eastern 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
Florence, SC	1628	1928	45.8	.	.	3.48	17.85	0.71	0.52	1.23
Rocky Mount, NC	1466	1574	48.2	8.5	4.97	3.60	19.86	0.69	0.50	1.19
Starkville, MS	1161	1546	42.9	9.6	5.30	.	.	.	.	.
Belle Mina, AL	1852	2580	41.8	9.4	5.09	3.10	18.03	0.71	0.51	1.22
Griffin, GA	1660	.	.	.	.	3.13	18.71	0.74	0.55	1.28
Suffolk, VA	2109	2654	44.3	.	5.74	2.87	21.09	0.81	0.65	1.47

Location	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Florence, SC	4.67	0.85	1.16	84.6	.	31.2	8.6	68.2	.	.	.
Rocky Mount, NC	4.92	0.86	1.16	84.9	.	32.5	7.8	80.6	.	.	.
Starkville, MS	4.94	0.87	1.20	85.6	.	32.9	.	74.7	.	.	.
Belle Mina, AL	.	.	.	.	.	.	.	.	.	.	.
Griffin, GA	.	.	.	.	.	.	.	.	.	.	.
Suffolk, VA	.	.	.	.	.	.	.	.	.	.	.

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	0.80	1.00	24.4	7.6	1.19	173.8	6.0	0.91	100	15
Rocky Mount, NC	0.86	1.02	19.3	5.7	1.20	191.3	3.8	1.01	74	10
Starkville, MS	0.88	1.05	18.9	5.7	1.23	186.0	5.2	0.95	61	5
Belle Mina, AL	.	.	.	.	.	.	.	.	.	.
Griffin, GA	0.81	1.00	23.8	7.0	1.19	175.3	5.7	0.92	99	13
Suffolk, VA	.	.	.	.	.	.	.	.	.	.

Eastern Region Individual Location Summaries

Location: Belle Mina, AL

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
1404	PHY 499WRF	1743	2368	42.3	9.8	5.33	3.13	19.73	0.74	0.49	1.23
1516	DP 1646 B2XF	1916	2476	43.7	8.3	4.86	3.10	17.06	0.69	0.52	1.21
1569	PHY 480W3FE	1797	2413	42.7	9.9	4.89	3.01	18.82	0.77	0.54	1.31
1575	DP 1840B3XF	1890	2820	40.3	8.9	4.78	.	.	.	.	.
1578	ST 5471GLTP	1841	2614	41.3	10.7	5.78	.	.	.	.	.
1589	PHY 350W3FE	1845	2711	40.5	10.4	4.86	3.17	17.37	0.65	0.50	1.15
1593	DG 3520B3XF	1871	2367	44.2	8.9	5.33	.	.	.	.	.
1594	ST 4550GLTP	1986	2615	43.0	9.2	5.15	.	.	.	.	.
1595	DP 1851B3XF	1818	2819	39.2	9.5	5.23	.	.	.	.	.
1596	NG 4936B3XF	1810	2591	41.2	8.7	4.67	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	.	.	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.	.
1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.	.
1575	DP 1840B3XF	.	.	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	.	.	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	.	.	.	.	.	.	.	.	.	.	.
1593	DG 3520B3XF	.	.	.	.	.	.	.	.	.	.	.
1594	ST 4550GLTP	.	.	.	.	.	.	.	.	.	.	.
1595	DP 1851B3XF	.	.	.	.	.	.	.	.	.	.	.
1596	NG 4936B3XF	.	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

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 Count	Seed Coat Number Count
1404	PHY 499WRF	.	.	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.	.

1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.	.
1575	DP 1840B3XF	.	.	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	.	.	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	.	.	.	.	.	.	.	.	.	.	.
1593	DG 3520B3XF	.	.	.	.	.	.	.	.	.	.	.
1594	ST 4550GLTP	.	.	.	.	.	.	.	.	.	.	.
1595	DP 1851B3XF	.	.	.	.	.	.	.	.	.	.	.
1596	NG 4936B3XF	.	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

Location: Griffin, GA

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
1404	PHY 499WRF	1679	.	.	.	.	3.15	19.63	0.80	0.55	1.34
1516	DP 1646 B2XF	1697	.	.	.	.	3.32	14.97	0.56	0.51	1.07
1569	PHY 480W3FE	1730	.	.	.	.	3.26	20.74	0.75	0.56	1.31
1575	DP 1840B3XF	1683	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	1512	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	1640	.	.	.	.	2.80	19.49	0.84	0.57	1.41
1593	DG 3520B3XF	1821	.	.	.	.	.	.	.	.	.
1594	ST 4550GLTP	1652	.	.	.	.	.	.	.	.	.
1595	DP 1851B3XF	1619	.	.	.	.	.	.	.	.	.
1596	NG 4936B3XF	1571	.	.	.	.	.	.	.	.	.
	LSD	403	.	.	.	.	0.473	0.951	0.138	0.093	0.213

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.84	0.87	1.13	81.8	.	33.0	8.4	70.2	.	.	.
1516	DP 1646 B2XF	4.70	0.87	1.14	82.9	.	28.4	8.4	71.9	.	.	.
1569	PHY 480W3FE	4.75	0.87	1.13	83.9	.	31.2	8.4	70.5	.	.	.
1575	DP 1840B3XF	4.56	0.87	1.14	82.3	.	29.1	7.8	68.7	.	.	.
1578	ST 5471GLTP	4.83	0.88	1.13	82.2	.	31.4	6.8	73.1	.	.	.
1589	PHY 350W3FE	4.93	0.88	1.10	82.8	.	29.6	8.0	71.2	.	.	.
1593	DG 3520B3XF	5.08	0.88	1.10	82.8	.	30.8	8.5	71.3	.	.	.
1594	ST 4550GLTP	4.93	0.87	1.12	82.7	.	31.9	8.5	67.5	.	.	.
1595	DP 1851B3XF	4.80	0.87	1.16	83.8	.	30.3	8.3	73.8	.	.	.
1596	NG 4936B3XF	4.88	0.88	1.13	82.8	.	31.2	7.5	71.9	.	.	.
	LSD	0.272	0.011	0.073	2.4	1.81	3.3	0.791	5.05	0.837	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Conent Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF	0.8	0.99	22.8	6.6	1.16	174.5	5.9	0.92	99	19
1516	DP 1646 B2XF	0.83	1.04	24.5	7.3	1.24	172.5	6.2	0.91	95	16
1569	PHY 480W3FE	0.82	1.01	21.8	6.4	1.17	174.0	6.3	0.91	90	11
1575	DP 1840B3XF	0.82	1.02	24.3	7.1	1.23	171.0	6.5	0.89	109	9
1578	ST 5471GLTP	0.79	0.98	24.2	7.4	1.16	180.0	4.4	0.96	89	7
1589	PHY 350W3FE	0.81	0.99	22.3	6.4	1.16	176.5	6.0	0.91	87	15
1594	ST 4550GLTP	0.79	0.99	25.4	7.7	1.17	172.5	6.2	0.91	97	15
1595	DP 1851B3XF	0.81	1.02	25.4	7.4	1.21	173.5	5.3	0.94	128	21
1596	NG 4936B3XF	0.82	1.02	23.6	7.0	1.21	183.5	4.8	0.95	103	11
	LSD	0.071	0.07	4.36	1.81	0.078	9.45	1.21	0.043	47	13.6

Location: Starkville, MS

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1136	1598	42.9	8.9	4.90	.	.	.	.	.
1516	DP 1646 B2XF	1228	1565	43.9	8.6	4.71	.	.	.	.	.
1569	PHY 480W3FE	1289	1612	42.8	10.3	5.62	.	.	.	.	.
1575	DP 1840B3XF	1016	1358	42.1	9.2	5.23	.	.	.	.	.
1578	ST 5471GLTP	1176	1630	41.6	11.2	6.27	.	.	.	.	.
1589	PHY 350W3FE	1268	1637	42.9	10.4	5.21	.	.	.	.	.
1593	DG 3520B3XF	1279	1514	44.9	8.8	5.57	.	.	.	.	.
1594	ST 4550GLTP	1015	1425	43.8	9.6	5.58	.	.	.	.	.
1595	DP 1851B3XF	1138	1590	42.7	9.7	5.25	.	.	.	.	.
1596	NG 4936B3XF	1065	1528	41.7	9.2	4.65	.	.	.	.	.
	LSD	160	392	1.38	0.835	0.5	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	5.20	0.87	1.17	86.8	.	34.9	8.1	73.4	.	.	.
1516	DP 1646 B2XF	5.01	0.86	1.26	85.7	.	29.3	7.8	76.0	.	.	.
1569	PHY 480W3FE	4.88	0.86	1.17	86.1	.	31.6	8.7	73.6	.	.	.
1575	DP 1840B3XF	4.88	0.87	1.21	86.0	.	32.5	6.8	75.8	.	.	.
1578	ST 5471GLTP	4.77	0.87	1.21	86.0	.	34.5	6.4	76.3	.	.	.
1589	PHY 350W3FE	4.98	0.87	1.19	86.2	.	33.3	7.1	74.0	.	.	.

1593	DG 3520B3XF	5.08	0.87	1.19	85.8	.	34.7	7.3	74.3	.	.	.
1594	ST 4550GLTP	5.19	0.87	1.18	84.7	.	33.3	7.8	72.8	.	.	.
1595	DP 1851B3XF	4.85	0.87	1.19	84.9	.	31.6	7.4	75.2	.	.	.
1596	NG 4936B3XF	4.59	0.86	1.20	84.1	.	33.5	6.7	75.5	.	.	.
	LSD	0.272	0.007	0.041	1.94	1.43	2.09	0.564	2.81	0.982	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Conent Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF	0.87	1.03	18.2	5.4	1.19	184.5	4.8	0.95	58	9
1516	DP 1646 B2XF	0.87	1.06	20.5	6.3	1.26	180.0	7.3	0.91	62	4
1569	PHY 480W3FE	0.89	1.05	17.5	5.0	1.21	192.0	5.2	0.96	56	6
1575	DP 1840B3XF	0.93	1.09	15.5	4.6	1.27	192.5	4.6	0.98	40	2
1578	ST 5471GLTP	0.88	1.04	18.4	5.4	1.22	181.5	5.4	0.95	49	3
1589	PHY 350W3FE	0.87	1.04	20.2	6.2	1.23	187.0	5.6	0.94	44	6
1593	DG 3520B3XF	0.85	1.02	19.4	5.9	1.19	180.5	5.0	0.95	71	4
1594	ST 4550GLTP	0.89	1.05	18.2	5.2	1.22	195.0	3.2	1.00	37	3
1595	DP 1851B3XF	0.87	1.05	20.8	6.2	1.25	182.0	5.0	0.95	91	10
1596	NG 4936B3XF	0.88	1.06	20.7	6.4	1.26	184.5	6.1	0.93	104	8
	LSD	0.051	0.045	3.78	1.53	0.043	7.67	1.39	0.044	31.8	6.94

Location: Rocky Mount, NC

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
1404	PHY 499WRF	1615	1711	48.6	8.5	4.86	3.38	20.60	0.76	0.48	1.23
1516	DP 1646 B2XF	1538	1621	48.7	7.5	4.88	3.64	18.11	0.58	0.50	1.07
1569	PHY 480W3FE	1393	1456	48.9	8.5	4.64	3.92	19.50	0.70	0.52	1.22
1575	DP 1840B3XF	1443	1638	46.9	8.1	4.72	.	.	.	.	.
1578	ST 5471GLTP	1405	1589	46.9	10.0	5.52	.	.	.	.	.
1589	PHY 350W3FE	1515	1622	48.3	8.9	4.64	3.44	21.22	0.71	0.52	1.23
1593	DG 3520B3XF	1369	1360	50.2	8.2	5.37	.	.	.	.	.
1594	ST 4550GLTP	1665	1697	49.5	8.5	5.35	.	.	.	.	.
1595	DP 1851B3XF	1390	1562	47.1	8.5	4.81	.	.	.	.	.
1596	NG 4936B3XF	1328	1483	47.3	8.1	4.90	.	.	.	.	.
	LSD	242	262	1.06	0.462	0.473	0.835	1.71	0.087	0.089	0.176

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity

1404	PHY 499WRF	5.10	0.87	1.13	86.2	.	32.7	8.4	77.7	.	.	.
1516	DP 1646 B2XF	4.79	0.86	1.23	85.0	.	30.2	8.2	83.1	.	.	.
1569	PHY 480W3FE	4.62	0.86	1.11	84.6	.	31.8	8.5	79.0	.	.	.
1575	DP 1840B3XF	4.87	0.87	1.19	84.6	.	33.5	7.2	81.7	.	.	.
1578	ST 5471GLTP	4.95	0.87	1.11	83.3	.	32.3	6.5	80.8	.	.	.
1589	PHY 350W3FE	5.22	0.88	1.17	86.2	.	33.7	7.1	81.1	.	.	.
1593	DG 3520B3XF	4.90	0.87	1.14	84.5	.	32.7	7.6	78.9	.	.	.
1594	ST 4550GLTP	5.05	0.87	1.19	85.5	.	35.3	8.5	80.8	.	.	.
1595	DP 1851B3XF	4.68	0.86	1.19	85.2	.	30.1	8.1	81.3	.	.	.
1596	NG 4936B3XF	5.01	0.87	1.20	84.7	.	32.4	7.5	81.5	.	.	.
	LSD	0.473	0.014	0.043	1.94	1.48	3.08	0.67	2.42	0.68	.	.

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 Count
1404	PHY 499WRF	0.86	1.01	18.0	5.1	1.15	190.5	3.5	1.01	55	12
1516	DP 1646 B2XF	0.88	1.07	20.4	5.8	1.27	183.5	3.8	0.99	65	9
1569	PHY 480W3FE	0.83	0.99	18.9	5.8	1.15	182.0	4.0	0.97	72	7
1575	DP 1840B3XF	0.89	1.06	18.6	5.3	1.25	190.5	4.1	1.01	70	4
1578	ST 5471GLTP	0.79	0.96	22.4	7.4	1.14	196.5	4.0	1.02	81	15
1589	PHY 350W3FE	0.87	1.03	19.0	5.5	1.20	196.0	3.6	1.01	64	7
1593	DG 3520B3XF	0.84	0.99	18.6	5.7	1.16	189.0	3.9	1.02	92	13
1594	ST 4550GLTP	0.90	1.05	17.1	4.9	1.21	198.0	3.3	1.03	55	12
1595	DP 1851B3XF	0.85	1.03	21.8	6.6	1.21	190.5	4.2	1.01	114	13
1596	NG 4936B3XF	0.87	1.03	18.1	5.5	1.21	196.0	3.9	1.02	71	10
	LSD	0.053	0.045	3.82	1.55	0.037	18.5	1.05	0.035	47.6	10.4

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
1404	PHY 499WRF	1581	1785	47.0	.	.	3.69	19.26	0.73	0.47	1.19
1516	DP 1646 B2XF	1692	1914	47.0	.	.	3.66	16.09	0.60	0.52	1.12
1569	PHY 480W3FE	1506	1728	46.6	.	.	3.49	18.62	0.78	0.57	1.35
1575	DP 1840B3XF	1836	2283	44.6	.	.	.	.	.	.	.
1578	ST 5471GLTP	1503	1893	44.2	.	.	.	.	.	.	.
1589	PHY 350W3FE	1557	1919	44.8	.	.	3.10	17.41	0.75	0.53	1.28
1593	DG 3520B3XF	1804	1930	48.3	.	.	.	.	.	.	.
1594	ST 4550GLTP	1639	1890	46.5	.	.	.	.	.	.	.
1595	DP 1851B3XF	1568	1958	44.5	.	.	.	.	.	.	.
1596	NG 4936B3XF	1596	1977	44.8	.	.	.	.	.	.	.

	LSD	221	282	1.31			0.528	2.48	0.084	0.093	0.168	

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.97	0.86	1.13	85.3	.	31.6	8.7	65.8	.	.	.
1516	DP 1646 B2XF	5.00	0.87	1.17	83.9	.	30.4	8.7	68.5	.	.	.
1569	PHY 480W3FE	4.58	0.85	1.14	85.3	.	30.4	9.3	68.0	.	.	.
1575	DP 1840B3XF	4.59	0.86	1.19	83.0	.	30.8	8.1	68.7	.	.	.
1578	ST 5471GLTP	4.77	0.86	1.12	83.4	.	30.5	7.3	69.4	.	.	.
1589	PHY 350W3FE	4.74	0.86	1.19	85.7	.	31.7	8.1	65.0	.	.	.
1593	DG 3520B3XF	4.64	0.86	1.14	84.6	.	32.5	8.8	68.0	.	.	.
1594	ST 4550GLTP	4.25	0.84	1.17	84.5	.	33.0	9.4	69.3	.	.	.
1595	DP 1851B3XF	4.66	0.85	1.20	86.3	.	30.8	8.6	67.8	.	.	.
1596	NG 4936B3XF	4.48	0.85	1.16	83.9	.	30.4	8.7	71.5	.	.	.
	LSD	0.422	0.011	0.046	1.44	1.2	2.2	0.523	5.01	1.03	.	.

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 Count
1404	PHY 499WRF	0.78	0.97	25.8	8.2	1.15	179.5	5.8	0.93	99	21
1516	DP 1646 B2XF	0.82	1.03	24.4	7.5	1.24	177.0	5.7	0.92	87	13
1569	PHY 480W3FE	0.8	0.99	24.7	7.7	1.19	173.0	6.5	0.91	83	13
1575	DP 1840B3XF	0.81	1.02	25.3	7.8	1.23	171.0	6.6	0.9	119	14
1578	ST 5471GLTP	0.78	0.96	24.9	8.1	1.15	176.5	5.3	0.94	104	17
1589	PHY 350W3FE	0.81	1.01	25.0	7.7	1.21	177.5	5.7	0.93	114	19
1593	DG 3520B3XF	0.83	0.99	20.4	6.0	1.17	176.5	5.5	0.93	74	13
1594	ST 4550GLTP	0.77	0.97	27.9	9.2	1.19	163.5	6.9	0.88	106	15
1595	DP 1851B3XF	0.83	1.03	23.7	7.0	1.23	170.5	6.3	0.91	94	17
1596	NG 4936B3XF	0.83	1.01	22.0	6.6	1.19	173.0	6.0	0.91	119	15
	LSD	0.061	0.055	5.7	2.43	0.051	8.54	0.815	0.023	36.8	8.56

Location: Suffolk, VA

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
1404	PHY 499WRF										
1516	DP 1646 B2XF	2025	2609	43.7	.	5.95	2.91	20.33	0.78	0.65	1.43
1569	PHY 480W3FE	2244	2725	45.2	.	4.75	2.87	20.26	0.76	0.66	1.42
1575	DP 1840B3XF	1937	2452	44.1	.	5.90	2.79	22.33	0.86	0.66	1.52
1578	ST 5471GLTP	2149	2657	44.7	.	5.00	.	.	.	.	.

1589	PHY 350W3FE	2118	2866	42.5	.	5.65	.	.	.	.	.	
1593	DG 3520B3XF	2173	2895	42.9	.	6.15	2.85	22.08	0.88	0.66	1.53	
1594	ST 4550GLTP	2382	2735	46.5	.	6.00	.	.	.	.	.	
1595	DP 1851B3XF	2057	2545	44.7	.	5.90	.	.	.	.	.	
1596	NG 4936B3XF	2095	2884	42.1	.	6.30	.	.	.	.	.	
	LSD	247	303	1.37	.	0.859	.	.	.	.	.	

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	.	.	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.	.
1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.	.
1575	DP 1840B3XF	.	.	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	.	.	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	.	.	.	.	.	.	.	.	.	.	.
1593	DG 3520B3XF	.	.	.	.	.	.	.	.	.	.	.
1594	ST 4550GLTP	.	.	.	.	.	.	.	.	.	.	.
1595	DP 1851B3XF	.	.	.	.	.	.	.	.	.	.	.
1596	NG 4936B3XF	.	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

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 Count
1404	PHY 499WRF	.	.	.	.	.	.	.	.	.	.
1516	DP 1646 B2XF	.	.	.	.	.	.	.	.	.	.
1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.
1575	DP 1840B3XF	.	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	.	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	.	.	.	.	.	.	.	.	.	.
1593	DG 3520B3XF	.	.	.	.	.	.	.	.	.	.
1594	ST 4550GLTP	.	.	.	.	.	.	.	.	.	.
1595	DP 1851B3XF	.	.	.	.	.	.	.	.	.	.
1596	NG 4936B3XF	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

2019 National Cotton Variety Test

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

CENTRAL REGION

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

Regional Summaries For Central Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1199	1524	43.1	9.7	5.21	3.24	19.38	0.77	0.46	1.23
1497	PHY 312WRF	1414	2002	41.9	10.0	5.00	3.28	19.04	0.65	0.46	1.11
1503	FM 1830GLT	1094	1609	42.0	9.6	5.57	3.12	16.55	0.55	0.37	0.93
1516	DP 1646B2XF	1177	1657	43.7	8.5	5.00	.	.	.	.	.
1535	NG 4545B2XF	1261	1890	40.8	9.3	5.01	3.95	20.34	0.66	0.61	1.27
1536	PHY 764WRF	753	1170	39.0	11.0	5.06	3.85	20.02	0.54	0.37	0.91
1537	DP 1522B2XF	1224	1888	41.1	9.7	5.14	3.37	19.78	0.66	0.52	1.17
1551	DG 3385B2XF	1463	2128	41.7	9.8	5.16	2.94	19.19	0.88	0.66	1.54
1552	NG 4601B2XF	1128	1440	43.1	9.8	5.37	3.19	16.42	0.57	0.48	1.05
	LSD	237	.	2.09	0.6	0.62	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	5.07	0.87	1.16	86.4	.	34.9	7.7	75.7	.	.	.
1497	PHY 312WRF	4.68	0.86	1.22	86.1	.	32.5	6.6	75.7	.	.	.
1503	FM 1830GLT	4.78	0.87	1.23	85.4	.	34.2	5.2	78.5	.	.	.
1516	DP 1646B2XF	4.73	0.86	1.28	85.4	.	30.8	7.5	77.5	.	.	.
1535	NG 4545B2XF	4.87	0.88	1.17	84.4	.	32.9	5.2	76.7	.	.	.
1536	PHY 764WRF	4.39	0.86	1.23	86.0	.	38.7	6.2	75.0	.	.	.
1537	DP 1522B2XF	5.07	0.87	1.19	85.1	.	33.3	8.2	75.9	.	.	.
1551	DG 3385B2XF	4.89	0.86	1.19	86.3	.	30.2	8.4	76.2	.	.	.
1552	NG 4601B2XF	5.29	0.88	1.19	85.6	.	34.1	6.5	76.7	.	.	.
	LSD	0.19	0.01	0.03	1.0	.	1.3	0.3	1.1	1.5	.	.

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

1404	PHY 499WRF	0.88	1.03	16.6	4.6	1.18	192.3	3.7	1.00	97	19
1497	PHY 312WRF	0.89	1.06	19.0	5.4	1.24	188.5	4.5	0.98	97	12
1503	FM 1830GLT	0.89	1.07	19.2	5.5	1.27	183.5	4.0	1.00	93	12
1516	DP 1646B2XF	0.92	1.10	18.4	5.0	1.31	180.0	4.1	0.97	99	10
1535	NG 4545B2XF	0.88	1.03	17.2	4.9	1.2	190.7	3.5	1.01	70	10
1536	PHY 764WRF	0.90	1.07	17.5	5.0	1.25	174.8	4.4	0.98	127	23
1537	DP 1522B2XF	0.90	1.05	15.5	4.4	1.22	194.3	3.9	0.99	87	10
1551	DG 3385B2XF	0.87	1.03	18.1	5.3	1.21	189.0	4.6	0.98	94	10
1552	NG 4601B2XF	0.88	1.05	18.9	5.3	1.23	193.2	4.1	1.00	76	13
	LSD	0.03	0.03	2.1	0.9	0.03	7.2	0.3	0.02	37	7

Central Summary By Location Sites

Location	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
College Station, TX	1170	1552	43.8	9.3	5.21	2.74	19.58	0.77	0.55	1.32
Weslaco, TX	1455	2054	40.5	9.9	5.48	3.50	18.40	0.64	0.46	1.10
Corpus Christi, TX	908	1367	41.3	9.9	4.82	3.95	18.57	0.53	0.41	0.94

Location	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
College Station, TX	4.94	0.87	1.20	85.2	.	32.6	7.0	76.2	.	.	.
Weslaco, TX	4.76	0.87	1.23	86.0	.	33.8	6.8	76.8	.	.	.
Corpus Christi, TX	4.89	0.87	1.20	85.8	.	34.2	6.7	76.3	.	.	.

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
College Station, TX	0.87	1.04	19.2	5.6	1.22	184.7	4.1	0.98	90	12

Weslaco, TX	0.91	1.08	17.2	4.6	1.26	184.3	4.1	0.98	105	15
Corpus Christi, TX	0.89	1.05	17.1	4.8	1.22	193.1	4.1	1.00	85	13

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
1404	PHY 499WRF	1212	1576	44.5	9.6	5.43	2.88	20.36	0.83	0.49	1.31
1497	PHY 312WRF	1322	1807	43.3	9.9	5.03	2.51	19.77	0.80	0.55	1.35
1503	FM 1830GLT	1015	1300	44.0	9.0	5.10	2.67	17.26	0.65	0.43	1.08
1516	DP 1646B2XF	1391	2054	45.7	8.3	5.24	.	.	.	.	.
1535	NG 4545B2XF	1194	1662	43.7	8.6	5.54	.	.	.	.	.
1536	NG 4545B2XF	780	1150	40.6	10.3	5.05	3.21	22.20	0.64	0.44	1.08
1537	PHY 764WRF	1249	1808	43.2	9.2	4.86	2.82	21.13	0.78	0.62	1.40
1551	TAM 12J-39	1503	1717	44.3	9.2	5.27	2.51	19.97	1.00	0.75	1.75
1552	DG 3385B2XF	1003	1226	45.3	9.4	5.39	2.83	17.70	0.63	0.55	1.18
	LSD	216	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	5.24	0.87	1.15	85.9	.	33.7	7.9	74.9	.	.	.
1497	PHY 312WRF	4.94	0.87	1.18	85.1	.	31.3	6.6	75.5	.	.	.
1503	FM 1830GLT	4.80	0.87	1.22	85.1	.	33.5	5.3	78.9	.	.	.
1516	DP 1646B2XF	4.78	0.86	1.28	85.2	.	30.5	7.5	77.1	.	.	.
1535	NG 4545B2XF	4.99	0.88	1.15	84.3	.	31.7	5.4	76.7	.	.	.
1536	NG 4545B2XF	4.30	0.86	1.22	84.8	.	38.1	6.3	75.5	.	.	.
1537	PHY 764WRF	5.12	0.87	1.18	84.8	.	32.1	8.1	75.5	.	.	.
1551	TAM 12J-39	5.04	0.86	1.19	86.1	.	28.3	8.8	76.2	.	.	.
1552	DG 3385B2XF	5.25	0.88	1.18	85.5	.	34.2	6.6	75.8	.	.	.
	LSD	0.231	0.008	0.065	2.58	1.34	2.42	0.552	1.77	0.575	.	.

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
1404	PHY 499WRF	0.85	1.01	18.7	5.5	1.17	194.5	3.7	0.99	112	27
1497	PHY 312WRF	0.86	1.03	20.5	6.1	1.21	187.5	4.3	0.98	87	8
1503	FM 1830GLT	0.86	1.04	21.1	6.4	1.25	179.5	4.0	1.00	104	12
1516	DP 1646B2XF	0.91	1.11	20.4	5.7	1.33	178.5	4.1	0.97	108	8
1535	NG 4545B2XF	0.86	1.01	17.4	5.2	1.18	192.5	3.3	1.02	54	8
1536	NG 4545B2XF	0.89	1.06	18.2	5.2	1.25	171.5	4.2	0.98	92	14
1537	PHY 764WRF	0.88	1.04	17.1	5.0	1.21	192.5	3.8	0.99	89	9
1551	TAM 12J-39	0.85	1.01	19.8	6.0	1.19	183.5	4.7	0.96	99	10
1552	DG 3385B2XF	0.87	1.04	19.8	5.7	1.21	182.0	4.4	0.98	64	13
	LSD	0.082	0.079	4.05	1.81	0.082	5.44	0.626	0.018	77.5	16.7

Location: Corpus Christi, TX

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	743	979	42.7	9.7	4.72	3.71	17.15	0.51	0.32	0.83
1497	PHY 312WRF	1058	1672	41.5	10.0	4.70	3.92	17.51	0.50	0.37	0.87
1503	FM 1830GLT	919	1559	41.5	10.2	5.92	.	.	.	.	.
1516	DP 1646B2XF	807	1323	42.8	8.8	4.43	.	.	.	.	.
1535	NG 4545B2XF	1086	.	39.5	9.7	4.57	3.95	20.34	0.66	0.61	1.27
1536	NG 4545B2XF	473	788	39.1	11.1	4.48	4.14	18.80	0.44	0.30	0.74
1537	PHY 764WRF	842	1249	40.3	9.8	4.68	3.90	18.35	0.52	0.43	0.95
1551	TAM 12J-39	1248	1986	41.9	10.0	4.94	.	.	.	.	.
1552	DG 3385B2XF	975	1281	42.2	10.0	4.95	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity

1404	PHY 499WRF	4.99	0.87	1.15	86.4	.	36.4	7.8	76.2	.	.	.
1497	PHY 312WRF	4.57	0.86	1.23	87.0	.	33.2	6.6	75.7	.	.	.
1503	FM 1830GLT	4.92	0.88	1.21	85.4	.	33.9	5.1	77.5	.	.	.
1516	DP 1646B2XF	4.80	0.86	1.27	85.4	.	31.5	7.1	77.3	.	.	.
1535	NG 4545B2XF	4.72	0.88	1.17	84.4	.	33.7	4.9	77.5	.	.	.
1536	NG 4545B2XF	4.52	0.86	1.21	86.6	.	39.6	6.3	74.9	.	.	.
1537	PHY 764WRF	5.13	0.87	1.17	85.1	.	34.4	8.2	75.8	.	.	.
1551	TAM 12J-39	4.89	0.86	1.19	86.4	.	31.5	8.0	75.7	.	.	.
1552	DG 3385B2XF	5.51	0.89	1.19	85.3	.	33.7	6.2	75.9	.	.	.
	LSD	0.342	0.011	0.029	1.38	0.834	1.77	0.441	1.99	0.628	.	.

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
1404	PHY 499WRF	0.89	1.03	15.2	4.2	1.17	192.0	3.5	1.00	102	18
1497	PHY 312WRF	0.91	1.08	17.8	4.9	1.25	193.5	4.5	0.99	83	11
1503	FM 1830GLT	0.90	1.07	19.0	5.4	1.26	193.5	4.0	1.03	70	12
1516	DP 1646B2XF	0.93	1.10	17.0	4.6	1.29	183.5	4.0	0.98	91	9
1535	NG 4545B2XF	0.89	1.04	16.6	4.7	1.21	192.0	3.4	1.01	79	13
1536	NG 4545B2XF	0.89	1.06	16.7	4.7	1.23	182.0	4.5	0.99	117	27
1537	PHY 764WRF	0.92	1.05	14.2	4.0	1.21	197.0	4.2	0.99	71	10
1551	TAM 12J-39	0.86	1.03	18.9	5.6	1.20	198.0	4.7	1.00	90	12
1552	DG 3385B2XF	0.88	1.04	18.6	5.3	1.21	206.5	4.0	1.03	61	9
	LSD	0.036	0.026	3.81	1.23	0.029	8.92	0.679	0.029	47.4	11.5

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
1404	PHY 499WRF	1642	2017	42.1	9.9	5.48	3.36	19.51	0.85	0.51	1.36
1497	PHY 312WRF	1862	2526	40.9	10.1	5.26	3.42	19.85	0.65	0.47	1.12
1503	FM 1830GLT	1347	1967	40.4	9.7	5.68	3.56	15.85	0.46	0.32	0.78
1516	DP 1646B2XF	1386	1793	42.5	8.4	5.34	.	.	.	.	.
1535	NG 4545B2XF	1415	2118	39.1	9.6	4.92	.	.	.	.	.

1536	NG 4545B2XF	937	1572	37.2	11.4	5.66	3.88	20.16	0.60	0.41	1.01	
1537	PHY 764WRF	1487	2288	40.0	10.2	5.89	3.38	19.85	0.67	0.52	1.18	
1551	TAM 12J-39	1649	2476	40.2	10.2	5.28	3.37	18.42	0.76	0.57	1.33	
1552	DG 3385B2XF	1369	1733	41.8	9.9	5.78	3.55	15.14	0.51	0.42	0.93	
	LSD	192	426	2.71	.	1.18	2.46	1.58	0.145	0.082	0.223	

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.97	0.87	1.19	87.0	.	34.8	7.5	75.9	.	.	.
1497	PHY 312WRF	4.53	0.86	1.24	86.3	.	33.1	6.5	75.9	.	.	.
1503	FM 1830GLT	4.62	0.87	1.26	85.8	.	35.2	5.3	79.1	.	.	.
1516	DP 1646B2XF	4.62	0.86	1.31	85.7	.	30.5	7.8	78.2	.	.	.
1535	NG 4545B2XF	4.89	0.88	1.19	84.6	.	33.3	5.2	75.8	.	.	.
1536	NG 4545B2XF	4.36	0.86	1.25	86.6	.	38.5	6.1	74.6	.	.	.
1537	PHY 764WRF	4.96	0.86	1.21	85.5	.	33.3	8.1	76.6	.	.	.
1551	TAM 12J-39	4.75	0.86	1.21	86.6	.	30.9	8.3	76.6	.	.	.
1552	DG 3385B2XF	5.13	0.88	1.21	86.1	.	34.4	6.6	78.5	.	.	.
	LSD	0.231	0.009	0.038	1.62	1.07	1.42	0.747	1.84	1.15	.	.

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
1404	PHY 499WRF	0.90	1.05	18.72	5.45	1.17	194.5	3.7	0.99	79	12
1497	PHY 312WRF	0.90	1.08	20.45	6.14	1.21	187.5	4.3	0.98	120	17
1503	FM 1830GLT	0.93	1.11	21.12	6.4	1.25	179.5	4.0	1.00	107	13
1516	DP 1646B2XF	0.93	1.11	20.4	5.68	1.33	178.5	4.1	0.97	99	12
1535	NG 4545B2XF	0.89	1.05	17.42	5.15	1.18	192.5	3.3	1.02	78	9
1536	NG 4545B2XF	0.91	1.08	18.2	5.19	1.25	171.5	4.2	0.98	171	30
1537	PHY 764WRF	0.92	1.07	17.05	4.99	1.21	192.5	3.8	0.99	101	13
1551	TAM 12J-39	0.92	1.07	19.84	6.04	1.19	183.5	4.7	0.96	92	9
1552	DG 3385B2XF	0.90	1.07	19.77	5.65	1.21	182.0	4.4	0.98	103	18
	LSD	0.042	0.041	2.66	1	0.049	4.71	0.681	0.019	91	12.3

2019 National Cotton Variety Test

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DELTA REGION

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

Regional Summaries For Delta Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	927	1172	42.5	9.5	5.15	3.40	17.22	0.67	0.49	1.16
1516	DP 1646B2XF	1210	1515	43.2	8.7	5.20	3.15	15.48	0.61	0.47	1.08
1535	NG 4545B2XF	936	1309	41.3	9.6	5.22	3.58	16.34	0.58	0.51	1.09
1536	PHY 764WRF	728	898	39.9	10.1	5.14	3.53	20.51	0.57	0.46	1.03
1569	PHY 480W3FE	1032	1304	42.3	9.9	5.29	.	.	.	.	.
1578	ST 5471GLTP	1016	1433	39.8	10.2	5.53	.	.	.	.	.
1590	CROPLAN 9608B3XF	1032	1196	44.2	8.8	5.10	.	.	.	.	.
1591	DP 1725B2XF	1039	1279	43.8	9.1	5.37	.	.	.	.	.
1592	DG 3520B3XF	944	1295	40.3	10.7	5.74	.	.	.	.	.
1593	ST 4550GLTP	972	1170	44.7	9.3	5.45	.	.	.	.	.
	LSD	226	384	1.72	1.2	0.54	0.36	4.95	0.18	0.20	0.35

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.85	0.86	1.18	85.8	.	34.4	8.1	72.0	.	.	.
1516	DP 1646B2XF	4.58	0.86	1.27	85.3	.	32.5	7.7	72.4	.	.	.
1535	NG 4545B2XF	4.68	0.87	1.21	85.3	.	35.2	5.6	72.4	.	.	.
1536	PHY 764WRF	4.31	0.86	1.22	85.5	.	38.5	6.5	71.0	.	.	.
1569	PHY 480W3FE	4.56	0.86	1.21	86.5	.	33.3	7.9	72.0	.	.	.
1578	ST 5471GLTP	4.57	0.86	1.21	84.9	.	34.8	7.0	73.2	.	.	.
1590	CROPLAN 9608B3XF	4.43	0.86	1.21	84.0	.	30.9	5.9	72.5	.	.	.
1591	DP 1725B2XF	4.63	0.86	1.22	84.9	.	31.6	6.4	72.8	.	.	.
1592	DG 3520B3XF	4.11	0.85	1.26	86.1	.	33.4	7.3	72.9	.	.	.
1593	ST 4550GLTP	4.8	0.86	1.21	86.1	.	34.1	7.5	71.5	.	.	.
	LSD	0.38	0.011	0.043	1.34	0.7	1.86	0.688	5.62	0.81	.	.

Short Fiber	Short Fiber	Immature	Seed Coat

vcode	Variety	Length Number	Length Weight	Content Number	Content Weight	UQL Wt.	Fineness	Fiber Content	Maturity Ratio	Nep Count	Number Count
1404	PHY 499WRF	0.87	1.04	19.7	5.9	1.21	185.2	4.7	0.96	74	8
1516	DP 1646B2XF	0.90	1.09	20.6	6.0	1.31	180.9	4.7	0.96	107	10
1535	NG 4545B2XF	0.87	1.05	19.9	5.8	1.23	187.7	4.4	0.98	88	10
1536	PHY 764WRF	0.88	1.06	19.3	5.7	1.25	175.3	4.9	0.96	105	12
1569	PHY 480W3FE	0.89	1.05	18.2	5.3	1.23	186.3	4.2	0.98	86	9
1578	ST 5471GLTP	0.87	1.06	20.6	6.1	1.25	179.6	4.6	0.97	101	11
1590	CROPLAN 9608B3XF	0.81	1.01	25.1	8.0	1.22	182.8	4.8	0.97	107	9
1591	DP 1725B2XF	0.86	1.05	21.9	6.5	1.26	180.3	4.7	0.97	99	8
1592	DG 3520B3XF	0.91	1.09	18.7	5.2	1.29	178.0	4.5	0.96	117	10
1593	ST 4550GLTP	0.88	1.04	17.9	5.3	1.22	188.7	4.2	0.98	87	8
	LSD	0.04	0.03	2.5	1.0	0.03	12.5	0.9	0.04	26	5

Delta 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
Saint Joseph, LA	1026	1431	41.6	10.9	5.40	.	.	.	.	.
Stoneville, MS	598	810	42.4	8.4	5.52	3.55	16.10	0.53	0.41	0.93
Portageville, MO	1056	1539	41.3	10.1	5.42	.	.	.	.	.
Keiser, AR	1255	1522	43.9	8.8	4.65	3.28	18.68	0.69	0.56	1.24

Location	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Saint Joseph, LA	4.86	0.87	1.26	86.7	.	36.0	7.1	73.5	.	.	.
Stoneville, MS	4.67	0.86	1.19	84.9	.	34.0	6.4	62.6	.	.	.
Portageville, MO	4.80	0.86	1.21	84.8	.	32.5	7.4	76.7	.	.	.
Keiser, AR	3.88	0.84	1.22	85.4	.	33.0	7.2	76.1	.	.	.

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
Saint Joseph, LA	0.92	1.10	17.8	5.0	1.29	203.7	3.2	1.05	66	7
Stoneville, MS	0.84	1.03	22.5	6.7	1.23	181.2	4.4	0.97	88	15
Jackson, TN	0.88	1.06	19.4	5.6	1.25	183.2	4.6	0.97	110	7
Portageville, MO	0.88	1.05	19.7	5.9	1.24	178.6	4.8	0.93	101	8
Keiser, AR	0.85	1.03	21.5	6.8	1.23	165.8	5.8	0.92	120	11

Delta Region Individual Location Summaries

Location: Keiser, AR

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1427	1807	44.7	8.9	4.84	3.26	19.43	0.77	0.49	1.26
1516	DP 1646B2XF	1441	1716	44.7	7.6	4.98	2.95	14.58	0.64	0.56	1.20
1535	NG 4545B2XF	1194	1798	40.6	8.9	3.51	3.42	19.67	0.72	0.70	1.42
1536	PHY 764WRF	1106	1382	41.8	10.2	5.26	3.50	21.06	0.63	0.48	1.10
1569	PHY 480W3FE	1148	1274	43.5	9.3	4.16	.	.	.	.	.
1578	ST 5471GLTP	1139	1440	42.6	10.0	4.08	.	.	.	.	.
1590	CROPLAN 9608B3XF	1252	1253	45.5	7.7	4.63	.	.	.	.	.
1591	DP 1725B2XF	1307	1430	46.6	8.0	4.51	.	.	.	.	.
1592	DG 3520B3XF	1396	1831	42.3	10.0	5.70	.	.	.	.	.
1593	ST 4550GLTP	1137	1284	47.0	7.8	4.79	.	.	.	.	.
	LSD	233	424	1.39	.	1.82	0.637	1.6	0.103	0.095	0.197

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.30	0.85	1.17	85.1	.	33.2	7.7	76.1	.	.	.
1516	DP 1646B2XF	4.13	0.85	1.27	85.4	.	31.1	8.0	76.6	.	.	.

1535	NG 4545B2XF	3.88	0.85	1.22	85.0	.	34.7	5.6	75.1	.	.	.
1536	PHY 764WRF	3.79	0.85	1.23	86.1	.	39.3	6.2	75.4	.	.	.
1569	PHY 480W3FE	3.89	0.84	1.21	86.7	.	31.8	8.4	75.5	.	.	.
1578	ST 5471GLTP	3.73	0.84	1.21	84.5	.	33.5	7.0	77.9	.	.	.
1590	CROPLAN 9608B3XF	3.73	0.84	1.21	84.7	.	30.6	6.2	76.2	.	.	.
1591	DP 1725B2XF	3.97	0.85	1.17	84.2	.	31.2	6.3	77.2	.	.	.
1592	DG 3520B3XF	3.38	0.83	1.27	86.1	.	31.9	8.3	76.1	.	.	.
1593	ST 4550GLTP	4.02	0.84	1.19	86.3	.	32.5	8.1	75.3	.	.	.
	LSD	0.267	0.009	0.037	1.81	0.751	2.36	0.31	3.86	1.05	.	.

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
1404	PHY 499WRF	0.82	1.00	22.7	7.3	1.19	173.0	6.3	0.92	101	14
1516	DP 1646B2XF	0.87	1.06	22.0	7.0	1.28	167.0	6.3	0.91	137	7
1535	NG 4545B2XF	0.87	1.04	19.6	6.2	1.23	169.0	6.0	0.93	105	7
1536	PHY 764WRF	0.86	1.05	21.2	6.7	1.25	161.5	6.7	0.91	127	12
1569	PHY 480W3FE	0.87	1.04	19.0	5.8	1.22	169.5	5.0	0.94	112	11
1578	ST 5471GLTP	0.81	1.02	25.9	8.2	1.23	156.5	5.8	0.92	128	13
1590	CROPLAN 9608B3XF	0.81	1.00	23.6	7.7	1.21	165.5	5.6	0.93	118	12
1591	DP 1725B2XF	0.83	1.02	23.1	7.3	1.23	164.0	6.1	0.92	116	11
1592	DG 3520B3XF	0.88	1.07	19.8	5.8	1.28	160.5	5.7	0.91	147	15
1593	ST 4550GLTP	0.86	1.01	18.3	5.8	1.19	171.0	4.9	0.95	107	9
	LSD	0.069	0.059	5.71	2.37	0.048	11.9	1.27	0.034	47.1	7.89

Location: Saint Joseph, LA

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
1404	PHY 499WRF	928	1235	42.9	10.6	5.25	.	.	.	.	.
1516	DP 1646B2XF	1367	1812	43.0	9.5	5.07	.	.	.	.	.
1535	NG 4545B2XF	1017	1554	39.6	11.2	5.65	.	.	.	.	.
1536	PHY 764WRF	538	887	37.6	12.2	5.11	.	.	.	.	.
1569	PHY 480W3FE	1184	1632	42.3	10.7	5.20	.	.	.	.	.

1578	ST 5471GLTP	917	1349	40.5	12.3	6.02	.	.	.	.	.	
1590	CROPLAN 9608B3XF	1219	1536	44.2	9.4	5.25	.	.	.	.	.	
1591	DP 1725B2XF	1153	1571	42.5	9.7	5.02	.	.	.	.	.	
1592	DG 3520B3XF	946	1503	38.5	13.1	5.81	.	.	.	.	.	
1593	ST 4550GLTP	987	1226	44.6	10.5	5.65	.	.	.	.	.	
	LSD	284	420	1.54	.	0.318	.	.	.	.	.	

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	5.32	0.88	1.19	87.6	.	38.6	8.31	71.6	.	.	.
1516	DP 1646B2XF	4.84	0.86	1.33	86.3	.	33.8	7.79	74.5	.	.	.
1535	NG 4545B2XF	4.94	0.88	1.24	86.2	.	37.3	4.86	73.5	.	.	.
1536	PHY 764WRF	4.64	0.87	1.26	87.1	.	41.4	6.41	70.6	.	.	.
1569	PHY 480W3FE	4.66	0.86	1.24	87.3	.	35.5	8.31	74.5	.	.	.
1578	ST 5471GLTP	5.21	0.88	1.23	85.8	.	36.7	6.58	76.4	.	.	.
1590	CROPLAN 9608B3XF	4.78	0.87	1.24	84.9	.	32.9	5.98	74.6	.	.	.
1591	DP 1725B2XF	4.91	0.87	1.31	86.7	.	32.2	7.36	73.3	.	.	.
1592	DG 3520B3XF	4.03	0.85	1.31	87.6	.	35.4	7.79	74.4	.	.	.
1593	ST 4550GLTP	5.31	0.88	1.25	87.5	.	35.9	7.27	72.1	.	.	.
	LSD	0.189	0.01	0.037	2.5	0.874	2.22	0.403	2.06	0.546	.	.

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 Count
1404	PHY 499WRF	0.92	1.07	15.6	4.3	1.22	195.5	3.9	0.99	49	5
1516	DP 1646B2XF	0.94	1.14	20.2	5.7	1.36	202.0	3.2	1.05	67	9
1535	NG 4545B2XF	0.91	1.08	18.1	5.0	1.27	212.0	2.7	1.07	65	9
1536	PHY 764WRF	0.92	1.09	16.7	4.6	1.28	198.0	3.2	1.05	80	9
1569	PHY 480W3FE	0.94	1.1	16.5	4.4	1.27	207.5	3.1	1.05	67	7
1578	ST 5471GLTP	0.92	1.09	18.2	5.0	1.28	208.0	3.0	1.06	65	9
1590	CROPLAN 9608B3XF	0.83	1.04	25.1	7.9	1.27	199.5	3.5	1.03	67	6
1591	DP 1725B2XF	0.98	1.15	16.2	4.2	1.36	205.5	2.8	1.06	50	5

1592	DG 3520B3XF	0.96	1.13	16.8	4.4	1.33	190.5	3.6	1.03	88	12
1593	ST 4550GLTP	0.94	1.09	14.6	4.0	1.26	218.5	2.6	1.08	64	4
	LSD	0.084	0.062	5.27	2.16	0.043	5.85	0.409	0.017	44.6	9.23

Location: Portageville, MO

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	748	1064	41.3	10.5	4.77	.	.	.	.	.
1516	DP 1646B2XF	1267	1743	42.0	9.0	5.10	.	.	.	.	.
1535	NG 4545B2XF	940	1424	39.5	10.0	5.87	.	.	.	.	.
1536	PHY 764WRF	688	603	39.6	11.0	5.20	.	.	.	.	.
1569	PHY 480W3FE	1215	1636	43.1	10.0	5.13	.	.	.	.	.
1578	ST 5471GLTP	1416	2687	35.3	10.0	6.32	.	.	.	.	.
1590	CROPLAN 9608B3XF	1146	1523	45.0	10.0	5.16	.	.	.	.	.
1591	DP 1725B2XF	1052	1468	43.2	9.0	5.18	.	.	.	.	.
1592	DG 3520B3XF	1017	1757	39.5	10.5	5.72	.	.	.	.	.
1593	ST 4550GLTP	1069	1487	44.5	11.0	5.73	.	.	.	.	.
	LSD	285	.	4.12	.	0.657	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF											
1516	DP 1646B2XF	5.14	0.87	1.17	85.0	.	33.8	8.4	74.0	.	.	.
1535	NG 4545B2XF	4.59	0.85	1.31	84.7	.	30.9	8.1	78.1	.	.	.
1536	PHY 764WRF	4.93	0.88	1.18	85.0	.	33.5	5.7	77.0	.	.	.
1569	PHY 480W3FE	4.42	0.86	1.21	84.9	.	36.5	7.5	75.7	.	.	.
1578	ST 5471GLTP	4.97	0.87	1.18	86.4	.	31.1	8.2	77.0	.	.	.
1590	CROPLAN 9608B3XF	4.98	0.87	1.18	83.4	.	32.2	7.7	77.0	.	.	.
1591	DP 1725B2XF	4.66	0.87	1.19	83.3	.	30.1	6.2	77.4	.	.	.
1592	DG 3520B3XF	4.87	0.87	1.22	84.8	.	31.7	6.2	77.7	.	.	.
1593	ST 4550GLTP	4.24	0.85	1.30	86.0	.	33.1	8.2	77.1	.	.	.
	LSD	0.553	0.017	0.071	2.49	2.15	3.16	0.583	4.21	0.983	.	.

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 Count
1404	PHY 499WRF	0.87	1.04	20.1	5.9	1.21	187.5	4.4	0.95	79	10
1516	DP 1646B2XF	0.93	1.13	19.9	5.6	1.36	175.0	5.0	0.92	133	9
1535	NG 4545B2XF	0.87	1.04	19.0	5.5	1.21	184.5	4.7	0.96	73	8
1536	PHY 764WRF	0.88	1.05	18.6	5.6	1.23	170.0	5.0	0.93	123	12
1569	PHY 480W3FE	0.92	1.06	15.4	4.5	1.21	186.5	4.2	0.95	68	2
1578	ST 5471GLTP	0.86	1.04	19.9	5.9	1.23	176.0	4.9	0.93	89	6
1590	CROPLAN 9608B3XF	0.79	0.99	26.2	8.6	1.21	179.0	5.2	0.93	123	7
1591	DP 1725B2XF	0.85	1.03	21.9	6.7	1.23	174.5	5.0	0.93	115	8
1592	DG 3520B3XF	0.94	1.12	18.0	5.0	1.32	171.0	5.0	0.91	119	9
1593	ST 4550GLTP	0.88	1.05	18.1	5.3	1.22	181.5	4.7	0.94	93	7
	LSD	0.081	0.065	5.22	1.97	0.069	9.52	0.911	0.033	43.9	5.48

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
1404	PHY 499WRF	605	845	41.7	8.2	5.39	3.55	15.02	0.58	0.48	1.06
1516	DP 1646B2XF	764	1003	43.3	8.3	5.49	3.36	16.39	0.57	0.39	0.96
1535	NG 4545B2XF	595	763	44.3	8.0	5.33	3.74	13.01	0.44	0.32	0.76
1536	PHY 764WRF	579	815	41.4	7.7	5.08	3.56	19.97	0.52	0.44	0.96
1569	PHY 480W3FE	580	823	41.4	9.3	6.01	.	.	.	.	.
1578	ST 5471GLTP	591	886	40.1	8.4	5.38	.	.	.	.	.
1590	CROPLAN 9608B3XF	512	664	43.2	8.0	5.16	.	.	.	.	.
1591	DP 1725B2XF	642	818	43.9	9.1	6.25	.	.	.	.	.
1592	DG 3520B3XF	418	587	41.4	8.8	5.70	.	.	.	.	.
1593	ST 4550GLTP	698	899	43.6	8.1	5.45	.	.	.	.	.
	LSD	267	353	3.39	.	0.941	.	.	.	.	.

Upper Half

vcode	Variety	Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.64	0.86	1.22	85.8	.	32.2	7.8	66.2	.	.	.
1516	DP 1646B2XF	4.78	0.87	1.17	85.1	.	34.3	7.0	60.3	.	.	.
1535	NG 4545B2XF	4.97	0.87	1.19	85.1	.	35.4	6.3	63.9	.	.	.
1536	PHY 764WRF	4.40	0.86	1.18	83.9	.	36.6	6.1	62.3	.	.	.
1569	PHY 480W3FE	4.74	0.87	1.19	85.7	.	34.9	6.8	61.0	.	.	.
1578	ST 5471GLTP	4.37	0.86	1.19	86.0	.	36.8	6.8	61.4	.	.	.
1590	CROPLAN 9608B3XF	4.54	0.87	1.19	83.1	.	30.2	5.3	62.0	.	.	.
1591	DP 1725B2XF	4.79	0.87	1.19	83.9	.	31.3	5.6	63.2	.	.	.
1592	DG 3520B3XF	4.79	0.87	1.17	84.7	.	33.1	5.0	63.9	.	.	.
1593	ST 4550GLTP	4.67	0.86	1.22	85.6	.	35.4	6.9	62.2	.	.	.
	LSD	0.482	0.014	0.044	1.53	1.22	4.99	1.29	5.8	0.932	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF	0.85	1.05	23.1	6.8	1.26	179.0	4.7	0.96	73	9
1516	DP 1646B2XF	0.83	1.02	22.6	6.7	1.20	185.0	4.2	0.99	85	17
1535	NG 4545B2XF	0.85	1.05	23.0	6.6	1.24	183.5	4.5	0.99	92	15
1536	PHY 764WRF	0.82	1.02	24.2	7.5	1.23	175.0	4.8	0.96	75	16
1569	PHY 480W3FE	0.84	1.03	22.5	6.5	1.21	182.0	4.3	0.98	94	18
1578	ST 5471GLTP	0.88	1.06	20.1	5.8	1.25	173.0	4.5	0.96	122	24
1590	CROPLAN 9608B3XF	0.80	1.00	26.1	8.2	1.21	181.5	4.8	0.96	99	15
1591	DP 1725B2XF	0.82	1.02	24.2	7.3	1.23	180.0	4.4	0.98	94	15
1592	DG 3520B3XF	0.87	1.04	19.2	5.6	1.23	190.0	3.6	1.00	57	9
1593	ST 4550GLTP	0.86	1.04	20.3	6.0	1.22	183.0	4.3	0.97	89	14
	LSD	0.032	0.038	2.52	0.918	0.047	9.68	0.823	0.027	43.7	15.1

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
1404	PHY 499WRF	.	.	.	.	.	.	.	.	.	.

1516	DP 1646B2XF	.	.	.	.	.	.	.	.	.	.
1535	NG 4545B2XF	.	.	.	.	.	.	.	.	.	.
1536	PHY 764WRF	.	.	.	.	.	.	.	.	.	.
1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.
1578	ST 5471GLTP	.	.	.	.	.	.	.	.	.	.
1590	CROPLAN 9608B3XF	.	.	.	.	.	.	.	.	.	.
1591	DP 1725B2XF	.	.	.	.	.	.	.	.	.	.
1592	DG 3520B3XF	.	.	.	.	.	.	.	.	.	.
1593	ST 4550GLTP	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.99	0.87	1.10	82.5	.	31.1	9.2	79.2	.	.	.
1516	DP 1646B2XF	4.51	0.86	1.21	83.6	.	32.2	8.3	80.3	.	.	.
1535	NG 4545B2XF	4.80	0.88	1.11	83.6	.	32.1	6.3	77.3	.	.	.
1536	PHY 764WRF	4.31	0.86	1.19	84.0	.	35.7	7.7	78.6	.	.	.
1569	PHY 480W3FE	4.65	0.87	1.15	83.7	.	31.8	8.7	79.8	.	.	.
1578	ST 5471GLTP	4.71	0.87	1.17	83.4	.	32.9	8.1	78.6	.	.	.
1590	CROPLAN 9608B3XF	4.65	0.88	1.12	82.7	.	28.3	6.2	78.2	.	.	.
1591	DP 1725B2XF	4.76	0.88	1.12	83.1	.	31.2	6.2	80.0	.	.	.
1592	DG 3520B3XF	4.07	0.85	1.23	82.9	.	32.6	8.9	78.7	.	.	.
1593	ST 4550GLTP	4.80	0.87	1.15	83.5	.	32.1	9.0	79.2	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF	0.89	1.04	17.3	5.0	1.20	191.0	4.2	0.97	71	4
1516	DP 1646B2XF	0.94	1.13	18.2	5.1	1.34	175.5	4.5	0.94	113	7
1535	NG 4545B2XF	0.87	1.03	19.7	5.7	1.21	189.5	4.2	0.98	108	10
1536	PHY 764WRF	0.94	1.10	15.9	4.3	1.28	172.0	4.7	0.95	118	14

1569	PHY 480W3FE	0.89	1.05	17.6	5.1	1.22	186.0	4.7	0.98	88	6
1578	ST 5471GLTP	0.89	1.07	18.9	5.4	1.27	184.5	4.7	0.98	103	4
1590	CROPLAN 9608B3XF	0.81	1.01	24.7	7.5	1.21	188.5	4.9	0.98	129	7
1591	DP 1725B2XF	0.84	1.04	23.9	7.2	1.25	177.5	5.1	0.95	120	4
1592	DG 3520B3XF	0.92	1.11	19.5	5.2	1.32	178.0	4.8	0.96	172	6
1593	ST 4550GLTP	0.88	1.03	18.0	5.4	1.20	189.5	4.4	0.98	83	7

2019 National Cotton Variety Test

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WESTERN REGION

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

Regional Summaries For Western Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	1338	1666	44.5	9.9	5.72	3.57	20.55	0.67	0.51	1.18
1441	FM 2484B2F	1215	1497	45.2	8.2	5.12	.	.	.	.	.
1503	FM 1830GLT	1279	1550	45.0	9.1	5.77	.	.	.	.	.
1516	DP 1646B2XF	1398	1666	45.4	7.8	5.44	3.45	15.89	0.61	0.50	1.11
1535	NG 4545B2XF	1293	1708	43.2	9.1	6.00	3.31	21.35	0.83	0.71	1.54
1536	PHY 764WRF	1372	1916	41.4	10.5	6.12	3.50	20.27	0.58	0.43	1.00
1537	DP 1522B2XF	1333	1722	43.6	9.1	5.66	.	.	.	.	.
1553	Acala Daytona RF	1079	1391	43.3	10.2	5.65	.	.	.	.	.
1554	DP 1549B2XF	1538	1978	43.3	8.1	5.41	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.29	0.85	1.32	85.8	.	33.2	8.4	72.8	.	.	.
1441	FM 2484B2F	4.50	0.86	1.32	85.6	.	30.8	8.1	81.0	.	.	.
1503	FM 1830GLT	4.26	0.85	1.30	85.4	.	32.8	6.6	76.2	.	.	.
1516	DP 1646B2XF	4.18	0.84	1.31	84.7	.	30.0	9.4	75.0	.	.	.
1535	NG 4545B2XF	4.69	0.87	1.21	84.8	.	33.1	6.2	75.1	.	.	.
1536	PHY 764WRF	3.86	0.84	1.27	85.2	.	37.0	7.6	71.4	.	.	.
1537	DP 1522B2XF	4.47	0.85	1.26	85.4	.	31.8	9.6	70.0	.	.	.
1553	Acala Daytona RF	4.09	0.85	1.26	86.2	.	35.5	7.4	73.7	.	.	.
1554	DP 1549B2XF	4.31	0.85	1.27	84.7	.	30.8	8.0	74.6	.	.	.
	LSD	0.55	0.02	0.12	2.67	1.57	2.40	1.19	5.85	1.72	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Number Count
1404	PHY 499WRF	0.79	1.01	27.7	8.8	1.23	172.3	5.9	0.93	156	12

1441	FM 2484B2F	0.86	1.04	21.6	6.9	1.26	179.5	4.3	0.98	80	11
1503	FM 1830GLT	0.86	1.06	22.9	7.0	1.28	173.2	4.5	0.97	125	14
1516	DP 1646B2XF	0.82	1.04	27.0	8.7	1.29	169.3	5.9	0.91	124	11
1535	NG 4545B2XF	0.82	0.99	23.2	7.5	1.19	188.7	5.1	0.96	89	9
1536	PHY 764WRF	0.85	1.04	23.3	7.4	1.25	171.8	6.0	0.93	140	25
1537	DP 1522B2XF	0.81	1.00	24.2	7.8	1.21	180.8	5.4	0.94	145	17
1553	Acala Daytona RF	0.85	1.04	22.3	6.9	1.25	166.5	5.8	0.93	127	23
1554	DP 1549B2XF	0.80	1.00	26.6	8.9	1.22	176.3	5.9	0.93	114	13
	LSD	.	.	.	.	.	.	.	.	.	.

Western Summary By Location Sites

Location	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
Five Points, CA	1796	2277	44.1	10.0	6.19	3.48	18.13	0.67	0.58	1.24
Las Cruces, NM	1472	1857	44.2	.	6.09	3.22	21.36	0.76	0.65	1.41
Maricopa, AZ	848	1112	43.3	8.6	4.91	3.67	19.06	0.59	0.38	0.97

Location	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Five Points, CA	4.13	0.85	1.27	84.7	.	33.2	7.5	68.7	.	.	.
Las Cruces, NM	4.42	0.85	1.28	85.7	.	32.6	8.3	78.8	.	.	.
Maricopa, AZ	.	.	.	.	.	.	.	.	.	.	.

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 Points, CA	0.82	1.05	26.9	8.3	1.28	161.4	6.2	0.90	159	22
Las Cruces, NM	0.89	1.08	21.0	6.4	1.29	181.9	5.3	0.95	93	13
Maricopa, AZ	0.77	0.95	25.6	8.7	1.14	180.8	5.0	0.96	123	10

Western Region Individual Location Summaries

LOCATION: Maricopa, AZ

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
1404	PHY 499WRF*	1042	1268	45.2	8.5	4.91	3.44	19.93	0.65	0.33	0.98
1441	FM 2484B2F	785	911	46.3	8.2	4.49	.	.	.	.	.
1503	FM 1830GLT	772	987	43.9	8.8	5.32	.	.	.	.	.
1516	DP 1646B2XF*	769	952	44.7	7.4	4.59	3.75	17.17	0.59	0.39	0.97
1535	NG 4545B2XF*	835	1133	42.5	8.2	5.05	3.78	19.73	0.64	0.51	1.15
1536	PHY 764WRF*	750	1099	40.5	10.5	5.35	3.72	19.41	0.49	0.31	0.80
1537	DP 1522B2XF	916	1225	42.8	8.3	4.86	.	.	.	.	.
1553	ACALA DAYTONA RF	671	934	41.8	9.6	4.91	.	.	.	.	.
1554	DP 1549 B2XF	1095	1501	42.2	7.7	4.70	.	.	.	.	.
	LSD	111	151	1.34	.	0.309	0.372	1.34	0.069	0.045	0.112

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF*	5.18	0.89	1.06	82.0	.	30.8	7.2	77.2	.	.	.
1441	FM 2484B2F	5.16	0.89	1.10	81.2	.	28.5	5.6	79.2	.	.	.
1503	FM 1830GLT	4.96	0.89	1.11	81.2	.	29.8	4.9	79.2	.	.	.
1516	DP 1646B2XF*	4.81	0.88	1.10	79.1	.	28.8	7.2	79.0	.	.	.
1535	NG 4545B2XF*	5.10	0.89	1.03	80.5	.	27.2	5.4	76.7	.	.	.
1536	PHY 764WRF*	4.74	0.88	1.14	82.1	.	34.1	6.2	76.3	.	.	.
1537	DP 1522B2XF	5.22	0.88	1.09	82.3	.	30.0	8.1	77.2	.	.	.
1553	ACALA DAYTONA RF	4.70	0.88	1.15	83.0	.	33.4	5.5	75.9	.	.	.
1554	DP 1549 B2XF	4.92	0.88	1.05	80.9	.	28.6	7.6	78.3	.	.	.
	LSD	0.312	0.012	0.056	2.49	2.4	2.11	0.558	1.43	0.83	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Conent Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF*	0.75	0.94	27.8	9.1	1.13	178.5	6.0	0.94	162	6
1441	FM 2484B2F	0.79	0.96	23.4	8.0	1.15	181.5	3.4	1.00	92	12
1503	FM 1830GLT	0.80	0.98	24.0	7.8	1.17	179.5	4.0	1.00	92	7
1516	DP 1646B2XF*	0.77	0.98	28.7	9.8	1.19	174.0	6.1	0.93	114	9
1535	NG 4545B2XF*	0.76	0.93	24.7	8.7	1.11	190.0	4.8	0.97	91	7
1536	PHY 764WRF*	0.77	0.95	26.4	9.1	1.15	174.0	6.1	0.93	149	17
1537	DP 1522B2XF	0.79	0.95	21.1	7.0	1.12	197.5	3.5	1.00	129	5
1553	ACALA DAYTONA RF	0.81	1.00	23.9	7.7	1.19	170.0	5.8	0.95	133	21
1554	DP 1549 B2XF	0.70	0.89	30.5	11.2	1.08	182.5	5.4	0.93	149	12
	LSD	0.084	0.075	6.79	3.1	0.078	10.4	0.986	0.035	102	8.7

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
1404	PHY 499WRF*	1535	1920	44.4	11.7	6.42	3.68	19.64	0.63	0.65	1.27
1441	FM 2484B2F	.	.	.	.	.	.	.	.	.	.
1503	FM 1830GLT	1485	1898	43.9	9.6	6.33	.	.	.	.	.
1516	DP 1646B2XF*	2112	2500	45.8	8.4	5.52	3.29	13.43	0.57	0.48	1.05
1535	NG 4545B2XF*	1868	2537	42.4	10.1	6.83	3.37	20.93	0.88	0.75	1.63
1536	PHY 764WRF*	1878	2487	43.0	10.6	6.51	3.56	18.51	0.59	0.44	1.03
1537	DP 1522B2XF	1928	2499	43.5	10.1	5.96	.	.	.	.	.
1553	ACALA DAYTONA RF	1428	1857	43.4	10.9	6.09	.	.	.	.	.
1554	DP 1549 B2XF	2138	2518	45.9	8.7	5.85	.	.	.	.	.
	LSD	448	533	0.774		0.737	0.644	3.18	0.093	0.054	0.145

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF*	3.93	0.84	1.32	86.0	.	31.9	7.3	68.2	.	.	.

1441	FM 2484B2F	.	.	.	.	.	.	.	.	.	.	.
1503	FM 1830GLT	4.09	0.85	1.29	84.7	.	33.8	6.3	71.0	.	.	.
1516	DP 1646B2XF*	4.10	0.84	1.29	84.5	.	31.1	8.7	69.1	.	.	.
1535	NG 4545B2XF*	4.58	0.86	1.17	83.2	.	31.7	5.6	70.8	.	.	.
1536	PHY 764WRF*	3.56	0.84	1.25	84.4	.	37.5	7.8	67.2	.	.	.
1537	DP 1522B2XF	4.44	0.85	1.26	85.1	.	32.9	9.0	63.6	.	.	.
1553	ACALA DAYTONA RF	4.01	0.85	1.27	85.9	.	36.9	6.9	69.2	.	.	.
1554	DP 1549 B2XF	4.32	0.85	1.31	84.4	.	30.1	8.6	70.9	.	.	.
	LSD	1.05	0.031	0.076	2.19	1.56	2.56	1.12	8.24	0.81	.	.

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 Count
1404	PHY 499WRF*	0.78	1.05	32.7	10.2	1.32	158.0	6.3	0.90	205	19
1441	FM 2484B2F	.	.	.	.	.	.	.	.	.	.
1503	FM 1830GLT	0.86	1.09	25.1	7.5	1.32	160.5	5.7	0.92	182	26
1516	DP 1646B2XF*	0.80	1.04	28.9	9.4	1.29	161.0	6.5	0.89	151	15
1535	NG 4545B2XF*	0.81	1.00	25.4	8.0	1.21	178.0	5.4	0.94	117	14
1536	PHY 764WRF*	0.84	1.06	25.9	7.9	1.29	155.5	6.6	0.89	175	35
1537	DP 1522B2XF	0.82	1.04	26.1	7.9	1.26	162.5	6.4	0.90	151	23
1553	ACALA DAYTONA RF	0.82	1.05	26.1	8.0	1.27	152.0	6.4	0.89	176	34
1554	DP 1549 B2XF	0.85	1.08	25.2	7.7	1.32	164.0	6.5	0.90	116	16
	LSD	0.034	0.035	4.06	1.7	0.056	22.3	1.61	0.066	117	16.8

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
1404	PHY 499WRF*	1485	1873	43.9	.	6.00	3.58	22.09	0.74	0.55	1.29
1441	FM 2484B2F	1645	2083	44.1	.	5.76	.	.	.	.	.
1503	FM 1830GLT	1632	1852	46.8	.	5.82	.	.	.	.	.
1516	DP 1646B2XF*	1493	1754	45.9	.	6.23	3.31	17.06	0.67	0.64	1.31
1535	NG 4545B2XF*	1321	1661	44.5	.	6.34	2.79	23.40	0.97	0.88	1.85
1536	PHY 764WRF*	1614	2306	41.1	.	6.60	3.21	22.89	0.65	0.53	1.18

1537	DP 1522B2XF	1304	1637	44.4	.	6.24	.	.	.	.	.	
1553	ACALA DAYTONA RF	1225	1498	44.8	.	6.06	.	.	.	.	.	
1554	DP 1549 B2XF	1530	2051	42.5	.	5.79	.	.	.	.	.	
	LSD	463	539	2.52	.	1.01	0.363	1.54	0.14	0.126	0.258	

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF*	4.65	0.85	1.32	85.6	.	34.5	9.5	77.5	.	.	.
1441	FM 2484B2F	4.50	0.86	1.32	85.6	.	30.8	8.1	81.0	.	.	.
1503	FM 1830GLT	4.43	0.86	1.32	86.1	.	31.8	6.9	81.4	.	.	.
1516	DP 1646B2XF*	4.27	0.84	1.34	84.9	.	29.0	10.1	81.0	.	.	.
1535	NG 4545B2XF*	4.80	0.87	1.23	86.5	.	34.5	6.8	79.5	.	.	.
1536	PHY 764WRF*	4.16	0.85	1.29	86.0	.	36.5	7.4	75.7	.	.	.
1537	DP 1522B2XF	4.49	0.85	1.26	85.7	.	30.8	10.2	76.3	.	.	.
1553	ACALA DAYTONA RF	4.17	0.85	1.25	86.4	.	34.1	7.8	78.2	.	.	.
1554	DP 1549 B2XF	4.3	0.85	1.23	85.1	.	31.5	7.45	78.3	.	.	.
	LSD	0.813	0.024	0.093	2.83	1.09	3.97	0.81	4.32	2.4	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Conent Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Content	Maturity Ratio	Nep Count	Seed Coat Count
1404	PHY 499WRF*	0.85	1.04	22.7	7.0	1.23	180.5	5.4	0.94	102	13
1441	FM 2484B2F	0.93	1.12	19.8	5.9	1.36	177.5	5.1	0.95	69	10
1503	FM 1830GLT	0.92	1.12	19.8	5.8	1.35	179.5	3.9	1.00	102	10
1516	DP 1646B2XF*	0.89	1.11	23.3	7.0	1.37	173.0	5.2	0.92	108	9
1535	NG 4545B2XF*	0.89	1.06	19.4	5.7	1.25	198.0	5.2	0.97	59	7
1536	PHY 764WRF*	0.94	1.11	17.6	5.2	1.31	186.0	5.3	0.96	96	22
1537	DP 1522B2XF	0.82	1.02	25.6	8.4	1.25	182.5	6.4	0.92	155	24
1553	ACALA DAYTONA RF	0.92	1.09	16.8	5.1	1.28	177.5	5.1	0.96	73	16
1554	DP 1549 B2XF	0.84	1.04	24.1	7.6	1.27	182.5	5.7	0.96	79	10
	LSD	0.076	0.062	5.17	2.34	0.065	16.3	1.88	0.051	34.5	19

2019 National Cotton Variety Test

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PIMA REGION

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

Regional Summaries For Pima Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1513	DP 348RF	1160	1653	40.6	14.2	4.42	3.71	20.86	0.52	0.53	1.05
1532	PHY 881RF	1289	1801	41.1	15.0	4.93	3.65	20.25	0.67	0.67	1.34
1555	PHY 888RF	1241	1801	39.9	14.6	4.88	3.57	22.39	0.64	0.65	1.29
1579	DP 341RF	1435	2067	40.8	14.2	4.41	3.59	21.39	0.44	0.48	0.92
1597	DP 359RF	1347	1888	41.5	13.7	4.67	3.58	19.61	0.52	0.56	1.08
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1513	DP 348RF	4.57	0.87	1.44	87.7	.	44.6	7.2	66.7	.	.	.
1532	PHY 881RF	4.43	0.86	1.49	87.2	.	45.2	7.8	68.8	.	.	.
1555	PHY 888RF	4.25	0.86	1.53	87.8	.	45.1	7.1	62.6	.	.	.
1579	DP 341RF	4.11	0.86	1.51	88.0	.	47.8	6.5	65.9	.	.	.
1597	DP 359RF	4.41	0.86	1.43	87.2	.	46.2	6.8	64.5	.	.	.
	LSD	0.98	0.03	0.07	2.6	.	6.6	0.6	14.5	2.8	.	.

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
1513	DP 348RF	0.93	1.18	22.4	5.8	1.44	154.3	4.7	0.96	102	16
1532	PHY 881RF	0.96	1.19	21.1	5.7	1.46	162.5	4.3	0.98	91	12
1555	PHY 888RF	0.92	1.22	27.4	7.5	1.54	146.8	6.0	0.94	141	14
1579	DP 341RF	0.95	1.24	24.8	6.0	1.53	143.3	5.3	0.96	123	11
1597	DP 359RF	0.95	1.21	23.2	5.6	1.48	154.0	4.9	0.97	94	10
	LSD	0.14	0.11	9.3	3.4	0.10	16.0	1.1	0.03	51	12

Pima Summary By Location Sites

Location	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
Five Points, CA	1695	2314	42.3	14.3	4.45	3.88	21.84	0.54	0.59	1.13
Las Cruces, NM	894	1370	39.2	.	4.87	3.36	19.95	0.74	0.62	1.35

Location	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Five Points, CA	4.86	0.88	1.47	87.2	.	48.5	7.0	57.6	.	.	.
Las Cruces, NM	3.84	0.85	1.49	88.0	.	43.1	7.1	73.8	.	.	.

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 Points, CA	0.82	1.05	26.9	8.3	1.28	161.4	6.2	0.90	159	22
Las Cruces, NM	0.89	1.08	21.0	6.4	1.29	181.9	5.3	0.95	93	13
Maricopa, AZ	0.77	0.95	25.6	8.7	1.14	180.8	5.0	0.96	123	10

Pima 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

1513	DP 348RF	1665	2290	42.2	14.2	4.40	4.16	21.17	0.52	0.53	1.05
1532	PHY 881RF	1733	2313	42.8	15.0	4.51	3.78	22.37	0.63	0.68	1.30
1555	PHY 888RF	1711	2324	42.4	14.6	4.60	3.76	22.39	0.61	0.70	1.31
1579	DP 341RF	1807	2554	41.5	14.2	4.44	3.93	22.90	0.44	0.48	0.92
1597	DP 359RF	1559	2089	42.8	13.7	4.32	3.77	20.40	0.52	0.56	1.08
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1513	DP 348RF	5.08	0.88	1.44	87.8	.	48.9	6.9	57.0	.	.	.
1532	PHY 881RF	4.77	0.87	1.51	88.1	.	49.9	7.5	60.7	.	.	.
1555	PHY 888RF	4.74	0.87	1.50	85.5	.	46.3	6.9	53.9	.	.	.
1579	DP 341RF	4.85	0.88	1.50	87.7	.	50.3	6.8	59.2	.	.	.
1597	DP 359RF	4.88	0.88	1.41	86.8	.	46.9	6.6	57.2	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

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 Count
1513	DP 348RF	0.91	1.19	24.6	6.3	1.46	144.0	5.1	0.95	99	24
1532	PHY 881RF	0.94	1.21	24.0	6.2	1.48	159.0	4.6	0.98	58	14
1555	PHY 888RF	0.78	1.14	37.5	11.1	1.48	142.5	7.0	0.91	140	21
1579	DP 341RF	0.91	1.21	27.0	6.8	1.52	148.5	5.1	0.98	81	16
1597	DP 359RF	0.91	1.20	26.5	6.7	1.49	156.0	4.9	0.98	68	14
	LSD	.	.	.	.	.	.	.	.	.	.

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
1513	DP 348RF	655	1017	39.1	.	4.45	3.25	20.55	.	.	.
1532	PHY 881RF	846	1288	39.4	.	5.36	3.52	18.13	0.77	0.66	1.43

1555	PHY 888RF	771	1278	37.5	.	5.16	3.39	22.39	0.70	0.57	1.27	
1579	DP 341RF	1064	1580	40.2	.	4.38	3.24	19.89	.	.	.	
1597	DP 359RF	1136	1688	40.2	.	5.01	3.38	18.82	.	.	.	
	LSD	.	.	.	.	.	.	.	.	.	.	

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1513	DP 348RF	4.06	0.85	1.43	87.6	.	40.3	7.4	76.4	.	.	.
1532	PHY 881RF	4.10	0.85	1.47	86.2	.	40.6	8.0	76.9	.	.	.
1555	PHY 888RF	3.76	0.84	1.57	90.1	.	43.8	7.2	71.4	.	.	.
1579	DP 341RF	3.38	0.84	1.52	88.4	.	45.3	6.2	72.6	.	.	.
1597	DP 359RF	3.93	0.85	1.46	87.7		45.5	6.9	71.8	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	

vcode	Variety	Number	Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Fineness	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Count
1513	DP 348RF	7.50	0.95	20.3	5.3	1.41	164.5	4.35	0.97	104	8
1532	PHY 881RF	10.00	0.98	18.3	5.2	1.43	166	4.02	0.99	125	10
1555	PHY 888RF	6.50	1.06	17.2	3.9	1.59	151	4.9	0.97	142	7
1579	DP 341RF	6.00	0.99	22.7	5.2	1.55	138	5.45	0.95	165	6
1597	DP 359RF	5.00	0.98	19.9	4.6	1.48	152	4.92	0.96	120	5
	LSD	.	.	.	.	.	.	.	.	.	.

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REGIONAL HIGH QUALITY

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

Regional Summaries For Regional High Quality Varieties

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	1517	2199	42.0	9.4	5.03	3.20	15.59	0.57	0.40	0.97
1516	DP 1646B2XF	1632	2266	43.1	8.3	5.11	3.15	17.02	0.63	0.51	1.15
1536	PHY 764WRF	1261	2071	38.8	10.3	5.39	3.31	21.05	0.57	0.42	0.99
1556	FM 2574GLT	1389	1777	44.4	8.7	5.13	3.39	15.61	0.58	0.39	0.97
1557	ST 5020GLT	1612	2605	39.8	10.2	5.11	2.96	19.54	0.85	0.53	1.38
1558	DP 1845B3XF	1554	2136	42.4	8.3	4.96	3.21	17.56	0.58	0.42	1.01
1559	DP 1820B3XF	1431	1989	42.8	9.2	4.65	3.22	16.55	0.51	0.35	0.85
1567	TAM KJ-Q14	1145	2163	36.1	11.4	5.84	2.74	21.24	0.80	0.56	1.36
1569	PHY 480W3FE	1639	2479	41.4	9.1	5.00	2.61	19.83	0.88	0.64	1.52
1580	LA 14063083	1280	1988	40.2	9.9	5.31	3.40	18.65	0.63	0.44	1.07
1581	LA 14063075	892	1285	39.2	9.0	5.14	3.55	16.63	0.66	0.42	1.08
1582	ARK 1112-49	1512	2291	41.3	9.0	4.90	3.49	17.21	0.56	0.38	0.93
1583	ARK 1110-11	1460	2364	39.3	8.9	5.21	2.99	18.91	0.61	0.39	1.01
1584	ARK 1110-49	1424	2354	39.1	10.0	5.63	3.19	18.11	0.67	0.39	1.06
1585	NM 18B1587	1281	2149	38.8	9.3	5.00	3.09	21.83	0.73	0.47	1.20
1586	NM 18B1589	1295	1964	39.8	9.1	5.13	3.30	17.47	0.67	0.42	1.09
1587	NM 18B1593	1394	2219	40.3	9.2	4.76	3.30	17.14	0.69	0.43	1.12
1588	TAM 14H-29	1109	2227	34.6	11.6	5.63	2.95	20.64	0.72	0.53	1.25
1589	PHY 350W3FE	1432	2161	41.3	9.8	4.88	2.83	19.20	0.87	0.61	1.48
	LSD	305	.	2.79	.	0.421	.	.	.	.	.

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.49	0.86	1.24	84.6	.	33.6	6.3	78.7	.	.	.
1516	DP 1646B2XF	4.60	0.85	1.25	84.6	.	30.7	8.5	78.1	.	.	.
1536	PHY 764WRF	4.15	0.85	1.22	85.0	.	36.8	7.2	76.4	.	.	.
1556	FM 2574GLT	4.71	0.87	1.23	84.7	.	33.5	6.3	78.6	.	.	.
1557	ST 5020GLT	4.53	0.86	1.25	85.4	.	34.0	7.9	75.8	.	.	.
1558	DP 1845B3XF	4.32	0.85	1.28	84.8	.	33.4	8.7	77.7	.	.	.
1559	DP 1820B3XF	4.77	0.87	1.24	84.7	.	34.5	6.0	77.1	.	.	.
1567	TAM KJ-Q14	4.52	0.86	1.24	84.7	.	36.1	6.4	76.4	.	.	.
1569	PHY 480W3FE	4.34	0.85	1.19	85.6	.	31.4	8.9	76.9	.	.	.
1580	LA 14063083	4.53	0.86	1.21	85.2	.	33.4	7.7	77.2	.	.	.
1581	LA 14063075	4.36	0.86	1.26	85.1	.	34.6	6.4	77.3	.	.	.
1582	ARK 1112-49	4.33	0.85	1.27	85.5	.	33.5	7.1	76.9	.	.	.

1583	ARK 1110-11	4.41	0.85	1.26	86.2	.	32.8	7.7	75.0	.	.	.
1584	ARK 1110-49	4.64	0.86	1.28	84.8	.	31.2	6.5	76.9	.	.	.
1585	NM 18B1587	4.42	0.86	1.20	83.9	.	33.1	6.7	76.6	.	.	.
1586	NM 18B1589	4.59	0.86	1.22	84.9	.	34.9	6.8	77.2	.	.	.
1587	NM 18B1593	4.35	0.86	1.24	84.8	.	34.6	6.9	75.7	.	.	.
1588	TAM 14H-29	3.93	0.85	1.42	86.5	.	37.9	6.7	76.0	.	.	.
1589	PHY 350W3FE	4.67	0.86	1.18	84.7	.	31.6	7.7	77.3	.	.	.
	LSD	0.38	0.011	0.043	0.89	0.73	1.17	0.57	2.34	0.87	.	.

vcode	Variety	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Finenss	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Number Count
1503	FM 1830GLT	0.89	1.08	20.4	5.9	1.28	174.2	4.5	0.97	109	8
1516	DP 1646B2XF	0.86	1.06	22.2	6.8	1.27	178.7	4.8	0.95	106	8
1536	PHY 764WRF	0.85	1.04	21.8	6.7	1.24	168.3	5.6	0.93	138	15
1556	FM 2574GLT	0.86	1.06	21.6	6.4	1.26	173.4	4.7	0.96	102	10
1557	ST 5020GLT	0.82	1.03	24.9	7.7	1.25	177.3	5.4	0.94	135	11
1558	DP 1845B3XF	0.82	1.05	26.7	8.2	1.28	168.9	5.7	0.92	145	8
1559	DP 1820B3XF	0.86	1.06	22.1	6.8	1.27	181.9	4.5	0.98	93	7
1567	TAM KJ-Q14	0.86	1.05	21.1	6.4	1.26	175.6	4.4	0.97	111	11
1569	PHY 480W3FE	0.82	1.01	23.2	7.2	1.20	175.8	5.3	0.93	131	9
1580	LA 14063083	0.87	1.05	20.9	6.2	1.25	178.1	5.1	0.94	111	8
1581	LA 14063075	0.92	1.10	18.0	5.3	1.30	174.8	4.8	0.96	100	9
1582	ARK 1112-49	0.87	1.07	21.6	6.3	1.27	171.8	5.0	0.95	112	7
1583	ARK 1110-11	0.89	1.08	19.7	5.6	1.28	174.5	5.0	0.94	102	9
1584	ARK 1110-49	0.89	1.09	21.2	6.2	1.32	178.4	4.8	0.96	110	9
1585	NM 18B1587	0.83	1.03	23.5	7.4	1.23	173.5	4.7	0.96	121	9
1586	NM 18B1589	0.86	1.04	20.3	6.1	1.24	174.3	4.2	0.98	108	9
1587	NM 18B1593	0.85	1.04	21.7	6.6	1.25	171.0	4.4	0.97	133	13
1588	TAM 14H-29	0.94	1.18	22.3	6.1	1.44	164.4	5.2	0.95	163	13
1589	PHY 350W3FE	0.81	1.00	24.5	7.9	1.20	183.7	4.8	0.95	131	13
	LSD	.	.	.	.	.	.	.	.	.	.

Regional High Quality 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	1141	2600	30.6	9.2	5.07	3.28	17.39	0.61	0.45	1.06
College Statio, TX	1115	1517	42.5	9.0	4.75	2.75	18.97	0.69	0.44	1.13
Saint Joseph, LA	2435	3716	39.3	11.3	5.46	.	.	.	.	.

Stoneville, MS	2045	2875	42.5	10.0	5.04	3.84	17.46	0.56	0.37	0.94
Florence, SC	1079	1337	44.5	8.2	4.20	2.96	19.23	0.77	0.52	1.30
Portageville, MO	1244	1795	41.3	10.1	5.29	.	.	.	.	.
Las Cruces, NM	1388	1821	43.1	.	5.98	.	.	.	.	.
Keiser, AR	696	825	41.7	8.8	5.27	.	.	.	.	.

Location	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Lubbock, TX	4.60	0.86	1.21	83.2	.	33.7	7.7	79.6	.	.	.
College Statio, TX	4.61	0.86	1.22	84.3	.	34.0	6.2	70.4	.	.	.
Saint Joseph, LA	4.89	0.87	1.29	86.5	.	36.1	6.1	73.2	.	.	.
Florence, SC	4.63	0.86	1.16	84.8	.	32.9	8.2	79.3	.	.	.
Portageville, MO	4.26	0.85	1.28	85.8	.	33.3	7.3	80.2	.	.	.
Las Cruces, NM	4.37	0.85	1.31	85.5	.	32.1	8.1	79.3	.	.	.
Keiser, AR	3.83	0.84	1.24	85.1	.	34.2	6.7	76.5	.	.	.

Location	Length Number	Length Weight	Short Fiber Content Number	Short Fiber Content Weight	UQL Wt.	Finenss	Immature Fiber Content	Maturity Ratio	Nep Count	Seed Coat Number Count
Lubbock, TX	0.80	1.01	26.0	8.3	1.23	172.0	5.8	0.93	195	9
College Statio, TX	0.81	1.02	25.3	7.7	1.23	168.9	5.4	0.93	124	20
Saint Joseph, LA	0.94	1.12	17.7	4.8	1.32	187.3	4.5	0.99	80	6
Stoneville, MS	0.87	1.06	19.9	5.9	1.26	176.5	4.2	0.96	59	7
Jackson, TN	0.89	1.08	21.2	6.1	1.29	188.0	4.0	1.00	112	9
Florence, SC	0.79	0.97	23.6	7.6	1.16	177.0	4.7	0.96	104	8
Portageville, MO	0.91	1.10	19.2	5.6	1.31	167.5	5.3	0.92	105	6
Las Cruces, NM	0.90	1.11	21.7	6.4	1.34	175.5	4.5	0.96	104	10
Keiser, AR	0.86	1.05	21.3	6.6	1.26	161.4	5.0	0.94	129	11

Regional High Quality Region Individual Location Summaries

Location: Keiser, AR

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	597	771	43.1	8.8	5.36	.	.	.	.	.
1516	DP 1646B2XF*	793	950	44.1	7.5	5.64	.	.	.	.	.
1536	PHY 764WRF*	637	844	41.3	9.1	5.85	.	.	.	.	.
1556	FM 2574GLT	546	465	45.1	8.1	5.58	.	.	.	.	.
1557	ST 5020GLT	714	857	41.5	10.2	5.30	.	.	.	.	.
1558	DP 1845B3XF	717	693	43.5	7.4	5.29	.	.	.	.	.
1559	DP 1820B3XF	617	743	44.7	8.4	4.75	.	.	.	.	.
1567	TAM KJ-Q14	572	745	36.9	10.2	5.56	.	.	.	.	.
1569	PHY 480W3FE	783	900	42.2	8.5	5.04	.	.	.	.	.
1580	LA 14063083	575	749	41.2	9.3	5.11	.	.	.	.	.
1581	LA 14063075	611	656	40.1	7.3	4.46	.	.	.	.	.
1582	ARS 1112-49	726	808	42.9	8.5	4.24	.	.	.	.	.
1583	ARK 1110-11	745	899	41.0	8.5	6.40	.	.	.	.	.
1584	ARK 1110-49	761	953	40.7	9.2	4.73	.	.	.	.	.
1585	NM 18B1587	683	711	41.7	8.5	5.49	.	.	.	.	.
1586	NM 18B1589	902	1008	42.0	8.8	5.75	.	.	.	.	.
1587	NM 18B1593	816	1085	41.2	8.3	5.19	.	.	.	.	.
1588	TAM 14H-29	549	906	36.3	11.3	5.85	.	.	.	.	.
1589	PHY 350W3FE	884	940	43.0	9.6	4.48	.	.	.	.	.
	LSD	248	341	1.16	1.06	1.4	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.76	0.87	1.18	83.3	.	32.5	6.6	80.9	6.9	.	.
1516	DP 1646B2XF*	4.78	0.85	1.23	83.2	.	30.1	9.8	81.0	7.7	.	.
1536	PHY 764WRF*	4.45	0.86	1.21	84.0	.	38.6	7.6	78.9	7.9	.	.
1556	FM 2574GLT	4.89	0.87	1.21	82.8	.	34.1	6.8	81.2	7.0	.	.
1557	ST 5020GLT	4.61	0.86	1.20	83.3	.	33.2	8.4	77.4	8.0	.	.
1558	DP 1845B3XF	4.55	0.85	1.24	82.5	.	33.0	9.7	80.7	7.5	.	.
1559	DP 1820B3XF	5.03	0.87	1.21	83.1	.	35.0	6.8	79.9	7.6	.	.
1567	TAM KJ-Q14	4.62	0.86	1.18	82.4	.	34.7	6.8	78.6	7.6	.	.
1569	PHY 480W3FE	4.34	0.85	1.17	84.2	.	31.8	9.7	79.4	8.2	.	.
1580	LA 14063083	4.59	0.86	1.19	83.9	.	33.9	8.2	79.1	8.1	.	.
1581	LA 14063075	4.51	0.86	1.23	83.1	.	34.0	6.8	80.3	7.5	.	.
1582	ARS 1112-49	4.39	0.86	1.26	84.2	.	34.2	7.0	79.9	7.3	.	.
1583	ARK 1110-11	4.33	0.85	1.28	85.9	.	33.1	7.6	78.1	8.3	.	.
1584	ARK 1110-49	4.76	0.87	1.25	83.4	.	31.9	6.5	80.9	7.0	.	.

1585	NM 18B1587	4.60	0.86	1.13	80.0	.	31.4	6.9	80.2	8.1	.	.
1586	NM 18B1589	4.81	0.87	1.17	82.1	.	34.6	6.9	80.2	7.3	.	.
1587	NM 18B1593	4.59	0.86	1.21	83.4	.	34.8	8.1	78.6	8.6	.	.
1588	TAM 14H-29	4.00	0.85	1.40	83.5	.	38.1	7.3	78.1	8.1	.	.
1589	PHY 350W3FE	4.77	0.86	1.15	83.3	.	30.8	8.4	79.5	7.6	.	.
	LSD	0.606	0.014	0.05	2.39	1.24	1.95	0.527	2.17	0.448	.	.

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 Count
1503	FM 1830GLT	0.88	1.08	20.9	6.5	1.29	157.5	4.9	0.95	148	14
1516	DP 1646B2XF*	0.88	1.07	20.7	6.3	1.28	170.0	4.9	0.95	83	8
1536	PHY 764WRF*	0.84	1.04	22.7	7.1	1.24	160.0	5.2	0.94	166	23
1556	FM 2574GLT	0.87	1.06	19.6	6.0	1.26	160.5	5.2	0.95	123	9
1557	ST 5020GLT	0.86	1.06	22.3	6.6	1.27	161.5	6.0	0.93	109	14
1558	DP 1845B3XF	0.78	1.00	29.3	10.0	1.23	154.0	6.2	0.90	218	13
1559	DP 1820B3XF	0.86	1.04	20.3	6.5	1.25	174.5	4.0	0.99	90	6
1567	TAM KJ-Q14	0.87	1.05	20.5	6.4	1.25	159.0	4.5	0.96	105	8
1569	PHY 480W3FE	0.80	0.99	25.9	8.7	1.19	153.5	6.2	0.90	178	15
1580	LA 14063083	0.85	1.04	21.6	6.7	1.23	164.5	4.9	0.95	135	8
1581	LA 14063075	0.87	1.06	19.6	6.2	1.26	154.0	4.8	0.95	134	8
1582	ARS 1112-49	0.91	1.08	18.0	5.1	1.27	162.0	4.6	0.96	130	5
1583	ARK 1110-11	0.93	1.11	17.5	4.7	1.31	165.5	4.8	0.94	96	8
1584	ARK 1110-49	0.90	1.08	19.2	5.6	1.30	171.0	4.2	0.97	108	7
1585	NM 18B1587	0.88	1.05	18.6	5.6	1.24	165.0	4.2	0.96	110	13
1586	NM 18B1589	0.88	1.05	18.7	5.6	1.25	159.5	4.2	0.97	121	16
1587	NM 18B1593	0.84	1.03	21.3	6.6	1.23	153.5	4.9	0.94	131	16
1588	TAM 14H-29	0.95	1.18	21.2	5.7	1.44	154.0	5.4	0.95	130	11
1589	PHY 350W3FE	0.79	0.99	26.4	8.8	1.19	167.5	5.5	0.93	141	12
	LSD	0.096	0.076	6.93	3.02	0.069	12	1.15	0.035	87.2	6.67

Location: Saint Joseph, LA

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	2666	3846	40.9	10.9	5.28	.	.	.	.	.
1516	DP 1646B2XF*	3033	4065	42.7	9.9	5.37	.	.	.	.	.
1536	PHY 764WRF*	2253	3708	37.7	11.7	5.25	.	.	.	.	.
1556	FM 2574GLT	2027	2590	43.9	10.0	5.17	.	.	.	.	.
1557	ST 5020GLT	3455	5208	39.9	12.1	5.55	.	.	.	.	.
1558	DP 1845B3XF	2692	3622	42.6	9.8	5.23	.	.	.	.	.

1559	DP 1820B3XF	2257	2989	43.0	10.7	4.86	.	.	.	.	.	
1567	TAM KJ-Q14	1592	3042	34.2	14.0	6.13	.	.	.	.	.	
1569	PHY 480W3FE	3217	4612	41.0	11.0	4.90	.	.	.	.	.	
1580	LA 14063083	1951	3055	39.1	11.8	5.63	.	.	.	.	.	
1581	LA 14063075	.	.	38.3	10.8	5.65	.	.	.	.	.	
1582	ARS 1112-49	3524	5026	41.2	11.0	5.56	.	.	.	.	.	
1583	ARK 1110-11	2580	4224	38.0	10.6	5.46	.	.	.	.	.	
1584	ARK 1110-49	3068	4775	39.1	11.8	6.43	.	.	.	.	.	
1585	NM 18B1587	1761	3098	36.2	11.1	5.38	.	.	.	.	.	
1586	NM 18B1589	1728	2706	38.9	10.9	5.46	.	.	.	.	.	
1587	NM 18B1593	2458	3866	38.7	11.6	5.48	.	.	.	.	.	
1588	TAM 14H-29	1687	3422	33.0	13.4	5.84	.	.	.	.	.	
1589	PHY 350W3FE	1889	3032	38.4	11.2	5.13	.	.	.	.	.	
	LSD	615	885	1.58	0.534	0.411	.	.	.	.	.	

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	5.12	0.88	1.29	86.5	.	36.1	5.1	73.4	6.2	.	.
1516	DP 1646B2XF*	4.84	0.86	1.3	86.2	.	31.4	7.2	73.4	6.4	.	.
1536	PHY 764WRF*	4.65	0.87	1.23	86.6	.	39.8	6.7	71.8	7.0	.	.
1556	FM 2574GLT	5.28	0.89	1.26	86.9	.	37.2	5.3	76.2	6.2	.	.
1557	ST 5020GLT	5.36	0.88	1.28	86.4	.	35.1	7.1	71.5	6.7	.	.
1558	DP 1845B3XF	4.71	0.86	1.33	86.7	.	35.9	7.8	75.0	6.8	.	.
1559	DP 1820B3XF	4.97	0.88	1.3	86.8	.	35.8	5.0	71.9	7.0	.	.
1567	TAM KJ-Q14	4.99	0.88	1.3	85.8	.	39.5	5.5	74.6	7.4	.	.
1569	PHY 480W3FE	4.95	0.86	1.25	87.2	.	33.7	8.2	73.3	7.5	.	.
1580	LA 14063083	4.96	0.87	1.23	86.0	.	35.9	7.0	73.2	7.3	.	.
1581	LA 14063075	4.78	0.87	1.33	86.8	.	35.9	5.6	73.0	6.8	.	.
1582	ARS 1112-49	4.72	0.87	1.31	86.9	.	34.3	5.7	73.0	6.8	.	.
1583	ARK 1110-11	4.64	0.86	1.27	87.4	.	33.6	6.6	69.1	6.7	.	.
1584	ARK 1110-49	5.04	0.88	1.31	85.9	.	31.8	5.1	72.3	6.0	.	.
1585	NM 18B1587	4.95	0.88	1.21	84.6	.	35.9	5.6	73.8	7.3	.	.
1586	NM 18B1589	5.05	0.88	1.29	86.2	.	38.6	5.3	74.6	6.9	.	.
1587	NM 18B1593	4.92	0.88	1.3	85.7	.	37.7	6.1	73.2	6.5	.	.
1588	TAM 14H-29	4.11	0.86	1.49	88.5	.	41.2	6.1	73.6	7.6	.	.
1589	PHY 350W3FE	4.95	0.88	1.29	86.6	.	36.6	5.8	75.1	6.7	.	.
	LSD	0.314	0.01	0.038	1.15	0.691	3.31	0.66	5.7	1.05	.	.

	Length	Length	Short Fiber Content	Short Fiber Content			Immature Fiber	Maturity	Nep	Seed Coat	

vcode	Variety	Number	Weight	Number	Weight	UQL Wt.	Fineness	Content	Ratio	Count	Count
1503	FM 1830GLT	0.98	1.15	16.1	4.1	1.35	184.0	5.5	0.97	65	5
1516	DP 1646B2XF*	0.93	1.12	19.1	5.3	1.34	201.5	3.0	1.05	69	8
1536	PHY 764WRF*	0.88	1.06	19.0	5.5	1.24	179.5	6.7	0.93	93	11
1556	FM 2574GLT	0.96	1.12	15.8	4.2	1.3	188.0	5.4	0.98	49	4
1557	ST 5020GLT	0.87	1.07	22.4	6.5	1.28	197.0	5.9	0.96	78	5
1558	DP 1845B3XF	0.89	1.11	23.5	6.6	1.34	181.5	7.0	0.93	81	7
1559	DP 1820B3XF	0.92	1.12	20.0	5.6	1.33	188.0	5.8	0.97	69	7
1567	TAM KJ-Q14	0.95	1.13	15.8	4.2	1.34	186.5	3.2	1.03	84	4
1569	PHY 480W3FE	0.92	1.09	16.9	4.6	1.26	190.5	3.9	0.99	76	1
1580	LA 14063083	0.89	1.08	19.0	5.3	1.27	188.0	6.2	0.94	75	10
1581	LA 14063075	1.02	1.18	13.7	3.4	1.38	190.5	5.3	0.97	57	3
1582	ARS 1112-49	0.96	1.14	17.5	4.6	1.34	186.0	3.7	1.02	88	3
1583	ARK 1110-11	0.96	1.13	15.5	4.0	1.31	190.0	3.5	1.01	87	4
1584	ARK 1110-49	0.98	1.15	15.9	4.0	1.35	192.0	3.3	1.03	61	4
1585	NM 18B1587	0.86	1.06	20.5	5.7	1.25	180.5	4.0	0.99	88	8
1586	NM 18B1589	0.94	1.12	16.4	4.3	1.31	190.0	3.2	1.03	66	3
1587	NM 18B1593	0.99	1.15	14.8	3.7	1.35	187.0	2.9	1.03	78	8
1588	TAM 14H-29	1.05	1.28	17.7	4.2	1.54	169.5	4.4	0.99	169	10
1589	PHY 350W3FE	0.94	1.12	16.9	4.6	1.31	189.0	2.9	1.03	89	8
	LSD	.	.	.	.	.	.	.	.	.	.

Location: Portageville, MO

vcode	Variety	Lint Yield (lb/a)	Seed Yield (lb/a)	Lint Percent	Seed Index	Boll Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1503	FM 1830GLT	1352	1905	42.6	10.0	5.52	.	.	.	.	.
1516	DP 1646B2XF*	1497	1952	43.7	9.0	4.93	.	.	.	.	.
1536	PHY 764WRF*	958	1398	40.1	11.0	5.71	.	.	.	.	.
1556	FM 2574GLT	1357	1729	45.6	10.0	5.26	.	.	.	.	.
1557	ST 5020GLT	1463	2505	40.0	10.0	4.78	.	.	.	.	.
1558	DP 1845B3XF	1569	2018	42.7	9.0	4.73	.	.	.	.	.
1559	DP 1820B3XF	1764	2051	44.8	10.0	4.71	.	.	.	.	.
1567	TAM KJ-Q14	910	1878	37.0	13.0	6.32	.	.	.	.	.
1569	PHY 480W3FE	1373	1721	42.9	10.0	4.94	.	.	.	.	.
1580	LA 14063083	1156	1712	40.1	10.0	5.62	.	.	.	.	.
1581	LA 14063075	593	911	40.7	10.0	5.06	.	.	.	.	.
1582	ARS 1112-49	1284	1782	42.5	9.0	5.15	.	.	.	.	.
1583	ARK 1110-11	1261	1754	40.1	10.0	5.39	.	.	.	.	.
1584	ARK 1110-49	1181	1834	40.5	11.0	6.17	.	.	.	.	.
1585	NM 18B1587	1259	1648	41.6	10.0	5.99	.	.	.	.	.
1586	NM 18B1589	1084	1577	40.7	9.0	5.58	.	.	.	.	.

1580	LA 14063083	0.94	1.12	17.0	4.8	1.31	165.0	5.5	0.90	90	1
1581	LA 14063075	1.00	1.16	14.0	3.8	1.36	167.5	4.6	0.94	71	6
1582	ARS 1112-49	0.93	1.12	18.8	5.1	1.33	165.5	5.0	0.93	75	3
1583	ARK 1110-11	0.94	1.13	17.5	4.6	1.33	170.0	5.5	0.91	84	6
1584	ARK 1110-49	0.97	1.15	17.3	4.6	1.38	177.5	5.1	0.95	86	8
1585	NM 18B1587	0.95	1.12	15.8	4.3	1.32	170.5	4.7	0.95	92	9
1586	NM 18B1589	0.96	1.13	15.2	4.1	1.33	164.0	4.6	0.96	109	5
1587	NM 18B1593	0.85	1.04	22.9	7.4	1.26	164.0	5.2	0.92	183	7
1588	TAM 14H-29	0.96	1.19	20.7	5.8	1.44	160.0	5.8	0.92	144	8
1589	PHY 350W3FE	0.87	1.05	20.1	6.1	1.24	173.0	5.6	0.91	107	12
	LSD	0.077	0.07	4.65	1.99	0.077	12.2	0.617	0.028	71.2	9.12

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
1503	FM 1830GLT	2124	2574	44.0	10.1	5.12	4.12	14.97	0.48	0.32	0.80
1516	DP 1646B2XF*	2151	2640	45.9	8.2	4.76	3.57	16.71	0.57	0.50	1.07
1536	PHY 764WRF*	2008	2974	41.1	10.9	4.69	3.75	20.46	0.51	0.37	0.87
1556	FM 2574GLT	2096	2225	45.9	9.4	4.94	3.62	17.08	0.50	0.32	0.82
1557	ST 5020GLT	2104	2713	42.1	11.6	5.22	3.75	17.37	0.71	0.46	1.17
1558	DP 1845B3XF	2116	2348	45.0	8.2	4.78	3.79	17.67	0.54	0.38	0.92
1559	DP 1820B3XF	2170	2757	45.8	9.9	4.22	3.80	16.48	0.49	0.34	0.82
1567	TAM KJ-Q14	1714	2958	37.6	11.8	5.69	.	.	.	.	.
1569	PHY 480W3FE	2440	3285	44.7	8.7	4.85	.	.	.	.	.
1580	LA 14063083	2078	3078	42.1	10.2	5.46	3.95	17.44	0.58	0.38	0.96
1581	LA 14063075	2169	3279	39.5	9.6	5.20	4.13	15.82	0.58	0.36	0.93
1582	ARS 1112-49	1925	2624	43.4	9.8	4.97	4.30	16.22	0.49	0.34	0.82
1583	ARK 1110-11	2010	3369	41.0	9.1	5.19	3.65	17.84	0.55	0.36	0.91
1584	ARK 1110-49	1847	2496	41.2	10.6	5.78	3.80	18.05	0.63	0.37	1.00
1585	NM 18B1587	1981	3301	40.6	9.8	4.73	3.58	22.65	0.69	0.40	1.09
1586	NM 18B1589	2085	2940	42.5	10.2	4.97	3.79	16.39	0.55	0.35	0.90
1587	NM 18B1593	1949	2738	42.9	9.9	5.01	3.94	16.80	0.62	0.39	1.01
1588	TAM 14H-29	1960	3526	35.9	12.3	5.24	.	.	.	.	.
1589	PHY 350W3FE	1930	2792	45.3	9.6	4.93	.	.	.	.	.
	LSD	465	822	1.49	0.905	0.412	0.333	2.53	0.06	0.043	0.1

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.65	0.88	1.19	84.7	5.4	32.5	5.2	81.2	9.3	.	.

1516	DP 1646B2XF*	4.61	0.87	1.19	83.7	5.1	30.3	7.2	80.4	10.9	.	.
1536	PHY 764WRF*	4.05	0.86	1.15	83.5	5.6	35.3	6.4	78.4	10.2	.	.
1556	FM 2574GLT	5.04	0.89	1.2	83.2	5.3	31.9	5.4	79.8	9.0	.	.
1557	ST 5020GLT	4.95	0.88	1.19	84.4	5.1	33.1	6.9	79.1	10.4	.	.
1558	DP 1845B3XF	4.3	0.86	1.23	84.4	4.6	33.4	7.9	79.7	9.8	.	.
1559	DP 1820B3XF	4.67	0.88	1.2	83.2	5.5	30.5	5.7	79.6	10.1	.	.
1567	TAM KJ-Q14	4.59	0.88	1.24	85.1	4.2	37.5	5.4	78.7	9.5	.	.
1569	PHY 480W3FE	4.25	0.86	1.13	84.8	5.8	31.3	8.5	79.2	11.1	.	.
1580	LA 14063083	4.61	0.87	1.19	85.2	4.7	33.0	7.2	77.8	9.8	.	.
1581	LA 14063075	4.53	0.88	1.21	83.9	4.5	33.7	5.8	79.9	9.8	.	.
1582	ARS 1112-49	4.38	0.87	1.23	84.6	4.6	31.6	6.2	80.0	10.2	.	.
1583	ARK 1110-11	4.18	0.86	1.24	86.6	4.3	33.0	7.6	79.2	10.2	.	.
1584	ARK 1110-49	4.65	0.88	1.27	84.4	4.0	30.7	5.6	80.2	10.0	.	.
1585	NM 18B1587	4.27	0.87	1.15	82.7	7.5	29.9	5.8	79.1	9.5	.	.
1586	NM 18B1589	4.49	0.88	1.19	84.8	5.5	34.8	5.9	79.1	9.1	.	.
1587	NM 18B1593	4.67	0.88	1.19	83.4	6.1	33.2	6.4	78.4	10.1	.	.
1588	TAM 14H-29	3.85	0.86	1.37	85.6	2.6	39.9	6.5	79.1	10.2	.	.
1589	PHY 350W3FE	4.68	0.87	1.14	84.9	5.6	29.8	7.1	78.1	10.5	.	.
	LSD	0.236	0.009	0.055	1.85	1.83	2.3	0.522	1.86	0.818	.	.

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 Count
1503	FM 1830GLT	0.88	1.06	20.0	5.7	1.27	161.5	5.4	0.93	128	14
1516	DP 1646B2XF*	0.87	1.06	19.9	5.9	1.26	176.5	4.2	0.96	59	7
1536	PHY 764WRF*	0.86	1.04	20.1	6.2	1.23	157.0	6.0	0.91	173	40
1556	FM 2574GLT	0.92	1.08	16.4	4.7	1.28	167.5	4.9	0.95	91	8
1557	ST 5020GLT	0.86	1.06	22.3	6.6	1.28	171.0	5.4	0.93	125	12
1558	DP 1845B3XF	0.83	1.05	26.0	8.0	1.28	162.0	6.0	0.90	152	25
1559	DP 1820B3XF	0.87	1.06	21.6	6.6	1.29	168.0	4.9	0.95	102	6
1567	TAM KJ-Q14	0.89	1.07	19.2	5.7	1.27	164.5	5.5	0.95	109	8
1569	PHY 480W3FE	0.82	1.00	23.3	7.5	1.19	163.5	6.6	0.89	146	9
1580	LA 14063083	0.90	1.07	18.9	5.4	1.27	168.0	5.8	0.92	103	10
1581	LA 14063075	0.94	1.10	15.9	4.3	1.30	168.0	5.5	0.94	82	6
1582	ARS 1112-49	0.90	1.09	19.4	5.5	1.30	160.0	5.8	0.92	116	7
1583	ARK 1110-11	0.92	1.10	18.7	5.3	1.30	165.0	6.0	0.91	139	12
1584	ARK 1110-49	0.93	1.14	19.9	5.4	1.37	164.0	5.6	0.93	134	9
1585	NM 18B1587	0.76	0.96	28.2	9.5	1.17	157.5	6.3	0.90	179	15
1586	NM 18B1589	0.85	1.04	22.2	6.5	1.25	160.0	5.2	0.94	138	19
1587	NM 18B1593	0.82	1.02	24.6	7.6	1.24	164.0	5.7	0.93	184	17
1588	TAM 14H-29	0.95	1.17	21.3	5.8	1.44	147.0	6.4	0.91	202	14
1589	PHY 350W3FE	0.81	1.00	24.7	7.9	1.20	175.5	5.6	0.92	144	21

	LSD	0.059	0.042	4.49	1.66	0.035	10.9	0.804	0.025	43.8	12.3

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 1830GLT	1751	2147	44.9	.	5.46	.	.	.	.	.
1516	DP 1646B2XF*	1493	1754	45.9	.	6.23	.	.	.	.	.
1536	PHY 764WRF*	1614	2306	41.1	.	6.60	.	.	.	.	.
1556	FM 2574GLT	1872	2024	47.9	.	5.54	.	.	.	.	.
1557	ST 5020GLT	1528	2208	41.0	.	6.19	.	.	.	.	.
1558	DP 1845B3XF	1593	1963	44.3	.	5.72	.	.	.	.	.
1559	DP 1820B3XF	1263	1549	45.0	.	5.91	.	.	.	.	.
1567	TAM KJ-Q14	1368	2022	40.4	.	7.28	.	.	.	.	.
1569	PHY 480W3FE	1479	1970	42.7	.	5.99	.	.	.	.	.
1580	LA 14063083	1220	1562	43.8	.	6.13	.	.	.	.	.
1581	LA 14063075	682	910	43.1	.	6.01	.	.	.	.	.
1582	ARS 1112-49	1318	1696	43.5	.	5.57	.	.	.	.	.
1583	ARK 1110-11	1442	1980	42.1	.	5.48	.	.	.	.	.
1584	ARK 1110-49	1304	1861	41.2	.	6.41	.	.	.	.	.
1585	NM 18B1587	1268	1752	41.9	.	5.54	.	.	.	.	.
1586	NM 18B1589	1266	1831	41.1	.	6.01	.	.	.	.	.
1587	NM 18B1593	1605	1904	45.7	.	5.01	.	.	.	.	.
1588	TAM 14H-29	1021	1603	38.2	.	6.53	.	.	.	.	.
1589	PHY 350W3FE	1282	1556	45.2	.	5.99	.	.	.	.	.
	LSD	377	430	3.38		0.8	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.23	0.85	1.34	85.0	.	31.6	7.4	82.0	7.4	.	.
1516	DP 1646B2XF*	4.41	0.85	1.30	84.3	.	29.8	8.6	82.8	7.0	.	.
1536	PHY 764WRF*	4.22	0.85	1.28	85.2	.	34.1	8.3	79.3	7.8	.	.
1556	FM 2574GLT	4.67	0.86	1.34	85.2	.	31.8	7.5	81.0	7.0	.	.
1557	ST 5020GLT	4.35	0.85	1.31	85.7	.	32.0	8.7	77.9	8.9	.	.
1558	DP 1845B3XF	4.14	0.84	1.37	85.0		31.7	9.4	78.2	7.5		
1559	DP 1820B3XF	4.56	0.86	1.31	85.6	.	32.8	7.0	79.6	7.9	.	.
1567	TAM KJ-Q14	4.18	0.85	1.33	84.3	.	32.6	7.2	78.4	8.8	.	.
1569	PHY 480W3FE	4.21	0.84	1.25	86.0	.	29.9	9.9	79.8	9.1	.	.
1580	LA 14063083	4.35	0.85	1.25	86.0	.	31.9	8.2	79.8	8.6	.	.
1581	LA 14063075	4.58	0.86	1.32	85.5	.	33.8	7.3	78.9	8.3	.	.

1582	ARS 1112-49	4.14	0.84	1.36	86.3	.	32.3	9.2	78.8	8.0	.	.
1583	ARK 1110-11	4.43	0.85	1.23	86.0	.	32.8	8.8	80.3	7.7	.	.
1584	ARK 1110-49	4.68	0.86	1.37	85.1	.	30.6	7.5	79.2	6.7	.	.
1585	NM 18B1587	4.09	0.85	1.29	84.7	.	33.5	7.5	76.9	8.8	.	.
1586	NM 18B1589	4.64	0.86	1.27	85.7	.	33.0	7.6	79.7	8.2	.	.
1587	NM 18B1593	4.39	0.86	1.36	86.1	.	31.7	7.5	76.9	7.7	.	.
1588	TAM 14H-29	3.82	0.84	1.51	88.5	.	33.8	7.8	78.2	8.4	.	.
1589	PHY 350W3FE	4.96	0.87	1.19	85.3	.	30.9	8.5	78.8	7.9	.	.
	LSD	0.529	0.013	0.081	2.36	1.16	1.91	1.87	3.34	1.58	.	.

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 Count
1503	FM 1830GLT	0.94	1.15	19.9	5.4	1.39	174.5	3.9	0.98	83	5
1516	DP 1646B2XF*	0.87	1.07	23.6	7.5	1.32	177.0	4.5	0.94	124	6
1536	PHY 764WRF*	0.84	1.04	22.4	6.9	1.28	167.0	5.2	0.92	114	7
1556	FM 2574GLT	0.88	1.10	22.8	6.9	1.33	180.5	4.1	0.98	99	17
1557	ST 5020GLT	0.88	1.11	23.8	7.0	1.36	176.0	4.6	0.95	103	10
1558	DP 1845B3XF	0.83	1.08	28.4	8.8	1.36	163.0	5.2	0.93	138	11
1559	DP 1820B3XF	0.88	1.09	22.7	7.0	1.33	185.0	3.7	1.00	83	9
1567	TAM KJ-Q14	0.88	1.10	23.5	7.2	1.35	168.0	4.9	0.95	147	15
1569	PHY 480W3FE	0.88	1.07	21.7	6.5	1.29	173.5	4.9	0.94	112	5
1580	LA 14063083	0.92	1.11	18.7	5.4	1.32	180.5	4.0	0.98	83	8
1581	LA 14063075	0.96	1.14	16.4	4.7	1.36	181.0	3.7	0.99	72	11
1582	ARS 1112-49	0.93	1.15	21.2	5.9	1.40	170.0	4.8	0.94	97	6
1583	ARK 1110-11	0.88	1.07	21.5	6.4	1.29	174.0	4.8	0.95	84	12
1584	ARK 1110-49	0.92	1.14	21.1	6.0	1.38	184.0	4.1	0.98	93	10
1585	NM 18B1587	0.84	1.07	25.6	8.0	1.31	167.0	4.9	0.95	137	11
1586	NM 18B1589	0.90	1.08	19.5	5.7	1.28	180.5	4.3	0.97	79	8
1587	NM 18B1593	0.91	1.12	20.5	5.9	1.35	171.0	4.4	0.97	111	13
1588	TAM 14H-29	1.05	1.29	18.4	4.5	1.57	166.0	4.6	0.95	150	12
1589	PHY 350W3FE	0.89	1.08	21.0	6.0	1.28	191.5	4.4	0.96	79	12
	LSD	0.086	0.064	6.35	2.59	0.061	12.2	1.24	0.045	77.9	13.1

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	1179	1336	46.8	7.7	4.21	3.11	16.86	0.65	0.46	1.11
1516	DP 1646B2XF*	1495	1634	47.8	7.3	4.54	3.17	17.41	0.75	0.63	1.38
1536	PHY 764WRF*	900	1227	42.4	8.7	4.63	3.38	20.32	0.63	0.48	1.11

1556	FM 2574GLT	1064	1107	49.0	7.3	4.46	3.30	15.15	0.67	0.44	1.10
1557	ST 5020GLT	1214	1532	44.3	9.0	4.28	2.55	19.79	1.00	0.63	1.63
1558	DP 1845B3XF	1180	1350	46.7	7.4	4.11	2.98	18.69	0.65	0.47	1.11
1559	DP 1820B3XF	1017	1172	46.5	7.8	3.74	2.90	17.39	0.56	0.37	0.93
1567	TAM KJ-Q14	967	1450	40.0	9.7	4.91	2.63	20.86	0.88	0.62	1.50
1569	PHY 480W3FE	1236	1407	46.8	7.8	4.15	2.80	21.18	0.90	0.64	1.54
1580	LA 14063083	1259	1522	45.3	8.8	3.88	3.06	19.79	0.79	0.52	1.31
1581	LA 14063075	691	900	43.2	7.8	4.17	3.35	17.77	0.81	0.55	1.35
1582	ARS 1112-49	1047	1223	46.1	7.8	4.07	3.33	19.47	0.68	0.46	1.13
1583	ARK 1110-11	1214	1557	43.9	7.9	4.17	2.99	21.01	0.73	0.47	1.20
1584	ARK 1110-49	1051	1396	43.0	8.3	4.19	2.62	19.38	0.72	0.43	1.15
1585	NM 18B1587	848	1190	41.6	7.8	3.62	2.90	23.16	0.79	0.49	1.27
1586	NM 18B1589	957	1258	43.2	7.7	3.79	2.97	19.54	0.90	0.53	1.42
1587	NM 18B1593	1145	1427	44.5	7.9	4.25	2.96	18.14	0.83	0.55	1.38
1588	TAM 14H-29	799	1269	38.7	10.2	4.65	2.77	20.73	0.80	0.57	1.37
1589	PHY 350W3FE	1230	1447	46.0	8.4	4.08	2.50	18.68	1.01	0.69	1.70
	LSD	179	220	1.82	0.64	0.862	0.543	2.21	0.102	0.07	0.169

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.67	0.86	1.15	84.9	.	33.2	7.3	81.0	8.2	.	.
1516	DP 1646B2XF*	4.85	0.86	1.17	84.2	.	30.3	9.8	78.2	8.9	.	.
1536	PHY 764WRF*	4.11	0.84	1.14	85.6	.	34.8	8.5	78.2	9.4	.	.
1556	FM 2574GLT	4.67	0.86	1.11	84.1	.	31.5	7.1	80.5	8.1	.	.
1557	ST 5020GLT	4.82	0.86	1.18	84.8	.	33.9	9.0	78.7	8.8	.	.
1558	DP 1845B3XF	4.74	0.86	1.20	85.9	.	33.8	9.4	79.9	8.2	.	.
1559	DP 1820B3XF	5.03	0.87	1.13	83.3	.	32.6	6.4	78.2	8.5	.	.
1567	TAM KJ-Q14	4.76	0.87	1.19	85.2	.	36.7	7.4	78.8	8.9	.	.
1569	PHY 480W3FE	4.90	0.86	1.13	86.0	.	29.6	9.9	78.5	9.6	.	.
1580	LA 14063083	5.00	0.87	1.15	85.0	.	31.8	8.8	78.9	9.0	.	.
1581	LA 14063075	4.62	0.86	1.17	84.6	.	34.3	7.3	78.9	8.6	.	.
1582	ARS 1112-49	4.59	0.86	1.18	84.9	.	33.5	7.9	80.2	8.9	.	.
1583	ARK 1110-11	4.40	0.85	1.20	86.2	.	33.3	8.3	78.9	8.6	.	.
1584	ARK 1110-49	4.30	0.85	1.17	84.5	.	31.7	7.8	80.6	8.6	.	.
1585	NM 18B1587	4.33	0.85	1.11	82.8	.	29.6	7.7	80.1	9.0	.	.
1586	NM 18B1589	4.64	0.86	1.15	85.4	.	33.8	8.6	79.0	9.5	.	.
1587	NM 18B1593	4.42	0.86	1.16	84.5	.	34.1	7.9	77.6	9.0	.	.
1588	TAM 14H-29	4.13	0.85	1.34	86.2	.	37.4	7.3	78.7	9.0	.	.
1589	PHY 350W3FE	4.97	0.86	1.10	84.3	.	29.7	8.9	81.1	8.8	.	.
	LSD	0.356	0.013	0.054	1.82	1.29	2.9	0.812	2.76	0.862	.	.

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 Count
1503	FM 1830GLT	0.82	0.99	20.5	6.3	1.17	171.5	4.5	0.95	90	4
1516	DP 1646B2XF*	0.81	0.99	22.8	7.2	1.18	177.0	5.6	0.92	88	11
1536	PHY 764WRF*	0.81	0.97	21.2	6.9	1.15	164.5	6.1	0.90	105	6
1556	FM 2574GLT	0.82	0.98	19.4	6.1	1.14	180.0	3.8	0.99	76	6
1557	ST 5020GLT	0.78	0.98	27.1	8.6	1.18	178.0	5.4	0.94	117	15
1558	DP 1845B3XF	0.79	0.99	26.3	8.4	1.19	175.0	5.1	0.93	103	4
1559	DP 1820B3XF	0.77	0.96	26.2	8.8	1.15	181.0	4.7	0.96	93	4
1567	TAM KJ-Q14	0.80	0.97	21.7	7.1	1.14	178.0	4.1	0.98	85	10
1569	PHY 480W3FE	0.79	0.95	21.6	6.8	1.11	182.0	4.5	0.95	84	6
1580	LA 14063083	0.79	0.96	22.8	7.4	1.13	192.0	4.2	0.99	98	4
1581	LA 14063075	0.84	0.98	17.4	5.6	1.17	188.0	3.8	1.00	82	6
1582	ARS 1112-49	0.75	0.95	27.7	9.1	1.15	179.0	4.7	0.97	103	9
1583	ARK 1110-11	0.81	1.00	23.4	7.3	1.19	177.5	5.1	0.95	122	11
1584	ARK 1110-49	0.80	0.99	23.8	7.6	1.19	172.5	4.6	0.96	112	7
1585	NM 18B1587	0.69	0.89	32.1	11.7	1.07	164.5	5.4	0.93	119	3
1586	NM 18B1589	0.79	0.95	20.8	6.9	1.12	176.5	3.9	0.99	127	8
1587	NM 18B1593	0.77	0.96	25.1	8.1	1.14	171.5	4.5	0.97	143	12
1588	TAM 14H-29	0.90	1.12	22.4	6.4	1.36	167.5	5.0	0.97	116	10
1589	PHY 350W3FE	0.74	0.90	25.8	9.0	1.07	187.0	4.5	0.95	113	18
	LSD	0.053	0.059	3.8	2.1	0.063	10	0.91	0.035	53.1	6.51

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	1273	1575	43.9	8.8	4.65	2.65	15.76	0.58	0.38	0.96
1516	DP 1646B2XF*	1328	1521	45.9	7.5	4.21	2.47	16.82	0.60	0.48	1.08
1536	PHY 764WRF*	846	1080	40.9	10.2	4.91	2.61	22.83	0.63	0.45	1.08
1556	FM 2574GLT	1121	1402	46.7	8.3	5.17	3.00	16.23	0.62	0.40	1.02
1557	ST 5020GLT	1204	1701	42.7	9.9	4.61	2.33	20.93	0.99	0.55	1.54
1558	DP 1845B3XF	1325	1731	44.5	8.0	5.08	2.81	18.02	0.64	0.43	1.07
1559	DP 1820B3XF	993	1142	44.8	9.2	4.29	2.90	17.51	0.53	0.33	0.86
1567	TAM KJ-Q14	954	1531	38.2	10.4	4.88	2.44	21.49	0.78	0.49	1.27
1569	PHY 480W3FE	1178	1567	43.9	9.1	4.26	2.39	21.91	0.91	0.58	1.49
1580	LA 14063083	961	1229	42.0	10.0	5.56	3.18	20.30	0.60	0.39	0.99
1581	LA 14063075	853	1626	40.6	8.3	4.63	3.28	16.69	0.67	0.40	1.07
1582	ARS 1112-49	1149	1270	43.9	7.8	4.36	2.96	18.54	0.57	0.36	0.92
1583	ARK 1110-11	1335	1764	41.5	8.4	5.03	2.24	19.73	0.61	0.37	0.98

1584	ARK 1110-49	1090	1743	41.0	9.7	4.97	2.96	18.61	0.68	0.39	1.07	
1585	NM 18B1587	1076	1547	42.3	8.4	4.73	2.58	20.04	0.70	0.49	1.19	
1586	NM 18B1589	1200	1610	42.5	8.5	4.85	2.91	17.52	0.68	0.40	1.08	
1587	NM 18B1593	1054	1588	41.7	8.3	4.07	2.91	16.54	0.71	0.44	1.15	
1588	TAM 14H-29	822	1654	35.2	11.4	5.39	2.89	20.64	0.75	0.54	1.29	
1589	PHY 350W3FE	1300	1591	44.8	9.7	4.60	2.72	20.28	0.81	0.53	1.34	
	LSD	233	459	2.56	0.935	0.774	0.551	2.15	0.211	0.12	0.317	

vcode	Variety	Micronaire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.71	0.87	1.23	83.9	.	33.3	5.6	73.2	4.7	.	.
1516	DP 1646B2XF*	4.57	0.86	1.23	84.0	.	32.1	8.0	72.1	5.3	.	.
1536	PHY 764WRF*	4.14	0.86	1.23	84.2	.	38.0	5.9	70.1	5.7	.	.
1556	FM 2574GLT	4.72	0.87	1.21	83.9	.	32.9	5.6	70.7	4.9	.	.
1557	ST 5020GLT	4.85	0.87	1.21	85.1	.	34.6	7.1	68.8	5.4	.	.
1558	DP 1845B3XF	4.60	0.86	1.29	85.6	.	34.5	7.5	70.1	4.9	.	.
1559	DP 1820B3XF	5.02	0.88	1.24	84.8	.	37.1	5.0	72.2	5.7	.	.
1567	TAM KJ-Q14	4.72	0.87	1.18	83.0	.	34.9	5.5	68.6	5.3	.	.
1569	PHY 480W3FE	4.77	0.86	1.18	84.9	.	31.0	7.5	69.2	5.6	.	.
1580	LA 14063083	4.81	0.87	1.21	85.0	.	34.5	6.5	71.4	5.8	.	.
1581	LA 14063075	4.40	0.86	1.23	84.4	.	35.0	5.4	71.9	5.5	.	.
1582	ARS 1112-49	4.44	0.86	1.19	84.4	.	32.5	6.2	70.6	5.4	.	.
1583	ARK 1110-11	4.47	0.86	1.23	85.3	.	33.7	6.5	67.7	5.7	.	.
1584	ARK 1110-49	4.86	0.87	1.24	83.8	.	30.9	5.6	70.2	5.1	.	.
1585	NM 18B1587	4.58	0.86	1.19	83.7	.	32.7	6.2	69.2	5.3	.	.
1586	NM 18B1589	4.66	0.87	1.17	83.4	.	34.0	5.3	71.2	5.3	.	.
1587	NM 18B1593	4.34	0.86	1.17	84.0	.	34.4	5.5	69.7	5.4	.	.
1588	TAM 14H-29	3.99	0.86	1.40	85.2	.	39.6	5.6	70.1	6.2	.	.
1589	PHY 350W3FE	4.92	0.87	1.15	84.1	.	29.9	7.0	70.7	5.0	.	.
	LSD	0.269	0.008	0.054	1.65	0.999	2.45	0.511	2.98	0.742	.	.

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 Count
1503	FM 1830GLT	0.83	1.03	23.1	6.8	1.23	170.0	4.7	0.96	110	16
1516	DP 1646B2XF*	0.80	1.01	26.0	8.4	1.22	173.5	5.4	0.93	138	14
1536	PHY 764WRF*	0.75	0.99	31.4	10.4	1.21	164.0	6.3	0.92	242	45
1556	FM 2574GLT	0.81	1.03	27.0	7.9	1.26	162.0	5.4	0.94	101	24
1557	ST 5020GLT	0.78	1.01	28.7	8.4	1.23	172.0	5.7	0.94	136	23
1558	DP 1845B3XF	0.82	1.06	26.7	7.8	1.29	169.0	5.2	0.95	101	16

1559	DP 1820B3XF	0.86	1.05	21.0	6.3	1.26	182.5	3.5	1.00	70	13
1567	TAM KJ-Q14	0.80	0.99	23.4	7.3	1.19	166.5	5.2	0.94	107	23
1569	PHY 480W3FE	0.77	0.98	29.0	8.8	1.19	172.0	6.4	0.90	167	25
1580	LA 14063083	0.84	1.05	23.6	6.6	1.25	175.5	4.7	0.95	110	20
1581	LA 14063075	0.87	1.07	20.9	5.8	1.27	164.0	5.4	0.94	106	22
1582	ARS 1112-49	0.80	1.00	24.7	7.6	1.19	163.0	5.3	0.93	107	9
1583	ARK 1110-11	0.85	1.05	22.3	6.3	1.26	169.5	5.5	0.92	102	17
1584	ARK 1110-49	0.82	1.04	26.4	8.2	1.27	171.5	5.9	0.93	131	15
1585	NM 18B1587	0.80	1.00	25.8	7.8	1.21	169.5	5.3	0.94	111	17
1586	NM 18B1589	0.79	0.98	25.2	7.9	1.17	164.0	4.9	0.95	106	15
1587	NM 18B1593	0.82	1.01	23.2	6.9	1.21	161.5	5.1	0.94	116	24
1588	TAM 14H-29	0.85	1.08	25.2	7.3	1.32	161.0	5.8	0.92	154	26
1589	PHY 350W3FE	0.75	0.95	28.2	9.3	1.15	177.5	5.9	0.92	140	19
	LSD	0.084	0.087	5.35	2.7	0.099	6.08	1.08	0.027	73.2	11.3

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 1830GLT	1192	2452	32.8	9.7	4.93	2.94	14.76	0.58	0.43	1.00
1516	DP 1646B2XF*	1265	2615	32.7	8.4	4.73	3.39	17.14	0.62	0.45	1.07
1536	PHY 764WRF*	872	2037	30.0	10.6	5.27	3.51	20.59	0.51	0.40	0.91
1556	FM 2574GLT	1025	2029	33.6	8.5	5.16	3.64	13.97	0.53	0.40	0.93
1557	ST 5020GLT	1213	2796	30.3	9.3	4.68	3.22	20.06	0.70	0.50	1.19
1558	DP 1845B3XF	1239	2488	33.3	8.0	4.77	3.26	15.85	0.52	0.41	0.93
1559	DP 1820B3XF	1364	2880	32.1	8.9	4.43	3.29	14.83	0.46	0.35	0.80
1567	TAM KJ-Q14	1087	2906	27.3	10.6	5.48	3.14	21.36	0.74	0.58	1.31
1569	PHY 480W3FE	1406	3147	30.9	8.8	5.42	2.65	16.39	0.84	0.70	1.53
1580	LA 14063083	1040	2403	30.2	9.3	5.36	3.42	17.07	0.56	0.46	1.02
1581	LA 14063075	626	1466	29.9	8.9	5.34	3.43	16.24	0.58	0.39	0.97
1582	ARS 1112-49	1127	2558	30.7	8.8	4.82	3.36	14.62	0.50	0.36	0.85
1583	ARK 1110-11	1093	2531	30.2	8.3	5.16	3.07	17.06	0.56	0.38	0.94
1584	ARK 1110-49	1092	2581	29.8	9.5	5.96	3.37	16.41	0.64	0.39	1.03
1585	NM 18B1587	1373	3251	29.8	9.0	4.97	3.29	21.46	0.76	0.49	1.25
1586	NM 18B1589	1135	2420	31.9	8.8	4.96	3.51	16.43	0.57	0.39	0.96
1587	NM 18B1593	1028	2424	29.7	8.6	4.40	3.40	17.09	0.62	0.35	0.96
1588	TAM 14H-29	1166	3309	26.0	11.4	5.71	3.20	20.54	0.61	0.48	1.09
1589	PHY 350W3FE	1337	3108	30.1	10.0	4.84	3.27	18.64	0.79	0.61	1.39
	LSD	228	524	1.05	0.924	0.379	0.299	1.93	0.152	0.119	0.264

Upper Half

vcode	Variety	Micronaire	Maturity	Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.76	0.87	1.18	83.3	.	32.5	6.6	80.9	7.2	.	.
1516	DP 1646B2XF*	4.78	0.85	1.23	83.2	.	30.1	9.8	81.0	7.6	.	.
1536	PHY 764WRF*	4.45	0.86	1.21	84.0	.	38.6	7.6	78.9	8.3	.	.
1556	FM 2574GLT	4.89	0.87	1.21	82.8	.	34.1	6.8	81.2	7.6	.	.
1557	ST 5020GLT	4.61	0.86	1.20	83.3	.	33.2	8.4	77.4	8.7	.	.
1558	DP 1845B3XF	4.55	0.85	1.24	82.5	.	33.0	9.7	80.7	7.8	.	.
1559	DP 1820B3XF	5.03	0.87	1.21	83.1	.	35.0	6.8	79.9	8.3	.	.
1567	TAM KJ-Q14	4.62	0.86	1.18	82.4	.	34.7	6.8	78.6	8.0	.	.
1569	PHY 480W3FE	4.34	0.85	1.17	84.2	.	31.8	9.7	79.4	8.5	.	.
1580	LA 14063083	4.59	0.86	1.19	83.9	.	33.9	8.2	79.1	8.7	.	.
1581	LA 14063075	4.51	0.86	1.23	83.1	.	34.0	6.8	80.3	8.1	.	.
1582	ARS 1112-49	4.39	0.86	1.26	84.2	.	34.2	7.0	79.9	8.1	.	.
1583	ARK 1110-11	4.33	0.85	1.28	85.9	.	33.1	7.6	78.1	8.4	.	.
1584	ARK 1110-49	4.76	0.87	1.25	83.4	.	31.9	6.5	80.9	7.5	.	.
1585	NM 18B1587	4.60	0.86	1.13	80.0	.	31.4	6.9	80.2	7.6	.	.
1586	NM 18B1589	4.81	0.87	1.17	82.1	.	34.6	6.9	80.2	7.9	.	.
1587	NM 18B1593	4.59	0.86	1.21	83.4	.	34.8	8.1	78.6	8.3	.	.
1588	TAM 14H-29	4.00	0.85	1.40	83.5	.	38.1	7.3	78.1	8.0	.	.
1589	PHY 350W3FE	4.77	0.86	1.15	83.3	.	30.8	8.4	79.5	8.3	.	.
	LSD	0.218	0.01	0.044	1.34	0.857	1.97	0.402	1.43	0.478	.	.

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 Count
1503	FM 1830GLT	0.82	1.02	25.4	7.9	1.24	171.0	5.1	0.96	155	9
1516	DP 1646B2XF*	0.80	1.01	26.5	8.4	1.25	173.0	6.5	0.89	190	8
1536	PHY 764WRF*	0.85	1.04	21.2	6.4	1.24	169.5	5.8	0.92	147	11
1556	FM 2574GLT	0.81	1.01	25.4	8.0	1.23	173.5	4.9	0.95	153	9
1557	ST 5020GLT	0.75	0.97	30.8	10.6	1.21	175.5	6.0	0.92	332	12
1558	DP 1845B3XF	0.76	1.01	31.1	10.0	1.25	169.5	6.6	0.90	216	7
1559	DP 1820B3XF	0.85	1.05	23.1	7.1	1.27	182.0	5.2	0.96	141	4
1567	TAM KJ-Q14	0.80	0.99	25.1	8.1	1.21	169.0	5.6	0.94	190	11
1569	PHY 480W3FE	0.77	0.96	27.6	9.2	1.17	172.0	6.4	0.90	196	7
1580	LA 14063083	0.81	1.01	25.6	8.2	1.21	175.0	6.4	0.91	215	11
1581	LA 14063075	0.85	1.05	23.3	7.2	1.28	171.5	5.9	0.94	191	9
1582	ARS 1112-49	0.80	1.02	26.9	8.4	1.24	164.5	6.3	0.92	202	12
1583	ARK 1110-11	0.89	1.09	20.3	5.9	1.31	171.5	5.5	0.92	149	9
1584	ARK 1110-49	0.85	1.07	23.9	7.0	1.29	176.5	5.6	0.94	150	10
1585	NM 18B1587	0.70	0.91	32.8	11.7	1.12	171.0	5.9	0.92	207	8
1586	NM 18B1589	0.80	0.99	23.8	7.4	1.19	175.5	4.6	0.97	162	7

1587	NM 18B1593	0.80	0.99	24.2	7.8	1.19	166.0	4.7	0.96	201	12
1588	TAM 14H-29	0.88	1.15	26.2	7.4	1.43	159.5	6.6	0.92	236	13
1589	PHY 350W3FE	0.73	0.93	31.7	11.3	1.15	181.5	6.4	0.91	281	12
	LSD	0.054	0.048	4.47	1.89	0.051	7.68	0.822	0.023	94.9	7.67

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 1830GLT	.	.	.	.	.	.	.	.	.	.
1516	DP 1646B2XF*	.	.	.	.	.	.	.	.	.	.
1536	PHY 764WRF*	.	.	.	.	.	.	.	.	.	.
1556	FM 2574GLT	.	.	.	.	.	.	.	.	.	.
1557	ST 5020GLT	.	.	.	.	.	.	.	.	.	.
1558	DP 1845B3XF	.	.	.	.	.	.	.	.	.	.
1559	DP 1820B3XF	.	.	.	.	.	.	.	.	.	.
1567	TAM KJ-Q14	.	.	.	.	.	.	.	.	.	.
1569	PHY 480W3FE	.	.	.	.	.	.	.	.	.	.
1580	LA 14063083	.	.	.	.	.	.	.	.	.	.
1581	LA 14063075	.	.	.	.	.	.	.	.	.	.
1582	ARS 1112-49	.	.	.	.	.	.	.	.	.	.
1583	ARK 1110-11	.	.	.	.	.	.	.	.	.	.
1584	ARK 1110-49	.	.	.	.	.	.	.	.	.	.
1585	NM 18B1587	.	.	.	.	.	.	.	.	.	.
1586	NM 18B1589	.	.	.	.	.	.	.	.	.	.
1587	NM 18B1593	.	.	.	.	.	.	.	.	.	.
1588	TAM 14H-29	.	.	.	.	.	.	.	.	.	.
1589	PHY 350W3FE	.	.	.	.	.	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1503	FM 1830GLT	4.87	0.88	1.23	83.4	4.5	32.5	6.5	81.3	7.3	.	.
1516	DP 1646B2XF*	4.67	0.87	1.19	83.7	6.2	29.5	8.8	79.3	8.4	.	.
1536	PHY 764WRF*	4.70	0.88	1.17	84.3	5.2	35.2	7.1	78.8	8.4	.	.
1556	FM 2574GLT	4.84	0.89	1.18	83.8	6.0	32.6	5.9	79.9	7.2	.	.
1557	ST 5020GLT	4.51	0.87	1.14	83.3	6.8	33.5	8.0	78.1	7.9	.	.
1558	DP 1845B3XF	4.65	0.87	1.17	83.1	7.1	31.1	9.0	79.2	7.8	.	.

1559	DP 1820B3XF	4.96	0.89	1.20	83.8	6.2	33.4	5.4	80.4	8.1	.	.
1567	TAM KJ-Q14	4.74	0.88	1.19	83.8	6.1	33.9	6.3	76.8	8.4	.	.
1569	PHY 480W3FE	4.75	0.87	1.15	85.1	5.3	32.8	8.4	77.7	8.8	.	.
1580	LA 14063083	4.92	0.88	1.17	82.6	6.5	32.9	7.5	78.8	8.3	.	.
1581	LA 14063075	4.55	0.88	1.22	84.0	4.9	34.4	6.1	79.4	8.0	.	.
1582	ARS 1112-49	4.86	0.88	1.21	83.4	5.6	31.8	7.6	75.6	8.5	.	.
1583	ARK 1110-11	4.36	0.86	1.25	84.7	3.9	31.7	7.7	75.1	8.0	.	.
1584	ARK 1110-49	5.06	0.89	1.26	85.1	3.6	30.0	6.6	77.6	7.2	.	.
1585	NM 18B1587	4.79	0.88	1.19	85.1	4.8	33.3	6.1	77.4	8.2	.	.
1586	NM 18B1589	4.71	0.88	1.18	83.8	6.1	33.9	6.5	77.8	7.7	.	.
1587	NM 18B1593	4.79	0.87	1.24	83.2	4.5	31.6	7.8	77.1	7.2	.	.
1588	TAM 14H-29	4.24	0.87	1.37	85.3	2.7	36.9	7.2	77.8	9.2	.	.
1589	PHY 350W3FE	5.13	0.88	1.14	84.4	6.6	30.4	7.4	77.2	8.4	.	.
	LSD	0.474	0.012	0.066	2.18	2.12	3.1	0.694	3.15	1.56	.	.

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 Count
1503	FM 1830GLT	0.94	1.12	17.2	4.5	1.31	193.5	2.9	1.05	100	6
1516	DP 1646B2XF*	0.90	1.10	20.6	5.9	1.31	188.0	3.8	1.00	95	7
1536	PHY 764WRF*	0.91	1.09	18.6	5.2	1.27	182.0	3.7	1.00	122	8
1556	FM 2574GLT	0.87	1.08	23.2	6.8	1.30	175.5	3.7	1.00	124	10
1557	ST 5020GLT	0.84	1.01	18.9	5.5	1.17	200.0	3.2	1.02	80	6
1558	DP 1845B3XF	0.83	1.06	25.7	7.5	1.29	178.5	4.5	0.98	194	6
1559	DP 1820B3XF	0.89	1.09	22.7	6.6	1.31	188.5	4.1	1.01	110	5
1567	TAM KJ-Q14	0.88	1.08	22.0	6.6	1.29	203.5	3.3	1.04	101	16
1569	PHY 480W3FE	0.84	1.02	22.1	6.8	1.21	194.0	3.8	1.00	91	9
1580	LA 14063083	0.90	1.08	18.9	5.3	1.27	184.0	5.1	0.96	87	5
1581	LA 14063075	0.95	1.13	19.0	5.4	1.35	182.0	5.1	0.97	91	11
1582	ARS 1112-49	0.92	1.10	18.4	4.9	1.29	184.5	5.4	0.96	95	7
1583	ARK 1110-11	0.90	1.09	19.9	5.6	1.29	178.0	5.2	0.94	97	4
1584	ARK 1110-49	0.92	1.14	22.4	6.1	1.38	182.5	5.4	0.96	143	11
1585	NM 18B1587	0.95	1.12	17.1	4.6	1.32	200.0	2.9	1.04	106	8
1586	NM 18B1589	0.85	1.06	22.5	6.8	1.27	184.5	3.6	1.03	95	10
1587	NM 18B1593	0.87	1.07	21.8	6.5	1.28	193.5	3.3	1.04	101	13
1588	TAM 14H-29	0.90	1.17	26.7	7.3	1.45	177.5	4.2	0.99	209	18
1589	PHY 350W3FE	0.81	1.01	25.9	8.3	1.21	202.5	3.6	1.01	101	10
	LSD	0.078	0.087	4.39	1.59	0.104	12.5	0.891	0.035	46.7	6.96

2019 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.*******

Regional Summaries For Blacklands Varieties

vcode	Variety	Yield (lb/a)	Yield (lb/a)	Lint Percent	Seed Index	Size (g/boll)	Nitrogen	Oil	Plus Gossypol	Minus Gossypol	Free Gossypol
1404	PHY 499WRF	355	339	41.7	8.4	3.63	.	.	.	.	.
1497	PHY 312WRF	394	556	41.0	9.4	3.98	.	.	.	.	.
1503	FM 1830GLT	357	403	41.3	8.2	4.12	.	.	.	.	.
1516	DP 1646B2XF	424	450	41.8	7.9	3.25	.	.	.	.	.
1535	NG 4545B2XF	308	261	39.8	8.6	3.69	.	.	.	.	.
1536	PHY 764WRF	293	383	39.5	9.9	3.85	.	.	.	.	.
1537	DP 1522B2XF	450	503	40.4	8.2	3.12	.	.	.	.	.
1551	DG 3385B2XF	377	479	40.6	8.3	3.73	.	.	.	.	.
1552	NG 4601B2XF	397	276	42.0	8.5	3.68	.	.	.	.	.
	LSD	247	674	2.35	1.0	0.66	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.17	0.85	1.14	84.2	.	34.1	7.5	73.1	.	.	.
1497	PHY 312WRF	4.17	0.86	1.11	83.1	.	31.1	5.8	71.8	.	.	.
1503	FM 1830GLT	4.04	0.85	1.15	83.1	.	32.3	5.3	75.4	.	.	.
1516	DP 1646B2XF	4.14	0.85	1.18	82.9	.	31.0	6.9	74.3	.	.	.
1535	NG 4545B2XF	4.42	0.86	1.07	82.4	.	30.2	4.6	73.4	.	.	.
1536	PHY 764WRF	3.85	0.85	1.15	84.0	.	37.9	6.3	72.5	.	.	.
1537	DP 1522B2XF	4.23	0.85	1.12	83.5	.	32.4	7.6	71.5	.	.	.
1551	DG 3385B2XF	4.00	0.85	1.09	84.0	.	30.5	7.3	74.1	.	.	.
1552	NG 4601B2XF	4.43	0.86	1.13	83.4	.	32.9	6.3	74.6	.	.	.
	LSD	0.47	0.01	0.06	1.2	.	3.3	0.7	2.8	0.9	.	.

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
1404	PHY 499WRF	0.84	1.01	19.9	5.7	1.18	163.0	5.8	0.90	138	32

1497	PHY 312WRF	0.81	0.98	22.6	7.3	1.15	170.0	6.0	0.91	136	25
1503	FM 1830GLT	0.77	0.98	27.9	9.5	1.19	155.5	6.1	0.91	228	26
1516	DP 1646B2XF	0.78	0.99	27.9	9.1	1.21	158.5	6.4	0.89	179	27
1535	NG 4545B2XF	0.78	0.94	22.7	7.7	1.11	168.5	5.3	0.92	109	15
1536	PHY 764WRF	0.78	0.98	25.9	8.5	1.18	148.5	6.7	0.88	193	32
1537	DP 1522B2XF	0.78	0.95	23.8	7.9	1.13	169.5	5.7	0.90	124	19
1551	DG 3385B2XF	0.74	0.92	26.7	9.8	1.09	162.5	6.3	0.88	204	15
1552	NG 4601B2XF	0.74	0.93	29.4	10.6	1.13	171.0	6.3	0.90	189	22
	LSD	0.10	0.09	7.2	3.5	0.09	8.8	1.4	0.04	191	23

Blacklands 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
Commerce, TX	373	406	40.9	8.6	3.67	.	.	.	.	.

Location	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
Commerce, TX	4.16	0.85	1.13	83.4	.	32.5	6.4	73.4	.	.	.

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	0.78	0.96	25.2	8.5	1.15	163.0	6.1	0.90	166	23

Blacklands Region Individual Location Summaries

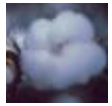
Location: Commerce, TX

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
1404	PHY 499WRF	355	339	41.7	8.4	3.63	.	.	.	.	.
1497	PHY 312WRF	394	556	41.0	9.4	3.98	.	.	.	.	.
1503	FM 1830GLT	357	403	41.3	8.2	4.12	.	.	.	.	.
1516	DP 1646B2XF	424	450	41.8	7.9	3.25	.	.	.	.	.
1535	NG 4545B2XF	308	261	39.8	8.6	3.69	.	.	.	.	.
1536	PHY 764WRF	293	383	39.5	9.9	3.85	.	.	.	.	.
1537	DP 1522B2XF	450	503	40.4	8.2	3.12	.	.	.	.	.
1551	DG 3385B2XF	377	479	40.6	8.3	3.73	.	.	.	.	.
1552	NG 4601B2XF	397	276	42.0	8.5	3.68	.	.	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.

vcode	Variety	Micro naire	Maturity	Upper Half Mean Length	Uniformity Index	Short Fiber	Strength	Elongation	RD	Hunters Plus B	Waste	Yarn Tenacity
1404	PHY 499WRF	4.17	0.85	1.14	84.2	.	34.1	7.5	73.1	.	.	.
1497	PHY 312WRF	4.17	0.86	1.11	83.1	.	31.1	5.8	71.8	.	.	.
1503	FM 1830GLT	4.04	0.85	1.15	83.1	.	32.3	5.3	75.4	.	.	.
1516	DP 1646B2XF	4.14	0.85	1.18	82.9	.	31.0	6.9	74.3	.	.	.
1535	NG 4545B2XF	4.42	0.86	1.07	82.4	.	30.2	4.6	73.4	.	.	.
1536	PHY 764WRF	3.85	0.85	1.15	84.0	.	37.9	6.3	72.5	.	.	.
1537	DP 1522B2XF	4.23	0.85	1.12	83.5	.	32.4	7.6	71.5	.	.	.
1551	DG 3385B2XF	4.00	0.85	1.09	84.0	.	30.5	7.3	74.1	.	.	.
1552	NG 4601B2XF	4.43	0.86	1.13	83.4	.	32.9	6.3	74.6	.	.	.
	LSD	.	.	.	.	.	.	.	.	.	.	.

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
1404	PHY 499WRF	0.84	1.01	19.9	5.7	1.18	163.0	5.8	0.90	138	32
1497	PHY 312WRF	0.81	0.98	22.6	7.3	1.15	170.0	6.0	0.91	136	25
1503	FM 1830GLT	0.77	0.98	27.9	9.5	1.19	155.5	6.1	0.91	228	26

1516	DP 1646B2XF	0.78	0.99	27.9	9.1	1.21	158.5	6.4	0.89	179	27
1535	NG 4545B2XF	0.78	0.94	22.7	7.7	1.11	168.5	5.3	0.92	109	15
1536	PHY 764WRF	0.78	0.98	25.9	8.5	1.18	148.5	6.7	0.88	193	32
1537	DP 1522B2XF	0.78	0.95	23.8	7.9	1.13	169.5	5.7	0.90	124	19
1551	DG 3385B2XF	0.74	0.92	26.7	9.8	1.09	162.5	6.3	0.88	204	15
1552	NG 4601B2XF	0.74	0.93	29.4	10.6	1.13	171.0	6.3	0.90	189	22
	LSD	.	.	.	.	.	.	.	.	.	.



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