

COTTON CULTIVAR TESTS FOR 2009
IN CENTRAL AND SOUTH TEXAS

S. Hague, W. Smith,
D. Deno, N. Brown,
D. Jones, C. Jones and K. Schaefer

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Cotton Cultivar Tests for 2009 in Central and South Texas

S. Hague, W. Smith,
D. Deno, N. Brown,
D. Jones, C. Jones, and K. Schaefer

Cotton cultivar tests (CCT) are conducted each year by Texas A&M AgriLife Research to determine the relative performance of cultivars (varieties) available to producers in Texas. These tests are conducted statewide to evaluate commercial cultivars in every cotton growing region. Since Texas is a large state with diverse climates and growing seasons, the CCT results are reported separately for Central and South Texas, the Rolling and High Plains, and Far West Texas. This report concentrates on the cotton production regions of Central and South Texas.

Test locations, soil types, planting dates, and harvest dates are presented below, with yield and fiber characteristics presented in Tables 1 - 9.

Yield and other characteristics were analyzed as randomized complete blocks. Least significant differences (LSD) are used to determine if two cultivars are different at $k=100$, which approximates the 5% probability level. Values reported for any two cultivars that differ by more than the LSD value are expected to be different in 95 of every 100 comparisons. The test average (mean) and the coefficient of variation (CV) also are reported for each characteristic measured at each location. The coefficient of variation is a measure of the uniformity of the test site (e.g. soil uniformity, drainage, disease, etc.). Lower coefficients of variation are desirable.

Agronomic Determinations

Lint yield: Lint yield per acre is determined as follows: (lbs. seedcotton/plot) x (appropriate gin turnout) x (area conversion factor).

Gin turnout: Amount of lint in a random sample of machine harvested seedcotton expressed as a percent of seed cotton in the sample.

Fiber Quality Determinations

Fiber quality parameters were determined by high volume instrument (HVI) testing at the Texas Tech University Fibers and Biopolymer Research Institute at Lubbock, TX.

Fiber Fineness: Fiber fineness, micronaire, is a measure of the maturity and/or the fineness of cotton fibers and is reported in micronaire units. Micronaire is a relative measure of the development, or maturity, of the secondary wall of the cotton fiber throughout its entire length. Processing rates, fabric dyeing, and yarn and fabric appearance are adversely affected

by immature fibers. Fine fibers, although mature, weigh less per unit length and may require reduced processing speeds compared to thicker fibers, yet these finer fibers may produce stronger yarns. Thick or coarse fibers result in fewer fibers in a cross section of yarn, and therefore, may produce weaker yarns. Fiber fineness is determined by forcing air through a specified weight of lint. The rate of air flow is related to fiber thickness. Finer fibers result in more fibers per specified weight and, therefore, have greater resistance to air flow. Micronaire values of 3.4 or below indicate fine and perhaps immature fibers, and values of 5.0 or higher indicate coarse fibers. Values of 3.5 to 4.9 are desirable and indicate mature, well-developed fibers.

Fiber Length: Fiber length is reported in hundredths of an inch as measured by High Volume instrument and is the average of the longest 50 percent of the fibers in the sample, usually referred to as the upper half mean length (UHML). Long fibers are desirable because they produce greater yarn strength, aid in spinning finer yarns, and can be processed at higher speeds.

HVI fiber lengths (in.)
and descriptive designation

Below 0.97	Short
0.97 - 1.10	Medium
1.11 -1.28	Long
Above 1.28	Extra long

Fiber Uniformity: Fiber uniformity index (UI) provides a relative measure of the length uniformity of cotton fibers. Uniformity is calculated as the ratio of the average length of all fibers to the average length of the longest 50 percent of the fibers in the sample. High uniformity values indicate uniform fiber length distribution and are associated with a high-quality product and with low manufacturing waste.

Uniformity ratios
and descriptive designation

Below 77	Very low
77-79	Low
80-82	Average
83-85	High
Above 85	Very high

Fiber Strength: Yarn strength and ease of processing are positively correlated with strong fibers. Strength values are reported in grams of force required to break a bundle of cotton fibers with the holding jaws separated by 1/8 inch. The size of the bundle of fibers is described in tex units. Fiber strength is described from very low to very high within UHM classifications.

HVI 1/8-inch gauge strength (grams/tex)	Fiber length group and descriptive designation
Short (0.96 inch or less)	
18-19	Very low
20-21	Low
22-23	Average
24-25	High
26-27	Very high
Medium (0.97-1.10 inch)	
17-19	Very low
20-22	Low
23-25	Average
26-28	High
29-31	Very high
Long (1.11-1.28 inch)	
18-20	Very low
21-23	Low
24-26	Average
27-29	High
30-32	Very high

Fiber Elongation: Elongation is the degree of extension of the fibers before break occurs when measuring strength. Fiber bundle elongation is correlated with yarn elongation but has an insignificant effect on yarn strength. Its value and importance in yarn manufacture has not been fully established.

Fiber elongation
and descriptive designation

4.9 and below	Very low
5.0-5.8	Low
5.9-6.7	Average
6.8-7.6	High
7.7 and above	Very high

2009 Cotton Cultivar Tests and Official Preliminary Test locations, soil type, planting date, harvest date and irrigation data.

Location	Soil Type	Planting Date	Harvest Date	Irrigation
Weslaco	Hildago s.c.l. ¹	3/14/2009	8/4/2009	Irrigated
Weslaco	Hildago s.c.l. ¹	3/15/2009	8/6/2009	Dryland
Corpus Christi	Victoria clay	3/24/2009	8/8/2009	Irrigated
San Patricio Co.	Victoria clay	3/25/2009	8/13/2009	Irrigated
San Patricio Co.	Victoria clay	no plant	no plant	Dryland
College Station	Westwood s.l. ²	4/23/2009	9/21/2009	Irrigated
College Station	Westwood s.l. ²	5/6/2009	10/22/2009	Dryland
Thrall	Burleson clay	5/13/2009	8/25/2009	Dryland
Dallas (Commerce)	Crockett loam	5/21/2009	11/19/2009	Dryland
Chillicothe	Abilene c.l. ³	5/22/2009	11/25/2009	Irrigated

- 1. s.c.l.=sandy clay loam
- 2. s.l.=silt loam
- 3. c.l.=clay loam

Table 1. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 2009. (Irrigated)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
ST 4427B2RF	1848	40.3	4.9	1.11	28.7	83	5.5
DP 0920 B2RF	1833	42.3	4.7	1.13	28.5	84	6.5
All-Tex 8167	1822	41.4	4.6	1.14	28.5	84	5.7
DP 1028 B2RF	1815	44.5	4.7	1.13	27.6	84	6.4
PHY 367 WRF	1802	40.9	4.4	1.12	27.3	83	6.7
DP 0912 B2RF	1802	39.7	4.8	1.09	27.7	83	6.3
DP 09R549B2R2	1791	44.3	4.8	1.16	29.1	83	6.8
All-Tex 7A21	1772	42.9	4.6	1.14	30.6	84	6.4
All-Tex LA 122-6	1757	43.2	4.7	1.12	28.4	83	7.1
ST 4498B2RF	1756	39.7	4.4	1.14	30.4	85	7.0
All-Tex A102	1741	42.7	4.9	1.11	29.2	84	6.1
DP 09R619B2R2	1701	44.1	4.6	1.12	28.3	84	6.1
FM 1740B2F	1683	41.5	4.8	1.10	28.6	82	6.1
ST 5327 B2RF	1671	40.1	4.5	1.12	29.8	84	6.7
FM 9058F	1670	40.8	4.1	1.18	30.0	83	5.6
DP 1032 B2RF	1668	43.5	4.6	1.15	28.4	83	5.9
ST 5288B2F	1658	40.5	5.1	1.12	27.9	83	6.0
AM 1532 B2F	1629	39.7	4.4	1.15	27.2	84	6.4
PHY 375 WRF	1604	39.5	4.1	1.10	27.6	82	6.4
TAM 04 WH-7	1602	39.2	4.7	1.11	30.3	83	5.5
ST 5458B2RF	1601	39.4	5.0	1.14	30.8	83	5.9
CG 3020B2RF	1585	38.2	4.4	1.10	26.4	83	6.1
DP 09R303B2R2	1580	41.2	4.7	1.10	25.9	83	6.8
Dyna Gro 2570 B2RF	1559	40.5	4.6	1.13	29.5	84	7.1
PHY 5922 WRF	1553	40.2	4.5	1.12	32.0	83	6.9
CG 3220B2RF	1551	39.6	4.5	1.13	28.6	83	6.2
CT 212	1548	37.9	4.6	1.13	30.2	83	5.6
PHY 565 WRF	1544	39.5	4.6	1.14	31.4	84	6.5
PSC 485 WRF	1541	39.6	4.8	1.08	28.2	83	7.2
DP 09R796B2R2	1528	42.9	4.8	1.14	30.5	84	7.0
All-Tex Apex	1523	39.0	4.3	1.16	29.0	84	6.0
TAM 04 WG-66s	1518	39.5	4.4	1.15	29.9	84	5.7
Dyna Gro 2400 RF	1516	42.6	4.5	1.09	27.9	83	6.8
FM 9160B2F	1509	39.0	4.4	1.17	29.2	84	5.1
CG 4020B2RF	1506	39.1	4.2	1.15	26.8	84	6.2
FM 955LLB2	1505	37.3	4.9	1.19	31.5	84	5.2

Table 1 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
DP 0949 B2RF	1500	41.5	4.9	1.12	29.9	84	6.3
TAM 04 WD-9s	1500	39.9	4.9	1.13	29.0	84	5.0
TAM 04 WB-33s	1499	35.7	3.7	1.27	33.7	86	5.9
SSG Exp. 59-3-29	1486	38.1	4.2	1.13	29.4	82	5.8
TAM 03 WZ-37	1484	39.7	4.5	1.15	30.5	83	5.4
ST 4288B2F	1479	37.1	4.8	1.17	29.0	84	6.3
TAM 02 WK-11	1477	38.5	4.3	1.13	28.2	83	6.4
BCSX 1010 B2F	1475	38.9	4.5	1.12	27.6	83	5.4
DP 161 B2RF	1472	38.4	4.6	1.18	31.3	84	5.0
All-Tex 8227	1465	40.3	5.1	1.14	30.5	83	5.2
DP 141 B2F	1461	39.1	4.6	1.17	29.4	83	5.4
CG 3520B2RF	1451	38.0	4.3	1.10	26.6	83	6.5
DP 555 BG/RR	1444	43.2	4.8	1.09	26.6	82	5.0
FM 1845LLB2	1428	38.5	4.5	1.17	31.7	84	5.7
FM 840B2F	1408	38.3	4.3	1.19	31.5	84	5.5
DP 0924 B2RF	1403	39.5	4.5	1.10	27.8	84	6.5
TAM 04 WE-27s	1362	36.1	4.1	1.29	30.1	84	5.4
FM 835LLB2	1360	38.3	4.2	1.15	29.7	84	5.5
FM 1773 LLB2	1314	40.1	4.9	1.13	28.1	83	4.9
FM 1880B2F	1306	36.8	3.9	1.16	30.6	83	5.5
PHY 72	1278	38.5	4.2	1.15	32.9	84	6.0
TAM 04 N-49	1260	37.2	4.0	1.21	31.0	84	5.4
FM 1735LLB2	1143	37.9	4.7	1.12	29.3	84	4.7
CG 3035RF	.	41.2	4.5	1.11	28.4	83	6.5
STV 4554B2RF	.	40.2	4.6	1.13	28.5	84	7.0
DP 0935 B2RF	.	41.7	4.4	1.09	28.1	83	6.1
PHY 315 RF	.	41.7	4.5	1.06	27.8	83	6.5
TAM 04 WH-66	.	39.8	4.3	1.16	29.3	83	5.2
PHY 525 RF	.	40.8	4.4	1.13	29.7	83	6.7
TAM 04 WA-24	.	38.5	4.3	1.18	31.2	83	5.2
All-Tex Epic	.	41.6	4.3	1.11	28.8	83	6.6
LSD (k=100)1	271	1.2	0.4	0.03	2.7	2.3	0.6
%CV	9.2	1.6	4.4	1.6	4.2	0.9	5.5
Mean	1553	40.0	4.5	1.14	29.2	83.3	6.0

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

2. No yield indicates entries lost to root rot.

Table 2. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 2009. (Dryland)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
DP 1028 B2RF	1327	44.0	4.7	1.08	26.5	82	6.7
DP 0949 B2RF	1272	42.1	4.6	1.07	27.3	82	6.3
Dyna Gro 2400 RF	1266	41.0	4.2	1.09	27.8	82	6.7
DP 0912 B2RF	1243	39.9	4.7	1.07	26.5	82	6.4
DP 09R796B2R2	1239	43.0	4.5	1.12	28.8	84	7.0
FM 9160B2F	1228	38.2	4.2	1.13	28.2	83	5.3
PHY 5922 WRF	1225	39.6	4.4	1.08	28.1	83	6.9
DP 0924 B2RF	1206	40.5	4.5	1.09	26.7	82	6.2
FM 955LLB2	1196	36.6	4.4	1.19	30.3	84	5.2
ST 5288B2F	1186	38.9	4.3	1.10	26.4	82	6.2
TAM 03 WZ-37	1170	38.6	4.3	1.15	31.0	84	6.0
TAM 04 WH-66	1161	39.1	4.2	1.14	28.7	81	5.5
DP 1032 B2RF	1139	41.3	4.1	1.11	26.6	81	5.4
FM 1845LLB2	1136	37.2	4.5	1.16	31.4	84	5.6
AM 1532 B2F	1128	37.7	4.0	1.12	25.2	82	6.1
ST 4498B2RF	1119	39.4	4.0	1.08	27.9	83	7.1
Dyna Gro 2570 B2RF	1119	39.0	4.4	1.11	28.2	83	6.7
PHY 525 RF	1110	40.3	4.2	1.12	28.0	83	6.7
PHY 375 WRF	1098	41.4	4.2	1.06	25.3	81	6.2
PHY 315 RF	1097	40.3	4.2	1.05	24.6	80	6.0
TAM 04 WD-9s	1092	39.2	4.3	1.11	27.7	83	5.2
DP 0935 B2RF	1087	40.5	4.4	1.08	25.8	82	6.3
CG 3220B2RF	1078	39.1	4.2	1.10	26.5	82	6.5
CG 3035RF	1071	39.5	4.4	1.09	27.1	82	6.8
FM 1735LLB2	1069	37.9	4.5	1.12	29.2	83	5.0
PHY 367 WRF	1066	40.4	3.9	1.09	28.0	82	6.7
DP 0920 B2RF	1062	40.0	4.3	1.07	25.3	81	6.3
DP 09R619B2R2	1051	40.2	3.8	1.10	27.0	81	6.4
DP 09R549B2R2	1037	40.6	4.4	1.11	26.9	82	6.3
PHY 565 WRF	1035	38.5	4.2	1.12	29.8	82	6.8
CG 3020B2RF	1031	37.8	4.0	1.08	26.0	83	6.5
PSC 485 WRF	1025	41.6	4.6	1.11	28.2	83	6.7
ST 5458B2RF	1024	38.2	4.4	1.09	26.9	80	6.1
BCXS 1010 B2F	1010	36.7	4.1	1.12	26.1	81	5.5
TAM 04 WA-24	1008	35.7	4.0	1.18	30.2	82	5.2

Table 2. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
DP 141 B2RF	1008	38.8	4.4	1.10	27.0	80	5.9
ST 4427B2RF	1006	36.7	4.0	1.09	26.6	82	5.6
ST 4288B2F	973	36.9	4.4	1.12	27.4	82	6.6
DP 161 B2RF	966	36.4	4.1	1.13	28.1	82	5.4
ST 4554B2RF	963	38.1	4.4	1.07	27.8	82	7.7
TAM 04 WE-27s	963	35.2	4.0	1.19	27.1	81	5.6
DP 09R303B2R2	960	40.6	4.3	1.06	24.4	81	5.8
TAM 04 WH-7	950	37.4	4.1	1.12	29.2	83	6.0
TAM 04 N-49	940	35.2	3.8	1.23	32.2	84	5.6
FM 835LLB2	924	35.5	4.0	1.16	29.6	84	5.7
TAM 04 WG-66s	923	38.0	3.3	1.13	26.2	82	5.7
FM 1740B2F	913	38.6	3.9	1.09	26.6	82	5.9
BCXS 1015 LLB2	908	36.8	4.4	1.16	28.1	80	4.7
TAM 04 WB-33s	897	34.9	3.9	1.23	33.2	84	6.0
TAM 02 WK-11	888	36.3	3.8	1.14	28.1	82	6.6
CG 4020B2RF	859	37.1	3.9	1.09	25.0	81	6.0
FM 1880B2F	834	37.3	3.8	1.11	27.9	82	6.0
CG 3520B2RF	739	36.5	4.3	1.08	25.7	82	6.9
FM 840B2F	668	34.8	3.7	1.17	30.1	83	6.3
LSD (k=100)1	331	2.1	0.7	0.04	1.8	2.3	0.5
%CV	17.6	2.8	6.6	2.0	3.5	1.1	4.4
Mean	1050	38.6	4.2	1.11	27.6	82.2	6.1

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 3. Agronomic performance and fiber quality of cotton cultivars evaluated at Corpus Christi during 2009. (Limited Irrigation)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
DP 1028 B2RF	740	45.4	4.8	1.03	25.7	81	6.5
Dyna Gro 2570 B2RF	727	42.3	4.8	1.01	26.0	81	7.5
Dyna Gro 2400 RF	703	42.5	4.7	1.01	25.2	81	6.8
CG 3520B2RF	701	39.8	4.7	1.01	25.4	81	6.0
TAM 03 WZ-37	686	39.5	4.3	1.06	29.5	82	6.6
ST 4427B2RF	675	39.8	4.7	1.03	24.9	81	5.8
DP 1032 B2RF	672	43.8	4.5	1.05	26.1	81	6.0
ST 5327 B2RF	671	39.2	4.5	0.99	24.7	81	6.1
CG 4020B2RF	669	41.0	4.4	1.02	23.6	81	6.4
DP 09R619B2R2	668	43.0	4.7	1.03	26.1	81	6.8
PHY 367 WRF	666	42.0	4.3	1.03	25.2	81	6.0
TAM 04 WD-9s	665	41.1	4.5	0.99	25.0	80	5.3
DP 0935 B2RF	664	44.1	4.8	0.97	23.4	80	5.6
DP 0920 B2RF	664	42.5	4.9	1.04	25.2	82	6.2
TAM 04 WH-7	659	41.1	4.5	1.02	27.2	81	6.7
DP 0924 B2RF	659	41.7	5.0	0.99	25.6	81	7.1
TAM 04 N-49	655	39.1	4.0	1.14	30.7	82	6.0
TAM 04 WA-24	650	38.3	4.3	1.06	26.4	81	5.8
DP 0912 B2RF	646	40.8	4.8	0.98	24.5	80	6.6
PHY 375 WRF	642	42.9	4.4	0.98	23.1	80	5.5
TAM 04 WG-66s	636	42.5	4.1	1.05	23.7	80	6.3
ST 4554B2RF	633	39.9	4.7	1.00	25.7	82	7.1
CG 3035RF	633	42.9	4.9	1.02	26.1	82	6.7
DP 09R796B2R2	631	43.7	4.9	1.00	25.9	81	6.9
DP 09R549B2R2	628	44.0	4.9	1.09	28.4	83	7.2
ST 4498B2RF	623	41.5	4.4	0.97	25.4	80	7.2
TAM 04 WB-33s	621	36.9	4.1	1.16	32.4	84	6.3
CG 3220B2RF	619	42.4	4.7	1.01	24.6	81	7.2
PHY 315 RF	618	42.3	4.4	0.98	23.1	79	5.5
FM 1740B2F	617	40.6	4.4	1.00	23.5	81	5.6
CG 3020B2RF	615	40.7	4.5	1.00	24.0	81	6.4
DP 09R303B2R2	612	41.6	4.6	0.99	22.6	80	6.0
FM 1735LLB2	612	38.8	4.3	1.03	25.8	82	4.8
PHY 565 WRF	605	40.0	4.7	1.01	27.0	81	7.3
FM 955LLB2	595	39.6	4.6	1.05	24.5	81	5.6

Table 3. Continued...

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
ST 5288B2F	594	39.9	5.0	0.98	22.9	81	6.5
FM 840B2F	593	40.6	4.3	1.10	28.3	83	6.6
DP 141 B2F	592	39.8	4.5	1.01	23.5	80	6.1
FM 1845LLB2	591	39.0	4.5	1.07	28.0	82	6.0
PHY 5922 WRF	590	39.5	4.8	0.98	24.1	81	7.4
TAM 02 WK-11	586	39.6	4.5	1.07	27.9	82	6.8
DP 161 B2RF	583	39.9	4.7	1.05	26.8	81	6.1
FM 9058F	583	40.8	4.0	1.08	25.7	82	5.3
FM 9160B2F	580	40.0	4.2	1.06	25.3	82	5.1
FM 835LLB2	569	38.9	4.1	1.05	26.9	81	5.5
SSG Exp. 59-3-29	563	37.9	3.9	1.02	24.9	80	5.5
AM 1532 B2F	561	40.4	4.4	1.00	23.5	79	6.4
TAM 04 WH-66	555	40.4	4.1	0.99	24.7	79	6.2
SSG CT 212	538	38.4	4.7	0.98	24.3	81	5.6
ST 5458B2RF	533	36.8	4.8	1.00	23.8	80	6.0
BCSX 1010 B2F	527	39.2	4.4	1.03	24.6	81	5.3
PSC 485 WRF	525	38.8	4.6	1.01	25.1	81	7.1
DP 555 BG/RR	524	42.5	4.4	0.98	23.7	79	4.8
FM 1880B2F	520	39.0	4.2	1.06	26.9	80	5.8
ST 4288B2F	506	39.8	4.6	1.02	24.0	81	6.0
PHY 525 RF	484	39.8	4.1	1.02	25.0	80	6.7
TAM 04 WE-27s	447	35.4	3.9	1.14	27.4	80	5.1
DP 0949 B2RF	439	39.9	4.6	1.00	25.5	82	6.6
BCSX 1015 LLB2	436	37.8	4.5	1.08	26.7	81	5.5
PHY 72	385	42.8	4.8	1.08	29.9	82	7.0
LSD (k=100)1	107	2.3	0.3	0.03	2.2	1.6	0.8
%CV	12	2.9	3.3	1.7	4.5	0.9	6.3
Mean	601	40.6	4.5	1.03	25.6	80.9	6.2

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 4. Agronomic performance and fiber quality of cotton cultivars evaluated at San Patricio County during 2009. (Irrigated)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
All-Tex 7A21	1329	47.4	4.7	1.08	29.7	83	6.2
FM 1740B2F	1308	43.9	4.6	1.05	27.8	81	5.9
PHY 367 WRF	1282	43.6	4.7	1.08	27.1	82	6.9
All-Tex LA 122-6	1252	45.1	4.9	1.06	26.3	83	6.6
DP 09R303B2R2	1252	42.7	4.8	1.07	25.9	83	5.7
PHY 375 WRF	1248	42.2	4.5	1.06	26.5	82	6.0
DP 0935 B2RF	1232	44.5	5.0	1.04	25.5	82	5.8
DP 141 B2RF	1227	40.7	4.6	1.10	28.1	82	5.7
DP 1028 B2RF	1221	46.2	4.9	1.10	28.8	83	6.6
All-Tex 8176	1176	42.1	4.7	1.09	27.9	82	6.1
DP 1032 B2RF	1171	45.4	4.6	1.11	29.6	83	5.4
TAM 04 WD-9s	1167	41.6	5.0	1.07	28.0	83	4.9
PHY 315 RF	1165	41.9	4.7	1.04	26.2	81	5.8
ST 4288B2F	1163	39.7	4.7	1.09	26.6	82	6.0
FM 1845LLB2	1162	40.3	4.5	1.13	30.9	83	5.2
All-Tex Epic	1155	44.7	4.8	1.07	27.1	83	6.4
PHY 5922 WRF	1146	40.7	5.0	1.05	29.0	83	7.2
DP 0949 B2RF	1146	43.0	5.2	1.07	28.1	82	6.4
FM 955LLB2	1142	38.7	4.9	1.11	28.2	83	5.7
PSC 485 WRF	1140	41.6	4.7	1.08	29.1	83	7.0
TAM 04 WH-66	1138	41.7	4.4	1.12	28.5	82	5.8
SSG CT 212	1138	40.6	5.1	1.06	28.9	82	5.5
CG 3220B2RF	1130	42.6	4.8	1.07	26.7	82	6.3
ST 5288B2F	1128	44.1	4.7	1.05	26.0	81	6.2
CG 3035RF	1126	44.1	4.9	1.08	28.0	83	6.6
TAM 04 WA-24	1126	39.0	4.4	1.14	30.1	82	5.1
DP 0912 B2RF	1125	42.3	5.0	1.05	27.2	83	6.3
ST 4427B2RF	1124	41.3	4.6	1.04	25.3	82	5.6
ST 5458B2RF	1124	42.0	5.1	1.06	28.0	81	5.7
DP 09R796B2R2	1118	44.9	4.9	1.07	29.6	82	7.1
ST 4498B2RF	1113	39.7	4.7	1.09	29.7	84	6.5
FM 9160B2F	1103	39.8	4.5	1.11	29.1	83	5.2
PHY 565 WRF	1103	40.6	4.8	1.09	30.8	83	7.3
PHY 525 RF	1100	41.7	4.1	1.10	29.9	82	7.3

Table 4 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
ST 4554B2RF	1098	40.7	4.9	1.06	27.7	83	6.8
DP 0924 B2RF	1096	41.9	5.1	1.03	27.0	82	6.2
TAM 04 WG-66s	1093	41.0	4.1	1.14	27.3	82	5.7
TAM 02 WK-11	1087	39.7	4.7	1.10	28.4	84	6.5
DP 0920 B2RF	1083	43.4	4.9	1.06	26.5	81	6.4
All-Tex 8227	1063	40.7	4.8	1.12	30.5	83	5.2
Dyna Gro 2570 B2RF	1059	42.1	4.9	1.07	28.1	83	6.8
TAM 04 WH-7	1056	39.9	4.7	1.08	29.7	82	5.9
TAM 03 WZ-37	1047	37.9	4.7	1.14	33.6	84	5.9
BCSX 1010 B2F	1047	40.3	4.7	1.10	27.3	82	5.1
AM 1532 B2F	1044	40.8	4.6	1.08	26.4	83	6.1
FM 1880B2F	1033	39.4	4.3	1.09	27.7	81	6.0
All-Tex 8167	1028	42.4	4.7	1.04	26.3	81	6.1
DP 161 B2RF	1027	40.1	5.1	1.12	29.8	83	5.3
All-Tex Apex	1017	39.7	4.4	1.11	28.0	83	6.1
CG 4020B2RF	1013	40.4	4.6	1.09	26.7	82	6.0
FM 835LLB2	1011	38.8	4.2	1.12	30.9	83	5.6
FM 840B2F	1010	39.1	4.4	1.15	30.2	83	6.2
FM 1735LLB2	1006	39.8	4.7	1.07	27.6	82	5.1
BCSX 1015 LLB2	999	39.7	4.7	1.13	28.4	81	4.9
Dyna Gro 2400 RF	996	43.4	5.0	1.03	27.5	82	6.7
DP 09R549B2R2	994	43.8	4.9	1.15	30.7	84	6.2
TAM 04 WB-33s	972	36.3	4.2	1.25	35.2	86	5.5
SGG Exp. 59-3-29	951	39.2	4.1	1.11	28.3	82	5.2
All-Tex A102	950	41.2	5.2	1.08	26.7	83	5.6
CG 3020B2RF	945	38.7	4.5	1.05	26.5	83	6.3
DP 09R619B2R2	944	43.2	4.8	1.11	28.9	84	6.2
TAM 04 N-49	937	36.7	4.1	1.19	32.3	84	5.4
BCSX 1005 LLB2	928	39.5	5.1	1.11	29.9	83	5.2
CG 3520B2RF	926	41.6	4.6	1.07	25.9	81	6.4
TAM 04 WE-27s	894	35.8	4.4	1.23	29.7	83	5.4
LSD (k=100)1	156	2.5	0.4	0.03	1.9	1.8	0.6
%CV	9.3	3.1	3.9	1.5	3.5	1.0	5.1
Mean	1097	41.4	4.7	1.09	28.3	82.5	6.0

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 5. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station during 2009. (Irrigated)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
PHY 315 RF	1478	41.0	4.9	1.08	28.2	82	5.2
TAM 03 WZ-37	1473	36.6	5.1	1.13	33.4	84	5.4
ST 5458B2RF	1462	39.9	5.4	1.09	30.6	82	5.4
ST 5288B2F	1448	41.2	5.5	1.07	27.8	82	5.9
DP 09R619B2R2	1419	42.6	5.1	1.10	29.2	84	6.4
DP 161 B2RF	1393	39.6	5.2	1.11	30.7	82	5.2
DP 0935 B2RF	1388	42.0	5.1	1.10	29.0	82	5.8
BCSX 1010 B2F	1350	40.5	5.1	1.12	28.6	81	5.4
Dyna Gro 2400 RF	1346	42.7	5.2	1.07	28.5	83	6.4
TAM 04 WD-9s	1339	38.7	5.1	1.10	29.6	83	4.4
TAM 04 WH-66	1332	40.4	5.0	1.12	29.2	82	5.8
DP 09R796B2R2	1327	42.9	5.2	1.07	28.6	82	7.2
All-Tex A102	1316	41.7	5.3	1.09	28.5	82	5.2
FM 1845LLB2	1316	38.2	5.5	1.16	34.8	85	4.9
PHY 367 WRF	1301	42.7	5.0	1.06	29.0	82	6.6
SSG Exp. 596-9	1284	36.5	4.9	1.13	32.3	83	5.5
CG 3220B2RF	1273	41.7	5.3	1.12	30.8	83	4.8
DP 1028 B2RF	1269	43.2	5.0	1.10	28.2	84	6.5
Dyna Gro 2570 B2RF	1266	39.7	5.0	1.08	30.3	83	6.6
SSG CT 210	1262	38.6	5.6	1.05	29.2	81	5.8
TAM 04 WH-7	1252	37.5	5.3	1.13	32.3	84	5.3
DP 0912 B2RF	1233	40.0	5.4	1.06	28.2	82	6.0
All-Tex 7A21	1231	41.9	5.0	1.12	30.1	84	6.0
DP 555 BG/RR	1228	42.6	5.2	1.07	28.1	81	4.5
All-Tex Epic	1226	41.2	5.0	1.08	28.9	83	6.6
FM 9160B2F	1224	38.9	4.9	1.15	31.1	84	4.9
CG 3035RF	1222	42.7	5.2	1.07	28.2	82	6.3
DP 09R549B2R2	1208	41.9	5.1	1.16	30.9	84	5.9
ST 4288B2F	1207	36.2	4.9	1.10	30.1	83	5.8
PHY 565 WRF	1201	40.4	5.0	1.12	31.5	84	6.3
PHY 5922 WRF	1195	38.8	5.3	1.09	31.2	84	7.2
DP 141 B2F	1193	38.6	4.7	1.12	31.4	82	5.7
DP 1032 B2RF	1193	42.4	5.0	1.14	30.2	82	5.6
ST 5327 B2RF	1189	40.2	4.9	1.10	32.1	84	6.3
DP 0949 B2RF	1187	40.8	5.4	1.06	28.6	82	6.5

Table 5 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
ST 4498B2RF	1181	40.9	5.2	1.08	31.8	83	6.0
ST 4427B2RF	1177	39.5	5.2	1.10	29.7	83	4.8
BCSX 1025 LLB2	1161	39.0	5.1	1.14	32.2	83	4.9
TAM 04 WG-66s	1156	40.4	4.3	1.11	27.7	81	5.7
TAM 04 WA-24	1154	36.5	4.9	1.16	32.7	82	4.9
DP 0920 B2RF	1153	40.8	4.8	1.09	28.1	82	6.0
FM 835LLB2	1152	38.0	5.1	1.14	33.2	84	4.8
DP 0924 B2RF	1152	39.5	5.2	1.06	27.8	83	5.7
PHY 375 WRF	1146	42.1	5.2	1.06	27.8	82	6.0
All-Tex 8227	1146	39.7	5.1	1.12	32.1	83	5.6
TAM 04 WB-33s	1145	35.9	4.9	1.18	35.6	84	4.5
TAM 04 N-49	1116	37.6	4.5	1.20	33.6	84	5.7
FM 1740B2F	1109	41.7	5.2	1.02	27.8	80	6.2
CG 3520B2RF	1108	37.9	5.0	1.09	28.6	83	6.7
DP 09R303B2R2	1084	41.7	5.3	1.06	26.5	81	5.7
AM 1532 B2F	1082	39.8	4.9	1.06	27.0	82	6.2
STV 4554B2RF	1076	41.2	5.3	1.07	29.9	83	6.8
All-Tex Apex	1075	39.9	4.8	1.10	28.1	83	5.7
FM 1735LLB2	1071	38.4	5.0	1.04	29.4	82	4.4
TAM 02 WK-11	1066	38.6	5.0	1.09	30.4	83	5.7
FM 840B2F	1063	36.7	4.9	1.15	32.3	83	5.2
CG 4020B2RF	1047	39.3	4.9	1.09	28.0	82	6.0
FM 955LLB2	1042	37.2	5.3	1.10	30.7	82	5.6
CG 3020B2RF	1024	37.0	4.7	1.07	26.9	83	6.8
PSC 485 WRF	1013	38.9	5.1	1.09	29.8	83	6.6
PHY 525 RF	996	40.7	4.4	1.14	32.6	82	6.3
FM 1880B2F	989	37.1	4.9	1.10	29.1	82	5.3
FM 1773 LLB2	961	39.1	5.1	1.14	30.8	83	5.2
TAM 04 WE-27s	909	34.4	4.6	1.25	31.6	82	5.2
PHY 72	879	37.1	5.0	1.17	35.2	85	5.6
BCSX 1015 LLB2	853	35.9	5.0	1.17	32.4	83	4.2
FM 9058F	.	39.5	4.7	1.12	29.7	82	4.9
LSD (k=100)1	192	2.3	0.5	0.05	2.3	2.4	0.8
%CV	10.5	2.9	4.1	2.2	3.9	1.1	7.2
Mean	1188	39.7	5.0	1.10	30.1	82.6	5.7

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 6. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station during 2009. (Dryland)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
Dyna Gro 2570 B2RF	579	43.0	4.7	1.02	25.8	82	7.9
CG 3035RF	559	45.0	4.8	1.00	26.6	82	7.5
DP 0920 B2RF	542	45.1	4.6	1.02	24.4	81	7.2
DP 0935 B2RF	533	43.0	5.0	1.04	26.5	81	6.5
CG 3220B2RF	494	41.9	4.6	1.05	26.1	82	7.5
TAM 03 WZ-37	485	41.0	5.0	1.07	31.2	82	6.6
TAM 04 WA-24	483	39.2	4.2	1.02	24.0	80	5.7
Dyna Gro 2400 RF	483	44.7	5.0	1.01	25.6	82	7.7
ST 5458B2RF	480	41.2	5.0	1.04	26.5	81	6.5
DP 1032 B2RF	478	45.5	4.4	1.06	24.2	81	5.9
DP 09R796B2R2	471	43.9	4.4	1.00	27.9	81	7.6
ST 5288B2F	465	42.2	5.1	0.99	24.4	81	6.8
DP 0949 B2RF	464	44.6	5.0	1.02	25.7	81	7.1
TAM 04 WD-9s	462	41.5	5.1	1.06	27.2	82	5.0
TAM 02 WK-11	462	39.9	4.5	1.06	26.7	81	7.0
DP 161 B2RF	460	38.1	4.6	1.08	25.8	81	5.8
DP 0924 B2RF	455	42.4	4.9	0.99	25.8	81	7.0
DP 1028 B2RF	445	46.8	4.7	1.06	27.1	82	7.6
TAM 04 WG-66s	444	39.4	3.9	1.07	24.4	81	6.5
DP 0912 B2RF	442	40.6	4.8	0.98	24.6	81	7.0
BCSX 1010 B2F	440	42.2	4.8	1.07	25.8	81	5.8
TAM 04 N-49	439	35.7	3.6	1.14	30.1	81	6.0
SSG Exp. 596-9	437	42.0	4.7	1.07	28.2	82	6.0
TAM 04 WH-66	437	40.1	4.3	1.05	25.1	81	6.3
All-Tex A102	434	41.8	4.9	1.06	26.2	82	6.3
SSG CT 210	424	40.4	5.3	1.02	26.4	80	6.7
BCSX 1025 LLB2	424	39.0	4.6	1.12	28.7	82	5.7
PHY 315 RF	418	43.1	4.5	1.03	23.3	80	6.0
FM 1845LLB2	416	39.1	5.0	1.11	30.0	84	5.5
DP 09R619B2R2	415	42.3	4.7	1.05	26.2	82	7.4

Table 6 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
PHY 367 WRF	415	44.0	4.8	1.01	25.1	82	7.5
CG 4020B2RF	410	40.6	4.3	1.02	23.0	81	6.5
DP 141 B2F	400	39.6	4.5	1.07	26.7	81	6.3
PHY 375 WRF	400	43.7	4.8	1.02	26.9	83	6.6
ST 4427B2RF	397	39.1	4.4	1.06	27.3	83	5.9
ST 4288B2F	394	38.7	4.2	1.00	22.6	80	6.7
PHY 5922 WRF	389	41.2	4.6	1.01	25.6	81	8.0
FM 1740B2F	381	43.5	5.1	1.03	25.9	81	6.1
PHY 565 WRF	374	40.7	4.6	1.06	27.5	82	7.9
AM 1532 B2F	368	38.9	4.1	1.03	22.3	80	6.4
TAM 04 WB-33s	366	35.8	4.4	1.23	34.8	84	6.1
PSC 485 WRF	360	42.7	4.6	1.02	28.4	82	7.7
PHY 525 RF	349	42.3	4.4	1.06	27.6	81	8.0
CG 3020B2RF	348	38.6	4.3	1.01	23.8	81	6.3
FM 835LLB2	347	36.6	4.4	1.07	28.0	82	5.9
DP 09R549B2R2	347	43.2	4.9	1.12	28.7	83	7.0
FM 840B2F	346	37.4	4.6	1.09	28.5	82	6.3
CG 3520B2RF	344	39.4	4.4	1.03	24.3	82	7.3
FM 1773 LLB2	338	38.3	5.0	1.08	27.9	82	5.7
ST 4554B2RF	334	41.0	5.0	1.04	30.4	83	8.2
DP 09R303B2R2	325	43.3	4.8	1.05	24.3	81	6.1
FM 1735LLB2	315	37.5	4.3	1.02	26.0	81	4.8
BCSX 1015 LLB2	310	34.6	4.2	1.06	23.7	78	5.6
TAM 04 WH-7	295	36.4	4.3	1.04	28.4	79	6.5
FM 9160B2F	295	40.3	4.6	1.08	26.5	83	5.3
ST 4498B2RF	272	38.9	4.4	1.03	27.8	82	7.7
FM 1880B2F	243	36.5	4.1	1.08	26.7	80	6.2
FM 955LLB2	215	35.4	4.6	1.11	27.9	81	5.6
TAM 04 WE-27s	140	34.9	4.2	1.21	28.7	81	5.8
LSD (k=100)1	105	2.8	0.5	0.06	3.2	3.0	0.6
%CV	18.8	3.6	5.2	2.9	5.9	1.3	4.6
Mean	403	40.6	4.6	1.05	26.5	81.4	6.6

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 7. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall during 2009. (Dryland)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong-ation (%)
TAM 03 WZ-37	414	38.9	4.9	1.08	30.5	83	5.9
DP 0924 B2RF	397	41.1	5.1	0.98	25.3	81	6.6
CG 3035RF	380	42.9	4.9	0.98	25.4	81	6.2
DP 09R796B2R2	374	45.4	4.8	0.99	27.2	81	7.4
ST 4498B2RF	371	39.7	4.9	0.98	28.3	81	7.2
Dyna Gro 2570 B2RF	367	44.5	5.1	0.97	26.0	81	7.1
PHY 367 WRF	360	42.6	4.7	1.00	25.1	81	6.2
DP 0912 B2RF	358	41.1	5.2	1.00	26.9	81	6.6
TAM 04 WA-24	357	38.2	4.5	1.06	26.3	81	5.6
TAM 04 WH-7	357	38.7	5.0	1.03	28.3	81	5.9
Dyna Gro 2400 RF	354	43.7	5.1	0.98	25.0	82	7.2
CG 4020B2RF	353	40.4	4.6	1.02	24.4	80	5.6
DP 0920 B2RF	353	43.0	4.9	1.01	24.8	81	5.9
BCSX 1010 B2F	349	40.0	4.3	1.02	23.1	80	4.7
CG 3220B2RF	348	43.9	5.2	1.01	25.0	81	6.8
ST 5288B2F	347	40.6	5.2	0.98	24.2	80	5.8
All-Tex Epic	346	44.1	5.1	1.01	26.4	82	7.2
DP 141 B2F	342	39.5	4.8	1.02	25.0	79	5.8
DP 1028B2RF	342	43.3	4.8	1.05	25.1	82	5.9
PHY 565 WRF	340	38.2	4.8	1.01	27.1	81	6.8
DP 09R619B2R2	340	43.3	4.8	1.05	25.3	81	6.6
STV 4554B2RF	339	41.5	5.3	1.00	27.8	81	7.1
AM 1532 B2F	339	40.2	4.6	1.05	25.1	81	6.0
DP 555 BG/RR	337	43.9	5.0	0.98	23.1	80	4.4
All-Tex Apex	335	41.9	4.5	1.00	23.2	80	5.6
SSG Exp. 596-9	333	37.1	4.8	1.03	27.1	81	5.7
PHY 315 RF	331	43.8	5.0	0.98	24.0	80	5.4
STV 5327 B2RF	330	40.7	4.7	1.02	28.7	81	7.1
BCSX 1025	328	39.1	4.7	1.06	27.6	82	5.3
FM 955LLB2	327	37.5	4.7	1.07	27.1	81	5.3
DP 0935 B2RF	327	43.6	5.2	1.01	25.1	81	5.8
TAM 04 WG-66s	324	40.6	4.3	1.05	25.8	80	6.2
TAM 04 WH-66	324	39.5	4.7	1.05	26.5	81	6.1
TAM 02 WK-11	322	40.9	4.8	1.03	26.3	82	6.5
ST 5458B2RF	322	41.0	5.2	0.97	24.5	80	5.7

Table 7 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elongation (%)
FM 1880B2F	321	39.0	4.7	1.02	26.0	80	5.8
PHY 375 WRF	320	42.8	4.9	0.98	25.0	81	6.0
TAM 04 N-49	319	36.2	3.9	1.12	31.6	82	5.7
ST 4288B2F	319	38.3	4.5	1.05	25.7	81	5.7
PHY 5922 WRF	316	39.5	4.9	1.00	26.6	81	7.2
DP 09R303B2R2	314	42.5	5.0	0.98	23.1	80	5.3
TAM 04 WD-9s	313	40.3	5.0	1.03	25.3	81	5.1
DP 09R549B2R2	311	42.6	4.8	1.04	26.0	81	6.5
PHY 525 RF	310	42.5	5.0	1.04	26.9	81	7.0
DP 1032 B2RF	309	43.0	4.7	1.04	26.2	81	5.7
CG 3520B2RF	306	40.4	4.7	0.99	23.5	80	6.2
DP 161 B2RF	304	37.8	4.8	1.07	27.7	82	5.6
ST 4427B2RF	303	38.8	4.4	1.02	27.0	81	5.4
DP 0949 B2RF	303	42.4	5.2	0.96	24.9	81	6.1
SSG CT 210	302	38.8	5.3	0.98	26.0	79	5.9
TAM 04 WB-33s	299	37.5	4.6	1.16	34.0	83	6.0
FM 840B2F	299	38.8	4.4	1.08	28.0	81	5.7
FM 1740B2F	299	40.4	4.7	0.98	25.4	81	5.6
CG 3020B2RF	295	39.4	4.7	1.00	24.2	81	6.2
FM 1735LLB2	284	38.5	4.3	1.01	24.5	81	4.6
PSC 485 WRF	282	41.1	4.8	0.98	24.6	81	6.4
All-Tex 75015 RF	276	39.1	4.9	1.00	25.1	82	6.4
FM 1773 LLB2	274	39.1	5.0	1.05	27.6	82	5.2
FM 9160B2F	272	39.8	4.2	1.03	26.1	81	5.4
FM 1845LLB2	266	38.1	4.8	1.06	29.9	81	5.5
FM 9058F	265	39.6	4.4	1.01	25.5	80	5.5
PHY 72	263	38.5	4.6	1.06	32.1	82	6.4
TAM 04 WE-27s	261	35.0	4.3	1.14	26.8	80	5.2
BCSX 1015 LLB2	250	36.0	4.7	1.07	26.9	81	5.1
FM 835LLB2	234	33.5	4.4	1.04	26.6	81	5.5
LSD (k=100)1	69	2.8	0.3	0.04	2.2	2.0	0.6
%CV	13.4	3.5	3.2	2.2	4.3	1.0	5.4
Mean	322	40.4	4.8	1.02	26.2	80.9	6.0

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 8. Agronomic performance and fiber quality of cotton cultivars evaluated at Commerce during 2009. (Dryland)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
DP 1028 B2RF	1514	44.8	4.8	1.16	28.4	85	12.0
DP 09R619B2R2	1472	42.7	4.7	1.16	29.3	85	13.0
DP 0935 B2RF	1410	43.4	4.7	1.12	29.4	83	11.0
DP 0912 B2RF	1383	40.4	5.1	1.14	30.8	84	12.0
DP 1032 B2RF	1378	44.4	4.7	1.17	30.7	83	11.0
DP 09R549B2R2	1357	42.6	4.6	1.19	30.9	84	12.0
PHY 375 WRF	1357	42.9	4.7	1.09	27.6	83	11.0
TAM 04 WD-9s	1336	40.9	4.9	1.15	32.5	84	10.0
AM 1532 B2F	1329	41.0	4.2	1.15	26.3	82	11.0
DP 09R796B2R2	1300	42.7	4.8	1.14	31.4	83	12.0
DP 555 BG/RR	1289	42.2	4.3	1.16	29.4	83	10.0
PHY 5922 WRF	1263	40.2	4.7	1.12	30.3	85	13.0
DP 0949 B2RF	1249	42.9	4.7	1.14	29.0	83	11.0
DP 0924 B2RF	1240	39.6	5.0	1.16	29.8	85	11.0
PHY 315 RF	1240	42.2	5.0	1.15	30.5	84	11.0
STV 4554B2RF	1238	41.4	4.9	1.14	30.0	83	13.0
DP 09R303B2R2	1232	41.0	4.4	1.17	28.6	83	11.0
TAM 04 WH-7	1201	40.1	5.0	1.15	33.4	84	12.0
DP 0920 B2RF	1198	41.0	4.7	1.18	29.3	83	11.0
DP 141 B2F	1198	39.6	4.6	1.17	30.0	82	11.0
PSC 485 WRF	1184	38.7	4.7	1.16	30.6	84	13.0
BCSX 1025	1175	39.5	4.8	1.23	33.9	84	9.5
CG 4020B2RF	1172	39.9	4.3	1.18	28.0	84	12.0
DP 161 B2RF	1158	37.4	4.5	1.24	34.1	84	10.0
CG 3020B2RF	1153	40.4	4.4	1.10	25.5	83	12.0
FM 1773 LLB2	1149	40.1	4.9	1.20	31.2	82	9.6
CG 3220B2RF	1103	40.3	4.7	1.16	28.0	84	12.0
STV 5327 B2RF	1098	39.8	4.7	1.18	31.4	85	12.0
FM 835LLB2	1076	38.1	4.5	1.20	32.2	84	9.9
CG 3520B2RF	1071	40.0	4.6	1.12	26.8	83	12.0

Table 8 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
PHY 367 WRF	1057	41.8	4.4	1.09	26.1	82	11.0
TAM 02 WK-11	1038	37.6	4.5	1.24	32.3	85	11.0
SSG CT 210	1037	39.1	4.1	1.18	30.1	82	10.0
TAM 04 WA-24	1037	38.2	5.0	1.14	32.1	83	12.0
SSG Exp. 596-9	1031	36.9	4.9	1.18	33.8	84	10.0
CG 3035RF	1029	41.6	4.3	1.18	28.4	84	11.0
TAM 04 WB-33s	1029	35.8	4.4	1.31	35.1	86	12.0
TAM 04 WG-66s	1029	42.2	4.7	1.14	31.0	84	13.0
BCSX 1010 B2F	1021	39.1	4.6	1.17	30.4	82	10.0
TAM 04 WH-66	1012	40.4	4.4	1.18	29.3	82	11.0
TAM 03 WZ-37	1008	39.3	4.6	1.17	32.0	84	11.0
FM 9058F	996	40.1	4.3	1.25	31.9	84	9.7
PHY 525 RF	987	41.0	4.4	1.17	33.1	83	13.0
BCSX 1015 LLB2	985	38.4	4.5	1.19	29.4	81	8.9
TAM 04 N-49	952	36.6	4.2	1.30	31.9	85	11.0
PHY 565 WRF	928	30.7	4.6	1.13	31.6	82	13.0
TAM 04 WE-27s	923	36.8	4.4	1.36	31.7	84	11.0
PHY 72	874	37.7	4.8	1.22	36.2	85	11.0
LSD (k=100)1	141	4.0	0.4	0.06	2.8	2.8	1.0
%CV	8.4	4.6	4.6	2.6	4.6	1.3	4.5
Mean	1156	40.0	40.0	1.17	30.5	83	11.2

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Table 9. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe during 2009. (Irrigated)

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
TAM 04 WH-66	1163	32.4	4.3	1.08	28.0	82	6.9
TAM 04 WA-24	1145	31.7	4.6	1.15	31.1	82	6.7
DP 0935 B2RF	1144	31.6	4.8	1.04	28.4	81	7.6
CG 3035RF	1140	34.7	4.9	1.08	27.7	83	8.6
DP 555 BG/RR	1137	35.2	4.8	1.05	27.2	81	6.3
DP 09R796B2R2	1127	36.0	4.8	1.08	29.5	83	8.7
FM 1740B2F	1109	33.6	4.9	1.08	28.9	82	6.8
STV 4554B2RF	1108	34.3	5.0	1.07	30.2	82	9.0
DP 0924 B2RF	1108	33.7	5.1	1.06	28.5	84	7.9
TAM 04 WG-66s	1103	30.6	4.1	1.15	27.8	83	7.5
ST 4498B2RF	1091	33.2	5.0	1.07	30.8	83	8.7
DP 1032 B2RF	1086	34.3	4.7	1.14	29.9	82	6.9
FM 9058F	1085	31.5	4.5	1.17	30.7	83	5.9
TAM 04 WD-9s	1085	33.1	5.1	1.09	28.7	81	5.9
FM 9160B2F	1083	33.2	4.5	1.14	30.5	84	6.2
BCSX 1025	1083	32.4	4.8	1.14	30.3	83	6.7
FM 840B2F	1082	32.2	4.7	1.15	31.2	84	6.9
PHY 525 RF	1070	31.5	4.4	1.10	30.3	82	8.6
PHY 565 WRF	1061	30.9	4.4	1.12	31.2	83	8.5
PHY 367 WRF	1055	33.1	4.7	1.06	28.4	81	7.7
ST 5458B2RF	1055	33.1	4.9	1.08	27.7	82	7.1
TAM 04 WH-7	1048	29.0	4.7	1.13	31.7	83	7.9
FM 1880B2F	1043	31.9	4.6	1.12	30.1	82	6.8
DP 141 B2F	1042	31.3	4.6	1.08	27.9	81	7.2
DP 1028 B2RF	1032	31.3	4.6	1.12	29.7	84	8.9
PHY 375 WRF	1032	31.3	4.6	1.02	28.4	81	7.3
DP 09R619B2R2	1026	31.9	4.5	1.11	28.0	83	8.1
TAM 02 WK-11	1026	31.3	4.6	1.11	29.4	83	7.7
ST 4288B2F	1025	30.2	5.0	1.11	28.4	82	7.8
BCSX 1010 B2F	1018	33.8	4.9	1.09	28.8	83	7.1
CG 3220B2RF	1017	33.0	4.9	1.07	28.1	82	7.9

Table 9 Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Strength (g/tex)	UI (ratio)	Elong- ation (%)
Nex Gen 1572 RF	1012	32.2	4.2	1.10	26.3	81	6.9
DP 143 B2RF	1010	31.8	4.4	1.13	29.3	82	7.2
TAM 03 WZ-37	1008	32.5	4.8	1.09	31.8	82	7.1
DP 0912 B2RF	1002	32.9	5.1	1.04	28.0	83	8.0
Fiber Max 9180 B2F	997	31.6	4.7	1.10	30.2	82	6.7
DP 09R549B2R2	993	32.2	4.7	1.15	30.7	84	8.0
DP 121 RF	993	31.6	5.1	1.07	29.2	82	8.4
DP 161 B2RF	993	29.8	4.7	1.14	31.3	82	7.2
ST 5288B2F	991	34.9	5.0	1.06	27.3	82	7.7
DP 0920 B2RF	990	32.0	4.8	1.10	28.9	82	7.7
CG 3020B2RF	990	31.2	4.6	1.08	27.1	83	8.0
Nex Gen 2448 R	989	31.2	4.8	1.05	29.4	82	7.4
BCSX 1015 LLB2	988	29.1	4.5	1.14	29.6	81	6.2
PHY 315 RF	975	31.2	4.7	1.07	28.7	82	7.4
DP 09R303B2R2	972	33.6	4.9	1.09	27.0	82	7.1
PSC 485 WRF	965	31.5	4.8	1.09	30.7	83	8.6
Fiber Max 958	964	31.4	4.9	1.11	30.2	83	5.9
FM 1773 LLB2	963	30.9	5.0	1.13	29.2	82	6.1
CG 4020B2RF	962	31.0	4.6	1.13	28.7	83	7.5
PHY 5922 WRF	949	30.9	4.8	1.09	30.1	84	8.9
AM 1532 B2F	946	30.8	4.8	1.11	27.4	83	7.7
TAM 04 WB-33s	944	27.4	4.1	1.23	34.8	84	6.6
TAM 04 WE-27s	934	27.7	4.3	1.19	29.3	81	6.7
DP 0949 B2RF	913	30.7	4.6	1.10	30.4	83	8.1
All-Tex Summitt B2F	911	31.4	4.6	1.05	25.2	82	7.7
CG 3520B2RF	892	30.7	4.7	1.05	26.0	81	8.2
All-Tex Atlas RR	888	28.1	4.9	1.03	29.6	83	7.3
PHY 72	769	26.5	4.5	1.15	35.4	83	7.3
TAM 04 N-49	760	25.3	3.8	1.20	32.7	82	7.2
LSD (k=100)1	143	2.6	0.4	0.07	2.3	3.1	0.5
%CV	9.3	4.1	4.4	2.8	4.0	1.2	4.0
Mean	1018	31.7	4.7	1.10	29.3	82.3	7.4

1. Values within columns are different at approximately $p=0.05$ ($k=100$) if they differ by more than the LSD at the base of the column.

Company	Brand	Variety
All-Tex	All-Tex	All-Tex 75015 RF
All-Tex	All-Tex	All-Tex 7A21
All-Tex	All-Tex	All-Tex 8167
All-Tex	All-Tex	All-Tex 8176
All-Tex	All-Tex	All-Tex 8227
All-Tex	All-Tex	All-Tex A102
All-Tex	All-Tex	All-Tex Apex
All-Tex	All-Tex	All-Tex Atlas RR
All-Tex	All-Tex	All-Tex Epic
All-Tex	All-Tex	All-Tex LA 122-6
All-Tex	All-Tex	All-Tex Summitt B2F
Americot	Americot	AM 1532 B2F
Americot	Americot	NexGen 1572 RF
Americot	Americot	NexGen 2448 R
Bayer CropScience	FiberMax	FM 1773 LLB2
Bayer CropScience	Bayer CropScience Experimental	BCSX 1010 B2F
Bayer CropScience	Bayer CropScience Experimental	BCSX 1015 LLB2
Bayer CropScience	Bayer CropScience Experimental	BCSX 1025 B2F
Bayer CropScience	FiberMax	FM 9180 B2F
Bayer CropScience	FiberMax	FM 958
Bayer CropScience	FiberMax	FM 1735LLB2
Bayer CropScience	FiberMax	FM 1740B2F
Bayer CropScience	FiberMax	FM 1845LLB2
Bayer CropScience	FiberMax	FM 1880B2F
Bayer CropScience	FiberMax	FM 835LLB2
Bayer CropScience	FiberMax	FM 840B2F
Bayer CropScience	FiberMax	FM 9058F
Bayer CropScience	FiberMax	FM 9160B2F
Bayer CropScience	FiberMax	FM 9170B2F
Bayer CropScience	FiberMax	FM 955LLB2
Bayer CropScience	Stoneville	ST 4288B2F
Bayer CropScience	Stoneville	ST 4427B2RF
Bayer CropScience	Stoneville	ST 4498B2RF
Bayer CropScience	Stoneville	ST 5288B2F
Bayer CropScience	Stoneville	ST 5458B2RF
Bayer CropScience	Stoneville	ST 4554B2RF
Bayer CropScience	Stoneville	ST 5327 B2RF
Dyna Gro	Dyna Gro	Dyna Gro 2400 RF
Dyna Gro	Dyna Gro	Dyna Gro 2570 B2RF
Monsanto	Deltapine	09R303B2R2
Monsanto	Deltapine	09R549B2R2
Monsanto	Deltapine	DP 1032 B2RF
Monsanto	Deltapine	DP 1028 B2RF
Monsanto	Deltapine	09R619B2R2
Monsanto	Deltapine	09R796B2R2
Monsanto	Deltapine	DP 0912 B2RF
Monsanto	Deltapine	DP 0920 B2RF
Monsanto	Deltapine	DP 0924 B2RF

Monsanto	Deltapine	DP 0935 B2RF
Monsanto	Deltapine	DP 0949 B2RF
Monsanto	Deltapine	DP 141 B2F
Monsanto	Deltapine	DP 161 B2RF
Monsanto	Deltapine	DP 555 BG/RR
Monsanto	Deltapine	DPL 121 RF
Monsanto	Deltapine	DPL 143 B2RF
PhytoGen	PhytoGen	PHY 315 RF
PhytoGen	PhytoGen	PHY 367 WRF
PhytoGen	PhytoGen	PHY 375 WRF
PhytoGen	PhytoGen	PHY 525 RF
PhytoGen	PhytoGen	PHY 565 WRF
PhytoGen	PhytoGen	PHY 5922 WRF
PhytoGen	PhytoGen	PHY 72
PhytoGen	PhytoGen	PSC 485 WRF
Seed Source Genetics	Seed Source Genetics	SSG CT 210
Seed Source Genetics	Seed Source Genetics	CT 212
Seed Source Genetics	Seed Source Genetics	SSG Exp. 59-3-29
Seed Source Genetics	Seed Source Genetics	Exp. 596-9
Texas A&M University		TAM 02 WK-11
Texas A&M University		TAM 03 WZ-37
Texas A&M University		TAM 04 N-49
Texas A&M University		TAM 04 WB-33s
Texas A&M University		TAM 04 WD-9s
Texas A&M University		TAM 04 WE-27s
Texas A&M University		TAM 04 WG-66s
Texas A&M University		TAM 04 WH-66
Texas A&M University		TAM 04 WH-7
Texas A&M University		TAM 04 WA-24
Winfield Solutions	Croplan Genetics	CG 3020B2RF
Winfield Solutions	Croplan Genetics	CG 3035RF
Winfield Solutions	Croplan Genetics	CG 3220B2RF
Winfield Solutions	Croplan Genetics	CG 3520B2RF
Winfield Solutions	Croplan Genetics	CG 4020B2RF