

COTTON CULTIVAR TESTS FOR 2003

IN CENTRAL AND SOUTH TEXAS

P. Thaxton, C. W. Smith, A. Albrimeit, B. Batchelor, D. G. Bordovsky,
D. Deno, J. Drawe, T. Dusek, C. Eixmann, M. Jakubik, R. King,
K. Schaefer, J. Stapper, and R. Sutton

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Cotton cultivar tests (CVT) are conducted each year by the Texas Agricultural Experiment Station 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 CVT 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.

Most locations had normal cotton production conditions. However, dry soil conditions at planting caused poor stands at the Upper Coast (Matagorda County) location and the test had to be dropped. In Corpus Christi, timely rains and the boll weevil eradication program resulted in above normal yields. In the irrigated San Patricio County test, there was field variability and weeds that caused a high C.V.

Test locations, soil types, planting dates, and harvest dates are given in Table 1, with yield and fiber characteristics presented in Tables 2 - 28.

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 International Textile Research Center 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 (UHM). 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
<u>Short</u>	
(0.96 inch or less)	
18-19	Very low
20-21	Low
22-23	Average
24-25	High
26-27	Very high
<u>Medium</u>	
(0.97-1.10 inch)	
17-19	Very low
20-22	Low
23-25	Average
26-28	High
29-31	Very high
<u>Long</u>	
(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

Table 1. Locations, soil types, planting dates, harvest dates, and irrigation of cultivars evaluated in Central and South Texas, 2003.

Location (nearest town)	Soil type	Planting dates	Harvest dates	Irrigation
Weslaco	Hildago s.c.l. ¹	3/25/03	8/5/03	Yes
Corpus Christi	Victoria clay	4/2/03	8/19/03	No
San Patricio Co. (Sinton)	Victoria clay	4/1/03	8/12/03	No
San Patricio Co. (Sinton)	Victoria clay	4/3/03	8/11/03	Yes
Upper Coast (Matagorda Co.)	Lake Charles clay	4/9/03	- ⁴	No
College Station	Westwood s.l. ²	5/1/03	9/29/03	Yes
Uvalde	Uvalde s.c.l. ¹	4/10/03	9/10/03	Yes
Thrall	Burleson clay	4/17/03	8/25/03	No
Dallas (Prosper)	Houston c.l. ³	4/28/03	10/21/03	No
Chillicothe	Abilene c.l.	5/30/03	11/2/03	Yes

1. s.c.l. = sandy clay loam

2. s.l. = silt loam

3. c.l. = clay loam

4. Upper Coast (Matagorda County) was lost due to combination of drought and hurricane.

Table 2. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco (Lower Rio Grande Valley) during 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Deltapine 493	1514	43.5	5.1	1.12	33.0	84	4.6	0.5055	765	4
Stoneville 5242 BR	1468	39.5	5.1	1.08	28.8	83	5.8	0.4950	727	7
FiberMax 960 BR	1442	39.0	4.8	1.09	31.4	83	4.2	0.5405	779	1
TAM 96 WD-22s	1435	40.6	4.7	1.15	29.9	84	6.5	0.5415	777	2
Stoneville 5599 BR	1434	39.8	5.2	1.12	30.1	83	4.9	0.5005	718	8
FiberMax 800 BR	1430	39.6	4.8	1.15	30.7	83	5.1	0.5430	776	3
Stoneville 4892 BR	1397	40.0	5.2	1.10	31.2	84	5.4	0.5020	701	10
TAM 96 WD-22	1377	40.7	4.7	1.11	27.0	82	7.1	0.5340	735	5
Deltapine 449 BG/RR	1352	38.7	5.2	1.11	32.3	83	5.2	0.5030	680	14
Deltapine DPLX 00W12 ²	1347	39.8	5.1	1.12	31.4	84	6.5	0.5040	679	15
Deltapine 491	1347	42.4	4.9	1.14	32.5	84	5.1	0.5450	734	6
Stoneville 4691B	1339	40.8	5.2	1.10	30.0	83	5.6	0.4985	667	17
Phylogen PSC 355	1338	39.1	5.3	1.09	31.6	84	6.4	0.4860	650	22
Deltapine 494 RR	1309	40.6	5.1	1.16	32.3	85	5.4	0.5055	662	18
BCG 295 ³	1308	37.3	5.0	1.15	32.1	84	4.3	0.5045	660	19
Sure-Grow 215 BR	1305	38.3	5.2	1.09	29.0	85	7.2	0.4970	649	23
FiberMax 966	1303	40.4	5.2	1.11	33.5	84	3.5	0.5055	659	20
ARK-9101-97-09	1300	38.8	5.0	1.13	32.4	85	5.5	0.5050	656	21
ARK-9111-57-12	1300	39.5	4.9	1.14	32.4	85	6.5	0.5445	708	9
TAM 96 WD-22h	1297	40.5	4.7	1.10	28.9	82	6.7	0.5320	690	11
Deltapine 424 BGII/RR	1281	37.1	5.1	1.08	28.8	83	6.2	0.4950	634	27
FiberMax 991 RR	1269	37.6	4.9	1.11	32.1	83	4.8	0.5425	688	12
FiberMax 960 RR	1266	37.9	5.2	1.08	30.9	83	4.5	0.5010	634	26
Deltapine 458 BR	1263	37.6	5.2	1.12	31.0	84	5.9	0.5040	637	25
Stoneville 4646 B2R	1263	38.4	5.4	1.07	26.3	82	6.1	0.4645	587	43
ARK-9108-04-17	1262	39.5	5.8	1.08	34.1	84	5.4	0.4875	615	33
FiberMax 958	1261	39.2	5.1	1.15	32.5	84	3.7	0.5060	638	24
Deltapine DPLX 01W99R	1259	39.4	4.9	1.14	29.8	84	6.3	0.5410	681	13
Deltapine 555 BG/RR	1253	42.8	5.0	1.09	29.9	83	4.5	0.4985	625	30
FiberMax 991 BR	1244	37.7	5.1	1.13	32.8	84	5.3	0.5055	629	28
Deltapine NuCotn 33B	1243	36.9	5.3	1.09	30.6	83	6.1	0.4850	603	37
FiberMax 800 RR	1235	38.4	5.0	1.13	33.6	85	4.5	0.5065	626	29
FiberMax 989 BR	1229	37.5	4.8	1.15	32.8	84	4.5	0.5455	670	16
Deltapine 432 RR	1226	39.9	5.3	1.07	31.1	84	7.1	0.4740	581	47
Deltapine 451 B/RR	1211	36.8	5.4	1.08	31.8	84	5.8	0.4860	589	42
FiberMax 819RR	1204	41.9	5.2	1.12	31.4	83	5.3	0.5030	606	35
Stoneville 3990 BR	1204	36.2	4.6	1.04	28.3	82	6.4	0.4925	593	40
Syngenta N2429	1204	40.4	5.2	1.10	30.8	84	6.5	0.5020	604	36
Paymaster 1218 BR	1201	38.6	5.4	1.04	27.2	83	6.4	0.4395	528	57
Stoneville 5303 R	1195	37.6	5.0	1.13	32.2	84	4.9	0.5040	602	38

Table 2. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Sure-Grow 105	1177	39.6	5.3	1.08	30.9	83	6.1	0.4850	571	52
FiberMax 989 RR	1167	38.9	4.8	1.06	31.3	82	4.6	0.5260	614	34
FiberMax 819	1152	40.2	5.1	1.17	33.1	84	4.5	0.5060	583	45
CS-34 ⁴	1149	39.5	4.8	1.11	32.4	84	5.4	0.5435	624	31
CS-31	1147	39.9	5.0	1.08	33.1	82	6.7	0.5000	574	50
FiberMax 832	1137	37.8	4.8	1.18	34.4	85	4.1	0.5465	621	32
TAM 96 WD-18	1130	37.1	5.0	1.15	33.7	84	5.3	0.5060	572	51
BCG 30R	1103	36.0	4.4	1.16	30.0	83	5.2	0.5405	596	39
Deltapine 436 RR	1096	35.4	5.4	1.10	29.7	84	6.6	0.4835	530	56
Deltapine 468 BGII/RR	1087	35.3	4.8	1.14	30.9	83	5.8	0.5425	590	41
CS-32	1080	38.8	4.9	1.09	30.0	84	5.1	0.5390	582	46
FiberMax 989	1079	39.2	4.8	1.11	32.3	83	4.3	0.5425	585	44
CS-35	1070	40.7	4.9	1.11	29.7	82	6.3	0.5375	575	49
CS-33	1061	36.8	4.5	1.16	32.2	84	4.7	0.5440	577	48
Deltapine 5415 RR	1038	37.7	5.1	1.13	31.1	85	6.3	0.5050	524	58
Deltapine 444 BG/RR	1032	38.5	4.9	1.08	28.7	84	6.3	0.5355	553	54
BCG 245	1022	37.6	4.9	1.15	33.7	84	4.3	0.5455	558	53
CS-36	998	36.6	5.1	1.13	31.9	83	5.8	0.5030	502	59
Acala 1517-99	994	38.1	4.8	1.23	35.8	85	4.7	0.5465	543	55
All-Tex Atlas	843	36.6	5.1	1.04	31.9	82	6.3	0.4590	387	60
LSD (k=100) ⁵	238	1.8	0.5	0.07	3.4	2.9	0.9	-	-	-
%CV	12.7	2.5	4.1	2.7	4.9	1.2	8.4	-	-	-
Mean	1228	38.9	5.0	1.11	31.2	84	5.5	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. CS=California Planting Cotton Seed Distributors
5. 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 Weslaco (Lower Rio Grande Valley) during 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 493	1153	40.1	5.4	1.09	31.7	84	4.4
Deltapine 491	1060	39.2	5.1	1.11	31.1	84	4.7
Stoneville 5599 BR	1017	36.5	5.0	1.09	30.7	83	4.9
Stoneville 4892 BR	988	35.9	5.3	1.06	30.8	84	5.1
TAM 96 WD-22	982	37.0	4.5	1.08	28.1	81	6.4
Deltapine 555 BG/RR	972	38.8	5.2	1.07	29.1	82	4.1
Deltapine 449 BG/RR	962	35.2	5.0	1.07	31.0	83	4.8
Stoneville 4691B	955	36.5	5.3	1.11	30.6	85	5.1
Sure-Grow 215 BR	933	34.2	5.0	1.05	27.6	84	6.6
FiberMax 991 RR	923	33.9	5.0	1.08	31.4	83	4.7
Deltapine 458 BR	911	35.2	5.3	1.09	30.3	83	5.5
FiberMax 958	907	35.3	4.9	1.12	31.2	84	3.5
Syngenta N2429	902	35.7	5.2	1.08	31.2	84	6.2
FiberMax 966	895	36.2	5.1	1.11	33.7	84	3.3
PhytogenPSC 355	889	34.8	5.1	1.09	31.8	84	6.3
Deltapine NuCotn 33B	849	33.4	5.1	1.05	29.8	83	5.6
FiberMax 989 RR	835	35.1	4.5	1.05	31.1	83	4.5
FiberMax 989 BR	832	33.4	4.6	1.09	30.5	83	4.5
FiberMax 832	822	33.4	4.7	1.18	34.8	85	3.9
TAM 96 WD-18	794	32.8	4.5	1.14	33.6	84	5.1
Paymaster 1218 BR	789	34.7	5.2	1.04	28.2	83	5.7
Deltapine 451 B/RR	770	32.6	5.1	1.08	30.0	83	5.2
Acala 1517-99	756	33.9	4.7	1.18	34.9	85	4.6
Deltapine 436 RR	749	31.7	5.2	1.06	28.7	84	6.2
FiberMax 989	720	34.1	5.0	1.12	34.2	84	4.0
LSD (k=100) ¹	159	1.5	ns	0.06	3.2	ns	0.6
%CV	8.2	2.2	5.8	2.5	4.6	1.1	5.9
Mean	894	35.2	5.0	1.09	31.0	83	5.0

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 4. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco (Lower Rio Grande Valley) during 2001, 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 491	1119	39.4	5.1	1.12	30.6	83	5.0
Sure-Grow 215 BR	1019	34.9	5.0	1.05	26.5	84	6.7
TAM 96 WD-22	1010	37.5	4.4	1.09	27.8	82	6.4
Stoneville 4892 BR	1005	36.7	5.2	1.06	29.3	83	5.4
Deltapine 555 BG/RR	1005	37.9	4.9	1.07	28.8	82	4.8
Stoneville 4691B	995	37.4	5.3	1.10	28.9	84	5.6
Deltapine NuCotn 33B	967	33.8	5.0	1.05	29.1	83	5.9
FiberMax 958	957	36.1	4.9	1.11	30.1	83	4.2
FiberMax 966	939	36.7	5.0	1.12	33.1	85	4.1
Phytogen PSC 355	914	35.7	5.1	1.08	30.5	84	6.5
TAM 96 WD-18	884	33.7	4.4	1.15	32.7	84	5.6
Paymaster 1218 BR	863	35.7	5.1	1.04	27.4	83	5.9
Deltapine 451 B/RR	804	33.1	5.0	1.07	28.3	83	5.5
FiberMax 989	799	34.8	4.9	1.11	33.2	84	4.6
FiberMax 832	766	34.1	4.7	1.18	33.7	84	4.5
Deltapine 436 RR	738	32.3	5.0	1.06	27.7	83	6.3
LSD (k=100) ¹	152	1.4	0.5	0.40	2.0	ns	0.7
%CV	9.5	2.5	5.1	2.1	4.3	1.2	8.6
Mean	924	35.6	4.9	1.09	29.9	83	5.4

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.

Table 5. Agronomic performance and fiber quality of cotton cultivars evaluated at Corpus Christi (Costal Bend) during 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Stoneville 4892 BR	1858	43.1	5.5	1.10	28.9	84	6.2	0.4800	892	9
ARK-9111-04-17	1784	40.6	4.6	1.14	30.5	85	7.0	0.5445	971	1
Stoneville 4691B	1780	42.6	5.0	1.14	28.6	85	5.6	0.4990	888	11
TAM 96 WD-22h	1780	41.6	4.5	1.12	28.3	83	6.4	0.5365	955	3
Deltapine DPLX 01W99R ²	1777	42.5	4.4	1.16	29.9	84	6.1	0.5415	962	2
Deltapine 493	1763	43.3	5.0	1.15	31.9	84	4.8	0.5045	889	10
TAM 96 WD-22s	1708	41.4	4.4	1.15	28.0	83	6.8	0.5370	917	6
Deltapine NuCotn 33B	1691	38.6	4.9	1.15	30.6	84	5.9	0.5440	920	4
FiberMax 800 BR	1681	40.7	4.5	1.25	34.8	85	4.7	0.5465	919	5
Deltapine 432 RR	1678	41.2	4.7	1.14	32.0	84	6.4	0.5435	912	7
Stoneville 4646 B2R	1645	40.7	4.9	1.13	28.7	83	5.9	0.5365	883	14
Paymaster 1218 BR	1644	40.4	4.8	1.11	28.7	84	6.2	0.5375	884	13
Stoneville 5599 BR	1643	40.5	4.9	1.14	32.1	84	4.8	0.5435	893	8
Deltapine 444 BG/RR	1639	42.3	4.7	1.12	29.3	84	5.7	0.5375	881	15
Deltapine 491	1632	41.4	4.6	1.21	32.0	84	4.6	0.5440	888	12
ARK-9108-97-09	1628	41.6	5.6	1.06	31.3	83	5.7	0.4730	770	39
Stoneville 3990 BR	1590	38.7	4.4	1.07	28.2	84	6.2	0.5235	832	21
Phytogen PSC 355	1580	40.2	4.9	1.13	31.5	85	7.0	0.5445	860	16
Stoneville 5242 BR	1568	42.4	5.1	1.09	29.7	85	5.9	0.5005	785	34
Deltapine 5415 RR	1560	39.9	4.6	1.14	30.5	83	6.6	0.5425	846	17
Deltapine 555 BG/RR	1557	42.9	4.6	1.12	28.6	83	5.0	0.5365	835	20
Deltapine 424 BGII/RR	1552	39.4	4.8	1.10	27.4	83	7.0	0.5345	830	22
Sure-Grow 215 BR	1549	41.2	5.4	1.05	27.7	83	7.3	0.4670	723	49
Syngenta N2429	1549	38.9	4.8	1.15	31.4	85	6.7	0.5450	844	18
FiberMax 989 BR	1545	39.0	4.4	1.17	32.1	85	4.8	0.5450	842	19
Deltapine 436 RR	1525	38.6	4.8	1.13	27.5	83	7.7	0.5365	818	26
Deltapine 449 BG/RR	1521	40.6	5.0	1.10	32.2	83	5.2	0.5010	762	42
FiberMax 800 RR	1516	41.1	4.7	1.16	35.1	85	4.6	0.5465	828	23
ARK-9101-97-09	1512	40.4	4.8	1.13	31.9	84	5.9	0.5435	822	24
FiberMax 989 RR	1506	39.4	4.5	1.15	33.5	84	4.3	0.5455	822	25
FiberMax 960 BR	1487	39.4	4.6	1.13	33.4	84	4.3	0.5450	810	28
FiberMax 960 RR	1486	40.1	4.2	1.14	35.4	85	4.0	0.5475	814	27
Deltapine 458BR	1473	39.8	5.0	1.13	31.3	83	5.7	0.5030	741	47
FiberMax 958	1472	40.4	4.8	1.18	34.0	85	3.8	0.5465	804	29
Deltapine 451 B/RR	1472	37.8	5.0	1.15	29.1	84	5.4	0.4985	734	48
Deltapine 468 BGII/RR	1465	37.5	4.9	1.15	29.6	83	6.2	0.5405	792	32
FiberMax 819	1464	40.9	4.6	1.18	34.7	85	4.5	0.5465	800	30
FiberMax 991 RR	1464	39.2	4.5	1.16	33.0	83	5.1	0.5445	797	31
FiberMax 989	1446	40.1	4.5	1.17	34.8	85	4.5	0.5465	790	33
TAM 96 WD-22	1445	40.4	4.4	1.14	26.9	84	6.6	0.5375	777	37

Table 5. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
FiberMax 832	1431	38.0	4.6	1.22	35.7	85	4.5	0.5465	782	35
Deltapine DPLX 00W12	1428	41.1	4.7	1.18	30.6	85	6.8	0.5450	778	36
Sure-Grow 105	1423	40.4	4.8	1.14	31.5	85	6.2	0.5445	775	38
FiberMax 819RR	1411	42.8	4.6	1.17	31.5	85	5.5	0.5450	769	40
FiberMax 966	1405	40.5	4.7	1.15	32.3	85	3.9	0.5450	766	41
TAM 96 WD-69s	1397	36.8	4.6	1.11	31.3	83	6.7	0.5425	758	45
Deltapine 494 RR	1394	41.3	4.9	1.18	32.3	85	5.6	0.5450	760	43
Stoneville 5303R	1392	39.1	4.8	1.13	33.2	84	4.9	0.5450	759	44
BCG 30R ³	1390	38.0	4.7	1.17	31.5	84	5.7	0.5440	756	46
FiberMax 991 BR	1343	39.8	5.0	1.15	32.6	83	5.2	0.5050	678	51
TAM 96 WD-18	1254	37.3	4.3	1.22	33.8	85	5.8	0.5465	685	50
All-Tex Atlas	1177	36.5	4.6	1.11	32.5	85	5.9	0.5460	643	52
Tamcot Pyramid	1168	38.9	4.8	1.07	29.1	83	6.1	0.5225	610	53
Acala 1517-99	1090	38.9	4.3	1.21	36.0	85	4.3	0.5465	596	54
LSD (k=100) ⁴	262	1.4	0.3	0.04	2.5	ns	0.9	-	-	-
%CV	11.3	1.8	3.6	1.7	4.1	1.1	8.2	-	-	-
Mean	1522	40.2	4.7	1.14	31.3	84	5.6	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2002 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. 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 Corpus Christi (Coastal Bend) during 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Stoneville 4892BR	1241	37.1	5.5	1.09	29.3	85	6.1
Stoneville 5599BR	1236	37.0	5.2	1.10	31.1	84	4.6
Deltapine 493	1232	38.8	5.1	1.11	32.5	84	4.7
Deltapine 491	1189	36.6	4.8	1.18	31.8	84	4.7
Stoneville 4691B	1183	36.5	5.1	1.11	29.0	84	5.2
Deltapine NuCotn 33B	1124	33.2	5.0	1.15	31.4	84	5.8
Deltapine 449 BG/RR	1099	35.0	5.1	1.08	32.6	83	4.9
FiberMax 989 BR	1065	34.4	4.6	1.11	33.1	85	4.9
Deltapine 444 BG/RR	1062	36.6	4.6	1.11	30.0	84	5.5
Phytogen PSC 355	1040	34.0	5.0	1.10	31.8	85	6.9
Paymaster 1218BR	1037	34.7	5.1	1.08	29.4	84	6.0
Syngenta N2429	1034	33.9	5.1	1.11	31.5	85	6.9
Deltapine 555 BG/RR	1033	38.2	4.9	1.10	29.4	83	4.6
FiberMax 958	1011	35.3	4.9	1.15	34.7	85	3.6
Deltapine 436 RR	1010	33.3	5.0	1.11	27.8	84	6.9
Deltapine 458 BR	1008	34.7	5.2	1.10	30.3	83	5.7
FiberMax 966	999	35.0	5.0	1.13	33.9	85	3.5
Deltapine 5415 RR	992	34.8	4.9	1.13	31.2	84	6.3
FiberMax 832	990	32.7	4.8	1.19	35.6	85	4.3
FiberMax 991 RR	982	33.9	4.7	1.15	34.0	84	4.5
Deltapine 451 B/RR	962	33.0	5.1	1.12	29.2	84	5.3
TAM 96 WD-69s	940	31.3	4.7	1.10	31.6	83	6.5
TAM 96 WD-18	870	32.3	4.5	1.18	33.9	85	5.9
Tamcot Pyramid	830	34.3	4.9	1.04	29.7	83	5.7
All-Tex Atlas	796	31.1	4.8	1.09	32.5	84	5.9
Acala 1517-99	738	32.2	4.5	1.18	35.8	85	4.7
LSD (k=100) ¹	277	1.8	0.3	0.03	1.6	1.6	0.7
%CV	10.9	2.7	2.8	1.6	2.6	0.8	6.6
Mean	1026	34.6	4.9	1.12	31.6	84	5.3

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 Corpus Christi (Coastal Bend) during 2001, 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Stoneville 4892BR	1135	39.1	5.3	1.07	29.1	84	6.2
Deltapine 491	1122	39.0	4.7	1.17	32.5	84	5.2
Stoneville 4691B	1103	38.2	5.0	1.10	28.6	84	5.7
FiberMax 958	1021	37.8	4.9	1.13	32.9	84	4.3
Phytogen PSC 355	990	36.6	5.1	1.09	30.6	84	7.2
FiberMax 819	964	37.6	4.8	1.14	33.2	85	4.9
Deltapine 436 RR	946	35.0	4.9	1.10	27.7	84	7.2
FiberMax 832	922	35.3	4.7	1.18	34.7	85	4.9
Tamcot Pyramid	865	36.7	4.9	1.03	29.2	83	5.9
Deltapine 451 B/RR	860	34.5	5.0	1.10	28.4	84	5.7
All-Tex Atlas	763	33.4	4.9	1.07	31.6	84	6.1
LSD (k=100) ¹	217	1.6	0.3	0.02	2.1	ns	0.7
%CV	11.6	2.7	3.2	1.2	4.1	0.9	7.5
Mean	972	36.6	4.9	1.11	30.8	84	5.8

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 in San Patricio County (Coastal Bend) during 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Stoneville 5599BR	1628	41.0	4.1	1.10	30.7	83	5.0	0.5420	882	1
Deltapine 451 B/RR	1595	38.0	4.2	1.15	28.6	84	5.9	0.5395	861	3
Deltapine DPLX 00W12 ²	1580	41.5	4.1	1.19	30.5	84	6.6	0.5455	862	2
Syngenta N2429	1579	40.2	4.6	1.12	30.6	84	7.2	0.5435	858	4
Deltapine 494 RR	1552	42.4	3.8	1.18	33.7	85	5.2	0.5480	850	5
FiberMax 800 BR	1537	39.9	3.5	1.21	35.6	86	5.0	0.5475	842	6
FiberMax 960 BR	1453	39.3	3.9	1.12	32.5	84	4.7	0.5465	794	7
FiberMax 960 RR	1424	39.7	4.1	1.14	35.6	85	4.2	0.5475	780	8
Deltapine 424 BGII/RR	1422	38.1	4.3	1.11	28.9	85	6.4	0.5385	766	11
FiberMax 958	1414	41.3	4.3	1.15	33.4	85	4.2	0.5465	773	9
Deltapine DPLX 01W99R	1410	41.4	3.9	1.17	28.9	84	6.3	0.5395	761	12
TAM 96 WD-22	1401	40.7	3.5	1.16	28.3	84	6.6	0.5380	754	14
FiberMax 832B	1399	39.9	3.7	1.19	34.0	85	4.9	0.5480	767	10
Deltapine 432 RR	1390	41.3	4.3	1.12	30.6	85	7.4	0.5445	757	13
Sure-Grow 105	1357	40.0	4.1	1.14	31.7	84	6.0	0.5450	740	17
Stoneville 5303R	1356	39.8	4.4	1.12	33.5	85	5.1	0.5460	740	16
Stoneville 3990 BR	1354	39.1	4.1	1.08	28.7	83	6.9	0.5360	726	19
ARK-9111-57-12	1354	40.5	3.7	1.17	31.9	86	6.4	0.5475	741	15
Deltapine 555 BG/RR	1343	43.9	4.1	1.10	29.4	82	5.3	0.5335	716	23
TAM 96 WD-22h	1337	41.1	3.4	1.13	27.8	82	7.4	0.5150	689	32
FiberMax 832	1332	38.8	3.5	1.23	35.3	86	4.5	0.5475	729	18
Deltapine 436 RR	1329	37.8	4.4	1.12	29.2	84	6.9	0.5375	714	25
BCG 30R ³	1328	37.1	3.7	1.16	30.9	83	5.2	0.5445	723	20
FiberMax 989 RR	1320	40.3	4.1	1.11	33.0	84	4.7	0.5465	721	21
Stoneville 5242 BR	1320	41.5	4.0	1.12	30.0	85	6.2	0.5435	717	22
ARK-9101-97-09	1309	39.1	4.0	1.14	32.4	84	5.7	0.5450	713	26
FiberMax 966	1308	40.3	4.3	1.15	35.5	85	4.1	0.5465	715	24
Deltapine 444 BG/RR	1307	41.5	3.6	1.13	28.6	84	5.9	0.5375	703	29
Stoneville 4646 B2R	1303	38.7	4.0	1.17	30.9	84	5.3	0.5455	711	27
FiberMax 819	1291	40.2	3.8	1.17	35.9	85	4.4	0.5480	707	28
Deltapine 5415 RR	1278	41.7	4.2	1.12	30.0	84	6.3	0.5425	693	31
Deltapine 491	1266	42.2	4.1	1.19	33.7	85	4.4	0.5480	694	30
ARK-9108-04-17	1234	41.1	4.7	1.08	31.8	84	6.0	0.5415	668	34
TAM 96 WD-69s	1230	37.2	3.8	1.11	31.3	83	7.2	0.5440	669	33
Deltapine 449 BG/RR	1221	39.6	4.0	1.13	32.0	84	5.4	0.5450	665	35
Deltapine 468 BGII/RR	1215	37.8	4.1	1.15	31.7	85	5.7	0.5465	664	36
TAM 96 WD-22s	1196	40.8	3.1	1.15	29.0	83	7.4	0.4965	594	40
FiberMax 800 RR	1154	40.1	3.9	1.14	34.2	84	5.2	0.5465	631	37
FiberMax 989 BR	1132	38.5	3.8	1.15	34.1	84	4.3	0.5470	619	38
FiberMax 819RR	1127	42.7	4.2	1.16	31.2	85	5.4	0.5465	616	39

Table 8. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Deltapine 493	.	46.3	4.2	1.09	30.2	82	5.4	0.5370	-	-
TAM 96 WD-18	.	37.0	4.1	1.18	30.4	84	5.9	0.5430	-	-
LSD (k=100) ⁴	ns	2.1	0.5	0.05	2.5	1.6	0.8	-	-	-
%CV	15.5	2.5	6.1	2.1	4.0	0.9	7.4	-	-	-
Mean	1359	40.2	4.0	1.14	31.6	84	5.6	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. 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 in San Patricio County (Coastal Bend) during 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Syngenta N2429	1338	35.1	4.9	1.11	30.6	85	7.3
Deltapine 451 B/RR	1311	34.6	4.7	1.13	28.8	84	5.6
TAM 96 WD-22	1297	37.5	3.9	1.15	29.3	85	6.3
Deltapine 491	1283	38.2	4.5	1.18	33.1	85	4.6
FiberMax 958	1247	36.9	4.7	1.13	32.5	85	4.2
FiberMax 819	1226	37.1	4.4	1.15	34.4	85	4.3
FiberMax 966	1202	36.0	4.5	1.13	35.1	85	3.7
FiberMax 832	1196	34.9	4.1	1.22	35.3	86	4.3
Deltapine 5415 RR	1172	37.0	4.7	1.11	30.0	84	6.3
Deltapine 555 BG/RR	1163	39.6	4.5	1.06	28.6	81	5.0
TAM 96 WD-69s	1162	34.5	4.4	1.09	30.8	83	6.6
Deltapine 449 BG/RR	1130	35.5	4.5	1.08	32.0	84	5.2
Deltapine 436 RR	1128	33.8	4.8	1.12	29.0	84	6.7
LSD (k=100) ¹	ns	2.1	0.3	0.04	1.8	1.4	0.6
%CV	9.4	2.6	3.4	1.8	2.8	0.7	5.6
Mean	1219	36.2	4.5	1.12	31.5	84	5.4

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.

Table 10. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Coastal Bend) during 2001, 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 491	1324	39.6	4.4	1.16	33.0	84	5.1
TAM 96 WD-22	1313	38.9	4.0	1.13	28.8	84	6.4
FiberMax 966	1279	37.5	4.5	1.12	34.3	85	4.3
FiberMax 958	1270	38.3	4.7	1.12	31.9	84	4.7
FiberMax 832	1229	36.4	4.2	1.21	34.6	86	4.9
Deltapine 451 B/RR	1222	35.6	4.7	1.12	28.6	84	5.9
TAM 96 WD-69s	1219	35.4	4.3	1.08	30.4	83	6.7
FiberMax 819	1201	38.9	4.5	1.14	33.7	84	4.8
Deltapine 436 RR	1117	35.0	4.8	1.11	28.2	83	6.8
Deltapine 451 B/RR	860	34.5	5.0	1.10	28.4	84	5.7
All-Tex Atlas	763	33.4	4.9	1.07	31.6	84	6.1
LSD (k=100) ¹	ns	1.2	0.3	0.02	1.3	0.9	0.7
%CV	9.9	2.0	3.7	0.90	2.7	0.6	7.9
Mean	1242	37.3	4.5	1.13	31.5	84	5.5

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 11. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Coastal Bend) during 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Stoneville 5599BR	1376	43.1	5.3	1.09	31.7	84	4.9	0.4860	669	13
FiberMax 989 BR	1365	40.2	4.7	1.17	37.3	85	4.6	0.5465	746	1
Deltapine 493	1345	45.8	5.2	1.11	30.4	83	5.5	0.5005	673	9
TAM 96 WD-22h	1342	43.2	4.5	1.14	28.2	83	6.9	0.5365	720	3
Deltapine DPLX 00W12 ²		1324	42.0	4.9	1.14	31.8	85	7.5	0.5445	721
2										
ARK-9101-97-09	1315	41.2	5.4	1.17	32.3	85	5.8	0.4895	644	17
TAM 96 WD-22	1307	42.4	4.4	1.15	30.4	84	6.4	0.5415	708	4
FiberMax 832B	1293	39.0	5.0	1.18	34.0	86	4.7	0.5080	657	14
FiberMax 800 BR	1292	40.5	4.5	1.22	34.2	85	5.0	0.5465	706	5
Deltapine 432 RR	1274	41.9	5.1	1.13	29.8	85	7.9	0.5025	640	19
Deltapine 424 BGII/RR	1274	40.0	5.2	1.11	30.0	85	6.6	0.5025	640	20
Stoneville 5242 BR	1259	41.9	5.0	1.10	28.2	84	6.7	0.4960	624	24
Deltapine DPLX 01W99R	1247	43.6	4.9	1.15	28.3	84	6.9	0.5380	671	10
FiberMax 960 BR	1242	40.5	4.8	1.12	36.6	84	4.0	0.5450	677	6
FiberMax 960 RR	1236	40.9	4.9	1.14	35.1	85	4.7	0.5460	675	7
Deltapine 494 RR	1232	43.4	4.9	1.18	33.4	85	5.9	0.5465	673	8
Deltapine 444 BG/RR	1226	41.5	4.6	1.11	32.7	85	6.1	0.5460	669	11
Deltapine 449 BG/RR	1226	40.2	4.8	1.11	33.5	85	5.1	0.5460	669	12
Stoneville 3990 BR	1225	39.2	4.5	1.08	29.3	83	6.4	0.5345	655	16
ARK-9108-04-17	1216	41.8	5.6	1.08	33.0	84	6.0	0.4875	593	29
Deltapine 451 B/RR	1210	39.3	5.4	1.12	30.4	85	6.3	0.4865	589	31
TAM 96 WD-69s	1207	40.0	4.7	1.16	31.0	84	6.8	0.5440	657	15
Stoneville 4646 B2R	1189	40.9	5.0	1.14	30.6	84	6.1	0.5040	599	28
FiberMax 989 RR	1180	41.1	4.7	1.13	34.7	84	4.8	0.5450	643	18
Deltapine 491	1176	42.6	4.6	1.20	32.1	84	5.0	0.5440	640	21
Sure-Grow 105	1166	40.7	5.2	1.13	31.2	86	6.9	0.5060	590	30
ARK-9111-57-12	1158	41.4	4.9	1.13	32.7	86	7.2	0.5470	633	22
Deltapine 436 RR	1155	38.2	5.2	1.14	29.4	84	7.4	0.4980	575	33
Deltapine 555 BG/RR	1151	44.0	4.9	1.13	30.5	84	5.0	0.5435	626	23
TAM 96 WD-22s	1142	39.2	4.8	1.12	31.5	83	6.8	0.5425	620	26
FiberMax 958	1141	41.9	5.1	1.17	33.1	85	4.0	0.5070	578	32
FiberMax 966	1138	40.4	4.9	1.13	34.2	85	4.0	0.5460	621	25
Syngenta N2429	1136	39.7	5.3	1.15	32.3	85	7.9	0.4895	556	34
BCG 30R ³	1129	38.9	5.3	1.11	30.5	84	6.4	0.4880	551	36
Deltapine 468 BGII/RR	1106	38.8	4.5	1.18	32.9	85	6.3	0.5465	604	27
Deltapine 5415 RR	1080	41.6	5.1	1.12	31.6	86	6.7	0.5060	546	37
FiberMax 800 RR	1069	40.0	5.0	1.17	37.5	86	4.8	0.5080	543	39
Stoneville 5303R	1063	40.9	5.2	1.09	32.9	85	5.2	0.5045	536	40
FiberMax 819	1020	41.3	5.1	1.17	34.8	85	4.7	0.5070	517	41
TAM 96 WD-18	1008	37.9	4.7	1.20	32.6	86	6.2	0.5475	552	35

Table 11. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
FiberMax 819RR	998	42.5	4.9	1.19	32.5	86	5.4	0.5475	546	38
FiberMax 832	899	37.6	4.6	1.23	36.3	86	4.5	0.5475	492	42
LSD (k=100) ⁴	121	2.5	0.5	0.04	3.0	1.4	0.7	-	-	-
%CV	7.4	2.9	4.8	1.7	4.6	0.8	6.3	-	-	-
Mean	1195	41.0	4.9	1.14	32.2	85	5.8	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. 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 12. Agronomic performance and fiber quality of cotton cultivars evaluated at the Texas Upper Coast Area during 2001 and 2002.

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 491	1331	38.7	4.7	1.22	33.6	85	5.1
Stoneville 5599BR	1311	36.5	4.4	1.14	33.2	83	5.3
FiberMax 958	1268	36.9	4.6	1.22	35.2	85	4.6
PhytoGen PSC 355	1236	35.3	5.0	1.13	30.2	85	7.1
Stoneville 4892BR	1209	35.8	4.8	1.10	30.4	85	5.9
TAM 96 WD-22	1206	36.2	3.9	1.17	28.9	84	6.2
Deltapine DeltaPearl	1203	39.4	4.9	1.17	32.7	83	4.8
Deltapine NuCotn33 B	1199	33.5	4.4	1.13	30.9	84	6.3
FiberMax 966	1174	36.4	4.4	1.19	37.2	86	4.5
Sure-Grow 521R	1137	34.9	4.6	1.10	29.1	84	6.5
Stoneville BXN 49B	1131	34.3	4.2	1.13	31.4	84	5.8
Sure-Grow 215 BG/RR	1116	35.0	4.8	1.08	27.8	85	6.8
Stoneville 4691B	1116	35.0	4.9	1.10	29.1	83	5.7
Stoneville BXN 47	1092	36.2	4.8	1.13	30.8	85	5.8
FiberMax 832	1085	35.3	4.3	1.22	36.1	85	4.9
Deltapine 565	1053	36.0	4.9	1.14	32.4	84	5.6
Deltapine 448 B	1047	34.5	4.6	1.13	30.4	84	6.0
FiberMax 819	1043	35.9	4.6	1.21	35.0	85	5.0
TAM 96 WD-69s	1036	32.3	4.1	1.13	32.1	83	6.6
Stoneville 4793R	1024	36.5	5.0	1.09	29.8	85	6.1
Deltapine 451 B/RR	1021	32.8	4.8	1.13	28.8	84	5.9
Paymaster 1199 RR	1012	35.5	4.9	1.12	31.6	85	5.8
FiberMax 989	1004	35.5	4.2	1.15	36.2	84	5.1
Tamcot Pyramid	958	35.5	4.2	1.07	30.0	84	5.9
Paymaster 1218 BG/RR	954	36.1	4.8	1.10	28.7	85	6.3
TAM 96 WD-81	954	33.4	4.3	1.11	31.0	83	5.8
Deltapine 436 RR	937	31.6	4.8	1.14	28.2	84	6.7
Tamcot Sphinx	818	33.2	4.6	1.13	33.4	85	5.7
LSD(k=100) ¹	277	3.0	0.4	0.05	1.3	ns	1.1
% CV	10.1	3.8	4.2	2.1	2.3	1.1	8.7
Mean	1099	35.3	4.6	1.13	31.5	84	5.8

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 13. Agronomic performance and fiber quality of cotton cultivars evaluated at Upper Coast during 2000, 2001, and 2002.

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	1161	35.9	4.7	1.12	30.3	84	7.0
FiberMax 958	1159	37.0	4.3	1.21	33.1	84	4.8
Stoneville 4892BR	1097	36.2	4.5	1.10	29.6	84	5.9
Deltapine DeltaPearl	1086	39.4	4.7	1.16	31.5	83	4.8
FiberMax 966	1051	36.8	4.1	1.17	35.5	85	4.6
Sure-Grow 521R	1045	35.0	4.4	1.07	28.3	84	6.5
Stoneville 4691B	1041	35.7	4.6	1.09	28.0	83	5.5
Sure-Grow 215 BG/RR	1027	35.7	4.7	1.07	27.4	84	6.8
Stoneville BXN 47	998	36.8	4.7	1.11	29.5	84	5.8
FiberMax 819	986	37.1	4.3	1.19	33.7	85	5.1
Stoneville 4793R	973	36.8	4.6	1.09	29.0	84	6.0
Deltapine 451 B/RR	970	33.2	4.6	1.12	28.4	84	6.0
FiberMax 832	970	35.5	4.0	1.21	34.5	84	5.3
FiberMax 989	920	35.3	4.0	1.13	34.8	83	5.3
Tamcot Pyramid	905	35.5	4.0	1.07	29.5	84	5.9
Paymaster 1218 BG/RR	901	36.1	4.5	1.10	28.0	84	6.2
Deltapine 436 RR	885	32.1	4.6	1.13	27.9	84	6.6
Tamcot Sphinx	783	32.8	4.2	1.12	31.5	84	5.7
LSD(k=100) ¹	183	1.8	0.3	0.03	1.8	ns	0.8
% CV	9.8	3.1	3.9	1.6	3.8	0.9	8.3
Mean	998	35.7	4.4	1.13	30.6	84	5.8

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 14. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station (South Central) during 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
FiberMax 960 BR	1480	40.8	4.4	1.10	31.8	83	3.4	0.5405	800	1
FiberMax 800 BR	1466	41.3	4.0	1.20	31.1	84	4.1	0.5455	800	2
Deltapine 493	1442	46.0	5.0	1.10	27.9	81	3.9	0.4925	710	8
FiberMax 832 B	1425	41.0	4.4	1.17	31.2	84	4.4	0.5440	775	3
Deltapine 555 BG/RR	1424	46.2	4.6	1.04	25.7	81	5.2	0.4925	701	10
Stoneville 5599 BR	1410	42.3	4.7	1.10	27.5	82	4.1	0.5320	750	4
Deltapine 449 BG/RR	1401	40.3	4.5	1.07	29.7	82	4.4	0.5235	733	5
Deltapine 444 BG/RR	1353	41.3	4.2	1.10	28.8	82	5.0	0.5335	722	6
TAM 96 WD-22h	1340	43.4	4.5	1.10	26.7	81	5.6	0.5320	713	7
Deltapine NuCotn 33B	1309	38.4	4.6	1.08	26.9	82	5.6	0.5320	696	11
Deltapine DPLX 00W12 ²	1302	40.9	4.5	1.11	30.1	83	5.7	0.5400	703	9
TAM 96 WD-22s	1299	43.0	4.2	1.11	26.0	82	5.4	0.5355	696	12
ARK-9108-04-17	1288	41.7	5.0	1.08	29.8	83	5.0	0.4985	642	22
Stoneville 5242 BR	1277	42.3	4.8	1.08	25.6	83	5.9	0.5345	683	14
Paymaster 1218 BR	1267	41.7	5.1	1.05	27.2	83	5.2	0.4830	612	30
Deltapine 491	1262	44.6	4.6	1.18	31.8	83	3.8	0.5430	685	13
TAM 96 WD-22	1242	43.1	4.4	1.13	26.4	82	5.2	0.5340	663	15
Sure-Grow 215 BR	1221	39.8	4.8	1.05	24.7	82	7.2	0.5140	628	28
Deltapine 494 RR	1220	44.0	4.7	1.13	29.8	82	4.7	0.5375	656	18
Phytogen PSC 355	1218	39.8	5.0	1.12	30.7	82	4.9	0.5005	610	31
FiberMax 991 RR	1217	39.6	4.8	1.12	31.5	84	4.0	0.5435	661	16
FiberMax 832	1212	41.2	4.3	1.16	33.1	83	3.7	0.5445	660	17
ARK-9101-97-09	1211	41.0	4.4	1.09	32.2	82	4.9	0.5380	652	19
Stoneville 3990 BR	1210	38.3	4.1	1.02	25.8	82	7.0	0.4940	598	38
Stoneville 4691 B	1203	42.3	4.4	1.09	27.0	82	5.0	0.5320	640	23
FiberMax 966	1194	41.2	4.4	1.14	33.5	83	3.1	0.5440	650	20
Deltapine 424 BGII/RR	1190	39.8	4.3	1.09	26.2	83	6.0	0.5345	636	26
FiberMax 800 RR	1182	41.4	4.6	1.14	34.3	84	3.8	0.5450	644	21
Deltapine DPLX 01W99R	1180	42.7	4.2	1.14	25.7	83	5.5	0.5380	635	27
FiberMax 819	1178	42.1	4.4	1.14	31.7	83	3.7	0.5425	639	25
FiberMax 958	1175	41.1	4.6	1.14	32.5	83	3.3	0.5440	639	24
FiberMax 991 BR	1163	40.8	4.7	1.06	29.9	82	4.3	0.5235	609	32
Sure-Grow 105	1152	39.1	4.7	1.11	28.9	83	4.9	0.5365	618	29
All-Tex Max 9	1135	38.8	4.5	1.07	29.7	81	4.3	0.5235	594	39
TAM 96 WD-69s	1132	37.6	4.6	1.08	28.2	83	5.6	0.5345	605	35
FiberMax 819 RR	1128	44.6	4.4	1.12	28.7	84	4.6	0.5375	606	34
Syngenta N2429	1126	40.7	5.0	1.10	28.3	84	6.2	0.4960	558	45
Deltapine 458 BR	1123	40.7	4.7	1.03	27.4	81	5.9	0.4925	553	47
FiberMax 989	1115	42.1	4.3	1.09	29.9	83	3.9	0.5380	600	37
FiberMax 989 BR	1115	39.6	4.3	1.11	33.4	83	3.8	0.5440	607	33

Table 14. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
ARK-9111-57-12	1110	40.9	4.9	1.08	29.1	83	5.6	0.5345	593	40
Deltapine 432 RR	1110	41.5	4.7	1.05	27.6	82	5.9	0.5200	577	41
TAM 96 WD-18	1106	37.7	4.3	1.16	31.2	83	4.9	0.5430	601	36
BCG 24R ³	1099	40.3	4.5	1.05	27.0	83	6.4	0.5225	574	42
Stoneville 4892BR	1096	40.4	4.9	1.06	27.9	82	5.1	0.5200	570	43
All-Tex Top-Pick	1054	36.3	4.2	1.14	27.6	83	5.5	0.5380	567	44
Stoneville 5303R	1051	39.9	4.6	1.07	29.6	83	4.6	0.5260	553	48
Deltapine 468 BGII/RR	1050	37.9	4.7	1.06	26.5	81	5.6	0.5200	546	49
Deltapine 451 B/RR	1049	37.3	4.7	1.08	27.4	82	5.5	0.5320	558	46
Stoneville 4646 B2R	1042	40.3	4.4	1.07	27.6	82	5.0	0.5200	542	50
CS-32 ⁴	1023	39.3	4.6	1.06	27.7	82	4.4	0.5200	532	53
CS-35	1016	41.1	4.3	1.05	28.6	78	5.1	0.5155	524	54
Deltapine 436 RR	1014	35.2	4.4	1.11	25.3	82	6.3	0.5280	535	51
FiberMax 989 RR	991	41.8	4.4	1.09	32.2	82	3.8	0.5380	533	52
FiberMax 5024 BXN	979	39.0	4.6	1.06	28.7	82	4.7	0.5200	509	55
BCG 28R	965	42.2	5.0	1.10	26.5	83	4.4	0.4950	478	58
CS-31	941	40.6	4.3	1.06	27.0	82	6.1	0.5200	489	57
Acala 1517-99	903	40.2	4.1	1.16	33.9	83	4.3	0.5460	493	56
CS-34	874	40.5	4.4	1.10	30.8	82	4.3	0.5380	470	59
CS-36	862	38.3	4.3	1.12	29.9	82	4.4	0.5375	463	60
All-Tex Atlas	859	37.4	4.8	1.06	29.6	83	5.7	0.5260	452	61
CS-33	812	37.3	4.1	1.12	30.0	82	3.9	0.5390	438	62
LSD (k=100) ⁵	163	1.6	0.4	0.04	2.8	2.8	0.8	-	-	-
%CV	10.5	2.1	3.8	2.00	4.8	1.1	8.7	-	-	-
Mean	1161	40.7	4.5	1.09	29.0	82	4.9	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. CS=Cotton Planting Cotton Seed Distributors
5. 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 15. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station (South Central) during 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 493	1512	42.0	5.0	1.11	28.5	82	4.1
Deltapine 555 BG/RR	1347	42.3	4.8	1.07	25.9	82	4.7
Deltapine 491	1312	40.4	4.7	1.19	31.0	83	3.8
Deltapine 449 BG/RR	1277	36.4	4.7	1.10	29.2	84	4.4
FiberMax 966	1248	37.2	4.6	1.14	32.8	83	3.0
Paymaster 1218 BR	1229	37.8	5.2	1.06	26.8	84	5.3
TAM 96 WD-22	1220	38.4	4.5	1.13	25.9	83	5.5
FiberMax 832	1200	36.7	4.4	1.18	32.0	84	3.8
Phytogen PSC 355	1191	36.2	5.0	1.12	29.3	83	5.5
Sure-Grow 215 BR	1175	36.3	5.0	1.07	24.6	83	6.9
Deltapine NuCotn 33B	1169	35.6	4.8	1.09	26.1	83	5.6
Stoneville 4691B	1160	38.1	4.8	1.10	27.3	84	5.2
Deltapine 458 BR	1155	37.4	5.0	1.06	27.6	82	5.5
FiberMax 958	1124	37.2	4.8	1.15	31.1	84	3.4
FiberMax 819	1102	37.6	4.5	1.15	31.6	84	3.6
Stoneville 4892 BR	1059	36.6	5.2	1.08	28.3	83	5.3
Deltapine 451 B/RR	1030	34.3	4.9	1.10	27.2	84	5.3
FiberMax 989 BR	1029	35.0	4.5	1.12	31.0	84	4.1
FiberMax 989 RR	1011	37.0	4.5	1.10	31.0	83	4.1
TAM 96 WD-18	992	34.1	4.4	1.17	30.5	84	4.8
Deltapine 436 RR	977	32.4	4.7	1.13	25.7	84	6.0
Acala 1517-99	945	36.5	4.2	1.17	32.4	83	4.4
All-Tex Atlas	759	34.2	4.8	1.07	28.9	83	5.7
LSD (k=100) ¹	169	1.6	0.3	0.03	2.1	ns	0.7
%CV	7.3	2.2	3.2	1.2	3.6	0.8	7.6
Mean	1140	36.9	4.7	1.11	28.9	83	4.8

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 16. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station (South Central) during 2001, 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 555 BG/RR	1319	43.3	4.9	1.08	26.4	81	4.8
Phytogen PSC 355	1188	38.4	4.9	1.12	28.7	83	6.0
Paymaster 1218 BR	1174	39.2	5.1	1.07	26.6	83	5.6
Deltapine 491	1172	41.8	4.6	1.17	30.6	82	4.1
TAM 96 WD-22	1165	39.5	4.4	1.13	25.8	82	5.8
FiberMax 966	1155	36.7	4.6	1.14	32.3	83	3.3
Stoneville 4691B	1152	39.5	4.8	1.10	27.2	83	5.4
FiberMax 832	1133	37.5	4.4	1.18	31.1	83	4.1
Sure-Grow 215 BR	1132	37.7	4.9	1.07	24.7	83	7.0
Deltapine NuCotn 33B	1094	36.8	4.8	1.09	26.4	82	5.8
Deltapine 458 BR	1093	38.3	4.9	1.07	27.2	82	5.7
FiberMax 819	1076	38.8	4.5	1.15	31.5	84	3.9
FiberMax 958	1048	38.7	4.8	1.15	30.9	83	3.6
Stoneville 4892 BR	1038	37.6	5.1	1.09	28.4	83	5.5
Deltapine 451 B/RR	957	34.0	5.0	1.10	26.8	83	5.6
Deltapine 436 RR	918	33.6	4.8	1.13	25.6	83	6.2
All-Tex Atlas	727	33.8	4.8	1.07	28.9	83	5.8
LSD (k=100) ¹	122	2.1	0.2	0.02	1.3	1.5	0.5
%CV	7.1	3.6	3.1	1.4	3.0	0.9	6.1
Mean	1091	38.0	4.8	1.11	28.2	83	5.2

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 17. Agronomic performance and fiber quality of cotton cultivars evaluated at Uvalde (Winter Garden) during 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong-ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Deltapine 444 BG/RR	1572	41.3	3.8	1.14	28.1	83	5.6	0.5380	846	1
Stoneville 5599 BR	1498	40.5	4.0	1.16	29.9	83	4.3	0.5420	812	2
Deltapine 449 BG/RR	1476	39.7	4.0	1.13	30.8	83	4.0	0.5440	803	3
Stoneville 5242 BR	1470	40.8	4.3	1.12	26.5	84	5.7	0.5375	790	5
Stoneville 4892 BR	1455	40.4	4.4	1.13	28.1	84	5.0	0.5375	782	6
FiberMax 960 BR	1455	38.6	3.7	1.14	34.0	84	3.7	0.5465	795	4
Syngenta N2429	1440	39.8	4.8	1.15	29.9	84	6.0	0.5415	780	7
ARK-9101-97-09	1439	39.3	4.3	1.17	30.1	84	4.5	0.5415	779	8
TAM 96 WD-22h	1425	41.0	3.8	1.12	25.8	82	5.7	0.5355	763	12
Deltapine 491	1423	42.2	4.2	1.19	31.0	83	3.9	0.5445	775	9
Deltapine 493	1420	43.1	4.1	1.14	28.1	83	4.4	0.5380	764	11
Stoneville 3990 BR	1415	37.7	3.6	1.09	26.5	84	6.1	0.5355	758	13
FiberMax 991 BR	1406	39.6	3.9	1.16	33.1	82	4.1	0.5435	764	10
TAM 96 WD-22	1400	40.6	3.9	1.14	27.0	83	5.4	0.5380	753	14
Deltapine DPLX 00W12 ²	1378	41.2	4.5	1.17	29.2	84	6.0	0.5380	741	16
FiberMax 966	1354	38.7	4.0	1.18	37.9	85	3.3	0.5480	742	15
FiberMax 800 BR	1306	40.5	3.7	1.19	31.9	84	4.2	0.5455	712	17
MAR-280K-98	1298	37.0	4.6	1.13	29.1	85	5.2	0.5385	699	18
Deltapine 424 BGII/RR	1293	37.0	3.9	1.15	26.4	83	5.9	0.5385	696	19
Deltapine 436 RR	1290	36.4	4.0	1.16	27.1	83	5.7	0.5385	695	20
Deltapine 458 BR	1287	39.7	4.4	1.10	29.5	82	4.6	0.5355	689	22
TAM 96 WD-22s	1274	41.5	3.8	1.12	26.7	82	5.5	0.5355	682	25
Deltapine 451 B/RR	1267	37.4	4.1	1.15	26.1	84	4.8	0.5395	684	24
FiberMax 989 BR	1262	39.0	4.0	1.18	32.7	84	3.7	0.5470	690	21
ARK-9108-04-17	1262	40.6	4.9	1.11	30.8	84	5.1	0.5435	686	23
Deltapine 555 BG/RR	1238	42.4	3.9	1.13	28.3	82	3.9	0.5355	663	28
Deltapine 432 RR	1230	40.4	4.2	1.12	28.6	84	5.7	0.5390	663	27
FiberMax 958	1227	39.5	4.2	1.18	32.1	84	3.6	0.5455	669	26
Stoneville 4646 B2R	1221	39.1	4.3	1.12	28.2	84	4.9	0.5375	656	30
FiberMax 989	1213	38.6	3.7	1.19	33.4	83	3.8	0.5460	662	29
ARK-9111-57-12	1205	40.2	4.6	1.15	28.6	84	5.5	0.5380	648	31
Deltapine 468 BGII/RR	1198	36.0	3.7	1.17	29.4	82	5.0	0.5360	642	34
FiberMax 989 RR	1185	39.9	3.8	1.15	31.5	83	3.8	0.5445	645	32
Stoneville 5303 R	1181	38.7	3.9	1.12	31.9	84	4.2	0.5450	644	33
FiberMax 819	1159	41.3	4.1	1.16	31.2	83	3.8	0.5445	631	35
Sure-Grow 105	1154	38.6	4.2	1.14	30.2	84	5.0	0.5425	626	36
TAM 96 WD-18	1141	37.2	3.8	1.19	30.2	84	4.8	0.5430	620	38
FiberMax 832	1134	38.0	3.8	1.20	33.3	84	3.8	0.5470	620	37
FiberMax 832 B	1128	38.0	4.0	1.19	33.4	85	4.0	0.5480	618	39
Deltapine DPLX 01W99R	1114	41.0	3.8	1.17	27.8	83	5.4	0.5385	600	41

Table 17. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Deltapine 494 RR	1105	41.8	4.0	1.19	31.6	83	4.4	0.5445	602	40
TAM 96 WD-69s	1062	34.7	3.9	1.14	30.0	84	5.8	0.5425	576	43
FiberMax 991 RR	1057	39.5	3.9	1.18	31.8	84	4.4	0.5455	577	42
FiberMax 819 RR	1019	40.4	4.1	1.15	31.3	83	4.4	0.5445	555	44
FiberMax 5024 BXN	1005	38.2	4.2	1.08	29.0	83	4.3	0.5360	539	45
FiberMax 800 RR	799	40.6	4.2	1.16	33.7	84	3.9	0.5470	437	46
LSD (k=100) ³	323	1.8	0.5	0.04	1.9	1.9	0.5	-	-	-
%CV	15.7	2.4	5.5	1.70	3.4	0.9	5.6	-	-	-
Mean	1269	39.5	4.0	1.15	30.0	83	4.7	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. 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 18. Agronomic performance and fiber quality of cotton cultivars evaluated at Uvalde (Winter Garden) during 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine 493	1388	38.2	4.5	1.15	30.6	83	4.3
Deltapine 449 BG/RR	1344	37.0	4.4	1.13	32.3	84	4.1
TAM 96 WD-22	1268	37.5	4.1	1.16	27.9	84	5.6
Deltapine 458 B/RR	1252	36.2	4.7	1.12	30.5	83	4.9
Deltapine 555 BG/RR	1240	38.6	4.3	1.13	29.0	83	4.0
FiberMax 966	1235	35.5	4.1	1.18	36.2	86	3.3
Deltapine 451 B/RR	1222	33.9	4.2	1.15	27.2	85	4.8
FiberMax 989 RR	1203	37.8	4.0	1.13	32.2	83	3.9
Deltapine 491	1201	37.9	4.3	1.18	31.8	83	3.9
FiberMax 958	1163	36.2	4.5	1.17	32.7	84	3.5
FiberMax 989 BR	1159	35.7	4.4	1.16	32.6	84	4.0
FiberMax 991 RR	1159	36.3	4.2	1.17	33.1	84	4.4
FiberMax 832	1136	34.7	4.2	1.23	33.8	85	3.9
FiberMax 832 B	1129	35.5	4.3	1.20	33.7	86	4.1
Deltapine 436 RR	1127	33.3	4.3	1.16	27.9	84	5.9
TAM 96 WD-69s	1033	32.2	4.4	1.13	30.4	84	5.9
TAM 96 WD-18	1032	33.7	4.1	1.20	31.6	85	4.8
LSD (k=100) ¹	ns	2.0	0.4	0.05	2.5	1.4	0.3
%CV	9.4	2.6	3.7	1.8	3.8	0.7	4.0
Mean	1193	35.9	4.3	1.16	31.4	84	4.4

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.

Table 19. Agronomic performance and fiber quality of cotton cultivars evaluated at Uvalde (Winter Garden) during 2001, 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
FiberMax 966	1217	37.2	4.1	1.16	35.6	85	3.9
TAM 96 WD-22	1213	39.0	3.9	1.15	27.9	83	5.8
Deltapine 491	1192	39.8	4.1	1.17	31.4	83	4.6
Deltapine 458 B/RR	1183	37.3	4.5	1.12	30.1	83	5.4
Deltapine 451 B/RR	1142	34.9	4.2	1.14	27.0	84	5.2
Deltapine 436 RR	1114	34.9	4.3	1.15	27.4	84	6.4
FiberMax 958	1093	37.8	4.4	1.16	32.1	84	4.2
FiberMax 832	1089	35.9	4.0	1.21	33.8	84	4.4
TAM 96 WD-69s	1037	34.4	4.3	1.11	30.1	83	6.1
LSD (k=100) ¹	ns	1.4	ns	0.03	1.5	1.3	0.6
%CV	8.0	2.4	4.9	1.6	3.1	0.8	6.8
Mean	1142	36.8	4.2	1.15	30.6	84	5.1

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 20. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall (Southern Blacklands) during 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong-ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Stoneville 5599BR	993	39.4	4.0	1.12	29.1	83	3.8	0.5380	534	1
Sure-Grow 215 BR	962	39.3	4.2	1.08	26.4	83	6.2	0.5360	516	2
Stoneville 5242 BR	932	39.3	3.8	1.07	26.2	83	6.0	0.5240	488	11
Deltapine 444 BG/RR	926	39.7	3.5	1.10	28.2	83	4.9	0.5345	495	6
BCG 28R ²	922	39.8	4.5	1.11	27.3	82	4.6	0.5340	492	9
Deltapine DPLX 00W12 ³	922	39.6	3.9	1.12	29.7	84	5.7	0.5425	500	3
Phytogen PSC 355	920	38.8	4.3	1.11	29.5	84	5.8	0.5410	498	4
Sure-Grow 105	919	37.8	3.8	1.10	29.6	83	5.0	0.5395	496	5
ARK-9101-97-09	915	39.8	4.1	1.10	29.6	84	4.5	0.5405	495	7
Deltapine 493	904	42.7	4.2	1.12	30.8	82	3.7	0.5415	490	10
FiberMax 960 BR	901	39.0	4.0	1.12	33.7	84	3.4	0.5465	492	8
Deltapine 436 RR	891	35.9	4.0	1.10	26.3	82	5.9	0.5335	475	12
TAM 96 WD-22h	859	39.1	3.5	1.11	27.2	82	5.1	0.5340	459	15
Stoneville 4646 B2R	848	38.0	3.8	1.12	28.2	83	4.7	0.5380	456	16
Deltapine 449 BG/RR	845	38.8	4.1	1.13	30.5	83	4.0	0.5440	460	14
FiberMax 989 BR	841	38.9	3.8	1.15	34.0	84	3.7	0.5470	460	13
Deltapine DPLX 01W99R	837	40.8	4.0	1.13	27.5	81	5.3	0.5355	448	17
Stoneville 4892BR	836	40.1	4.3	1.06	26.8	83	4.8	0.5225	437	21
FiberMax 819RR	819	41.2	4.2	1.16	32.1	84	4.3	0.5455	447	18
TAM 96 WD-22s	815	39.4	3.8	1.11	27.5	81	5.3	0.5355	436	22
Deltapine 555 BG/RR	814	42.5	4.4	1.05	26.3	80	4.6	0.5200	423	24
All-Tex Excess RR	813	34.3	3.7	1.12	30.5	85	5.0	0.5460	444	19
ARK-9108-04-17	808	39.7	4.6	1.10	31.5	84	4.6	0.5415	438	20
Deltapine 451 B/RR	803	35.2	4.1	1.12	26.2	83	4.5	0.5380	432	23
Deltapine 468 BGII/RR	773	34.4	3.9	1.13	30.8	82	4.7	0.5415	419	25
ARK-9111-57-12	766	39.2	4.2	1.16	29.9	86	5.9	0.5450	417	26
Stoneville 3990 BR	765	37.5	3.5	1.03	26.9	83	5.6	0.4950	379	35
Stoneville 5303 R	762	38.2	4.1	1.10	31.6	85	3.5	0.5440	415	27
TAM 96 WD-22	745	38.9	3.9	1.11	28.3	81	4.9	0.5355	399	29
TAM 96 WD-18	741	36.6	3.8	1.18	31.2	84	4.5	0.5455	404	28
Deltapine 424 BGII/RR	737	35.7	4.1	1.08	27.8	83	5.4	0.5360	395	31
BCG 24R	736	38.9	4.1	1.09	29.6	83	5.2	0.5395	397	30
FiberMax 819	725	39.6	4.0	1.16	31.5	83	3.5	0.5445	395	32
FiberMax 966	703	38.2	3.9	1.15	35.6	84	2.8	0.5470	385	33
FiberMax 958	700	38.1	4.1	1.13	32.3	82	3.0	0.5415	379	34
Deltapine 432 RR	688	38.3	4.0	1.10	28.3	84	5.6	0.5370	369	37
Acala 1517-99	681	37.7	4.2	1.21	33.4	84	4.2	0.5470	373	36
FiberMax 989	678	36.9	3.6	1.15	34.1	83	3.6	0.5445	369	38
FiberMax 5024 BXN	666	35.7	4.3	1.09	29.4	84	4.8	0.5355	357	39
Deltapine 491	657	40.3	4.1	1.12	28.8	82	3.8	0.5355	352	40
Deltapine 494 RR	611	39.9	4.1	1.15	31.0	83	4.2	0.5445	333	41

Table 20. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
Deltapine 458 BR	586	37.8	4.3	1.10	30.7	82	4.3	0.5380	315	42
All-Tex Xpress RR	528	30.3	3.6	1.15	32.2	84	4.0	0.5440	287	43
All-Tex Atlas	403	34.2	4.2	1.10	31.5	84	5.1	0.5430	219	44
LSD (k=100) ⁴	234	1.2	0.5	0.04	2.4	1.3	0.6	-	-	-
%CV	18.5	1.7	5.3	1.7	4.0	0.1	6.7	-	-	-
Mean	789	38.3	4.0	1.11	29.7	83	4.6	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. BCG=Beltwide Cotton Genetics
3. DPLX=Experimental entries not for sale.
4. 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 21. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall (Southern Blacklands) during 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Syngenta N2429	1338	35.1	4.9	1.11	30.6	85	7.3
Deltapine 451 B/RR	1311	34.6	4.7	1.13	28.8	84	5.6
TAM 96 WD-22	1297	37.5	3.9	1.15	29.3	85	6.3
Deltapine 491	1283	38.2	4.5	1.18	33.1	85	4.6
FiberMax 958	1247	36.9	4.7	1.13	32.5	85	4.2
FiberMax 819	1226	37.1	4.4	1.15	34.4	85	4.3
FiberMax 966	1202	36.0	4.5	1.13	35.1	85	3.7
FiberMax 832	1196	34.9	4.1	1.22	35.3	86	4.3
Deltapine 5415 RR	1172	37.0	4.7	1.11	30.0	84	6.3
Deltapine 555 BG/RR	1163	39.6	4.5	1.06	28.6	81	5.0
TAM 96 WD-69s	1162	34.5	4.4	1.09	30.8	83	6.6
Deltapine 449 BG/RR	1130	35.5	4.5	1.08	32.0	84	5.2
Deltapine 436 RR	1128	33.8	4.8	1.12	29.0	84	6.7
LSD (k=100) ¹	ns	2.1	0.3	0.04	1.8	1.4	0.7
%CV	9.4	2.6	3.4	1.8	2.8	0.7	5.6
Mean	1219	36.2	4.5	1.12	31.5	84	5.4

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.

Table 22. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall (Southern Blacklands) during 2001, 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow 215 BR	596	37.2	4.7	1.05	27.4	83	6.8
Stoneville 4892 BR	594	38.2	4.9	1.06	29.0	83	5.0
Phytogen PSC 355	586	37.7	4.9	1.09	31.0	84	6.4
TAM 96 WD-22	579	38.6	4.3	1.12	28.7	82	5.4
Deltapine 451 B/RR	568	34.3	4.8	1.09	26.7	83	4.9
Deltapine 436 RR	563	34.6	4.6	1.10	27.7	83	6.0
FiberMax 958	500	37.5	4.7	1.13	32.7	83	3.4
Deltapine 491	494	40.5	4.7	1.13	30.0	82	4.2
Deltapine 458 BR	487	36.4	4.8	1.08	30.0	83	4.9
FiberMax 819	479	38.1	4.6	1.13	32.7	84	3.8
All-Tex Atlas	310	33.4	4.6	1.07	31.3	83	5.6
LSD (k=100) ¹	ns	1.6	0.4	0.04	1.5	1.7	0.4
%CV	18.6	2.7	4.3	2.3	3.1	1.0	4.7
Mean	523	37.0	4.7	1.09	29.7	83	5.1

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 23. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas (Northern Blacklands) during 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
TAM 96 WD-22	601	44.5	4.6	1.04	28.3	81	7.6	0.4870	293	3
Deltapine 491	587	43.2	4.9	1.11	30.5	82	6.0	0.5345	314	1
Sure-Grow 215 BR	586	41.8	5.2	1.03	29.6	82	7.0	0.4510	264	7
Deltapine 493	581	44.8	5.4	1.03	29.6	80	5.6	0.4350	253	10
TAM 96 WD-22s	574	42.9	4.9	1.05	28.2	80	7.2	0.5145	295	2
TAM 96 WD-22h	566	42.8	4.8	1.01	26.6	80	8.5	0.4660	264	8
FiberMax 960 BR	564	41.4	5.0	1.02	31.0	80	5.4	0.4535	256	9
Stoneville 4892 BR	558	43.3	5.3	1.04	29.8	81	6.7	0.4350	243	13
Deltapine DPLX 00W12 ²	542	42.4	4.9	1.09	32.3	83	7.6	0.5325	289	4
All-Tex Max 9	538	40.0	5.2	1.02	29.8	80	6.2	0.4510	243	14
Deltapine 555 BG/RR	538	44.6	5.0	1.02	27.0	81	6.6	0.4475	241	16
FiberMax 989	528	41.5	5.3	1.04	30.3	82	5.6	0.4350	230	23
Deltapine DPLX 01W99R	522	42.4	4.9	1.06	26.9	80	7.5	0.5145	269	5
Deltapine 444 BG/RR	517	41.7	4.8	1.06	30.2	82	6.1	0.5180	268	6
BCG 24R ³	507	40.6	5.4	1.04	30.3	82	7.3	0.4350	221	25
FiberMax 989 BR	503	40.0	5.3	1.05	31.7	81	5.6	0.4650	234	22
Deltapine 468 BGII/RR	496	38.4	5.0	1.07	28.6	81	7.0	0.4750	236	20
FiberMax 5024 BXN	496	37.7	4.9	1.03	33.1	83	5.9	0.4945	245	11
FiberMax 966	493	40.1	5.1	1.08	31.0	82	4.4	0.4930	243	12
TAM 96 WD-69s	492	37.3	4.9	1.04	29.6	80	8.0	0.4905	241	15
Deltapine 494 RR	489	42.1	5.2	1.07	31.9	83	6.6	0.4810	235	21
All-Tex Top-Pick	487	37.2	5.1	1.10	30.9	83	6.8	0.4930	240	17
Deltapine 451 B/RR	485	37.8	5.2	1.08	27.8	82	5.8	0.4870	236	19
Deltapine 436 RR	482	35.8	5.2	1.05	27.3	81	7.1	0.4750	229	24
Deltapine 458 BR	464	41.8	5.3	1.07	29.6	81	6.4	0.4625	215	30
Deltapine 424 BGII/RR	460	38.7	5.0	1.06	30.2	81	6.7	0.4785	220	26
Phytogen PSC 355	454	40.4	5.2	1.05	31.6	83	8.5	0.4810	218	28
ARK-9108-04-17	452	40.8	5.7	1.02	31.3	82	6.2	0.4375	198	31
Deltapine 432 RR	452	41.5	5.4	1.03	30.0	82	7.7	0.4350	197	32
FiberMax 958	451	40.5	5.1	1.06	30.1	82	5.0	0.4785	216	29
Deltapine 449 BG/RR	448	39.6	4.9	1.03	29.6	82	6.4	0.4905	220	27
Acala 1517-99	442	38.1	4.5	1.14	34.3	83	5.2	0.5360	237	18
BCG 28R	408	40.8	5.2	1.05	26.0	81	6.9	0.4750	194	34
Sure-Grow 105	406	39.5	5.1	1.05	29.9	83	6.7	0.4785	194	33
TAM 96 WD-18	358	37.9	4.8	1.10	31.3	82	7.0	0.5325	191	35

Table 23. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
ARK-9111-57-12	344	40.9	5.2	1.02	29.0	82	8.6	0.4475	154	37
ARK-9101-97-09	322	38.4	4.8	1.05	30.5	82	6.2	0.5205	168	36
All-Tex Atlas	248	38.2	4.9	1.00	29.1	81	7.7	0.4660	116	38
LSD (k=100) ⁴	94	1.7	0.3	0.05	2.6	ns	1.0	-	-	-
%CV	14.1	2.3	3.2	2.2	4.1	1.3	8.0	-	-	-
Mean	485	40.6	5.1	1.05	29.8	82	6.6	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. 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 24. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas (Northern Blacklands) during 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
Deltapine 493	688	40.1	5.2	1.05	30.5	82	4.6
Sure-Grow 215 BR	643	37.1	4.9	1.04	29.1	83	6.4
TAM 96 WD-22	641	38.6	4.4	1.05	28.4	81	6.2
Stoneville 4892 BR	599	38.1	4.9	1.05	30.3	83	5.6
Deltapine 491	581	38.8	4.7	1.11	32.0	82	4.9
Deltapine 449 BG/RR	535	36.0	4.7	1.05	30.8	83	5.0
FiberMax 989 BR	535	35.8	4.8	1.05	31.9	82	4.7
Deltapine 436 RR	526	32.5	4.9	1.08	28.5	83	6.1
FiberMax 966	519	35.6	4.8	1.09	33.7	83	3.4
TAM 96 WD-69s	513	32.9	4.6	1.06	31.0	82	6.6
Phytogen PSC 355	509	34.8	4.8	1.07	32.9	84	7.3
Deltapine 555 BG/RR	496	40.0	4.8	1.04	28.0	82	4.8
Deltapine 451 B/RR	496	34.0	4.9	1.08	27.5	83	4.7
Deltapine 458 B/RR	471	36.6	5.0	1.07	30.5	82	5.3
Acala 1517-99	451	33.5	4.3	1.16	36.7	84	4.7
TAM 96 WD-18	426	33.6	4.4	1.10	33.0	82	5.7
LSD (k=100) ¹	120	2.0	0.2	0.02	2.6	ns	0.9
%CV	9.5	2.7	2.5	1.3	4.0	0.9	8.3
Mean	539	36.1	4.7	1.07	30.9	82	5.4

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.

Table 25. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas (Northern Blacklands) during 2001, 2002 and 2003. (Dryland)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
TAM 96 WD-22	630	37.6	4.6	1.06	28.4	81	5.9
Sure-Grow 215 BR	613	36.7	5.2	1.03	28.5	83	6.3
Deltapine 491	565	37.9	4.9	1.12	32.3	82	4.6
Stoneville 4892 BR	563	37.4	5.3	1.06	30.2	83	5.5
Phytogen PSC 355	554	34.8	5.1	1.06	31.9	84	6.9
Deltapine 451 B/RR	515	33.7	5.0	1.08	27.6	83	4.6
Deltapine 436 RR	504	32.7	5.1	1.08	28.7	83	5.8
TAM 96 WD-69s	487	32.5	4.7	1.05	30.6	81	6.3
Deltapine 458 B/RR	484	35.4	5.1	1.09	31.3	82	5.1
LSD (k=100) ¹	103	1.9	0.3	0.04	2.0	1.2	0.5
%CV	9.5	3.3	3.6	2.1	3.9	0.8	5.4
Mean	546	35.4	5.0	1.07	30.0	83	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 26. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe (Northern Rolling Plains) during 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
ARK-9101-97-09	1514	30.3	4.0	1.17	33.8	85	7.9	0.5480	830	1
FiberMax 989 BR	1479	29.8	3.7	1.17	33.4	84	6.5	0.5470	809	2
Paymaster 2266 RR	1472	28.3	4.3	1.11	31.5	83	9.0	0.5425	799	5
FiberMax 966	1468	29.4	3.9	1.17	34.9	85	5.4	0.5480	804	3
FiberMax 989	1467	28.9	3.7	1.19	32.8	84	6.4	0.5470	802	4
FiberMax 5013	1442	28.3	4.3	1.12	32.9	84	8.2	0.5450	786	7
Paymaster 2326 RR	1439	28.2	4.5	1.09	31.8	83	8.7	0.5405	778	9
FiberMax 960 BR	1438	28.8	3.7	1.15	33.6	84	5.9	0.5470	787	6
Paymaster 2167 RR	1427	29.6	4.2	1.06	31.2	83	8.8	0.5300	756	12
FiberMax 958	1424	29.1	3.9	1.20	33.9	84	5.8	0.5470	779	8
Stoneville 5599 BR	1421	29.2	3.4	1.16	30.4	83	7.0	0.5215	741	13
Acala 1517-99	1395	29.2	3.8	1.25	36.5	85	6.7	0.5480	764	10
Stoneville 2448 R	1382	27.2	3.7	1.15	35.8	85	7.7	0.5480	757	11
TAM 96 WD-22h	1354	31.2	3.7	1.13	28.3	81	9.0	0.5355	725	17
ARK-9108-04-17	1347	28.6	4.2	1.15	33.3	84	8.0	0.5470	737	14
Deltapine DPLX 01W99R ²	1347	30.4	3.6	1.19	28.9	84	8.7	0.5380	725	18
Stoneville 2454 RR	1341	28.7	3.7	1.10	31.0	85	9.2	0.5440	730	16
Stoneville 5303R	1339	29.8	4.0	1.15	34.0	86	7.3	0.5490	735	15
Deltapine 444 BG/RR	1294	27.7	3.1	1.14	29.3	83	8.4	0.4960	642	31
Deltapine 493	1288	31.9	3.5	1.15	30.2	83	7.5	0.5405	696	20
Deltapine 432 RR	1284	27.8	3.7	1.15	30.8	85	9.8	0.5465	702	19
FiberMax 5024 BXN	1268	27.1	4.2	1.11	32.4	83	7.9	0.5440	690	21
All-Tex Excess RR	1267	27.4	3.6	1.11	31.4	82	8.9	0.5400	684	23
Deltapine 494 RR	1260	30.7	3.5	1.17	34.6	83	7.2	0.5445	686	22
TAM 96 WD-22	1252	29.9	3.3	1.15	29.1	82	10.0	0.5155	645	30
TAM 96 WD-18	1224	26.4	3.4	1.22	34.2	85	7.3	0.5275	646	29
ARK-9111-57-12	1216	28.8	3.6	1.14	29.6	83	9.1	0.5400	657	26
All-Tex Max 9	1215	28.8	3.9	1.14	31.9	83	7.6	0.5440	661	24
All-Tex Atlas RR	1212	27.3	3.7	1.09	32.2	83	9.1	0.5420	657	25
TAM 96 WD-22s	1210	29.0	3.1	1.14	27.6	81	9.5	0.4935	597	35
Deltapine 424 BGII/RR	1208	26.5	3.6	1.15	29.3	84	8.7	0.5380	650	27
Stoneville 4892 BR	1197	27.5	3.1	1.13	29.5	82	8.3	0.4970	595	36
BCG 28R ³	1194	28.7	3.5	1.17	30.8	83	7.3	0.5430	648	28
Stoneville 474	1167	27.4	3.3	1.14	29.9	82	8.4	0.5185	605	34
Deltapine 458 BR	1149	27.5	3.7	1.16	31.7	83	8.2	0.5445	626	32
All-Tex Top-Pick	1148	25.5	3.4	1.22	32.7	85	8.1	0.5275	606	33
DPLX 03X176BR	1137	28.9	3.2	1.20	33.6	83	7.2	0.5040	573	37
BCG 24R	1092	27.3	3.3	1.13	30.2	82	9.7	0.5185	566	39
Tamcot Luxor	1074	26.8	3.5	1.07	30.9	83	7.8	0.5285	568	38
Deltapine 468 BGII/RR	1049	26.1	3.2	1.18	31.6	82	8.3	0.5000	524	42

Table 26. Continued.....

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)	Loan value ¹ (\$/lb)	Return (\$/ac)	Rank return
All-Tex Atlas	1001	26.3	4.0	1.13	33.5	84	8.2	0.5465	547	40
All-Tex Xpress RR	983	23.5	3.6	1.13	32.2	84	7.0	0.5435	534	41
TAM 96 WD-69s	961	24.7	3.3	1.12	31.4	82	9.5	0.5210	501	43
LSD (k=100) ⁴	123	2.3	0.6	0.04	2.1	2.3	0.9	-	-	-
%CV	7.4	4.0	7.2	1.8	3.3	1.2	5.7	-	-	-
Mean	1276	28.2	3.6	1.14	31.8	83	8.0	-	-	-

1. Loan value based on grade 41-4 adjusted for length, strength, UI and micronaire. Base loan value for 2003 is 52 cents/lb.
2. DPLX=Experimental entries not for sale.
3. BCG=Beltwide Cotton Genetics
4. 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 27. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe (Northern Rolling Plains) during 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
FiberMax 958	1408	28.1	3.7	1.20	34.3	84	5.1
FiberMax 989 BR	1374	27.9	3.6	1.16	32.6	83	5.5
FiberMax 5013	1349	27.4	4.3	1.12	32.2	85	7.1
FiberMax 966	1346	27.6	3.7	1.19	36.3	85	4.5
Paymaster 2266 RR	1343	26.5	4.2	1.12	32.1	84	7.7
Paymaster 2167 RR	1317	28.3	4.2	1.05	30.5	84	7.3
Paymaster 2326 RR	1305	26.7	4.4	1.11	32.4	84	7.2
TAM 96 WD-22	1213	28.0	3.3	1.16	28.7	82	7.9
Acala 1517-99	1168	26.2	3.6	1.25	36.6	85	5.7
Stoneville 4892 BR	1144	26.4	3.4	1.12	30.3	83	7.0
All-Tex Atlas RR	1142	26.4	3.7	1.09	32.8	83	7.4
Stoneville 2454 R	1139	27.0	3.8	1.09	30.8	84	7.4
TAM 96 WD-18	1135	24.5	3.2	1.22	33.1	84	6.4
Deltapine 458 BR	1077	25.6	3.6	1.14	31.2	83	7.2
Stoneville 474	1074	26.0	3.6	1.14	29.7	83	7.0
Tamcot Luxor	1023	25.8	3.6	1.11	31.5	84	6.4
TAM 96 WD-69s	981	23.5	3.3	1.13	31.4	82	7.9
All-Tex Atlas	936	24.7	3.8	1.12	34.0	84	7.3
LSD (k=100) ¹	183	1.5	0.5	0.04	2.0	2.9	1.1
%CV	7.1	2.7	5.9	1.8	3.0	1.2	7.7
Mean	1193	26.5	3.7	1.14	32.2	83	6.8

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 28. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe (Northern Rolling Plains) during 2001, 2002 and 2003. (Irrigated)

Cultivar	Lint yield (lb/ac)	Gin turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Paymaster 2266 RR	1181	27.0	4.3	1.11	31.8	83	7.0
Paymaster 2326 RR	1175	27.1	4.7	1.10	32.0	84	6.6
TAM 96 WD-22	1157	28.7	3.7	1.16	28.7	82	7.1
Stoneville 2454R	990	27.5	4.2	1.09	30.3	83	6.8
TAM 96 WD-69s	958	24.5	3.7	1.14	31.1	82	7.3
Stoneville 474	949	27.0	4.1	1.14	29.8	83	6.3
All-Tex Atlas	914	25.3	4.2	1.11	33.0	84	6.7
LSD (k=100) ¹	ns	0.8	0.5	0.03	1.4	ns	0.8
%CV	12.1	1.8	6.2	1.5	2.6	1.2	5.8
Mean	1046	26.7	4.1	1.12	31.0	83	6.8

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.