AUBURN
AGRICULTURE

PERFORMANCE OF COTTON VARIETIES IN ALABAMA, 2023

DEPT. SERIES NO. CSES2023: COTTON
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CROP, SOIL & ENVIRONMENTAL SCIENCES
AUBURN UNIVERSITY, AUBURN AL
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MISSION

The mission of the Alabama Variety Testing Program is to provide research-based, unbiased results on the performance of various crop hybrids, cultivars, and varieties to the agricultural community in our state. We are intent on conducting these trials in a manner that will result in maximum biological yield through methods common to the top-producing farms in Alabama. We are committed to providing this information in a rapid, timely manner for its use during the decision-making process. The success of the program rests upon our ability to help Alabama producers provide a safe, dependable source of food and fiber for all families as well as economic sustainability for theirs.

HOW TO INTERPRET RESULTS

The purpose of the variety trial data is to determine whether differences are due to genetic performance. These differences cannot be measured absolutely due to environmental field conditions (rainfall, temperatures, soil fertility, soil type, disease, insects, etc.). Yields may differ between plots of the same entry. This variation is accounted for using experimental design and statistics.

The least significant difference (LSD) is used to determine whether the observed differences between entries are real or are caused by random variation. When using the LSD, two entries may have numerically different values, but the values are not statistically different. When two entries are compared and the observed difference is larger than the LSD, the entries are considered statistically different. An alpha level of 0.10 is used, meaning that the differences observed are expected to be real 90% of the time.

The coefficient of variation (CV) is a measure used to compare the amount of random variation within a data set. The lower the CV, the more precise the data set.

Each table is organized in a manner that it is easy to read. The data is sorted from highest yielding to lowest. The bolded values are not statistically different from the highest yielding value.

A dark line in the table visually represents the test average. Any value above the line is equal to or greater than the test average. The numeric value for the test average is at the bottom of the tables.

Test results do not imply recommendation or endorsement by the Auburn University Variety Testing Program.

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FIELD CROPS UNIT, SHORTER, AL

Hunter Mote, Supervisor

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2. NON-IRRIGATED SHORT SEASON

E.V. SMITH RESEARCH AND EXTENSION CENTER
PLANT BREEDING UNIT, TALLASSEE, AL

Nic Stockdale, Assistant Director

1. IRRIGATED FULL SEASON
2. IRRIGATED SHORT SEASON
3. CONVENTIONAL

PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

Josh Canterbury, Associate Director

1. IRRIGATED FULL SEASON
2. IRRIGATED SHORT SEASON
3. NON-IRRIGATED FULL SEASON
4. NON-IRRIGATED SHORT SEASON

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
BELLE MINA, AL

David Harkins, North Region Director

1. IRRIGATED FULL SEASON
2. IRRIGATED SHORT SEASON
3. NON-IRRIGATED FULL SEASON
4. NON-IRRIGATED SHORT SEASON
5. CONVENTIONAL

EXTENSION NEWSLETTERS

ALABAMA COTTON SHORTS

ALABAMA CROPS REPORT

MANAGEMENT

Two subsamples per variety are obtained from each trial. These subsamples are ginned on a small laboratory gin. Turnout rates from these gins are generally higher than those from commercial gins. However, the differences between varieties remain relative. Once ginned, the samples are sent to the USDA Cotton Classing Office for quality analysis.

Cotton Extension Agronomist, Dr. Steve Brown, and Assistant Extension Professor, Dr. Tyler Sandlin, produced an extension publication "**How to Think About Fiber Quality in Cotton**" which describes each quality characteristic and the factors that influence each.

TABLE 1 - LOCATION SPECIFIC INFORMATION

Research Center	Tennessee Valley	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Location	Belle Mina	Shorter Tallassee	Prattville	Headland	Brewton	Fairhope
Region	North	Central	Central	South	South	South
Environments	Full Season Irr Full Season Dry Short Season Irr Short Season Dry Conventional	Full Season Irr Full Season Dry Short Season Irr Short Season Dry Conventional	Full Season Irr Full Season Dry Short Season Irr Short Season Dry	Full Season Irr Full Season Dry Short Season Irr Short Season Dry	Full Season Short Season Conventional	Full Season Short Season
Soil Type	Decatur Silt Loam	Marvyn Sandy Loam Kalmia Loamy Sand	Lucedale Fine Sandy Loam	Dothan Sandy Loam	Benndale Fine Sandy Loam	Malbis Fine Sandy Loam
Row Spacing (inches)	40	36	36	36	36	38
Tillage	No-Till	Strip Till	Strip-Till	Strip Till	Strip Till	No-Till
Test Conducted By	D. Harkins	H. Mote N. Stockdale F. Jackson	J. Canterbury C. Henderson	C. Parker	B. Miller	J. Jones T. Frank

TABLE 2 – PLANT/HARVEST DATES

Research Center	Tennessee Valley	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Full Season Irrigated	May 3 October 13	May 15 October 24	May 4 November 3	May 8 October 24	May 5 October 5	NA
Full Season Non-Irrigated	May 3 October 4	May 11 October 10	May 4 November 6	May 8 October 26	NA	May 4 Octobe 17
Short Season Irrigated	May 23 October 26	June 5 November 6	June 6 November 12	June 5 November 9	May 26 October 31	NA
Short Season Non-Irrigated	May 23 October 24	June 5 October 30	June 6 November 10	June 5 November 21	NA	May 25 October 18

Research Center	Tennessee Valley	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Conventional	May 9 October 3	May 10 October 24	NA	NA	May 19 October 10	NA

TABLE 3 – RAINFALL & IRRIGATION

Research Center	Tennessee Valley	E.V. Smith	Prattville	Wiregrass	Brewton	Gulf Coast
Full Season Irrigated	15.25 3.5 (Irr)	30.94 0.5 (Irr)	25.55 11.0 (Irr)	13.12 5.5 (Irr)	17.85 1.0 (Irr)	NA
Full Season Non-Irrigated	15.04	NA	25.55	13.12	NA	20.91
Short Season Irrigated	13.5 3.5 (Irr)	27.56 0.0 (Irr)	22.02 8.0 (Irr)	12.27 5.0 (Irr)	14.76 1.4 (Irr)	NA
Short Season Non-Irrigated	13.5	NA	21.77	15.02	NA	17.3
Conventional	14.88	24.32	NA	NA	15.79 .25 (Irr)	NA

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SEED SOURCES

TABLE 4 – SEED SOURCE AND VARIETY NAME

Source	Variety
Americot	AMX160030-A B3XF AMX160030-B B3XF AMX20T079 B3XF AMX20T114 B3XF AMX20T157 B3XF AMX21C005B3TXF NG 3195 B3XF NG 4190 B3XF NG 4335 B3TXF NG 4343 B3TXF
Auburn University	AU 17015-23-233 AU 17018-48-358
BASF - Stoneville	ST 4595 B3XF ST 4990 B3XF ST 5091 B3XF

Source	Variety
Bayer Crop Science	DP 1646 B2XF DP 1822 XF DP 2012 B3XF DP 2038 B3XF DP 2115 B3XF DP 2127 B3XF DP 2131 B3TXF DP 2141NR B3XF DP 2211 B3TXF DP 2239 B3XF DP 2328 B3TXF DP 2333 B3XF DP 2349NR B3XF
Corteva Agriscience	1130B333-04 1130D303-04 1140A385-04 1140B373-04 1140D328-04 1150B437-04 1150D490-04 PHY 415 W3FE PHY 332 W3FE PHY 360 W3FE PHY 400 W3FE PHY 411 W3FE PHY 443 W3FE PHY 545 W3FE
Dyna-Gro	DG 3511 B3XF DG 3519 B3XF DG 3528 B3XF DG 3615 B3XF DG 3799 B3XF DG 4484 B3TXF DG H959 B3XF
Land O' Lakes	Armor 9371 B3XF Armor 9383 B3TXF Armor 9831 B3XF
Seed Source Genetics	UA 114 UA 222
University of Georgia	GA 1682 GA 1699

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SEED PER POUND

TABLE 5 – NUMBER OF SEED PER POUND AT PLANTING

Variety	Seed Per Pound
DP 2038 B3XF	6310
Armor 9831 B3XF	6276
DG 4484 B3TXF	6243
DP 2131 B3TXF	6104
DP 2141NR B3XF	6079
DP 2349NR B3XF	5999
NG 4343 B3TXF	5869
DP 2115 B3XF	5869
AMX20T114 B3XF	5867
DP 2239 B3XF	5866
AMX21C005B3TXF	5816
DP 2328 B3TXF	5791
UA 222	5717
DP 1646 B2XF	5624
DP 2012 B3XF	5624
DP 2333 B3XF	5578
NG 4335 B3TXF	5484
AU 17015-23-233	5466
AMX20T157 B3XF	5435
ST 4595 B3XF	5402
AU 17018-48-358	5400
UA 114	5358
GA 1699	5358
AMX20T079 B3XF	5319
Armor 9383 B3TXF	5296
ST 4990 B3XF	5214
1150D490-04	5197
DP 2211 B3TXF	5196
AMX160030-A B3XF	5171
PHY443W3FE	5156
Armor 9371 B3XF	5154
1130D303-04	5139
ST 5091 B3XF	5079
PHY411W3FE	5059
DG 3528 B3XF	5053
GA 1682	5040
NG 3195 B3XF	5029
1130B333-04	4933
PHY332W3FE	4895
NG 4190 B3XF	4886
DG 3511 B3XF	4861
PHY360W3FE	4843
PHY545W3FE	4827
1140D328-04	4792
DG 3519 B3XF	4779
1140A385-04	4775
AMX160030-B B3XF	4751
DP 1822 XF	4725
1140B373-04	4695

Variety	Seed Per Pound
DG H959 B3XF	4677
DP 2127 B3XF	4645
DG 3799 B3XF	4492
PHY400W3FE	4479
1150B437-04	4392
DG 3615 B3XF	4325
PHY415W3FE	3957
Average	5239
LSD @ 10% level	188
CV	2
Model R-square	0.95

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TABLE 6 – TARGET SPOT DISEASE RATING SCALE

Rating 1-9	Description
1	No disease
2	Very few leaf spots
3	Few leaf spots in lower and upper canopy
4	Some leaf spotting and <10% defoliation
5	Leaf spots noticeable and <25% defoliation
6	Leaf spots numerous and < 50% defoliation
7	Leaf spots very numerous and <75% defoliation
8	Numerous leaf spots on few remaining leaves and <95% defoliation
9	Plants defoliated or dead

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FULL SEASON
GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL

TABLE 7 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2127 B3XF	**2459**	42.4	5.5	1.13	30.4	84.4
Armor 9371 B3XF	**2379**	44.7	5.2	1.13	30.5	81.9
ST 5091 B3XF	**2289**	42.1	4.6	1.17	29.7	82.1
PHY 545 W3FE	**2284**	42.6	4.9	1.15	34.2	83.2
DG 3511 B3XF	**2273**	41.7	5.3	1.16	34.0	83.8
1140B373-04	**2245**	41.4	5.0	1.14	34.1	83.8
NG 3195 B3XF	2224	41.5	4.8	1.13	31.7	83.3
DG 3528 B3XF	2217	41.5	4.8	1.19	31.4	83.9
PHY 411 W3FE	2187	44.8	4.7	1.08	31.3	81.5
DP 2211 B3TXF	2146	43.3	5.1	1.13	29.6	81.2
1140A385-04	2146	40.9	4.9	1.16	35.8	84.3
DP 2333 B3XF	2141	43.1	5.5	1.14	30.7	82.1
PHY 415 W3FE	2132	41.7	5.1	1.20	34.4	84.6
ST 4595 B3XF	2125	42.2	4.9	1.16	31.7	82.4
1150B437-04	2094	41.3	4.9	1.09	33.1	81.7
Armor 9831 B3XF	2094	42.4	5.2	1.14	31.8	82.0
DP 1646 B2XF	2088	41.2	5.0	1.19	31.3	82.7
DP 2141NR B3XF	2087	42.3	5.3	1.14	31.9	82.5
NG 4190 B3XF	2084	41.6	5.1	1.16	31.6	82.7
1150D490-04	2079	42.4	4.6	1.13	31.0	81.3
1130D303-04	2066	43.0	5.0	1.16	31.1	82.7
DP 2328 B3TXF	2060	43.5	5.0	1.14	28.8	80.8
DP 2131 B3TXF	2059	44.5	4.8	1.19	30.3	82.9
PHY 443 W3FE	2057	44.5	4.8	1.12	32.9	82.8
1140D328-04	2053	39.2	4.6	1.14	34.4	82.8
1130B333-04	2009	42.1	4.6	1.13	34.2	83.5
NG 4335 B3TXF	2005	40.8	4.8	1.16	31.5	83.8
PHY 400 W3FE	1995	42.0	4.3	1.17	33.6	83.7
NG 4343 B3TXF	1979	40.6	4.8	1.19	31.9	82.3
DP 2239 B3XF	1975	44.2	5.0	1.20	31.3	82.9
DG 3519 B3XF	1963	42.7	4.8	1.18	31.7	83.8
DP 2349NR B3XF	1953	41.9	5.3	1.12	31.5	82.8
DP 2038 B3XF	1927	42.6	4.8	1.10	31.2	82.8
DG 3615 B3XF	1895	42.5	5.0	1.11	32.9	82.2
Armor 9383 B3TXF	1887	41.5	4.8	1.13	29.1	83.6
AMX20T079 B3XF	1852	40.7	4.7	1.18	30.7	82.2
ST 4990 B3XF	1812	39.7	4.8	1.18	30.2	82.6
AMX21C005B3TXF	1798	39.9	4.4	1.18	30.6	82.8
DG 3799 B3XF	1769	40.3	4.8	1.18	33.1	82.4
DG 4484 B3TXF	1765	45.2	4.8	1.10	30.8	81.4

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX20T157 B3XF	1759	40.5	5.1	1.16	31.1	83.0
AMX160030-B B3XF	1722	42.7	5.1	1.12	30.3	82.7
DG H959 B3XF	1601	38.6	4.9	1.15	32.7	83.4
DP 1822 XF	1518	37.4	4.6	1.19	33.0	82.1
AMX20T114 B3XF	1510	41.3	5.1	1.15	30.0	84.3
AMX160030-A B3XF	1409	42.8	5.1	1.19	30.6	83.7
Average	1993	41.9	4.9	1.15	31.7	82.8
LSD @ 10% level	229					
CV	10					
Model R-square	0.68					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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SHORT SEASON
GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL

TABLE 8 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2127 B3XF	**2115**	45.0	5.2	1.15	31.5	84.6
ST 4595 B3XF	**2007**	44.0	4.8	1.19	32.0	84.3
DP 2333 B3XF	**1989**	44.5	4.7	1.16	32.7	84.3
PHY 415 W3FE	**1980**	43.0	4.1	1.20	35.6	84.8
PHY 411 W3FE	**1952**	44.0	4.8	1.11	32.9	83.8
ST 4990 B3XF	**1908**	40.3	4.7	1.17	31.6	84.0
PHY 400 W3FE	**1897**	43.0	4.5	1.15	33.2	83.6
Armor 9371 B3XF	**1881**	45.0	4.7	1.13	32.1	83.6
DP 2012 B3XF	**1869**	40.5	4.6	1.16	31.3	83.3
ST 5091 B3XF	1813	42.0	4.5	1.16	30.8	83.4
1150B437-04	1801	40.5	4.6	1.12	35.5	84.0
1140A385-04	1787	44.5	4.6	1.12	34.2	84.4
PHY 360 W3FE	1774	40.5	4.6	1.13	30.9	83.1
PHY 332 W3FE	1715	42.5	4.2	1.20	34.4	84.1
NG 3195 B3XF	1705	42.5	4.7	1.11	33.9	83.7
1140B373-04	1700	42.5	4.7	1.13	34.8	84.4
1140D328-04	1676	42.5	4.6	1.17	34.9	84.7
1150D490-04	1664	44.0	4.3	1.15	32.6	83.2
1130D303-04	1614	42.0	4.6	1.14	35.0	83.8
1130B333-04	1602	41.5	4.2	1.21	35.5	86.1
AMX20T157 B3XF	1594	42.5	4.5	1.16	32.6	83.8
AMX20T079 B3XF	1590	41.5	4.5	1.19	32.1	83.7
DP 1646 B2XF	1551	42.5	4.6	1.27	31.0	83.0
PHY 443 W3FE	1535	43.5	4.5	1.08	33.8	82.7
Armor 9383 B3TXF	1532	41.0	4.8	1.16	30.8	84.6
NG 4190 B3XF	1513	43.0	4.4	1.21	33.3	85.0
DP 1822 XF	1486	40.0	4.6	1.19	33.9	83.1
DP 2115 B3XF	1390	42.0	4.7	1.15	31.9	83.2
AMX21C005B3TXF	1375	40.5	4.0	1.17	31.5	82.9
AMX160030-A B3XF	1350	46.0	4.5	1.20	31.2	84.0
NG 4343 B3TXF	1307	41.5	4.5	1.20	32.2	83.9
AMX160030-B B3XF	1277	42.5	4.7	1.20	33.4	83.9
DP 2211 B3TXF	1268	41.5	4.6	1.15	31.4	83.4
NG 4335 B3TXF	1096	40.5	4.6	1.19	34.6	84.2
AMX20T114 B3XF	965	41.5	4.6	1.15	30.4	83.2
Average	1630	42.3	4.5	1.16	32.9	83.8
LSD @ 10% level	219					
CV	13					
Model R-square	0.65					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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FULL SEASON
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL

TABLE 9 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
PHY 415 W3FE	**1717**	43.6	4.6	1.16	34.4	82.7
ST 5091 B3XF	**1704**	43.8	4.6	1.13	29.9	81.4
1140D328-04	**1692**	43.9	4.4	1.16	34.8	81.8
1150B437-04	**1690**	43.5	4.9	1.09	32.5	81.3
DG 3528 B3XF	**1666**	43.1	4.1	1.13	31.4	81.8
DP 1646 B2XF	**1657**	43.8	4.6	1.18	31.6	82.9
NG 4190 B3XF	**1642**	43.7	4.8	1.15	31.5	84.2
1140A385-04	**1614**	45.1	4.7	1.11	33.0	83.6
ST 4595 B3XF	**1611**	44.1	4.9	1.12	30.4	81.3
NG 3195 B3XF	**1604**	42.5	4.7	1.13	31.6	82.5
DG 4484 B3TXF	**1591**	48.0	4.5	1.07	30.8	81.7
1140B373-04	**1589**	42.6	4.4	1.11	31.9	82.8
PHY 443 W3FE	**1582**	44.9	4.6	1.08	33.8	82.8
PHY 400 W3FE	1560	44.6	4.2	1.16	32.9	82.9
DP 2239 B3XF	1544	44.4	4.6	1.15	31.0	82.1
DG 3519 B3XF	1544	42.3	4.7	1.22	35.9	84.7
1130B333-04	1531	42.9	4.9	1.11	33.0	83.8
PHY 411 W3FE	1525	45.9	4.5	1.08	32.6	82.4
DP 2333 B3XF	1506	43.8	5.1	1.10	30.4	82.3
DP 2131 B3TXF	1503	43.4	4.7	1.18	32.1	82.9
Armor 9383 B3TXF	1502	41.1	4.6	1.15	30.9	84.3
DP 2038 B3XF	1476	46.9	5.1	1.06	30.2	81.9
DG 3511 B3XF	1442	43.2	4.8	1.14	34.1	83.7
1130D303-04	1442	42.5	4.5	1.10	33.5	83.7
NG 4343 B3TXF	1435	43.3	4.5	1.15	29.9	83.1
PHY 545 W3FE	1435	45.3	4.7	1.05	31.6	82.0
DP 2211 B3TXF	1429	44.2	4.7	1.15	30.0	83.1
DG 3615 B3XF	1426	42.7	4.7	1.12	32.4	81.7
AMX20T157 B3XF	1421	45.0	4.5	1.14	31.7	81.9
1150D490-04	1419	43.7	4.2	1.09	29.9	80.2
Armor 9371 B3XF	1409	43.6	4.9	1.11	30.0	82.9
DP 2127 B3XF	1399	44.0	5.0	1.10	31.0	83.5
DG 3799 B3XF	1398	42.7	4.9	1.12	31.8	82.2
AMX160030-B B3XF	1397	41.2	4.9	1.13	32.2	82.6
Armor 9831 B3XF	1388	41.6	4.9	1.10	31.9	81.6
DP 2328 B3TXF	1364	43.9	4.5	1.12	28.7	82.0
DP 2141NR B3XF	1347	43.3	5.1	1.12	32.6	82.2
NG 4335 B3TXF	1325	42.0	4.6	1.17	33.2	84.8
DP 2349NR B3XF	1312	44.3	5.0	1.09	30.9	81.8
ST 4990 B3XF	1311	39.5	4.8	1.16	31.5	83.2
AMX20T079 B3XF	1283	41.7	4.4	1.15	30.6	82.2
DG H959 B3XF	1269	40.2	4.4	1.11	32.9	83.3
AMX21C005B3TXF	1248	42.0	4.2	1.15	32.4	83.7
DP 1822 XF	1192	40.5	4.4	1.14	33.9	81.7

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX20T114 B3XF	1191	40.8	4.5	1.16	30.3	83.5
AMX160030-A B3XF	1172	41.7	4.8	1.17	31.1	83.2
Average	1463	43.2	4.6	1.13	31.9	82.6
LSD @ 10% level	136					
CV	8					
Model R-square	0.70					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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SHORT SEASON
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL

TABLE 10 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 1646 B2XF	**1742**	45.6	4.9	1.16	30.4	83.8
ST 5091 B3XF	**1738**	45.1	4.8	1.10	29.5	82.2
DP 2127 B3XF	**1669**	45.4	5.4	1.09	26.4	83.3
DP 2211 B3TXF	**1656**	44.8	5.3	1.16	28.9	84.3
Armor 9371 B3XF	**1644**	46.7	5.1	1.11	29.2	83.7
ST 4595 B3XF	**1616**	43.6	5.2	1.17	30.3	84.4
PHY 400 W3FE	**1614**	43.1	4.7	1.14	31.0	83.9
NG 4190 B3XF	**1610**	45.1	5.1	1.11	29.3	84.2
1140B373-04	1600	44.0	5.0	1.11	34.0	84.7
PHY 415 W3FE	1589	43.1	4.9	1.17	34.5	84.4
1140D328-04	1587	43.2	4.8	1.15	35.1	84.4
PHY 332 W3FE	1576	43.2	4.7	1.14	32.9	83.2
1140A385-04	1569	46.4	5.2	1.07	33.2	84.7
ST 4990 B3XF	1564	41.6	4.9	1.17	30.7	84.4
NG 3195 B3XF	1562	42.8	5.1	1.10	29.2	84.1
DP 2012 B3XF	1544	43.2	4.8	1.14	30.8	83.1
PHY 443 W3FE	1524	45.6	4.8	1.09	31.4	83.4
PHY 411 W3FE	1511	46.6	5.0	1.07	31.7	83.4
1150B437-04	1510	43.5	5.1	1.07	32.6	83.0
1130B333-04	1478	43.4	5.0	1.13	32.2	85.0
PHY 360 W3FE	1478	41.8	5.0	1.11	29.4	83.2
1150D490-04	1453	45.2	5.1	1.08	29.7	82.6
DP 2115 B3XF	1447	44.1	4.9	1.10	30.6	83.1
DP 2333 B3XF	1436	46.9	5.5	1.14	29.8	84.3
Armor 9383 B3TXF	1424	41.7	4.8	1.16	28.8	84.8
AMX160030-B B3XF	1375	44.4	5.2	1.14	31.1	84.2
NG 4343 B3TXF	1291	43.8	4.8	1.16	30.0	83.4
AMX20T157 B3XF	1274	44.4	4.9	1.15	31.1	84.8
1130D303-04	1268	42.7	5.0	1.11	34.3	84.1
DP 1822 XF	1267	41.1	4.8	1.15	32.4	83.3
AMX20T079 B3XF	1257	43.2	4.9	1.12	29.5	82.4
AMX20T114 B3XF	1245	43.1	5.1	1.14	29.1	84.6
AMX160030-A B3XF	1207	47.2	5.0	1.19	29.2	85.0
AMX21C005B3TXF	1182	42.8	4.3	1.14	31.3	84.2
NG 4335 B3TXF	1095	42.3	4.7	1.17	32.5	85.1
Average	1471	44.0	4.9	1.13	30.9	83.9
LSD @ 10% level	133					
CV	7					
Model R-square	0.74					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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CONVENTIONAL
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL
TABLE 11 – LOCATION SPECIFIC DATA

Variety	Lint Yield Lbs per Acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 1646 B2XF	**1604**	44.5	4.8	1.20	32.7	84.9
UA 222	**1534**	39.5	4.7	1.17	32.2	84.5
DG 3799 B3XF	**1464**	42.0	5.0	1.16	34.4	84.1
PHY 411 W3FE	1426	44.0	4.9	1.09	32.5	84.2
DP 1822 XF	1424	40.0	4.5	1.19	35.6	84.5
DP 2333 B3XF	1398	45.0	5.0	1.15	32.0	84.2
GA 1682	1381	43.0	5.1	1.11	34.5	83.9
AU 17015-23-233	1310	41.5	4.7	1.16	34.8	83.9
GA 1699	1266	44.0	5.3	1.10	31.5	84.7
UA 114	1259	37.0	4.8	1.16	33.1	85.3
ST 4595 B3XF	1245	42.0	4.9	1.12	32.1	84.2
AU 17018-48-358	1175	43.0	5.5	1.17	36.4	84.5
Average	1376	42.0	4.9	1.15	33.6	84.4
LSD @ 10% level	145					
CV	8					
Model R-square	0.61					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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IRRIGATED FULL SEASON
WIREGRASS RESEARCH AND EXTENSION CENTER
HEADLAND, AL

TABLE 12 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2127 B3XF	**2238**	47.0	5.2	1.14	31.7	84.6
1150D490-04	**2113**	44.5	4.7	1.14	30.7	82.6
DG 3528 B3XF	**2091**	45.0	4.5	1.20	33.5	85.4
Armor 9371 B3XF	**2080**	47.0	4.8	1.16	30.7	85.3
DP 2141NR B3XF	**2075**	44.5	4.9	1.15	32.3	83.1
DP 2333 B3XF	**2074**	45.5	4.8	1.16	31.2	82.1
DP 2211 B3TXF	**2062**	47.0	4.9	1.14	29.7	83.0
DP 1646 B2XF	**2048**	45.5	4.7	1.25	31.7	83.7
Armor 9831 B3XF	**2026**	45.0	4.9	1.14	30.4	82.7
DP 2038 B3XF	**2014**	48.0	5.0	1.13	32.6	82.3
NG 3195 B3XF	**2009**	45.0	4.7	1.14	33.6	83.0
DG 3799 B3XF	**1995**	44.5	5.0	1.18	33.2	83.4
ST 4595 B3XF	1969	45.5	5.0	1.17	31.1	84.3
ST 5091 B3XF	1961	45.5	4.5	1.17	31.9	83.1
AMX160030-B B3XF	1944	44.5	5.3	1.18	32.3	84.5
DG 3615 B3XF	1942	44.5	5.1	1.21	34.3	84.0
DG 3511 B3XF	1891	45.5	4.8	1.18	34.3	85.2
DP 2328 B3TXF	1889	47.0	4.6	1.19	31.6	83.1
DG 4484 B3TXF	1864	49.0	4.8	1.13	32.2	83.3
NG 4190 B3XF	1859	44.0	4.6	1.22	33.9	84.2
DP 2131 B3TXF	1856	46.5	4.6	1.21	30.0	83.2
1140B373-04	1834	44.0	4.9	1.16	33.6	84.4
PHY 545 W3FE	1811	45.5	4.9	1.14	32.0	82.5
1130D303-04	1800	43.5	4.9	1.13	32.7	84.3
1140A385-04	1797	45.0	5.0	1.13	32.3	83.7
1140D328-04	1777	43.0	4.4	1.19	34.8	83.6
NG 4343 B3TXF	1758	44.5	4.8	1.18	31.5	83.8
1150B437-04	1754	44.0	5.1	1.09	31.6	82.8
DP 2239 B3XF	1745	45.0	4.8	1.22	33.7	83.6
DP 2349NR B3XF	1743	46.0	4.3	1.18	31.6	84.8
ST 4990 B3XF	1740	42.5	5.0	1.20	32.7	84.6
DG 3519 B3XF	1732	45.0	4.8	1.22	35.7	85.9
1130B333-04	1703	44.5	4.7	1.16	36.2	85.1
Armor 9383 B3TXF	1701	42.0	4.7	1.17	31.8	84.7
PHY 400 W3FE	1698	44.0	5.0	1.13	32.3	82.1
PHY 411 W3FE	1665	45.5	4.9	1.16	30.7	83.2
AMX21C005B3TXF	1634	42.5	4.2	1.18	31.9	84.0
NG 4335 B3TXF	1622	43.5	4.7	1.20	33.0	84.2
DP 1822 XF	1605	41.0	4.9	1.11	32.8	81.9

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX20T079 B3XF	1604	42.0	4.6	1.22	32.2	84.0
AMX20T157 B3XF	1583	44.5	4.9	1.15	31.6	82.8
PHY 415 W3FE	1561	42.0	4.6	1.20	33.5	83.9
PHY 443 W3FE	1553	46.5	4.7	1.15	32.6	83.3
DG H959 B3XF	1514	42.5	4.7	1.14	34.3	84.2
AMX20T114 B3XF	1354	43.0	5.1	1.18	30.1	84.8
AMX160030-A B3XF	1208	46.5	4.7	1.21	33.2	84.8
Average	1811	44.7	4.8	1.17	32.5	83.7
LSD @ 10% level	254					
CV	12					
Model R-square	0.58					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NON-IRRIGATED FULL SEASON
WIREGRASS RESEARCH AND EXTENSION CENTER
HEADLAND, AL

TABLE 13 – LOCATION SPECIFIC DATA

Classing data is excluded for this location due to an incomplete dataset.

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2211 B3TXF	**1642**	44.5				
NG 4190 B3XF	**1608**	44.7				
DP 2127 B3XF	**1603**	45.6				
1140D328-04	**1585**	43.7				
1150B437-04	**1585**	43.2				
DG 3799 B3XF	**1561**	44.2				
PHY 415 W3FE	**1516**	43.1				
PHY 411 W3FE	**1512**	45.9				
DG 3511 B3XF	**1511**	45.1				
NG 3195 B3XF	**1493**	43.7				
1150D490-04	1476	45.4				
ST 5091 B3XF	1467	42.8				
Armor 9831 B3XF	1462	45.2				
PHY 400 W3FE	1454	43.7				
DP 2333 B3XF	1453	45.1				
DP 1646 B2XF	1449	45.2				
DP 2349NR B3XF	1448	46.2				
DG 3615 B3XF	1438	43.5				
DP 2131 B3TXF	1438	45.2				
ST 4595 B3XF	1434	43.5				
Armor 9371 B3XF	1432	45.0				
Armor 9383 B3TXF	1410	41.9				
PHY 545 W3FE	1405	46.1				
DP 2038 B3XF	1403	48.1				
DG 3519 B3XF	1402	44.7				
PHY 443 W3FE	1401	44.7				
DG 3528 B3XF	1386	44.8				
ST 4990 B3XF	1386	41.6				
AMX160030-B B3XF	1373	43.8				
DP 2141NR B3XF	1369	44.5				
DP 2328 B3TXF	1362	46.4				
1130B333-04	1329	42.5				
DP 1822 XF	1323	40.1				
1140A385-04	1323	42.4				
DP 2239 B3XF	1314	45.9				
1140B373-04	1312	43.3				
DG H959 B3XF	1280	41.0				
1130D303-04	1248	43.2				
NG 4335 B3TXF	1241	42.3				
NG 4343 B3TXF	1234	43.8				
DG 4484 B3TXF	1215	48.7				
AMX20T079 B3XF	1135	43.2				
AMX20T114 B3XF	1103	43.7				

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX160030-A B3XF	1096	46.3				
AMX21C005B3TXF	1058	43.1				
AMX20T157 B3XF	1044	42.5				
Average	1382	44.1				
LSD @ 10% level	164					
CV	9					
Model R-square	0.60					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TABLE 14 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
PHY 415 W3FE	**1636**	41.0	3.7	1.20	30.9	82.3
PHY 360 W3FE	**1575**	39.0	3.9	1.17	29.3	83.3
1130B333-04	**1569**	40.0	3.9	1.18	33.0	84.3
DP 2211 B3TXF	**1505**	41.1	3.6	1.17	29.5	83.6
1140A385-04	**1502**	41.5	3.7	1.18	30.8	85.1
1150B437-04	**1441**	40.2	3.6	1.18	33.8	83.3
Armor 9371 B3XF	**1439**	42.0	3.7	1.15	29.0	84.1
DP 1646 B2XF	**1409**	41.2	3.9	1.25	30.8	83.4
PHY 332 W3FE	**1396**	38.2	3.8	1.23	32.8	82.4
1130D303-04	**1393**	40.9	4.0	1.15	33.5	83.8
1140B373-04	**1378**	40.2	3.6	1.16	31.1	84.8
PHY 400 W3FE	**1353**	40.3	3.7	1.19	32.4	83.5
DP 2115 B3XF	**1353**	41.9	4.0	1.16	29.0	83.5
Armor 9383 B3TXF	**1349**	39.2	3.9	1.17	28.2	84.2
PHY 443 W3FE	**1335**	39.8	3.4	1.15	31.3	82.5
NG 3195 B3XF	1296	42.3	4.1	1.17	31.1	84.4
ST 4990 B3XF	1278	37.8	3.6	1.20	29.9	83.8
PHY 411 W3FE	1271	41.0	4.0	1.13	30.4	84.0
1140D328-04	1257	38.9	3.7	1.24	32.2	84.6
ST 4595 B3XF	1256	39.4	4.0	1.23	30.4	83.4
ST 5091 B3XF	1222	41.2	3.5	1.23	32.3	84.0
AMX160030-A B3XF	1193	43.8	3.7	1.28	30.5	84.0
DP 2127 B3XF	1152	40.9	3.9	1.14	29.9	83.6
NG 4335 B3TXF	1130	40.7	3.8	1.22	31.8	84.8
NG 4190 B3XF	1106	39.5	3.4	1.18	30.2	83.1
NG 4343 B3TXF	1101	40.2	3.2	1.19	29.6	82.8
DP 2333 B3XF	1098	42.9	4.0	1.19	31.6	83.7
DP 2012 B3XF	987	40.7	3.8	1.25	31.6	84.9
AMX20T079 B3XF	964	40.4	3.5	1.20	30.0	82.8
DP 1822 XF	932	39.4	4.0	1.23	33.0	83.9
1150D490-04	868	40.2	3.5	1.15	28.3	82.1
AMX21C005B3TXF	826	39.4	3.3	1.18	30.0	83.7
AMX160030-B B3XF	818	40.4	3.9	1.25	32.4	83.3
AMX20T114 B3XF	809	39.3	3.5	1.23	27.0	84.3
AMX20T157 B3XF	807	39.4	3.5	1.17	28.8	82.1
Average	1225	40.4	3.7	1.19	30.8	83.6
LSD @ 10% level	339					
CV	19					
Model R-square	0.58					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NON-IRRIGATED SHORT SEASON
WIREGRASS RESEARCH AND EXTENSION CENTER
HEADLAND, AL

TABLE 15 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
ST 4990 B3XF	**1717**	39.7	4.1	1.175	29.1	84.3
1130D303-04	**1644**	39.3	4.1	1.13	31.55	84.85
ST 5091 B3XF	**1624**	41.7	3.65	1.17	30.3	83
NG 4190 B3XF	**1621**	40.7	3.5	1.185	28.8	84.45
DP 2115 B3XF	**1617**	42.7	3.9	1.175	28.9	84.6
PHY 400 W3FE	**1574**	40.9	3.65	1.19	32.65	83.25
DP 2012 B3XF	**1558**	40.6	3.85	1.215	31.35	84.5
NG 3195 B3XF	**1541**	42.0	4.05	1.16	30	84.4
DP 1646 B2XF	**1523**	41.3	3.75	1.26	28.65	84.45
PHY 415 W3FE	**1509**	40.4	3.85	1.21	32.9	85.25
1140D328-04	**1502**	39.8	3.45	1.185	32.3	83.45
1140A385-04	**1498**	42.8	3.95	1.16	32.2	86.75
ST 4595 B3XF	**1476**	43.0	3.9	1.2	28.7	84.65
PHY 411 W3FE	**1470**	41.1	4.1	1.135	30.3	83.25
DP 2211 B3TXF	**1458**	41.7	3.5	1.175	28.5	84.1
1150D490-04	**1441**	41.0	3.65	1.17	28.5	84.55
DP 1822 XF	**1405**	38.3	3.8	1.24	33.15	85.5
PHY 360 W3FE	1363	39.4	3.9	1.175	29.3	84.9
DP 2127 B3XF	1343	42.7	3.9	1.15	29.05	85.15
PHY 443 W3FE	1282	41.3	3.85	1.165	32.45	85.65
NG 4343 B3TXF	1262	40.2	3.2	1.225	29.3	83.85
Armor 9383 B3TXF	1244	38.7	3.55	1.17	28.5	83.8
PHY 332 W3FE	1206	40.1	3.8	1.195	31.25	84.1
1150B437-04	1194	40.7	3.65	1.13	31.7	83.45
1130B333-04	1186	39.3	3.6	1.175	31.65	84.85
1140B373-04	1157	40.3	3.65	1.17	29.9	84.95
AMX21C005B3TXF	1130	39.5	3.4	1.16	28.55	84.2
DP 2333 B3XF	1125	44.2	4	1.165	29.3	83.35
AMX160030-B B3XF	1116	41.6	3.7	1.22	29.8	84.9
Armor 9371 B3XF	1043	41.8	3.45	1.165	28.5	84.75
AMX160030-A B3XF	1023	42.2	3.3	1.245	28.85	84.55
AMX20T157 B3XF	980	39.7	3.05	1.195	28.75	83.25
AMX20T079 B3XF	968	40.6	3.65	1.21	29.2	83.9
AMX20T114 B3XF	935	42.6	3.55	1.205	29.5	84.9
NG 4335 B3TXF	905	40.3	3.7	1.17	29.9	85.7
Average	1335	40.8	3.7	1.18	30.2	84.4
LSD @ 10% level	347					
CV	22					
Model R-square	0.47					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TABLE 16 – LOCATION SPECIFIC DATA

Percent lint from both EV Smith Full Season trials were combined.

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
PHY 415 W3FE	**1858**	44.2	4.7	1.17	34.4	83.6
NG 4190 B3XF	**1804**	45.8	4.8	1.19	33.8	85.3
1140B373-04	**1785**	43.4	5.0	1.14	33.4	85.1
ST 4595 B3XF	**1752**	45.8	5.0	1.16	32.9	83.8
1150B437-04	**1751**	44.6	4.5	1.14	33.2	82.6
1130B333-04	**1745**	42.2	4.6	1.17	36.3	85.4
PHY 400 W3FE	**1715**	45.1	4.4	1.17	34.6	82.9
DG 3615 B3XF	**1681**	45.0	5.0	1.15	33.6	83.0
ST 5091 B3XF	**1675**	43.0	4.5	1.13	29.9	82.1
NG 3195 B3XF	**1594**	43.6	4.9	1.16	32.4	85.0
PHY 443 W3FE	**1586**	45.6	4.6	1.15	32.7	84.2
1140D328-04	**1569**	46.4	5.0	1.17	33.8	84.2
Armor 9383 B3TXF	**1554**	42.0	4.4	1.16	29.9	84.5
PHY 545 W3FE	**1552**	46.0	4.7	1.13	33.3	83.8
DP 2141NR B3XF	**1545**	44.9	4.9	1.17	34.5	84.0
DP 2333 B3XF	**1528**	44.5	4.6	1.16	32.1	83.5
DP 1646 B2XF	**1503**	46.1	4.8	1.22	31.3	83.9
DP 2349NR B3XF	**1483**	46.2	4.9	1.13	32.4	83.2
DP 1822 XF	**1480**	44.4	4.4	1.18	33.1	83.8
DP 2127 B3XF	**1478**	46.2	5.2	1.18	35.3	85.6
Armor 9371 B3XF	1455	44.5	5.1	1.16	33.7	84.6
DP 2211 B3TXF	1421	43.1	4.8	1.17	32.8	83.7
1150D490-04	1420	45.1	4.7	1.17	34.6	84.2
DG 3519 B3XF	1418	45.0	4.7	1.25	35.4	86.2
NG 4335 B3TXF	1408	44.4	4.6	1.20	33.0	85.2
DP 2131 B3TXF	1384	45.5	4.6	1.19	31.6	82.9
DP 2239 B3XF	1379	46.3	4.8	1.21	32.7	83.9
PHY 411 W3FE	1375	46.7	4.8	1.12	33.8	83.5
DG H959 B3XF	1344	40.1	4.8	1.15	35.8	84.7
1130D303-04	1318	43.7	4.8	1.15	36.2	84.3
AMX20T157 B3XF	1312	43.8	4.7	1.19	33.8	84.6
1140A385-04	1292	46.9	4.9	1.11	34.4	83.6
ST 4990 B3XF	1289	39.0	4.4	1.17	32.2	84.1
DP 2328 B3TXF	1279	47.0	4.7	1.14	32.5	83.1
DP 2038 B3XF	1275	47.2	5.0	1.15	35.6	84.0
NG 4343 B3TXF	1267	45.4	4.6	1.15	31.2	84.1
DG 3511 B3XF	1259	44.8	5.1	1.16	34.8	84.7

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX160030-B B3XF	1240	43.4	4.9	1.16	33.4	84.0
DG 3799 B3XF	1192	42.8	5.2	1.14	33.6	83.6
DG 3528 B3XF	1179	44.8	4.7	1.17	32.3	84.0
AMX20T114 B3XF	1162	45.0	5.0	1.16	34.3	84.7
AMX20T079 B3XF	1136	42.2	4.7	1.19	31.6	83.7
AMX160030-A B3XF	1113	44.7	4.9	1.17	31.9	83.6
DG 4484 B3TXF	1083	47.1	4.8	1.11	34.6	83.6
Armor 9831 B3XF	1037	44.3	5.2	1.17	34.8	83.9
AMX21C005B3TXF	1003	42.3	4.3	1.16	31.9	84.9
Average	1423	44.5	4.7	1.16	33.4	84.0
LSD @ 10% level	402					
CV	19					
Model R-square	0.46					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TABLE 17 – LOCATION SPECIFIC DATA

Percent lint from both EV Smith Full Season trials were combined. Only three replications were used to compile this dataset.

Variety	Lint Yield Lbs per Acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2239 B3XF	**1309**	46.3	4.8	1.17	31.2	83.9
DP 2131 B3TXF	**1270**	45.5	4.8	1.11	32.5	83.8
PHY 415 W3FE	**1226**	44.2	4.8	1.15	32.8	83.4
1140A385-04	**1219**	46.9	5.0	1.11	34.3	84.3
1130B333-04	**1210**	42.2	4.8	1.12	30.7	83.8
DP 2127 B3XF	**1208**	46.2	4.8	1.10	30.7	84.5
ST 4595 B3XF	**1201**	45.8	4.8	1.14	31.6	82.3
DG 3615 B3XF	**1193**	45.0	5.0	1.15	31.5	84.5
Armor 9371 B3XF	**1187**	44.5	4.8	1.11	31.0	83.4
NG 4190 B3XF	**1185**	45.8	4.8	1.13	30.3	83.6
DG 3519 B3XF	**1183**	45.0	4.7	1.17	33.0	84.1
1150D490-04	**1179**	45.1	4.2	1.13	29.5	81.5
DP 2333 B3XF	**1152**	44.5	4.8	1.12	33.0	83.6
1130D303-04	**1113**	43.7	4.8	1.10	31.4	82.8
NG 3195 B3XF	**1103**	43.6	4.6	1.11	30.9	83.4
1140D328-04	**1102**	46.4	4.9	1.11	30.2	82.7
DP 2141NR B3XF	**1098**	44.9	4.8	1.12	31.4	82.2
1150B437-04	**1075**	44.6	4.8	1.12	32.4	83.3
DG 3511 B3XF	**1074**	44.8	5.0	1.12	32.8	83.6
NG 4343 B3TXF	**1062**	45.4	4.6	1.14	31.9	82.4
DP 2038 B3XF	**1059**	47.2	4.9	1.09	30.6	83.0
PHY 411 W3FE	**1047**	46.7	5.0	1.08	30.5	81.9
1140B373-04	**1043**	43.4	4.6	1.13	30.7	83.2
PHY 400 W3FE	**1033**	45.1	4.7	1.16	34.7	83.3
DG 3528 B3XF	1016	44.8	4.7	1.13	31.0	84.3
DP 2349NR B3XF	1011	46.2	5.2	1.10	32.0	83.6
DP 2328 B3TXF	1010	47.0	4.6	1.12	30.2	83.6
DG 4484 B3TXF	1007	47.1	4.7	1.16	31.4	82.8
DP 2211 B3TXF	1007	43.1	4.7	1.12	30.3	83.5
DP 1646 B2XF	983	46.1	4.4	1.16	31.1	83.7
NG 4335 B3TXF	981	44.4	5.0	1.12	31.8	84.7
DG H959 B3XF	971	40.1	4.9	1.11	32.0	83.4
DP 1822 XF	953	44.4	4.9	1.14	32.1	82.7
AMX20T157 B3XF	928	43.8	4.6	1.14	33.1	83.8
Armor 9383 B3TXF	922	42.0	4.6	1.13	30.4	84.0
ST 5091 B3XF	891	43.0	4.5	1.11	31.3	82.0
AMX21C005B3TXF	890	42.3	4.8	1.10	33.9	83.7

Variety	Lint Yield Lbs per Acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
PHY 443 W3FE	877	45.6	4.7	1.13	30.4	83.5
Armor 9831 B3XF	854	44.3	5.2	1.10	31.4	83.2
PHY 545 W3FE	849	46.0	4.7	1.14	31.3	83.8
AMX20T079 B3XF	844	42.2	4.8	1.11	31.9	82.9
AMX160030-A B3XF	790	44.7	4.5	1.14	30.2	83.5
AMX20T114 B3XF	785	45.0	4.9	1.10	31.9	83.2
ST 4990 B3XF	743	39.0	4.7	1.15	31.5	83.5
DG 3799 B3XF	691	42.8	4.8	1.10	30.9	82.6
AMX160030-B B3XF	640	43.4	4.6	1.12	31.1	82.8
Average	1020	44.5	4.7	1.12	31.5	83.3
LSD @ 10% level	286					
CV	23					
Model R-square	0.37					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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IRRIGATED SHORT SEASON

E.V. SMITH RESEARCH AND EXTENSION CENTER
PLANT BREEDING UNIT - TALLASSEE, AL

TABLE 18 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2127 B3XF	**1255**	41.5	4.4	1.16	32.3	84.0
DP 2211 B3TXF	**1238**	43.5	4.7	1.15	29.8	84.9
1140A385-04	**1209**	45.5	4.7	1.24	31.3	85.4
ST 5091 B3XF	**1191**	41.0	4.8	1.21	35.4	85.1
PHY 360 W3FE	**1125**	42.5	4.7	1.14	35.0	83.8
1150B437-04	**1113**	42.5	4.9	1.14	33.1	84.1
Armor 9383 B3TXF	**1111**	41.5	4.4	1.18	31.3	84.9
NG 3195 B3XF	**1091**	43.0	4.6	1.12	32.3	84.0
PHY 332 W3FE	**1087**	40.0	4.4	1.19	33.1	85.2
DP 1646 B2XF	**1069**	43.0	4.8	1.20	34.8	85.2
NG 4335 B3TXF	1027	40.0	4.6	1.15	32.0	84.8
PHY 411 W3FE	1004	43.0	4.4	1.16	31.9	84.5
DP 2115 B3XF	994	41.5	4.9	1.15	34.0	85.1
1140B373-04	987	41.5	5.1	1.12	32.0	85.0
1130D303-04	982	42.0	4.5	1.18	31.9	85.0
NG 4190 B3XF	972	43.0	4.5	1.15	33.0	84.5
AMX21C005B3TXF	942	40.0	4.3	1.15	30.1	84.5
NG 4343 B3TXF	916	41.5	4.7	1.18	32.1	85.5
AMX20T157 B3XF	914	43.0	4.8	1.16	33.6	84.8
PHY 415 W3FE	902	40.5	4.4	1.20	35.2	85.2
ST 4595 B3XF	901	41.5	4.6	1.16	32.8	85.4
AMX20T079 B3XF	874	38.5	4.6	1.16	33.5	84.7
1140D328-04	867	41.0	4.1	1.21	34.2	84.4
Armor 9371 B3XF	857	40.5	4.9	1.16	31.1	85.0
DP 2012 B3XF	849	41.0	4.9	1.12	35.4	84.4
AMX160030-A B3XF	832	42.5	4.8	1.19	31.0	84.0
PHY 400 W3FE	831	39.5	4.7	1.11	30.6	83.6
PHY 443 W3FE	825	42.0	4.6	1.15	31.5	83.5
1130B333-04	819	37.5	4.7	1.16	33.6	84.8
DP 2333 B3XF	803	41.5	4.6	1.20	31.7	84.1
ST 4990 B3XF	779	38.5	4.4	1.22	33.2	85.6
AMX160030-B B3XF	732	38.5	4.8	1.21	35.8	84.9
AMX20T114 B3XF	670	42.0	4.8	1.15	31.4	84.7
DP 1822 XF	645	37.0	4.6	1.20	33.9	85.4
1150D490-04	331	39.0	4.8	1.17	32.7	85.0
Average	932	41.0	4.6	1.17	32.8	84.7

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
LSD @ 10% level	201					
CV	18					
Model R-square	0.62					

Bolded yields are NOT statistically different from the highest yielding entry.
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Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

TABLE 19 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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CONVENTIONAL
E.V. SMITH RESEARCH AND EXTENSION CENTER
PLANT BREEDING UNIT - SHORTER, AL
TABLE 19 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
ST 4595 B3XF	**1892**	46.9	4.6	1.14	30.8	82.5
PHY 411 W3FE	**1873**	45.9	4.8	1.07	31.0	83.0
DP 2333 B3XF	**1753**	43.4	4.7	1.09	31.7	82.1
DG 3799 B3XF	1693	43.4	4.6	1.11	32.2	83.0
DP 1646 B2XF	1676	43.9	4.8	1.17	30.4	84.0
GA 1682	1322	43.7	5.7	1.09	35.3	83.0
AU 17015-23-233	1307	40.3	4.5	1.16	33.2	83.9
DP 1822 XF	1273	40.6	4.6	1.18	35.2	83.8
UA 222	1269	40.5	4.7	1.21	33.8	84.1
UA 114	1115	37.9	4.9	1.14	32.2	84.4
GA 1699	1044	44.3	4.8	1.12	32.0	84.0
AU 17018-48-358	1042	40.5	5.3	1.17	34.3	84.8
Average	1424	42.5	4.8	1.14	32.9	83.5
LSD @ 10% level	185					
CV	11					
Model R-square	0.84					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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IRRIGATED FULL SEASON

PRATTVILLE AGRICULTURAL RESEARCH UNIT

PRATTVILLE, AL

TABLE 20 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DG 3799 B3XF	**2091**	44.8	5.2	1.18	31.7	84.7
DP 2239 B3XF	**2046**	45.5	5.0	1.22	31.7	85.3
DP 2038 B3XF	**2044**	47.5	5.0	1.11	29.2	82.0
PHY 400 W3FE	**2004**	45.0	4.9	1.18	32.6	84.5
1140A385-04	**1984**	46.8	5.3	1.15	34.1	85.1
1150B437-04	**1978**	44.8	5.0	1.11	31.6	83.1
DP 2127 B3XF	**1969**	46.3	5.1	1.13	31.0	84.9
DG 3528 B3XF	**1964**	45.5	4.8	1.18	31.0	84.2
DG 3511 B3XF	**1940**	45.3	5.2	1.16	32.5	85.0
PHY 415 W3FE	**1921**	44.8	5.0	1.22	35.4	85.5
DG 3615 B3XF	**1898**	44.8	5.1	1.17	30.8	84.3
1150D490-04	**1894**	46.0	4.9	1.14	28.8	82.4
1140B373-04	**1886**	44.5	4.8	1.15	33.4	85.4
PHY 443 W3FE	**1871**	45.3	4.6	1.15	32.4	84.7
ST 4595 B3XF	**1868**	45.0	5.1	1.17	29.7	83.0
ST 5091 B3XF	**1857**	45.8	4.9	1.17	28.6	83.6
NG 4190 B3XF	1841	44.8	5.0	1.18	30.7	84.2
DG 3519 B3XF	1839	45.5	4.8	1.24	32.1	85.3
DP 2211 B3TXF	1827	45.8	4.7	1.14	29.5	83.9
DP 1646 B2XF	1817	45.0	4.9	1.22	30.0	83.4
Armor 9831 B3XF	1817	44.5	5.3	1.16	31.4	83.7
PHY 411 W3FE	1795	47.8	4.8	1.11	30.6	83.7
ST 4990 B3XF	1787	42.6	4.8	1.19	30.2	85.0
PHY 545 W3FE	1766	47.0	4.9	1.12	31.9	83.9
Armor 9371 B3XF	1750	46.0	5.2	1.16	30.4	85.0
1140D328-04	1746	44.5	5.0	1.22	34.4	84.5
1130B333-04	1725	44.3	5.0	1.15	31.9	85.0
NG 4343 B3TXF	1725	43.3	4.5	1.19	30.9	83.9
DP 2328 B3TXF	1719	45.5	5.0	1.17	31.6	82.8
DP 2333 B3XF	1657	45.8	5.3	1.14	31.3	84.1
AMX160030-B B3XF	1649	44.0	5.3	1.18	32.1	84.2
DG H959 B3XF	1634	42.3	5.0	1.13	32.3	85.0
DG 4484 B3TXF	1619	48.0	5.1	1.15	31.0	84.4
DP 2131 B3TXF	1616	45.8	4.6	1.23	30.0	84.7
DP 2349NR B3XF	1612	46.0	5.4	1.17	30.8	83.4

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
NG 3195 B3XF	1608	43.5	4.8	1.15	31.7	84.2
1130D303-04	1560	43.8	4.9	1.15	33.6	85.4
DP 2141NR B3XF	1559	44.8	5.2	1.18	33.2	84.2
AMX160030-A B3XF	1507	46.5	4.8	1.23	30.4	84.9
Armor 9383 B3TXF	1491	43.0	5.0	1.16	28.9	84.8
AMX20T157 B3XF	1479	44.5	4.8	1.18	31.1	85.2
DP 1822 XF	1422	42.0	4.7	1.21	33.2	84.9
NG 4335 B3TXF	1405	42.3	4.8	1.20	32.4	85.6
AMX20T079 B3XF	1349	44.3	4.8	1.15	30.4	83.9
AMX21C005B3TXF	1340	43.5	4.8	1.17	30.2	84.4
AMX20T114 B3XF	1247	43.3	5.3	1.19	30.1	84.7
Average	1739	44.9	4.9	1.17	31.4	84.3
LSD @ 10% level	247					
CV	12					
Model R-square	0.58					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NON-IRRIGATED FULL SEASON

PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 21 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
NG 4190 B3XF	**1854**	44.8	4.9	1.14	30.7	83.6
DP 2127 B3XF	**1772**	46.3	5.0	1.07	29.3	82.5
ST 5091 B3XF	**1748**	45.8	4.9	1.12	29.4	81.4
DG 3799 B3XF	**1729**	44.8	5.0	1.14	32.2	83.0
PHY 415 W3FE	**1705**	44.8	5.0	1.17	34.7	84.1
DG 3615 B3XF	**1693**	44.8	5.0	1.17	33.7	83.8
DG 3528 B3XF	**1692**	45.5	4.8	1.17	32.4	84.3
DP 2349NR B3XF	**1688**	46.0	5.1	1.13	34.0	84.4
DP 1646 B2XF	**1651**	45.0	4.8	1.23	30.9	83.3
DP 2038 B3XF	**1645**	47.5	5.0	1.09	30.3	81.5
Armor 9371 B3XF	**1642**	46.0	5.0	1.12	29.5	83.1
DG 4484 B3TXF	**1636**	48.0	4.9	1.13	32.0	83.6
1140B373-04	**1635**	44.5	5.0	1.12	33.1	84.6
PHY 443 W3FE	**1628**	45.3	4.8	1.12	33.7	83.1
DG 3519 B3XF	1603	45.5	4.7	1.19	31.5	84.2
1140A385-04	1588	46.8	5.3	1.10	33.8	83.7
ST 4595 B3XF	1578	45.0	5.1	1.14	30.6	82.5
1150B437-04	1578	44.8	5.0	1.09	33.9	81.8
PHY 545 W3FE	1567	47.0	4.9	1.15	31.4	82.9
1150D490-04	1565	46.0	4.8	1.09	29.3	80.5
DG H959 B3XF	1555	42.3	4.7	1.12	32.7	83.9
DG 3511 B3XF	1541	45.3	5.0	1.16	35.9	84.5
Armor 9831 B3XF	1535	44.5	5.2	1.08	31.2	81.6
PHY 411 W3FE	1515	47.8	5.0	1.10	32.3	82.9
DP 2131 B3TXF	1511	45.8	4.7	1.18	29.9	83.0
1130D303-04	1499	43.8	4.8	1.10	32.3	83.4
DP 2239 B3XF	1483	45.5	5.2	1.19	31.3	83.4
NG 3195 B3XF	1477	43.5	4.9	1.13	31.6	83.1
ST 4990 B3XF	1473	42.6	4.7	1.12	28.5	82.0
DP 2328 B3TXF	1460	45.5	4.6	1.12	31.4	82.1
DP 2141NR B3XF	1434	44.8	5.4	1.14	34.1	83.5
DP 2211 B3TXF	1428	45.8	5.1	1.12	29.7	83.2
DP 2333 B3XF	1426	45.8	5.1	1.14	31.9	82.9
1140D328-04	1406	44.5	4.7	1.20	36.0	83.9
PHY 400 W3FE	1405	45.0	4.6	1.14	32.2	82.6
DP 1822 XF	1404	42.0	4.7	1.19	34.8	83.1
1130B333-04	1403	44.3	5.1	1.12	33.7	84.6

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
AMX20T157 B3XF	1325	44.5	5.0	1.13	30.7	83.2
Armor 9383 B3TXF	1319	43.0	5.0	1.14	29.6	84.1
AMX21C005B3TXF	1297	43.5	4.7	1.15	31.0	83.7
AMX20T079 B3XF	1270	44.3	4.8	1.16	29.4	83.4
AMX160030-B B3XF	1223	44.0	5.0	1.14	33.5	83.6
NG 4343 B3TXF	1215	43.3	5.0	1.14	29.1	83.1
NG 4335 B3TXF	1169	42.3	4.9	1.17	33.5	85.0
AMX160030-A B3XF	1147	46.5	4.8	1.20	32.7	84.1
AMX20T114 B3XF	996	43.3	5.0	1.16	29.5	84.4
Average	1499	44.9	4.9	1.14	31.9	83.2
LSD @ 10% level	238					
CV	13					
Model R-square	0.51					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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IRRIGATED SHORT SEASON

PRATTVILLE AGRICULTURAL RESEARCH UNIT

PRATTVILLE, AL

TABLE 22 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
1130B333-04	**1559**	42.2	4.6	1.16	35.0	84.7
DP 2333 B3XF	**1552**	44.0	4.4	1.15	32.1	84.1
DP 2115 B3XF	**1499**	44.1	4.7	1.19	31.8	83.9
DP 2211 B3TXF	**1498**	43.9	4.3	1.20	30.3	84.1
ST 4595 B3XF	**1496**	42.9	4.5	1.19	33.4	84.5
PHY 400 W3FE	**1488**	43.1	4.3	1.21	34.8	84.6
1140B373-04	**1485**	44.8	4.8	1.17	32.2	84.6
PHY 332 W3FE	**1465**	43.3	4.2	1.16	30.1	83.6
PHY 415 W3FE	**1458**	41.8	4.2	1.26	35.7	85.3
NG 3195 B3XF	**1450**	43.6	4.5	1.18	32.8	84.4
PHY 411 W3FE	**1443**	43.8	4.6	1.21	31.5	84.6
NG 4190 B3XF	**1442**	43.5	4.4	1.19	31.5	84.2
ST 5091 B3XF	**1436**	41.3	4.2	1.20	31.4	83.2
ST 4990 B3XF	**1435**	41.0	4.3	1.18	34.3	84.5
DP 1646 B2XF	**1424**	42.3	4.1	1.25	33.5	84.3
1150D490-04	**1412**	41.8	4.1	1.19	34.2	83.3
AMX160030-B B3XF	**1398**	41.3	4.4	1.22	32.7	84.3
AMX20T114 B3XF	**1395**	43.7	4.5	1.17	33.9	83.9
AMX20T157 B3XF	**1380**	42.4	4.4	1.18	33.4	84.1
PHY 360 W3FE	1366	40.9	4.3	1.17	32.1	83.4
PHY 443 W3FE	1360	42.7	4.8	1.16	35.2	85.6
DP 2127 B3XF	1346	41.0	4.6	1.22	35.7	85.8
1140D328-04	1346	41.7	4.6	1.22	33.8	84.8
AMX20T079 B3XF	1344	42.2	4.3	1.24	34.3	85.5
1150B437-04	1331	41.9	4.4	1.18	34.3	84.0
DP 1822 XF	1324	43.6	4.3	1.22	32.9	84.6
Armor 9371 B3XF	1323	41.3	4.1	1.20	32.5	84.5
NG 4343 B3TXF	1311	41.4	4.4	1.23	33.0	84.4
DP 2012 B3XF	1311	38.7	4.3	1.24	35.1	85.4
Armor 9383 B3TXF	1310	40.8	4.7	1.22	34.1	85.1
1140A385-04	1235	41.6	4.6	1.18	33.4	84.5
NG 4335 B3TXF	1235	40.5	4.4	1.20	34.3	84.6
AMX21C005B3TXF	1219	41.1	4.1	1.22	32.7	84.2
1130D303-04	1165	40.3	4.5	1.16	34.2	84.3
AMX160030-A B3XF	1115	43.4	4.2	1.25	30.9	84.2
Average	1381	42.2	4.4	1.20	33.3	84.4

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
LSD @ 10% level	193					
CV	12					
Model R-square	0.38					

Bolded yields are NOT statistically different from the highest yielding entry.
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Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

NON-IRRIGATED SHORT SEASON

PRATTVILLE AGRICULTURAL RESEARCH UNIT
PRATTVILLE, AL

TABLE 23 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 1822 XF	1411	43.3	4.6	1.15	32.7	83.0
AMX20T157 B3XF	1395	43.8	4.5	1.21	33.4	82.9
DP 2333 B3XF	1392	43.6	4.6	1.15	34.3	83.5
ST 4595 B3XF	1391	43.2	4.2	1.18	32.8	84.3
1150B437-04	1371	43.0	4.6	1.19	35.8	83.7
1140B373-04	1371	45.2	4.6	1.18	31.5	84.2
NG 4343 B3TXF	1366	42.7	4.6	1.17	32.6	85.0
Armor 9383 B3TXF	1358	43.3	4.6	1.18	31.1	83.6
NG 4335 B3TXF	1331	43.5	4.3	1.18	32.7	83.8
DP 1646 B2XF	1329	42.2	4.1	1.18	30.9	84.4
DP 2211 B3TXF	1312	43.0	4.1	1.17	33.1	83.3
NG 4190 B3XF	1286	43.5	4.4	1.16	32.1	83.2
AMX21C005B3TXF	1283	42.4	4.3	1.21	32.5	83.7
AMX20T114 B3XF	1282	42.3	4.2	1.18	33.2	83.8
AMX20T079 B3XF	1277	41.8	4.3	1.14	32.4	83.7
AMX160030-B B3XF	1272	43.3	4.6	1.16	33.2	85.0
DP 2127 B3XF	1254	43.0	4.5	1.17	33.5	83.9
PHY 332 W3FE	1244	42.9	4.5	1.20	32.8	84.0
1130B333-04	1243	44.2	4.7	1.14	32.5	84.9
PHY 360 W3FE	1232	43.0	4.3	1.20	30.8	84.4
1140A385-04	1232	41.5	4.5	1.20	31.4	83.3
ST 4990 B3XF	1208	42.2	4.4	1.19	28.7	83.3
PHY 443 W3FE	1201	43.2	4.4	1.20	33.1	85.6
ST 5091 B3XF	1186	43.0	4.5	1.18	31.1	83.9
PHY 415 W3FE	1186	42.8	4.3	1.19	31.9	84.5
PHY 400 W3FE	1184	41.9	4.2	1.18	32.2	84.0
1130D303-04	1176	41.8	4.3	1.15	31.2	82.8
NG 3195 B3XF	1173	41.5	4.4	1.20	32.8	84.5
1140D328-04	1171	41.9	4.3	1.18	31.9	83.0
1150D490-04	1164	41.9	4.4	1.18	32.5	83.9
DP 2115 B3XF	1156	41.7	4.2	1.23	33.7	85.0
PHY 411 W3FE	1149	41.4	4.2	1.20	33.5	84.7
Armor 9371 B3XF	1129	41.0	4.2	1.17	32.4	84.4
AMX160030-A B3XF	1116	42.4	4.5	1.19	33.7	85.2
DP 2012 B3XF	1073	42.4	4.1	1.17	31.1	84.6

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
Average	1256	42.8	4.4	1.18	32.4	84.0
LSD @ 10% level	N.S.					
CV	15					
Model R-square	0.24					

Bolded yields are NOT statistically different from the highest yielding entry.
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N.S. –differences are statistically non-significant.

IRRIGATED FULL SEASON
TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
BELLE MINA, AL

TABLE 24 – LOCATION SPECIFIC DATA

On October 23, a second harvest was conducted. As a result, percent first harvest is reported for lint yields (harvest 1 + 2).

Variety	Lint Yield pounds per acre	Percent First Harvest	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
PHY 400 W3FE	**2823**	91%	44.1	3.7	1.21	33.7	84.6
ST 4595 B3XF	**2785**	93%	45.2	4.5	1.23	29.3	85.6
DP 2127 B3XF	**2744**	93%	45.1	4.7	1.18	30.8	85.7
Armor 9371 B3XF	2619	91%	44.4	4.1	1.19	29.6	85.8
DG 3511 B3XF	2579	88%	45.3	4.6	1.20	32.0	86.0
Armor 9831 B3XF	2579	91%	44.4	4.6	1.18	30.7	84.0
1140B373-04	2568	93%	42.1	3.8	1.23	31.8	85.5
DP 2211 B3TXF	2549	94%	44.1	4.2	1.22	30.6	85.6
DG 3519 B3XF	2543	91%	44.5	4.3	1.24	32.4	86.4
1130B333-04	2532	91%	42.8	4.1	1.21	33.4	85.9
NG 4343 B3TXF	2517	95%	42.8	4.2	1.22	30.7	85.1
NG 3195 B3XF	2516	92%	43.7	4.1	1.19	32.2	85.5
1140D328-04	2491	92%	42.4	4.1	1.22	33.7	84.7
PHY 415 W3FE	2488	92%	43.8	4.5	1.21	33.4	85.1
DG 3615 B3XF	2486	87%	43.4	4.4	1.22	33.1	84.3
1140A385-04	2475	92%	44.7	4.2	1.20	32.4	86.7
ST 5091 B3XF	2475	91%	42.3	3.9	1.23	31.2	84.3
PHY 411 W3FE	2474	92%	45.2	4.4	1.14	30.8	84.8
DP 2239 B3XF	2466	90%	43.7	3.8	1.28	31.4	84.8
NG 4190 B3XF	2460	93%	43.6	4.1	1.21	30.5	85.4
DG 3528 B3XF	2459	92%	44.1	4.2	1.24	29.9	85.4
DP 1646 B2XF	2457	91%	43.5	3.8	1.27	30.8	85.6
DP 2131 B3TXF	2428	94%	45.0	4.2	1.23	31.2	85.3
PHY 545 W3FE	2412	89%	45.3	4.2	1.20	31.6	85.5
DP 2038 B3XF	2376	88%	46.8	4.5	1.18	30.7	84.9
ST 4990 B3XF	2366	94%	39.8	4.2	1.25	31.2	86.3
PHY 443 W3FE	2310	89%	43.0	4.6	1.16	31.6	85.5
DG 3799 B3XF	2300	86%	42.6	3.8	1.20	30.8	83.4
1130D303-04	2291	93%	44.7	4.5	1.15	31.3	84.7
AMX20T157 B3XF	2276	95%	42.5	4.1	1.24	31.1	86.8
DP 2328 B3TXF	2257	94%	44.0	4.0	1.20	30.7	84.8
DP 2141NR B3XF	2240	92%	43.5	4.4	1.21	32.1	84.1
NG 4335 B3TXF	2224	92%	41.3	4.3	1.21	31.0	85.5
AMX20T079 B3XF	2211	93%	43.8	4.6	1.24	30.2	86.4

Variety	Lint Yield pounds per acre	Percent First Harvest	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DG H959 B3XF	2184	89%	40.8	4.1	1.18	31.7	85.4
DP 2333 B3XF	2152	93%	45.2	4.5	1.19	29.4	83.6
DP 1822 XF	2140	89%	41.8	4.0	1.27	33.4	86.1
1150B437-04	2126	90%	41.3	4.3	1.15	34.3	84.7
DP 2349NR B3XF	2056	89%	43.9	4.2	1.20	30.7	84.3
AMX160030-B B3XF	2050	88%	43.0	4.5	1.21	32.8	84.4
Armor 9383 B3TXF	2045	98%	40.5	4.1	1.18	29.5	84.9
DG 4484 B3TXF	2043	89%	47.0	4.1	1.18	31.4	84.6
1150D490-04	1997	84%	42.0	3.8	1.19	31.5	85.0
AMX21C005B3TXF	1966	94%	42.1	4.1	1.20	31.2	85.3
AMX160030-A B3XF	1960	93%	43.1	4.3	1.27	30.7	84.5
AMX20T114 B3XF	1931	90%	43.7	4.0	1.25	30.2	85.8
Average	2349	91%	43.5	4.2	1.21	31.4	85.1
LSD @ 10% level	185	4%	44.1				
CV	8	3	45.2				
Model R-square	0.78	0.51	45.1				

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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NON-IRRIGATED FULL SEASON

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER

BELLE MINA, AL

TABLE 25 – LOCATION SPECIFIC DATA

Percent lint from both TVREC Full Season trials were combined for this trial.

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2127 B3XF	**2429**	45.8	4.9	1.16	28.5	85.4
Armor 9371 B3XF	**2427**	45.8	4.5	1.17	28.1	85.8
Armor 9831 B3XF	**2375**	45.4	4.9	1.17	30.0	84.4
1140B373-04	**2305**	43.3	4.0	1.16	30.8	85.1
PHY 411 W3FE	**2303**	45.9	4.4	1.14	29.1	84.9
1140D328-04	**2299**	44.1	4.8	1.20	31.5	85.7
DP 2038 B3XF	**2289**	48.1	4.5	1.15	28.4	84.2
DP 2239 B3XF	**2266**	44.4	4.5	1.25	30.0	85.8
DG 3519 B3XF	**2261**	44.8	4.2	1.22	31.5	86.5
PHY 545 W3FE	**2256**	45.5	4.2	1.15	29.2	85.1
NG 4343 B3TXF	**2253**	43.3	4.3	1.21	30.0	85.4
PHY 400 W3FE	**2252**	44.9	4.5	1.19	30.5	85.4
DG 3528 B3XF	**2249**	45.1	4.0	1.19	27.8	85.7
1130D303-04	**2246**	44.3	4.3	1.17	30.7	85.1
NG 4190 B3XF	**2244**	44.9	4.6	1.20	28.9	85.4
DP 2328 B3TXF	**2241**	45.4	4.8	1.21	29.0	85.6
ST 4595 B3XF	**2236**	44.2	4.1	1.21	30.1	85.3
DP 2333 B3XF	2232	46.2	4.5	1.18	28.0	85.1
ST 5091 B3XF	2219	43.8	4.5	1.17	27.6	84.0
DP 2211 B3TXF	2189	45.5	4.5	1.17	27.8	84.9
DP 1646 B2XF	2184	44.6	4.0	1.25	29.0	84.5
1140A385-04	2174	45.5	4.7	1.17	31.7	85.6
DG 3511 B3XF	2162	45.6	4.9	1.19	31.6	86.5
PHY 443 W3FE	2145	43.8	4.5	1.20	29.8	86.0
DG 3799 B3XF	2127	44.2	4.6	1.21	29.9	85.1
DG 4484 B3TXF	2115	47.6	4.5	1.16	28.6	84.9
DP 2131 B3TXF	2103	45.7	4.2	1.23	29.5	84.7
DG H959 B3XF	2092	41.5	3.8	1.16	30.4	86.0
1130B333-04	2080	42.9	4.2	1.16	31.8	85.0
DG 3615 B3XF	2077	44.1	4.4	1.18	31.6	84.5
ST 4990 B3XF	2047	40.9	4.4	1.24	29.0	86.3
AMX21C005B3TXF	2035	42.4	4.1	1.21	28.5	85.6
DP 2349NR B3XF	2031	44.7	4.6	1.17	28.7	83.9
PHY 415 W3FE	2030	43.0	4.3	1.25	32.6	85.5
NG 3195 B3XF	2018	44.3	4.3	1.17	29.2	85.4
1150D490-04	2016	43.3	4.5	1.17	28.9	85.3
AMX20T079 B3XF	2003	43.7	4.3	1.21	28.9	84.6
1150B437-04	2003	42.1	4.3	1.13	30.6	84.0

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2141NR B3XF	1988	44.2	4.3	1.20	32.0	85.1
NG 4335 B3TXF	1940	42.3	4.3	1.21	30.2	85.9
AMX20T157 B3XF	1934	43.4	4.1	1.19	28.6	84.9
AMX20T114 B3XF	1840	44.8	4.4	1.19	30.2	86.3
AMX160030-B B3XF	1797	43.4	4.6	1.20	30.9	84.8
DP 1822 XF	1788	42.1	4.3	1.23	32.1	84.8
Armor 9383 B3TXF	1736	40.9	4.3	1.17	27.2	85.2
AMX160030-A B3XF	1667	43.8	4.3	1.25	27.8	86.4
Average	2116	44.2	4.4	1.19	29.7	85.2
LSD @ 10% level	194	45.8				
CV	8	45.8				
Model R-square	0.63	45.4				

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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TABLE 26 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2115 B3XF	**2184**	44.5	4.4	1.20	30.5	84.4
1130B333-04	**2082**	43.0	4.2	1.21	34.6	86.1
1140D328-04	**1963**	44.0	4.4	1.22	34.6	83.6
1130D303-04	**1959**	44.0	4.2	1.14	34.1	84.6
PHY 360 W3FE	**1935**	44.0	4.3	1.18	30.6	83.4
PHY 400 W3FE	**1920**	43.5	3.7	1.24	32.6	84.3
PHY 332 W3FE	**1915**	42.5	3.9	1.21	33.3	83.8
Armor 9371 B3XF	**1902**	45.0	4.5	1.20	29.9	85.1
PHY 411 W3FE	1869	44.5	4.5	1.15	31.3	84.8
DP 1646 B2XF	1852	45.0	4.4	1.27	29.3	84.9
DP 2127 B3XF	1841	44.5	4.9	1.16	30.4	85.4
DP 2012 B3XF	1828	42.0	3.9	1.22	32.0	84.5
PHY 415 W3FE	1824	42.0	4.1	1.23	33.3	84.6
ST 5091 B3XF	1741	43.5	3.8	1.24	33.1	83.8
ST 4595 B3XF	1739	45.0	4.4	1.20	30.5	85.4
DP 2333 B3XF	1739	46.5	4.6	1.18	30.8	82.9
Armor 9383 B3TXF	1728	41.5	4.5	1.19	30.3	84.9
ST 4990 B3XF	1711	40.0	4.0	1.25	30.8	85.7
NG 4343 B3TXF	1700	42.5	4.0	1.24	29.9	84.7
PHY 443 W3FE	1685	42.5	4.1	1.17	33.7	83.8
1150B437-04	1671	40.0	4.4	1.16	34.2	84.0
NG 3195 B3XF	1662	43.5	4.7	1.20	31.1	85.9
NG 4335 B3TXF	1612	41.5	4.4	1.24	33.7	86.3
DP 2211 B3TXF	1567	45.5	4.5	1.19	31.5	84.0
NG 4190 B3XF	1546	43.5	3.9	1.23	31.5	85.1
1140A385-04	1505	44.5	4.3	1.22	32.3	86.0
AMX20T079 B3XF	1497	42.0	4.2	1.28	32.2	85.0
1140B373-04	1492	42.0	3.2	1.19	34.0	83.9
DP 1822 XF	1395	40.0	4.1	1.27	34.0	85.2
AMX20T157 B3XF	1389	41.0	4.1	1.21	31.7	84.3
AMX160030-B B3XF	1326	42.5	4.6	1.21	31.2	85.7
1150D490-04	1302	42.5	4.1	1.21	30.7	83.5
AMX21C005B3TXF	1294	41.5	3.9	1.20	30.7	85.0
AMX160030-A B3XF	1270	45.5	4.3	1.23	30.6	84.2
AMX20T114 B3XF	1172	42.5	4.1	1.25	29.7	84.3
Average	1674	43.0	4.2	1.21	31.9	84.6
LSD @ 10% level	301					
CV	16					
Model R-square	0.62					

Bolded yields are NOT statistically different from the highest yielding entry.

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Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

NON-IRRIGATED SHORT SEASON
TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
BELLE MINA, AL

TABLE 27 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
DP 2115 B3XF	**2113**	46.0	4.7	1.20	31.8	85.9
1140B373-04	**2049**	45.0	4.4	1.13	32.3	84.8
ST 5091 B3XF	**2033**	45.5	3.8	1.20	31.4	83.6
PHY 400 W3FE	1919	47.5	4.1	1.21	32.9	85.0
DP 2127 B3XF	1860	47.5	4.4	1.21	30.0	85.9
NG 3195 B3XF	1857	47.5	4.3	1.20	32.5	84.4
PHY 360 W3FE	1848	43.5	4.1	1.18	32.8	84.1
1130B333-04	1817	42.5	3.9	1.21	34.5	85.0
ST 4595 B3XF	1809	45.5	4.2	1.21	31.6	84.8
1140A385-04	1792	48.0	4.6	1.14	32.5	84.8
DP 2211 B3TXF	1786	44.5	4.0	1.19	30.2	84.9
DP 1646 B2XF	1785	45.0	4.5	1.27	30.0	85.5
NG 4190 B3XF	1780	45.0	4.0	1.16	31.0	84.8
1140D328-04	1771	45.0	4.4	1.19	32.6	83.9
PHY 415 W3FE	1769	43.5	4.6	1.17	31.1	85.1
PHY 332 W3FE	1755	42.5	4.6	1.23	33.4	86.0
DP 2333 B3XF	1744	46.5	4.6	1.19	29.2	83.7
PHY 411 W3FE	1743	45.5	4.5	1.14	30.9	84.5
DP 2012 B3XF	1732	44.5	4.3	1.24	30.6	84.4
PHY 443 W3FE	1727	46.5	4.3	1.14	31.4	84.6
1130D303-04	1713	44.5	4.5	1.19	30.8	85.9
1150B437-04	1598	43.5	4.5	1.13	34.1	83.8
Armor 9371 B3XF	1591	43.5	3.9	1.22	32.0	85.3
ST 4990 B3XF	1543	40.5	4.5	1.18	30.6	85.2
Armor 9383 B3TXF	1534	42.5	4.5	1.19	30.2	85.9
AMX20T079 B3XF	1520	43.5	4.1	1.23	30.3	85.0
NG 4335 B3TXF	1496	44.0	4.7	1.20	31.3	86.0
AMX20T157 B3XF	1491	44.0	4.0	1.22	32.7	84.8
NG 4343 B3TXF	1483	44.0	4.1	1.20	30.1	85.9
DP 1822 XF	1415	42.0	4.3	1.22	32.3	85.5
1150D490-04	1394	45.5	4.4	1.18	30.7	84.4
AMX160030-B B3XF	1321	43.5	4.2	1.23	32.3	84.5
AMX160030-A B3XF	1210	44.5	4.1	1.24	31.2	85.7
AMX21C005B3TXF	1199	43.5	4.4	1.17	30.7	85.4
AMX20T114 B3XF	1120	44.5	4.4	1.18	30.9	84.9
Average	1659	44.5	4.3	1.19	31.5	84.9

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
LSD @ 10% level	155					
CV	8					
Model R-square	0.82					

Bolded yields are NOT statistically different from the highest yielding entry.
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Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

CONVENTIONAL

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TABLE 28 – LOCATION SPECIFIC DATA

Variety	Lint Yield pounds per acre	Lint %	Micronaire units	Length inches	Strength g/tex	Uniformity %
ST 4595 B3XF	**1982**	46.5	5.2	1.15	30.7	83.5
DG 3799 B3XF	**1933**	45.8	4.7	1.17	31.9	83.2
PHY 411 W3FE	**1923**	46.9	5.1	1.12	31.6	84.3
DP 1646 B2XF	1825	46.1	4.8	1.23	29.0	84.4
DP 2333 B3XF	1800	47.7	5.5	1.15	30.1	83.1
GA 1682	1677	44.8	5.2	1.11	32.6	85.3
AU 17018-48-358	1673	45.0	4.7	1.18	32.0	85.0
DP 1822 XF	1661	44.1	4.4	1.23	32.4	85.3
AU 17015-23-233	1640	43.4	5.0	1.17	31.7	82.9
UA 114	1559	42.1	5.1	1.19	30.8	85.3
UA 222	1451	42.8	5.1	1.16	30.5	82.8
GA 1699	1224	45.3	5.2	1.13	30.3	84.0
Average	1693	44.9	5.0	1.17	31.2	84.1
LSD @ 10% level	137					
CV	7					
Model R-square	0.82					

Bolded yields are NOT statistically different from the highest yielding entry.
Bolded line in table indicates test average.
N.S. –differences are statistically non-significant.

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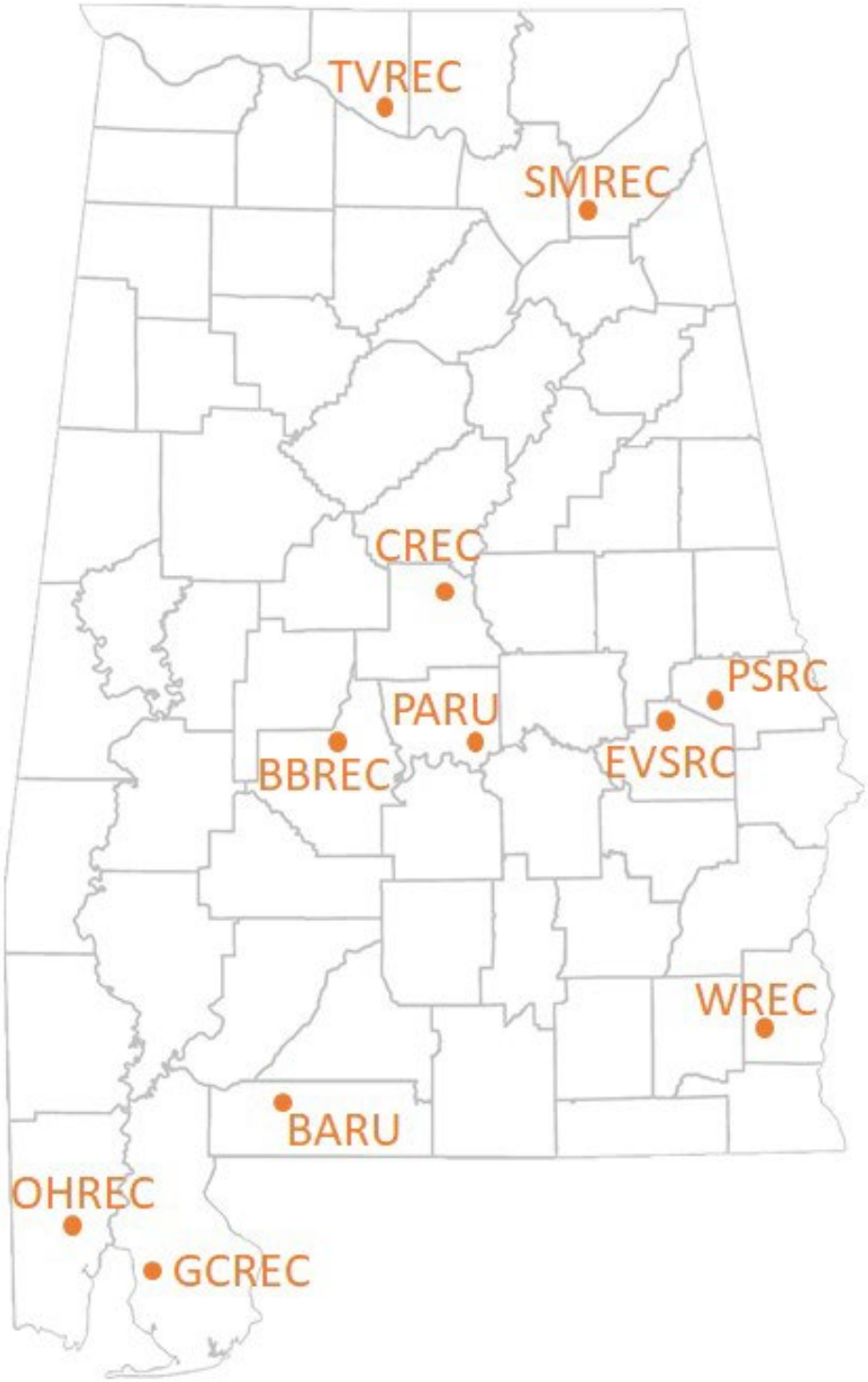

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