

COTTON CULTIVAR TESTS FOR 2001

IN CENTRAL AND SOUTH TEXAS

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Cotton cultivar tests (CCT) 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 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 given in Table 1, with yield and fiber characteristics presented in Tables 2 - 30.

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
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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

Table 1. Locations, soil types, planting dates, harvest dates, and irrigation of cultivars evaluated in Central and South Texas, 2001.

Location (nearest town)	Soil type	Planting dates	Harvest dates	Irrigation
Weslaco	Hildago s.c.l. ¹	3/8/01	8/6/01	Yes
Corpus Christi	Victoria clay	3/13/01	7/25/01	No
San Patricio Co. (Sinton)	Victoria clay	3/12/01	7/24/01	No
San Patricio Co. (Sinton)	Victoria clay	3/12/01	8/6/01	Yes
Upper Coast (Matagorda Co.)	Lake Charles clay	4/4/01	8/17/01	No
College Station	Westwood s.l. ²	4/5/01	8/22/01	Yes
Uvalde	Uvalde s.c.l. ¹	5/1/01	10/04/01	Yes
Thrall	Burleson clay	5/30/01	10/17/01	No
Dallas (Prosper)	Houston c.l. ³	5/18/01	10/23/02	No
Chillicothe	Abilene c.l.	5/15/01	11/07/01	Yes

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

2. s.l. = silt loam

3. c.l. = clay loam

Table 2. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
Sure-Grow SG 105	1393	36.6	5.1	1.08	26.9	84	6.8
Deltapine DPLX 99X35	1333	39.6	5.2	1.06	25.0	82	6.4
Texas 418	1315	39.1	5.0	1.07	25.4	82	6.4
Stoneville ST 5599BR	1283	38.9	4.9	1.10	28.3	83	5.9
Stoneville BXN 49B	1279	37.6	4.3	1.11	28.0	82	6.0
Deltapine DPLX 00S04	1269	38.3	4.6	1.08	28.3	84	6.4
Deltapine DP 491	1239	39.8	5.2	1.15	29.8	83	5.8
Deltapine DPLX 99M03	1207	40.7	4.9	1.07	28.4	83	6.4
Deltapine NuCotn 33 B	1203	34.7	4.7	1.07	27.7	83	6.6
MSU 8806-3-2-35	1202	39.2	5.1	1.08	25.9	83	6.4
Sure-Grow SG 215 BR	1191	36.3	5.2	1.05	24.4	83	6.8
Deltapine DP 20 B	1165	36.6	4.7	1.08	25.6	84	6.7
Novartis NK 2387	1160	39.3	4.8	1.04	26.4	81	6.3
Sure-Grow SG 747	1119	37.4	5.2	1.10	25.8	84	7.0
Deltapine DP 448 B	1117	34.4	4.8	1.06	26.5	82	6.0
Garst AP 7126	1103	36.0	4.4	1.11	27.8	83	6.4
TAM 96 WD-81	1096	36.4	4.9	1.08	25.7	82	6.3
Stoneville ST 4691B	1077	39.2	5.2	1.07	25.6	82	6.8
Deltapine DeltaPearl	1070	37.9	5.2	1.11	28.3	82	5.5
Deltapine DP 555 BR	1070	36.1	4.5	1.06	28.1	82	6.2
TAM 96 WD-18	1066	35.5	4.4	1.17	30.9	84	6.7
Paymaster PM H1560	1066	37.2	5.1	1.06	27.0	83	6.7
TAM 96 WD-22	1065	38.4	4.2	1.11	27.2	83	6.5
Sure-Grow SG 821	1060	37.7	5.2	1.09	26.5	84	7.3
Tamcot Pyramid	1056	38.2	5.2	1.01	26.6	82	6.3
FiberMax FM 958	1056	37.6	5.0	1.11	28.1	83	5.7
Deltapine DP 422 B/RR	1054	35.7	4.2	1.07	27.6	83	6.8
Stoneville ST 4892BR	1040	38.4	5.1	1.06	26.5	82	6.2
Stoneville ST 474	1040	38.9	5.6	1.08	25.8	84	6.6
Garst 1500RR	1035	34.2	4.3	1.08	28.7	82	6.3
FiberMax FM 966	1027	37.7	5.0	1.14	32.0	86	5.6
Sure-Grow SG 125	1023	36.5	5.2	1.09	25.6	83	6.5
Paymaster PM 1218 BR	1012	37.9	5.1	1.04	25.7	83	6.4
Deltapine DP 565	991	37.1	5.0	1.12	27.9	84	6.6
Stoneville BXN 47	990	37.4	5.1	1.07	26.0	83	6.4
Deltapine DP 50	984	33.4	4.6	1.09	25.8	83	6.5
PhytoGen PSC 355	965	37.4	5.0	1.07	27.8	84	7.1
Stoneville ST 2454R	956	37.9	5.1	1.04	26.6	82	6.7
FiberMax FM 989	956	36.1	4.7	1.10	31.2	83	6.0
Sure-Grow SG 521R	955	36.9	5.1	1.05	25.6	83	7.1
MSU 8806-3-2-21	925	37.5	5.2	1.07	26.8	83	6.8

Table 2. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Paymaster PM 1199 RR	913	36.5	5.1	1.06	26.3	84	6.4
Sure-Grow SG 501 BR	908	36.3	4.9	1.05	27.3	83	7.1
Stoneville ST 3539BR	900	35.6	5.1	1.01	27.5	83	6.1
All-Tex Atlas	878	33.9	4.9	1.05	27.5	84	6.7
Deltapine DP 451 B/RR	872	34.0	4.9	1.06	24.9	82	6.0
Tamcot Sphinx	861	34.9	5.1	1.07	28.6	84	6.1
MSU 8806-3-2-19	812	36.2	4.9	1.05	28.1	83	6.5
TAM 96 WD-69s	805	34.8	4.6	1.05	27.5	82	6.7
TAM 94 L-25	802	35.7	4.7	1.13	29.2	82	5.5
MSU 8839-3-10-2	775	35.0	4.9	1.10	24.8	84	6.4
FiberMax FM 819	747	38.3	5.0	1.14	29.3	84	6.2
Deltapine DP 436 RR	718	33.6	4.8	1.06	25.8	83	6.6
Stoneville ST 4793R	688	37.8	5.3	1.04	26.1	83	6.4
FiberMax FM 832	654	35.4	4.8	1.17	31.6	84	5.9
Acala Maxxa	566	37.9	4.3	1.13	32.7	83	5.8
LSD (k=100) ¹	465	1.5	0.4	0.04	1.6	1.8	0.4
%CV	19.4	2.2	4.3	1.7	3.1	0.9	3.3
Mean	1012	36.9	4.9	1.08	27.3	83	6.4

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 3. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 105	1297	37.5	5.1	1.11	27.5	85	7.1
Texas 418	1284	38.3	4.7	1.13	28.5	83	6.4
TAM 96 WD-81	1234	36.5	4.6	1.10	26.7	83	6.7
TAM 96 WD-22	1233	39.2	4.3	1.13	27.4	83	6.8
Deltapine NuCotn 33 B	1200	35.5	4.8	1.11	27.7	83	7.0
Sure-Grow SG 747	1189	38.1	5.2	1.11	25.6	85	7.5
Deltapine DP 20 B	1189	37.3	4.6	1.10	26.1	84	6.9
FiberMax FM 966	1180	38.2	4.7	1.13	30.5	85	6.6
Deltapine DeltaPearl	1167	38.3	4.8	1.15	28.9	83	6.0
FiberMax FM 958	1166	36.1	4.9	1.14	28.9	84	6.2
Tamcot Pyramid	1166	38.1	4.9	1.06	27.9	83	6.8
PhytoGen PSC 355	1144	38.4	4.8	1.10	28.2	85	7.7
Sure-Grow SG 821	1129	37.3	4.9	1.10	26.8	84	7.8
Garst AP 7126	1113	37.5	4.5	1.14	28.7	84	6.9
FiberMax FM 989	1102	36.7	4.5	1.14	32.2	84	6.2
Sure-Grow SG 125	1094	37.4	5.0	1.11	26.1	84	7.1
Deltapine DP 50	1086	33.9	4.7	1.11	26.3	83	7.0
Paymaster PM 1218 BR	1080	38.1	5.1	1.07	25.8	84	6.8
Garst 1500 RR	1076	35.7	4.3	1.12	29.3	83	6.8
Stoneville ST 474	1072	39.2	5.2	1.08	26.1	84	6.7
Stoneville ST 4892 BR	1057	38.7	5.2	1.09	26.6	84	6.5
Stoneville ST 4691 B	1033	38.7	5.0	1.11	27.1	84	6.8
FiberMax FM 832	1027	36.8	4.6	1.22	32.5	85	6.0
Sure-Grow SG 501 BR	1022	37.3	5.0	1.07	27.0	84	7.4
Deltapine DP 451 BR	1018	34.5	5.0	1.08	25.3	83	6.6
MSU 8806-3-2-19	1013	36.6	4.9	1.09	27.8	84	6.6
MSU 8839-3-10-2	1008	35.7	4.7	1.13	26.0	84	6.6
Stoneville BXN 47	1002	38.2	4.9	1.11	28.3	84	6.4
Paymaster PM H1560	1001	37.7	5.0	1.11	27.8	85	7.1
FiberMax FM 819	984	38.7	4.7	1.15	29.6	84	6.4

Table 3. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 521 RR	976	37.2	4.9	1.05	25.5	83	7.4
Tamcot Sphinx	974	35.2	4.9	1.09	28.5	84	6.4
Deltapine DP 436 RR	902	33.7	4.8	1.09	26.2	84	7.2
All-Tex Atlas	877	35.3	4.8	1.09	27.6	84	7.0
TAM 94 L-25	851	35.9	4.6	1.17	29.9	83	5.7
Acala Maxxa	538	39.3	4.0	1.13	33.5	84	6.3
LSD (k=100) ¹	360	1.8	0.5	0.04	2.1	ns	0.6
%CV	12.8	2.4	4.5	1.9	3.9	1.0	4.4
Mean	1068	37.1	4.8	1.11	27.9	84	6.7

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 4. Agronomic performance and fiber quality of cotton cultivars evaluated at Weslaco during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
Sure-Grow SG 105	1231	38.3	5.1	1.09	27.3	84	6.8
Texas 418	1227	38.7	4.6	1.12	28.1	83	6.3
Deltapine NuCotn 33 B	1212	36.1	4.8	1.09	26.8	83	6.7
Sure-Grow SG 747	1149	38.7	5.2	1.09	25.3	85	7.2
Deltapine DP 20 B	1145	38.1	4.6	1.09	26.0	84	6.7
PhytoGen PSC 355	1101	38.6	4.8	1.10	28.0	85	7.5
Sure-Grow SG 821	1078	38.0	5.0	1.09	26.8	84	7.6
Paymaster PM 1218 BR	1066	38.7	5.0	1.07	26.0	84	6.6
FiberMax FM 989	1065	37.0	4.6	1.13	31.7	84	6.0
FiberMax FM 819	1055	39.3	4.7	1.15	30.5	84	6.1
Sure-Grow SG 125	1050	38.0	5.0	1.10	25.9	84	6.9
Sure-Grow SG 501 BR	1044	37.4	5.0	1.06	26.7	84	7.2
Stoneville ST 474	1038	39.4	5.3	1.09	26.3	84	6.4
FiberMax FM 832	1033	37.0	4.5	1.21	32.2	85	5.9
Stoneville BXN 47	1022	39.0	4.9	1.10	28.0	84	6.3
Deltapine DP 50	982	34.1	4.7	1.10	26.1	83	6.7
Tamcot Sphinx	928	35.8	4.9	1.08	28.9	83	6.1
All-Tex Atlas	846	35.5	4.8	1.08	28.2	84	6.8
Acala Maxxa	558	40.0	4.1	1.12	32.9	84	6.2
LSD (k=100) ¹	219	1.1	0.3	0.03	1.7	ns	0.3
%CV	12.2	1.8	3.8	1.8	3.9	0.8	3.1
Mean	1044	37.8	4.8	1.10	28.0	84	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 5. Agronomic performance and fiber quality of cotton cultivars evaluated at Corpus Christi during 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
Deltapine DPLX 00S04	1078	41.6	4.4	1.07	31.7	85	6.4
FiberMax FM 958	1043	43.0	4.8	1.10	29.5	84	5.9
MSU 8839-3-10-2	1034	40.3	4.7	1.12	28.7	84	6.6
FiberMax FM 989	1011	41.1	3.9	1.09	34.6	84	6.6
Deltapine DP 491	989	43.8	4.5	1.15	34.0	84	6.3
TAM 96 WD-22	986	41.4	4.4	1.08	27.6	83	6.8
MSU 8806-3-2-35	977	42.2	5.0	1.03	26.9	84	6.2
FiberMax FM 966	973	41.2	4.7	1.08	32.3	84	5.5
Deltapine DPLX 99M03	968	42.5	4.1	1.09	32.1	84	6.6
Novartis NK 2387	952	42.4	4.8	1.03	25.6	82	6.8
Stoneville ST 4691B	944	41.7	4.7	1.09	28.0	84	6.6
Deltapine DeltaPearl	943	43.3	4.6	1.13	30.9	84	6.0
Tamcot Pyramid	937	41.4	4.9	1.01	28.2	82	6.4
Stoneville ST 474	925	42.0	5.1	1.05	26.2	84	6.7
Stoneville ST 4892BR	924	43.2	5.0	1.04	28.7	83	6.6
Deltapine DPLX 99X35	916	44.5	5.2	1.05	27.7	83	6.8
PhytoGen PSC 355	889	41.9	5.2	1.06	28.2	84	7.7
Sure-Grow SG 521R	887	40.3	4.8	1.02	26.6	84	7.0
Tamcot Sphinx	886	40.2	5.1	1.06	29.5	84	6.5
FiberMax FM 819	850	43.3	4.9	1.09	30.0	84	6.3
Garst AP 6101	834	38.2	4.4	1.08	32.0	83	6.8
Deltapine DP 448 B	833	39.4	4.7	1.06	27.1	84	6.8
MSU 8806-3-2-21	830	40.1	4.8	1.08	27.4	85	7.1
Deltapine DP 436 RR	818	38.3	4.9	1.08	27.7	85	7.7
Stoneville ST 4793R	800	42.9	5.0	1.03	27.6	84	6.6
Paymaster PM 2200RR	792	38.3	4.6	1.04	27.7	83	6.3
Stoneville Sure-Grow 747	788	40.9	5.0	1.08	25.8	85	7.4
FiberMax FM 832	786	40.5	4.4	1.16	33.1	84	6.3
Stoneville BXN 47	784	42.4	4.9	1.08	27.9	84	6.3
MSU 8806-3-2-19	774	39.9	5.0	1.05	28.6	84	6.6
Stoneville BXN 49B	771	40.4	4.4	1.05	28.5	83	6.2
Texas 418	769	41.2	4.5	1.08	29.6	83	6.2
Deltapine DP 20 B	760	41.5	4.6	1.05	27.0	85	7.5
Paymaster PM 2266 RR	755	39.0	4.9	1.00	27.4	82	6.9
Paymaster PM H1560	743	42.0	4.9	1.02	27.8	83	6.8
Paymaster PM 2344 BR	729	38.0	4.7	1.03	29.1	84	6.6
Sure-Grow SG 105	723	41.7	5.1	1.06	27.3	85	7.0
Deltapine DP 422 B/RR	712	38.7	4.7	1.04	26.4	84	7.1
All-Tex Atlas	698	37.9	5.0	1.05	29.8	83	6.7
Sure-Grow SG 125	695	40.4	4.7	1.09	27.8	84	7.2

Table 5. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 501 BR	693	37.7	4.9	1.02	28.0	84	7.1
Deltapine DP 565	679	42.0	5.2	1.07	28.5	84	6.6
Garst AP 9257	676	39.2	4.5	1.04	29.0	84	6.8
TAM 96 WD-81	665	39.6	4.4	1.06	28.3	82	6.3
Garst AP 7126	663	41.4	4.6	1.10	28.8	83	6.2
Paymaster PM 1199 RR	657	42.5	5.5	1.02	26.6	83	6.6
Deltapine DP 451 B/RR	656	37.4	4.8	1.07	26.9	84	6.5
Acala Maxxa	644	40.2	4.3	1.05	33.3	82	6.3
Deltapine DP 50	640	37.1	4.8	1.05	27.5	84	6.9
Stoneville BXN 16	640	41.3	4.8	1.02	27.4	83	5.7
Garst 4600RR	621	40.8	5.0	0.98	26.3	81	6.8
Stoneville ST 3539BR	595	40.1	5.0	0.97	27.7	82	6.6
LSD (k=100) ¹	218	2.4	0.6	0.04	2.6	1.8	0.5
%CV	14.1	2.8	5.3	2.1	4.6	0.9	3.7
Mean	816	40.7	4.7	1.06	28.6	84	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 6. Agronomic performance and fiber quality of cotton cultivars evaluated at Corpus Christi during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
PhytoGen PSC 355	1101	41.1	4.8	1.06	27.4	83	7.4
FiberMax FM 966	1087	40.0	4.2	1.11	30.8	84	5.2
FiberMax FM 958	1021	42.1	4.5	1.10	27.7	84	5.4
FiberMax FM 832	991	40.1	4.1	1.15	30.6	84	5.7
Deltapine DeltaPearl	971	42.4	4.4	1.12	28.9	83	5.6
Stoneville ST 474	958	41.5	4.8	1.04	25.5	84	6.5
FiberMax FM 989	945	39.8	3.9	1.08	31.0	83	5.9
Tamcot Pyramid	942	39.6	4.6	1.02	26.8	83	5.9
Sure-Grow SG 747	933	41.2	4.9	1.08	25.7	84	7.3
Tamcot Sphinx	908	38.4	4.7	1.07	27.6	84	6.0
Stoneville ST 4691B	899	40.7	4.2	1.07	26.7	83	6.2
FiberMax FM 819	889	42.6	4.5	1.11	30.0	83	5.6
Deltapine DP 436 RR	885	36.7	4.7	1.07	26.5	85	7.1
Paymaster H1560	875	40.9	4.6	1.06	27.5	83	6.8
Texas 418	873	40.4	4.1	1.09	27.2	83	5.8
Sure-Grow SG 125	868	40.1	4.6	1.07	26.3	84	6.8
Garst AP 6101	819	38.8	4.4	1.08	29.0	83	5.9
Stoneville BXN 47	818	41.4	4.7	1.07	26.7	84	5.9
Deltapine DP 20 B	815	40.6	4.5	1.05	25.9	84	6.9
Sure-Grow SG 501 BR	810	37.7	4.7	1.02	27.2	84	6.8
Deltapine DP 50	791	36.9	4.7	1.07	26.4	84	6.9
Garst AP 7126	776	42.1	4.6	1.10	27.6	83	6.0
All-Tex Atlas	775	37.5	4.8	1.06	29.1	83	6.6
Garst 4600 RR	769	39.4	4.8	1.00	25.8	82	6.6
Sure-Grow SG 105	757	40.0	4.8	1.07	27.5	85	6.7
Deltapine DP 451 B/RR	747	36.8	4.7	1.09	26.1	84	6.0
Garst AP 9257	721	40.9	4.4	1.04	27.6	84	6.1
Acala Maxxa	678	40.3	4.0	1.06	31.8	82	5.9
Stoneville BXN 16	636	40.2	4.3	1.02	26.5	83	6.0
LSD (k=100) ¹	257	2.4	0.5	0.04	2.6	ns	0.8
%CV	11.9	2.8	4.5	1.8	4.4	0.9	5.9
Mean	864	40.0	4.5	1.07	27.7	83	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 7. Agronomic performance and fiber quality of cotton cultivars evaluated at Corpus Christi during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	1202	40.8	4.8	1.07	26.8	84	7.4
FiberMax FM 832	1132	39.4	4.1	1.17	30.9	83	5.9
Sure-Grow SG 747	1098	40.8	4.9	1.08	25.2	84	7.3
FiberMax FM 989	1086	39.4	4.2	1.10	30.1	83	5.8
FiberMax FM 819	1058	42.1	4.5	1.12	29.9	83	5.7
Texas 418	1035	40.3	4.3	1.08	26.2	83	6.0
Stoneville ST 474	1030	40.9	4.7	1.05	25.5	83	6.4
Sure-Grow SG 125	980	39.7	4.7	1.08	25.6	84	6.9
Deltapine DP 20 B	962	40.2	4.4	1.06	25.7	84	7.0
Tamcot Sphinx	950	38.0	4.8	1.06	27.4	84	6.1
Stoneville BXN 47	939	40.8	4.7	1.07	26.4	83	6.2
Sure-Grow SG 501 BR	917	37.6	5.0	1.02	25.6	83	6.6
Garst AP 6101	906	38.2	4.4	1.09	28.5	83	6.3
Deltapine DP 50	885	36.2	4.6	1.07	26.0	83	7.0
Sure-Grow SG 105	871	39.8	4.9	1.08	26.9	85	6.6
All-Tex Atlas	863	37.2	4.8	1.05	27.8	83	6.7
Stoneville BXN 16	790	39.8	4.4	1.03	26.5	83	6.0
Acala Maxxa	692	40.2	4.0	1.08	31.7	83	6.1
LSD (k=100) ¹	187	1.1	0.4	0.03	2.2	ns	0.6
%CV	11.2	1.8	5.3	1.7	4.9	1.0	5.8
Mean	967	39.5	4.6	1.08	27.4	83	6.4

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 8. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Sinton) during 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Stoneville ST 4892BR	765	41.7	4.4	1.01	27.8	83	6.0
Paymaster PM 1199 RR	707	42.3	4.8	1.05	27.4	84	6.2
Deltapine DP 436 RR	700	38.4	4.4	1.07	28.8	84	6.9
Deltapine DP 565	695	41.6	4.6	1.08	29.7	84	6.1
Deltapine NuCotn 33B	673	39.7	4.3	1.04	29.9	82	6.3
Deltapine DP 20 B	640	41.2	4.1	1.06	29.3	83	6.9
Stoneville ST 4691B	639	42.8	4.1	1.01	26.6	82	5.7
Sure-Grow SG 821	637	39.9	4.5	1.06	28.8	84	7.0
Sure-Grow SG 521R	631	40.1	4.1	1.02	28.2	84	6.7
MSU 8806-3-2-19	630	38.6	4.5	1.03	29.2	84	6.5
Stoneville BXN 49B	622	40.5	3.9	1.03	27.5	84	5.7
Deltapine DP 451 B/RR	618	39.4	4.4	1.07	27.6	83	6.1
Deltapine DPLX 99M03	617	41.3	3.7	1.02	32.0	82	6.1
FiberMax FM 819	616	41.7	4.0	1.07	31.9	83	6.0
AFD 2050	614	39.9	4.1	1.05	31.2	83	6.5
MSU 8806-3-2-35	611	40.8	4.3	1.03	27.2	82	5.9
PhytoGen PSC 355	610	40.3	4.4	1.03	30.0	84	7.1
Garst 4600RR	604	40.4	4.2	0.99	27.5	82	6.1
Sure-Grow SG 105	600	40.0	4.3	1.04	28.2	83	6.3
Novartis NK 2387	594	41.5	3.9	0.98	27.1	80	5.7
TAM 96 WD-22	590	40.2	3.9	1.05	30.8	82	6.5
Deltapine DPLX 99X35	588	45.6	4.9	1.00	26.6	83	6.6
Sure-Grow SG 215 BR	583	40.6	4.6	1.00	24.2	83	6.6
Sure-Grow SG 747	582	41.7	4.5	1.03	26.0	84	7.3
Stoneville BXN 16	579	39.7	3.9	0.99	30.5	83	5.5
Deltapine DP 422 B/RR	576	40.2	4.0	1.02	28.5	82	6.9
MSU 8806-3-2-21	574	38.7	4.3	1.00	27.2	83	5.9
Deltapine DP 448 B	570	40.6	4.1	1.05	29.7	83	6.2
Garst AP 7126	569	45.1	5.2	1.06	27.2	83	6.4
Stoneville ST 4793R	568	44.1	4.5	1.02	28.1	84	6.4
Deltapine DP 491	566	41.9	3.9	1.09	32.9	83	5.9
Deltapine DeltaPearl	561	41.9	4.4	1.06	29.1	82	5.4
Stoneville BXN 47	560	42.8	4.3	1.01	26.7	82	5.8
TAM 96 WD-72	556	37.9	3.9	1.04	30.9	82	6.2
FiberMax FM 989	556	39.3	3.8	1.04	32.6	83	5.6
Garst AP 9257	552	41.8	4.1	1.01	29.7	82	6.3
FiberMax FM 958	552	40.6	4.0	1.07	32.6	83	5.4
Paymaster PM 1218 BR	550	38.5	4.2	0.99	27.6	83	5.9
Paymaster PM 2266 RR	544	36.0	3.8	0.99	32.8	82	6.6
TAM 96 WD-81	540	38.8	4.0	1.04	29.0	82	6.3

Table 8. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length	Str. (in)	UI (g/tex)	Elong- ation (ratio) (%)
Texas 418	540	39.7	4.2	1.01	29.6	82	6.1
FiberMax FM 832	535	41.0	3.8	1.11	35.8	85	6.1
MSU 8839-3-10-2	535	37.9	4.1	1.07	28.0	84	6.1
Paymaster PM 2200RR	524	36.7	3.6	1.02	31.2	82	6.1
Paymaster PM 2344 BR	521	36.0	3.5	1.01	33.3	82	6.4
Garst AP 6101	515	39.9	4.3	1.07	32.4	83	6.3
Sure-Grow SG 501 BR	511	40.1	4.5	1.01	29.1	83	6.8
Stoneville ST 3539BR	483	38.0	4.0	0.95	29.2	82	5.9
TAM 97 WHH-28	464	38.2	4.1	1.03	33.4	83	6.3
FiberMax FM 966	461	40.3	3.9	1.05	32.6	84	5.6
TAM 97 WHH-44	459	37.1	3.8	1.03	31.8	83	6.1
Deltapine DPLX 00S04	454	41.0	3.7	1.03	30.6	83	6.1
Tamcot Pyramid	440	38.3	3.8	0.99	26.5	81	5.7
TAM 96 WD-69s	403	38.4	4.2	1.05	31.6	82	7.0
LSD (k=100) ¹	155	1.9	0.8	0.04	2.8	2.2	0.5
%CV	13.8	2.5	7.6	1.8	4.8	1.0	4.0
Mean	574	40.1	4.1	1.03	29.6	83	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 9. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Sinton) during 2000 and 2001(Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine DP 20B	879	39.2	3.9	1.09	28.4	83	6.8
Stoneville ST 4892 BR	839	39.8	4.0	1.03	27.6	83	6.0
PhytoGen PSC 355	832	39.3	4.4	1.07	29.0	84	7.1
Sure-Grow SG 105	824	38.7	4.2	1.08	28.6	84	6.4
Deltapine DP 436 RR	799	36.6	4.1	1.09	27.6	83	6.8
Deltapine DP 451 BR	794	37.2	4.2	1.10	27.1	83	6.1
Sure-Grow SG 215 BR	783	39.0	4.2	1.03	25.5	83	6.8
Stoneville ST 4691B	774	40.5	3.8	1.04	27.0	83	6.0
Paymaster PM 1218 BR	774	38.3	4.1	1.04	26.9	84	6.2
FiberMax FM 819	773	41.0	3.9	1.12	32.1	84	6.0
Sure-Grow SG 747	758	39.9	4.2	1.07	26.9	84	7.1
Stoneville BXN 47	756	40.3	4.0	1.06	26.5	82	5.8
Garst AP 9257	741	40.1	3.9	1.07	29.2	83	6.0
Sure-Grow SG 501 BR	734	38.7	4.3	1.06	29.5	84	6.7
Texas 418	726	38.2	3.9	1.06	29.6	83	6.3
FiberMax FM 966	703	38.9	3.9	1.09	32.1	84	5.1
FiberMax FM 958	699	39.8	4.1	1.11	31.9	84	5.2
FiberMax FM 989	689	37.8	3.8	1.10	32.5	84	6.0
Garst AP 7126	688	41.5	4.5	1.10	28.6	83	6.4
Garst 4600 RR	679	38.8	4.0	1.01	27.1	83	6.2
Garst AP 6101	672	37.9	4.2	1.11	31.2	83	6.3
Stoneville BXN 16	671	38.3	3.7	1.03	29.3	83	5.5
FiberMax FM 832	647	38.5	3.7	1.15	33.2	85	5.8
Tamcot Pyramid	645	37.9	3.8	1.03	27.5	82	6.1
LSD (k=100) ¹	ns	2.6	ns	0.03	2.7	ns	0.6
%CV	10.0	2.7	5.8	1.5	4.5	0.9	5.0
Mean	745	39.0	4.0	1.07	28.9	83	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 10. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Sinton) during 1999, 2000, and 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	895	39.1	4.7	1.06	27.6	83	7.0
Paymaster PM 1218 BR	835	38.6	4.6	1.04	25.8	84	6.1
Sure-Grow SG 105	821	38.8	4.5	1.08	27.4	84	6.4
Sure-Grow SG 501 BR	787	38.6	4.5	1.05	27.9	84	6.6
Sure-Grow SG 747	780	39.6	4.6	1.08	25.9	84	7.0
Stoneville BXN 47	720	40.0	4.3	1.06	27.2	82	5.8
Garst AP 6101	682	37.9	4.4	1.11	30.1	83	6.4
LSD(k=100) ¹	140	ns	ns	0.02	ns	ns	0.4
%CV	8.8	2.2	3.9	1.2	5.7	0.9	3.2
Mean	789	38.9	4.5	1.07	27.4	83	6.5

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 (Sinton) during 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro-naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elongation (%)
PhytoGen PSC 355	1549	41.1	4.9	1.07	28.3	85	7.3
Deltapine DPLX 99M03	1472	41.7	4.2	1.07	31.2	84	6.7
Deltapine NuCotn 33B	1455	39.8	4.5	1.10	29.9	84	6.6
Deltapine DP 448 B	1450	40.0	4.6	1.11	29.5	84	6.4
TAM 96 WD-81	1438	37.8	4.4	1.11	29.7	83	6.6
FiberMax FM 966	1435	40.6	4.6	1.10	32.6	85	5.6
Texas 418	1434	39.6	4.1	1.09	29.2	82	6.1
Stoneville BXN 47	1431	41.6	4.7	1.12	27.7	86	6.4
Deltapine DPLX 99X35	1427	44.9	4.9	1.06	27.4	83	6.7
Deltapine DP 491	1407	42.6	4.3	1.14	32.8	84	6.2
Deltapine DP 565	1399	41.7	4.6	1.14	30.8	84	6.4
Paymaster PM 1199 RR	1397	41.6	5.0	1.10	28.5	85	6.8
Stoneville ST 4691B	1392	41.5	4.5	1.10	28.0	84	6.3
Deltapine DeltaPearl	1390	41.5	4.6	1.13	30.2	83	5.8
Stoneville BXN 16	1383	40.0	4.5	1.05	27.5	84	6.4
Sure-Grow SG 747	1376	42.1	4.9	1.09	26.0	85	7.2
Garst AP 7126	1374	42.7	4.7	1.12	28.3	84	6.8
TAM 94 J-3	1365	36.2	3.9	1.21	32.7	86	7.0
TAM 96 WD-72	1365	38.2	4.2	1.08	29.4	83	6.4
Deltapine DP 422 B/RR	1359	41.6	4.2	1.08	28.3	84	6.9
TAM 96 WD-22	1347	41.8	4.1	1.11	27.9	83	6.6
Deltapine DP 20 B	1335	41.7	4.9	1.08	27.7	84	6.8
TAM 96 WD-69s	1334	37.3	4.1	1.07	29.7	83	6.9
Stoneville ST 4892BR	1331	42.8	4.9	1.08	27.2	83	6.6
MSU 8806-3-2-19	1329	39.6	4.8	1.08	28.4	84	6.6
FiberMax FM 958	1318	41.2	4.8	1.12	30.9	83	5.7
Stoneville BXN 49B	1314	40.0	4.2	1.12	28.9	84	6.5
MSU 8806-3-2-35	1311	42.5	5.0	1.05	26.8	84	6.5
Deltapine DPLX 00S04	1309	41.8	4.5	1.09	28.8	84	6.4
Sure-Grow SG 501 BR	1307	40.5	4.9	1.05	27.6	85	7.0
Sure-Grow SG 521R	1307	42.2	4.6	1.06	26.7	84	7.1
FiberMax FM 832	1295	39.3	4.4	1.18	33.2	85	6.1
Stoneville ST 4793R	1294	42.3	4.9	1.06	27.4	84	6.6
Stoneville ST 3539BR	1262	39.6	5.0	0.98	27.7	83	6.1
Garst AP 6101	1260	39.7	4.7	1.10	31.1	83	6.2
Tamcot Sphinx	1256	37.9	5.2	1.08	29.1	84	6.1
Paymaster PM 1218 BR	1253	40.9	5.1	1.05	25.2	83	6.8
Novartis NK 2387	1252	40.9	3.8	1.07	30.0	82	6.2
AFD 2050	1246	39.4	3.9	1.07	31.1	83	6.8
TAM 94 L-25	1245	37.8	4.3	1.19	34.4	84	5.7

Table 11. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 215 BR	1239	40.9	5.1	1.05	24.8	84	7.0
Paymaster PM 2200RR	1220	38.2	4.6	1.06	29.8	84	6.4
Garst 4600RR	1205	41.2	4.8	1.02	26.9	83	6.4
MSU 8839-3-10-2	1193	38.2	4.5	1.14	27.7	85	6.7
Paymaster PM 2266 RR	1178	36.8	4.3	1.06	29.6	83	6.8
Sure-Grow SG 821	1172	40.4	4.7	1.10	29.9	84	7.3
TAM 97 WHH-28	1168	38.6	4.6	1.11	31.5	85	6.2
FiberMax FM 819	1153	42.7	4.6	1.13	32.2	84	5.8
Paymaster PM 2344 BR	1151	36.9	4.6	1.06	31.0	84	7.0
TAM 97 WHH-44	1142	40.2	4.6	1.09	30.9	84	6.6
Sure-Grow SG 105	1118	40.6	4.7	1.10	29.3	84	6.7
FiberMax FM 989	1108	40.5	4.2	1.10	33.6	83	6.0
Deltapine DP 436 RR	1095	37.4	4.9	1.10	26.7	83	7.1
Tamcot Pyramid	1093	40.7	5.0	1.03	26.9	84	6.3
MSU 8806-3-2-21	1082	39.7	5.0	1.05	28.3	84	7.0
Deltapine DP 451 B/RR	1045	37.7	4.8	1.11	28.2	83	6.7
LSD (k=100) ¹	357	1.3	0.4	0.03	2.3	1.8	0.5
%CV	11.6	1.8	4.6	1.6	4.0	0.9	3.6
Mean	1296	40.3	4.6	1.09	29.2	84	6.5

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 12. Agronomic performance and fiber quality of cotton cultivars evaluated in San Patricio County (Sinton) during 2000 and 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Texas 418	1368	40.2	4.0	1.10	28.5	83	6.2
Garst AP 7126	1309	41.2	4.3	1.13	28.1	84	6.2
Deltapine DeltaPearl	1300	41.1	4.7	1.15	29.2	83	5.3
PhytoGen PSC 355	1294	39.3	4.7	1.09	28.3	84	7.0
FiberMax FM 958	1288	40.9	4.7	1.15	30.6	84	5.3
Stoneville ST 4691B	1266	40.3	4.4	1.09	26.9	83	5.8
Sure-Grow SG 747	1237	40.8	4.7	1.10	25.7	84	6.9
Deltapine DP 20B	1226	40.3	4.5	1.09	26.0	83	6.4
Deltapine NuCotn 33 B	1205	38.0	4.4	1.11	28.9	83	6.2
Sure-Grow SG 215 BR	1168	39.7	4.8	1.06	24.7	84	6.7
Stoneville BXN 47	1165	39.7	4.4	1.11	27.4	84	5.8
Stoneville ST 4892 BR	1165	40.5	4.4	1.07	26.3	83	6.0
MSU 8806-3-2-19	1165	38.8	4.6	1.10	29.9	85	6.4
Deltapine DP 565	1152	38.5	4.4	1.13	30.0	84	6.4
TAM 94 J-3	1149	36.3	4.0	1.21	31.9	86	6.7
Garst AP 6101	1132	38.3	4.5	1.10	29.6	83	5.5
Sure-Grow SG 501 BR	1123	39.4	4.9	1.05	27.6	84	6.6
Stoneville BXN 16	1114	37.4	4.0	1.08	28.4	83	6.2
Garst 4600 RR	1103	39.8	4.7	1.03	25.6	83	5.9
Tamcot Sphinx	1102	37.8	4.9	1.11	29.1	84	5.8
Sure-Grow SG 521 RR	1099	40.1	4.4	1.07	26.3	83	6.5
Sure-Grow SG 105	1097	39.2	4.7	1.09	28.9	84	6.4
FiberMax FM 989	1095	39.2	4.2	1.12	32.1	84	5.5
Deltapine DP 422 BR	1094	39.2	4.2	1.10	27.4	83	6.6
TAM 94 L-25	1062	38.3	4.5	1.21	32.1	84	5.3
MSU 8839-3-10-2	1060	37.7	4.4	1.15	27.8	85	6.4
Sure-Grow SG 821	1054	39.4	4.6	1.11	29.0	84	6.9
Deltapine DP 436 RR	980	36.4	4.6	1.11	26.7	83	6.6
Paymaster PM 1218 BR	965	40.5	5.0	1.06	25.3	84	6.0
Deltapine DP 451 BR	921	36.6	4.7	1.11	26.9	83	5.8
Tamcot Pyramid	902	39.5	5.0	1.05	26.9	83	5.8
LSD (k=100) ¹	295	3.0	0.5	0.03	2.2	ns	0.6
%CV	9.7	3.1	5.0	1.5	3.8	1.1	4.7
Mean	1140	39.1	4.5	1.10	28.1	83	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 13. Agronomic performance and fiber quality of cotton cultivars evaluated in the Texas Upper Coast Area (Wharton County) during 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine DP 491	1483	42.0	4.4	1.22	32.1	85	5.8
FiberMax FM 958	1480	40.2	4.3	1.19	33.9	84	5.4
Sure-Grow SG 747	1448	46.7	4.4	1.10	27.6	84	6.3
MSU 8806-3-2-35	1429	40.4	4.4	1.08	28.7	84	6.5
Deltapine DPLX 99M03	1420	41.6	4.0	1.12	30.3	84	6.2
Deltapine DPLX 00S04	1375	40.6	4.4	1.15	32.0	85	6.1
MSU 8806-3-2-21	1371	39.2	4.6	1.12	29.8	85	6.8
PhytoGen PSC 355	1362	38.5	4.7	1.12	28.3	84	7.2
Stoneville ST 4892BR	1358	38.2	4.2	1.07	28.8	83	6.2
TAM 97 WHH-37	1358	37.3	3.9	1.17	30.9	84	6.1
TAM 96 WD-22	1343	40.5	4.0	1.16	27.4	84	6.3
Stoneville ST 5599BR	1338	40.7	4.3	1.11	31.7	82	5.9
FiberMax FM 966	1328	40.3	4.2	1.17	35.6	85	5.5
MSU 8839-3-10-2	1325	35.8	4.2	1.15	29.7	85	6.3
TAM 97 WLL-18	1294	34.7	3.6	1.21	34.1	84	6.1
FiberMax FM 819	1278	40.4	4.3	1.20	33.1	85	5.7
FiberMax FM 832	1259	39.3	4.0	1.21	35.3	85	5.7
Texas 418	1258	38.7	4.2	1.16	29.2	83	5.8
Stoneville BXN 49B	1247	36.6	4.0	1.09	30.2	83	6.2
Deltapine NuCotn 33B	1243	35.4	4.2	1.09	29.3	83	6.4
Deltapine DP 20 B	1243	38.2	4.1	1.12	27.8	83	6.9
TAM 97 WHH-28	1241	36.9	4.3	1.14	32.4	84	6.4
Deltapine DPLX 99X35	1229	39.0	4.6	1.10	28.9	84	6.6
TAM 96 WD-69s	1225	36.7	4.0	1.12	31.8	83	6.6
FiberMax FM 989	1224	39.3	3.7	1.13	35.9	83	6.0
Deltapine DeltaPearl	1222	40.6	4.6	1.15	30.8	84	5.7
Novartis NK 2387	1215	40.0	3.4	1.10	31.1	83	6.0
TAM 96 WD-72	1209	37.6	4.2	1.13	29.8	83	6.2
Stoneville ST 4691B	1182	37.0	4.5	1.06	28.2	82	6.1
Sure-Grow SG 215 BR	1167	37.3	4.4	1.06	26.5	84	6.4
Deltapine DP 451 B/RR	1164	34.9	4.5	1.08	26.6	83	6.2
Sure-Grow SG 821	1162	38.1	4.7	1.08	27.7	83	6.9
TAM 98 B-73	1157	36.3	3.9	1.17	29.2	84	6.5
Sure-Grow SG 521R	1148	37.4	4.2	1.06	27.9	83	6.2
Sure-Grow SG 105	1145	37.5	4.6	1.11	30.2	84	6.2
Deltapine DP 422 B/RR	1137	36.1	4.0	1.06	27.5	83	6.7
Garst AP 9257	1129	39.0	4.3	1.07	30.1	84	6.2
Sure-Grow SG 501 BR	1116	37.5	4.2	1.09	31.4	84	6.6
TAM 97 WHH-44	1112	36.8	4.1	1.14	31.9	84	6.6
Paymaster PM 1199 RR	1110	38.2	4.6	1.09	29.3	84	6.3

Table 13. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Stoneville ST 4793R	1107	39.3	4.7	1.07	27.9	84	6.2
Garst AP 7126	1071	39.4	4.5	1.13	29.7	83	5.9
Tamcot Pyramid	1066	39.1	4.0	1.07	28.7	84	6.3
Deltapine DP 565	1065	37.9	4.4	1.09	30.2	82	6.2
Tamcot Sphinx	1065	36.1	4.3	1.12	31.6	84	6.5
Deltapine DP 436 RR	1061	33.7	4.4	1.10	26.1	83	6.9
TAM 96 WD-81	1057	37.2	4.0	1.12	29.5	83	6.1
Deltapine DP 448 B	1049	36.8	4.2	1.08	29.1	83	6.3
Paymaster PM 1218 BR	1048	39.9	4.8	1.08	27.2	84	6.3
TAM 94 L-25	1032	36.8	4.0	1.23	34.7	84	5.4
MSU 8806-3-2-19	1024	38.2	4.5	1.14	31.7	84	6.5
Stoneville BXN 47	1020	38.4	4.4	1.09	29.9	84	6.3
Garst 1500RR	1016	36.2	3.9	1.10	32.0	82	6.4
Garst 4600RR	1008	37.8	4.6	1.06	26.6	83	6.6
Stoneville ST 3539BR	1006	37.9	4.4	1.02	29.5	82	6.2
TAM 98 A-8	955	35.8	3.9	1.12	31.0	84	6.5
LSD (k=100) ¹	221	5.6	0.4	0.03	2.6	2.1	0.4
%CV	10.5	5.6	4.3	1.6	4.5	1.0	3.4
Mean	1198	38.3	4.2	1.11	30.1	84	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 14. Agronomic performance and fiber quality of cotton cultivars evaluated in the Texas Upper Coast Area during 2000 and 2001(Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
FiberMax FM 958	1210	38.7	4.0	1.19	31.5	84	5.3
PhytoGen PSC 355	1187	37.8	4.5	1.12	29.4	84	7.1
Sure-Grow SG 747	1153	41.4	4.4	1.10	27.2	84	6.4
Stoneville ST 4892BR	1116	37.6	4.1	1.08	28.4	84	6.1
FiberMax FM 819	1076	39.9	4.1	1.19	32.1	85	5.6
FiberMax FM 966	1067	38.9	3.8	1.16	33.9	85	5.2
Deltapine DeltaPearl	1038	40.1	4.5	1.15	30.0	84	5.3
Stoneville ST 4691B	1038	37.0	4.3	1.07	27.1	83	5.7
Deltapine DP 20B	1028	36.8	4.1	1.12	28.3	84	6.8
Texas 418	1021	37.5	3.9	1.14	28.8	83	5.7
Deltapine DP 451 B/RR	1017	34.6	4.3	1.09	27.1	84	6.3
Sure-Grow SG 105	1012	37.1	4.5	1.11	29.9	85	6.2
Sure-Grow SG 215 BR	1008	37.2	4.5	1.06	26.6	84	6.6
Sure-Grow SG 521R	1005	36.4	4.1	1.05	27.3	83	6.4
FiberMax FM 832	1000	37.6	3.7	1.21	33.3	85	5.9
FiberMax FM 989	988	37.1	3.6	1.12	33.9	83	5.9
Garst AP 9257	985	37.6	4.2	1.08	29.2	84	6.1
Tamcot Pyramid	933	37.3	3.8	1.08	28.7	84	6.2
Deltapine DP 436 RR	922	33.4	4.3	1.11	26.8	83	6.7
Sure-Grow SG 501 BR	922	36.0	4.2	1.08	30.0	85	6.7
Paymaster PM 1218 BR	922	38.0	4.4	1.10	27.0	84	6.3
Stoneville BXN 47	916	38.3	4.4	1.09	28.5	84	6.0
Garst 4600RR	902	36.3	4.2	1.06	27.1	83	6.3
Garst AP 7126	891	38.1	4.3	1.13	28.9	83	6.0
Tamcot Sphinx	889	34.1	3.9	1.11	29.6	84	6.1
Deltapine DP 422 B/RR	879	34.6	4.0	1.06	27.0	84	6.7
Garst 1500RR	845	36.0	3.8	1.09	31.2	83	6.0
TAM 94 L-25	837	35.5	3.7	1.23	32.4	84	5.3
LSD (k=100) ¹	172	3.4	0.4	0.02	2.7	ns	0.5
%CV	7.6	4.0	4.8	1.2	4.6	1.0	4.4
Mean	993	37.2	4.1	1.11	29.3	84	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 15. Agronomic performance and fiber quality of cotton cultivars evaluated in the Texas Upper Coast Area during 1999, 2000, and 2001(Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 747	1127	39.5	4.4	1.09	26.2	84	6.4
PhytoGen PSC 355	1090	37.7	4.4	1.11	28.2	83	6.9
FiberMax FM 819	1044	39.9	4.1	1.17	30.7	84	5.6
Sure-Grow SG 105	1032	37.0	4.4	1.10	29.2	84	6.2
FiberMax FM 832	1012	37.0	3.8	1.20	32.7	84	5.9
Paymaster PM 1218 BR	974	37.8	4.3	1.08	26.3	83	6.3
Texas 418	927	37.2	3.9	1.13	28.0	82	5.8
Sure-Grow SG 501 BR	922	35.4	4.2	1.07	28.9	84	6.6
Tamcot Sphinx	895	34.0	4.0	1.10	28.9	83	5.9
FiberMax FM 989	890	36.9	3.8	1.11	32.0	83	5.9
Stoneville BXN 47	863	37.6	4.4	1.09	27.4	84	5.9
LSD (k=100) ¹	ns	3.4	0.4	0.02	1.9	1.4	0.4
%CV	11.0	4.5	5.1	1.0	4.1	0.8	3.7
Mean	980	37.2	4.2	1.11	29.0	84	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 16. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station during 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine DPLX 99X35	1364	45.6	4.9	1.10	26.0	82	6.5
Deltapine DP 555 BR	1264	45.4	5.0	1.10	27.4	80	5.1
PhytoGen PSC 355	1184	42.8	4.9	1.12	27.6	82	7.1
MSU 8806-3-2-19	1153	41.7	4.9	1.10	27.2	83	6.0
Stoneville ST 4691B	1137	42.4	4.9	1.11	27.0	81	5.8
Stoneville ST 474	1136	42.4	5.1	1.10	28.2	83	6.3
Deltapine DPLX 99M03	1129	42.0	4.5	1.16	30.6	82	5.9
MSU 8806-3-2-35	1122	42.2	4.9	1.07	25.1	82	6.7
Paymaster PM 1199 RR	1114	41.7	5.3	1.10	27.8	83	5.9
Stoneville BXN 49B	1098	42.3	4.7	1.12	27.8	82	5.6
Stoneville ST 5599BR	1084	40.7	4.8	1.14	28.1	81	5.3
Paymaster PM 1218 BR	1064	41.9	4.9	1.09	26.2	83	6.2
Sure-Grow SG 105	1055	41.4	4.8	1.11	27.4	83	6.2
TAM 96 WD-22	1055	41.7	4.2	1.13	25.7	81	6.4
Sure-Grow SG 215 BR	1046	40.4	4.9	1.07	24.9	82	7.4
Paymaster PM H1560	1026	39.9	5.1	1.10	27.9	84	6.4
FiberMax FM 819	1024	41.3	4.6	1.17	31.3	83	4.5
Deltapine DeltaPearl	1011	42.8	5.0	1.15	27.0	81	5.1
Deltapine DPLX 00S04	1009	41.1	4.4	1.12	28.2	82	5.7
Sure-Grow SG 521R	1006	39.7	4.9	1.08	26.0	84	7.0
FiberMax FM 832	1000	39.2	4.4	1.18	29.2	82	4.7
Stoneville ST 4892BR	997	39.8	5.1	1.12	28.6	84	6.0
FiberMax FM 966	971	35.9	4.6	1.15	31.2	83	3.8
Deltapine DP 458 B/RR	971	40.1	4.9	1.09	26.4	81	6.0
TAM 96 WD-81	959	39.1	4.5	1.07	26.4	81	6.7
Sure-Grow SG 747	957	42.0	5.0	1.10	25.1	83	7.3
Deltapine DP 565	952	40.8	4.9	1.12	28.4	82	5.7
Deltapine NuCotn 33B	943	39.4	4.7	1.08	27.2	81	6.3
Deltapine DP 20 B	940	41.4	4.6	1.08	25.2	81	7.2
TAM 97 WHH-28	937	33.8	4.7	1.14	29.7	83	5.8
MSU MSU 8839-3-10-2	928	37.9	4.7	1.15	27.9	82	5.7
Sure-Grow SG 821	914	39.1	5.2	1.09	27.8	83	7.7
Garst AP 7126	901	42.1	4.7	1.14	28.1	83	5.5
TAM 96 WD-72	897	40.4	4.3	1.09	25.2	81	6.0
FiberMax FM 958	895	41.7	5.0	1.16	30.6	82	4.2
Deltapine DP 491	893	44.6	4.6	1.14	29.8	80	4.7
Garst AP 9257	884	42.4	4.7	1.09	26.6	83	5.6
Stoneville BXN 47	874	37.9	4.8	1.08	26.3	82	6.1
Sure-Grow SG 125	871	41.3	5.1	1.10	25.7	83	7.0
Stoneville ST 4793R	870	41.8	5.2	1.08	26.8	84	6.3

Table 16. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
TAM 96 WD-69s	868	38.4	4.5	1.11	27.3	81	6.8
Garst 4600RR	865	39.6	5.0	1.06	26.4	82	7.0
Garst AP 6101	864	39.6	5.0	1.10	28.2	82	5.5
MSU 8806-3-2-21	859	36.7	4.9	1.08	25.1	82	6.9
Deltapine DP 448 B	850	39.1	4.7	1.09	26.5	81	5.9
TAM 94 L-25	836	38.3	4.6	1.20	28.2	79	4.4
Tamcot Sphinx	830	39.0	4.7	1.10	26.7	82	5.5
Deltapine DP 451 B/RR	812	33.3	5.1	1.11	26.1	82	6.3
Deltapine DP 50	810	35.8	4.9	1.13	26.3	82	6.3
Sure-Grow SG 501 BR	804	35.9	4.8	1.07	26.3	82	7.4
FiberMax FM 989	800	41.4	4.6	1.13	29.6	82	4.7
Deltapine DP 436 RR	800	36.1	5.0	1.13	25.5	83	6.5
Tamcot Pyramid	789	37.7	4.9	1.08	25.9	82	6.1
All-Tex Atlas	665	33.0	4.8	1.08	29.0	83	6.2
Stoneville ST 3539BR	620	41.2	4.7	1.04	27.7	82	6.4
Acala Maxxa	492	42.1	4.2	1.12	32.2	82	5.0
LSD (k=100) ¹	154	1.5	0.3	0.04	2.0	2.8	0.6
%CV	10.3	2.1	2.8	1.9	3.7	1.3	5.3
Mean	948	40.1	4.8	1.11	27.4	82	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 17. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	1432	41.2	4.8	1.13	28.3	84	7.3
Stoneville ST 474	1413	41.8	5.0	1.12	28.3	84	6.5
Stoneville ST 4691 B	1393	41.8	4.9	1.12	27.0	83	6.1
FiberMax FM 819	1384	41.2	4.5	1.18	32.9	85	5.3
MSU 8806-3-2-19	1373	39.8	4.7	1.12	28.7	84	6.4
Stoneville ST 4892 BR	1350	40.6	5.1	1.13	28.4	85	6.3
Sure-Grow SG 747	1324	41.6	5.1	1.10	25.1	84	7.4
Deltapine DeltaPearl	1306	42.1	4.9	1.16	28.5	82	5.5
FiberMax FM 832	1284	38.6	4.3	1.20	33.0	84	5.4
MSU 8839-3-10-2	1279	37.3	4.6	1.17	28.3	84	6.2
Sure-Grow SG 105	1275	40.4	4.8	1.13	28.7	84	6.5
Deltapine DP 565	1274	40.2	5.0	1.12	28.5	83	6.2
Deltapine NuCotn 33B	1266	38.4	4.6	1.11	28.1	83	6.6
Garst AP 9257	1256	41.3	4.7	1.10	28.0	84	6.1
Sure-Grow SG 215 BR	1254	39.7	4.9	1.08	25.2	83	7.1
Sure-Grow SG 821	1253	38.8	5.1	1.11	27.8	84	7.8
Stoneville BXN 47	1242	39.6	4.8	1.11	27.8	83	6.3
Paymaster PM H1560	1232	39.7	4.9	1.12	28.8	84	6.8
Deltapine DP 20 B	1229	39.6	4.6	1.10	26.2	83	7.2
Sure-Grow SG 521 RR	1229	39.5	4.8	1.10	26.6	85	7.1
Paymaster PM 1218 BR	1220	40.8	4.7	1.09	27.4	84	6.6
FiberMax FM 966	1210	37.5	4.7	1.14	33.5	84	4.6
Garst AP 7126	1197	41.5	5.0	1.14	27.2	84	5.9
TAM 96 WD-69s	1173	37.7	4.5	1.12	30.1	83	7.3
Tamcot Pyramid	1171	38.6	4.8	1.07	26.9	83	6.3
Garst AP 6101	1162	39.0	5.1	1.12	28.4	83	5.9
Garst 4600 RR	1154	39.4	4.8	1.08	28.1	84	6.9
FiberMax FM 958	1147	40.5	4.9	1.16	31.3	84	4.9
Sure-Grow SG 125	1135	40.1	5.0	1.11	26.0	84	7.1
Tamcot Sphinx	1111	38.0	4.6	1.13	29.4	84	6.1

Table 17. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 501 BR	1107	37.7	4.9	1.09	27.9	84	7.5
Deltapine DP 451 BR	1091	34.8	5.1	1.12	26.5	83	6.3
TAM 94 L-25	1072	37.4	4.6	1.20	30.6	82	5.1
Deltapine DP 50	1049	35.7	5.0	1.13	26.6	84	6.5
Deltapine DP 436 RR	1045	35.9	5.0	1.12	26.4	84	6.8
All-Tex Atlas	1026	34.1	4.5	1.11	30.8	84	6.5
FiberMax FM 989	1008	39.7	4.5	1.15	33.3	84	5.4
Acala Maxxa	747	41.7	4.1	1.15	34.3	85	5.9
LSD (k=100) ¹	160	2.8	0.3	0.03	3.1	ns	0.7
%CV	6.6	3.5	3.4	1.4	5.3	1.0	6.0
Mean	1207	39.3	4.8	1.12	28.6	83	6.3

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 18. Agronomic performance and fiber quality of cotton cultivars evaluated at College Station during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	1561	40.8	4.8	1.13	27.8	84	7.2
FiberMax FM 819	1511	40.6	4.5	1.18	31.5	84	5.4
Stoneville ST 474	1508	40.9	4.9	1.12	27.3	84	6.4
FiberMax FM 832	1430	37.9	4.2	1.21	31.9	84	5.5
Sure-Grow SG 747	1426	40.2	4.9	1.10	24.7	84	7.2
Paymaster PM 1218 BR	1394	39.6	4.7	1.09	26.5	83	6.3
Sure-Grow SG 821	1385	38.3	4.8	1.11	26.9	84	7.5
Sure-Grow SG 105	1382	39.3	4.8	1.12	27.8	84	6.4
Stoneville BXN 47	1380	39.0	4.7	1.11	27.7	83	6.2
Deltapine DP 20 B	1367	38.7	4.5	1.09	25.4	83	7.0
Deltapine NuCotn 33B	1346	37.4	4.5	1.10	27.2	82	6.4
Sure-Grow SG 501 BR	1292	37.3	4.8	1.08	27.3	84	7.2
Sure-Grow SG 125	1249	38.6	4.7	1.11	25.7	84	7.0
Garst AP 6101	1233	38.0	4.9	1.11	27.7	83	6.0
Tamcot Sphinx	1212	37.2	4.5	1.13	29.3	84	6.0
FiberMax FM 989	1180	38.7	4.4	1.14	32.1	83	5.5
Deltapine DP 50	1159	34.9	4.8	1.12	25.6	83	6.5
All-Tex Atlas	1155	33.7	4.4	1.10	29.9	83	6.5
Acala Maxxa	742	40.2	3.9	1.15	33.8	84	5.9
LSD (k=100) ¹	146	1.9	0.3	0.02	2.0	1.5	0.6
%CV	7.2	3.1	3.8	1.4	4.6	0.8	5.6
Mean	1311	38.5	4.6	1.12	28.2	84	6.4

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 during 2001 (Irrigated).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Paymaster PM 1199 RR	1409	42.0	4.5	1.10	27.7	85	6.4
Sure-Grow 501 BR	1271	41.1	4.5	1.07	29.2	84	6.9
Sure-Grow SG 215 BR	1255	40.8	4.5	1.06	25.5	83	6.8
Sure-Grow SG 521R	1216	41.9	4.2	1.09	27.5	84	6.7
Deltapine DP 20 B	1210	41.1	4.1	1.11	27.0	83	6.7
Deltapine DPLX 99X35	1201	42.8	4.2	1.07	26.1	83	6.1
Deltapine DPLX 99M03	1199	44.0	3.6	1.10	31.1	83	6.1
Tamcot Sphinx	1195	39.7	4.2	1.08	28.5	84	6.5
Deltapine DPLX 00S04	1193	41.7	3.9	1.09	30.7	84	6.3
Sure-Grow SG 747	1191	41.5	4.6	1.11	26.2	84	7.0
FiberMax FM 966	1181	40.7	4.1	1.13	34.4	84	5.0
Deltapine DP 491	1175	43.6	3.9	1.14	30.7	83	5.9
Sure-Grow SG 105	1166	40.9	4.4	1.08	29.2	83	6.7
Garst AP 7115	1166	41.3	4.1	1.10	28.8	83	6.2
Sure-Grow SG 821	1165	40.7	4.2	1.11	28.8	84	7.1
FiberMax FM 819	1150	42.1	4.2	1.16	31.7	85	5.8
TAM 97 WHH-28	1147	43.7	4.0	1.06	26.5	81	5.2
TAM 96 WD-72	1139	40.4	4.0	1.08	28.8	81	5.7
Deltapine DP 448 B	1131	39.7	4.0	1.10	28.4	82	5.8
FiberMax FM 989	1122	42.0	3.8	1.12	32.5	83	5.9
PhytoGen PSC 355	1111	41.4	4.3	1.09	28.5	85	6.8
TAM 96 WD-22	1104	41.9	3.6	1.12	28.0	82	6.3
Garst AP 7126	1099	40.8	3.6	1.16	29.6	83	6.1
Stoneville ST 4892BR	1099	42.3	4.5	1.08	26.5	83	6.3
Garst AP 9257	1093	39.9	4.2	1.09	28.2	83	5.9
Deltapine DeltaPearl	1088	40.3	3.7	1.11	29.8	82	5.2
Deltapine DP 436 RR	1087	38.0	4.4	1.14	26.6	84	7.3
Stoneville ST 2454R	1075	39.8	4.0	1.09	29.6	84	6.4
Paymaster PM 1218 BR	1071	39.3	4.3	1.09	28.4	84	6.5
Deltapine NuCotn 33B	1070	38.1	4.0	1.12	28.5	82	6.2
TAM 96 WD-81	1050	38.2	4.1	1.09	28.7	82	6.2
Deltapine DP 458 B/RR	1047	39.5	4.0	1.11	29.4	83	6.3

Table 19. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
TAM 96 WD-69s	1045	38.9	4.1	1.09	29.4	82	6.4
Garst 1500RR	1017	41.8	3.5	1.12	30.9	83	6.4
Stoneville ST 3539BR	1010	39.5	4.6	1.00	26.9	82	6.1
Tamcot Pyramid	1003	40.7	4.3	1.06	26.7	82	6.7
FiberMax FM 832	995	38.4	3.6	1.17	33.8	84	5.5
Deltapine DP 451 B/RR	981	36.8	4.2	1.11	26.6	83	6.2
TAM 94 L-25	955	39.1	3.9	1.23	32.2	83	5.5
FiberMax FM 958	953	41.0	4.2	1.15	30.9	83	5.7
AFD 2050	953	41.6	4.1	1.07	27.6	83	5.8
Deltapine DP 565	947	40.1	4.0	1.13	29.3	83	6.0
LSD (k=100) ¹	ns	1.8	0.6	0.04	3.2	1.6	0.4
%CV	11.8	2.3	6.1	2.0	5.2	0.8	3.6
Mean	1117	40.7	4.1	1.10	28.9	83	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 20. Agronomic performance and fiber quality of cotton cultivars evaluated at Uvalde during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 215 BR	1128	37.9	3.8	1.07	24.1	83	6.9
Paymaster PM 1218 BR	1033	38.7	4.1	1.10	25.8	84	6.5
Sure-Grow SG 501 BR	1018	38.0	4.0	1.05	27.7	83	6.4
Sure-Grow SG 747	999	38.2	3.9	1.10	25.0	83	6.8
Sure-Grow SG 821	988	37.9	3.9	1.11	27.8	84	6.8
FiberMax FM 819	979	40.4	3.8	1.17	29.0	83	5.6
FiberMax FM 966	977	38.1	3.7	1.15	31.7	83	5.2
Deltapine DP 20 B	953	38.5	3.5	1.10	25.0	83	6.6
Tamcot Sphinx	951	37.6	3.9	1.10	26.7	83	6.3
Tamcot Pyramid	933	39.1	3.8	1.07	26.3	83	6.6
Deltapine DP 436 RR	919	35.7	4.0	1.13	25.5	83	7.2
Sure-Grow SG 521 RR	914	38.6	3.8	1.09	26.4	83	6.7
Garst AP 7115	911	38.6	3.5	1.10	27.2	83	6.2
Sure-Grow SG 105	911	38.2	3.9	1.10	26.8	83	6.5
Deltapine NuCotn 33B	896	35.5	3.5	1.11	26.6	82	6.1
Stoneville ST 4892 BR	877	39.0	3.8	1.08	26.2	83	6.1
PhytoGen PSC 355	857	39.1	4.1	1.10	27.9	85	6.8
Deltapine DP 451 BR	852	35.6	3.8	1.12	25.0	83	6.0
Garst AP 9257	844	37.9	3.8	1.09	27.5	83	5.8
FiberMax FM 832	842	37.3	3.5	1.18	31.7	84	5.4
Garst AP 7126	835	38.4	3.5	1.15	28.3	82	6.0
FiberMax FM 958	821	38.7	3.7	1.17	29.2	83	5.5
TAM 94 L-25	788	37.3	3.7	1.25	31.1	83	5.4
FiberMax FM 989	786	38.2	3.3	1.12	29.7	82	5.7
Deltapine DeltaPearl	780	37.6	3.5	1.13	27.8	82	5.1
Garst AP 1500 RR	769	37.7	3.1	1.13	28.2	82	6.1
Deltapine DP 565	766	38.7	3.8	1.13	28.4	83	5.7
LSD (k=100) ¹	298	ns	0.7	0.03	2.1	ns	0.4
%CV	11.2	3.1	6.5	1.5	3.8	1.0	3.1
Mean	901	38.0	3.7	1.12	27.5	83	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 21. Agronomic performance and fiber quality of cotton cultivars evaluated at Uvalde during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Paymaster PM 1218 BR	1049	38.3	4.1	1.09	25.6	83	6.5
Sure-Grow SG 747	1024	37.4	4.1	1.09	24.7	83	6.7
Sure-Grow SG 501 BR	985	36.7	4.1	1.05	27.4	83	6.5
FiberMax FM 819	979	40.2	3.9	1.16	28.6	83	5.6
Sure-Grow SG 105	965	37.7	4.0	1.09	27.1	83	6.4
Sure-Grow SG 821	949	36.9	4.0	1.09	27.1	83	6.9
Tamcot Sphinx	937	36.3	4.0	1.09	27.0	83	6.1
FiberMax FM 832	907	36.8	3.6	1.19	31.6	84	5.6
PhytoGen PSC 355	870	38.5	4.2	1.10	27.2	84	6.8
Garst AP 7115	831	37.2	3.7	1.08	26.5	82	6.1
FiberMax FM 989	755	37.6	3.6	1.11	29.1	82	5.7
LSD (k=100) ¹	ns	2.5	0.4	0.03	1.6	ns	0.4
%CV	11.5	3.2	5.5	1.7	3.5	1.1	3.9
Mean	932	37.6	3.9	1.10	27.5	83	6.3

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 22. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall during 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine DPLX 99X35	509	46.9	5.4	1.04	28.5	83	6.1
TAM 96 WD-22	499	44.4	4.4	1.10	28.1	81	6.2
Sure-Grow SG 105	454	41.9	5.4	1.05	29.7	83	6.5
Sure-Grow SG 521R	429	42.1	5.2	1.04	27.3	84	6.9
Paymaster PM 1199 RR	419	43.6	5.4	1.05	29.5	84	5.7
Deltapine DeltaPearl	408	45.6	5.2	1.07	28.2	81	4.9
Garst AP 9257	405	41.8	5.0	1.07	29.6	83	5.5
Sure-Grow SG 747	401	43.3	5.2	1.06	26.6	83	7.7
Deltapine DP 50	400	38.7	5.1	1.06	28.1	82	6.2
Deltapine DP 20 B	400	42.3	4.9	1.06	27.3	83	7.5
FiberMax FM 958	394	42.2	5.2	1.10	31.9	84	4.1
Deltapine DPLX 00S04	392	44.5	4.9	1.05	30.3	83	5.5
Deltapine DP 491	392	47.5	5.2	1.09	29.9	82	5.0
Garst 4600RR	380	42.2	4.9	1.04	27.9	83	6.2
TAM 96 WD-69s	373	38.9	4.6	1.04	30.2	82	7.4
TAM 96 WD-72	364	41.5	4.7	1.03	28.2	81	6.8
Sure-Grow 501 BR	363	41.3	5.2	1.06	30.6	83	6.4
AFD 2050	358	43.3	4.7	1.04	29.7	81	6.5
Deltapine DP 565	354	42.6	5.4	1.08	30.6	82	5.6
TAM 96 WD-81	336	41.4	4.9	1.04	27.7	81	6.5
Deltapine DP 458 B/RR	335	41.4	5.2	1.08	30.0	83	5.7
PhytoGen PSC 355	333	44.4	5.5	1.05	30.9	84	7.0
AFD 2051	332	41.1	5.0	1.01	28.9	82	6.7
Stoneville ST 4892BR	330	43.2	5.5	1.09	30.7	83	5.6
Deltapine DP 451 B/RR	328	39.0	5.7	1.07	25.8	82	5.8
Tamcot Sphinx	316	41.0	4.8	1.03	29.3	83	5.6
Garst 1500RR	312	39.2	4.7	1.07	29.4	83	6.0
Deltapine DPLX 99M03	307	43.5	4.8	1.05	30.7	82	6.2
Deltapine DP 436 RR	307	38.5	5.3	1.08	27.6	83	6.9
Sure-Grow SG 215 BR	302	42.2	5.5	1.03	26.6	83	7.8
Garst AP 6101	299	40.5	5.4	1.10	30.8	82	5.1
Deltapine NuCotn 33B	291	39.9	5.0	1.08	28.5	82	5.8

Table 22. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
All-Tex Atlas	282	38.8	5.0	1.04	30.4	82	6.0
FiberMax FM 819	277	42.4	5.2	1.12	32.9	84	4.4
Sure-Grow SG 821	271	42.7	5.3	1.07	30.5	83	7.6
Stoneville ST 3539BR	269	41.6	4.9	0.97	29.2	82	6.6
Paymaster PM 1218 BR	265	43.7	5.4	1.04	28.0	83	6.2
Tamcot Pyramid	263	43.0	4.7	1.00	26.0	81	6.7
Deltapine DP 448 B	249	40.8	5.0	1.07	28.0	82	5.5
Stoneville ST 4793R	245	43.1	5.5	1.05	30.2	84	6.1
TAM 94 L-25	219	41.5	4.4	1.12	29.2	82	4.5
Acala Maxxa	145	42.4	4.5	1.15	35.4	85	4.9
LSD (k=100) ¹	131	1.6	0.5	0.03	1.9	1.4	0.6
%CV	20.7	2.0	4.6	1.7	3.4	0.8	5.5
Mean	340	42.1	5.0	1.06	29.2	83	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 23. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 105	485	39.3	4.4	1.05	29.4	84	6.5
PhytoGen PSC 355	443	41.7	4.9	1.05	30.0	84	7.0
Deltapine DP 20 B	441	39.9	4.3	1.05	27.3	83	7.2
Garst AP 9257	428	39.6	4.4	1.05	28.1	83	5.7
Sure-Grow SG 501 BR	426	39.7	4.5	1.04	29.4	83	6.5
Garst 4600 RR	416	39.6	4.3	1.03	27.2	82	6.2
FiberMax FM 958	415	38.5	4.3	1.08	29.4	83	4.8
Sure-Grow SG 215 BR	404	39.7	4.5	1.02	26.0	83	7.1
Sure-Grow SG 521 RR	404	40.2	4.5	1.02	26.3	83	6.7
Tamcot Sphinx	397	38.4	4.1	1.04	29.4	83	5.8
Deltapine DP 565	395	40.7	4.8	1.07	29.1	83	5.9
Deltapine DP 436 RR	394	36.7	4.4	1.06	27.5	83	7.1
Deltapine DP 50	393	36.3	4.3	1.05	26.7	82	6.1
Sure-Grow SG 747	393	40.9	4.6	1.06	26.5	84	7.3
Stoneville ST 4892 BR	385	40.8	4.7	1.07	28.2	83	5.7
Deltapine DP 451 BR	382	37.4	4.7	1.08	28.4	83	5.9
Paymaster PM 1218 BR	381	40.6	4.5	1.04	26.7	83	6.2
Garst 1500 RR	373	37.2	4.0	1.07	29.8	83	6.4
Tamcot Pyramid	354	40.0	4.1	1.01	25.9	82	6.4
FiberMax FM 819	352	40.2	4.3	1.10	32.6	84	5.0
Deltapine NuCotn 33B	346	37.7	4.4	1.07	28.2	82	5.8
Garst AP 6101	336	38.8	4.8	1.07	29.3	83	5.5
All-Tex Atlas	333	37.1	4.4	1.04	30.4	82	6.1
TAM 94 L-25	317	39.5	3.9	1.12	30.2	83	5.0
Acala Maxxa	242	41.4	3.9	1.12	34.8	85	5.7
LSD (k=100) ¹	ns	1.6	0.5	0.03	3.3	ns	1.1
%CV	13.8	2.0	4.8	1.5	5.2	0.8	8.1
Mean	385	39.3	4.4	1.06	28.7	83	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 24. Agronomic performance and fiber quality of cotton cultivars evaluated at Thrall during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 105	598	37.9	4.0	1.07	28.8	83	5.9
Sure-Grow SG 501 BR	545	37.6	4.1	1.06	28.8	83	6.4
Sure-Grow SG 747	533	38.9	4.5	1.05	26.5	83	6.7
PhytoGen PSC 355	531	37.2	4.1	1.09	29.9	83	5.9
Paymaster PM 1218 BR	473	36.6	4.1	1.07	29.1	82	5.7
Deltapine NuCotn 33B	470	37.8	4.2	1.09	32.2	83	6.0
Deltapine DP 50	463	38.4	4.1	1.04	28.0	83	6.6
Tamcot Sphinx	452	38.7	4.4	1.07	29.9	84	6.7
Acala Maxxa	422	39.1	4.4	1.04	27.7	83	6.0
Garst AP 6101	398	37.4	4.0	1.03	27.2	82	6.1
Deltapine DP 20 B	398	39.1	4.5	1.06	27.8	83	7.0
All-Tex Atlas	389	39.0	4.2	1.06	28.1	83	6.4
Deltapine DP 436 RR	360	40.3	4.4	1.04	28.3	82	6.3
Deltapine DP 451 BR	299	40.7	4.5	1.08	30.8	84	5.5
LSD (k=100) ¹	ns	ns	ns	ns	ns	ns	ns
%CV	33.9	9.0	19.6	3.4	10.0	1.2	9.4
Mean	452	38.4	4.2	1.06	28.7	83	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 25. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas during 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	645	34.7	5.7	1.04	30.0	85	6.0
TAM 96 WD-22	608	35.6	4.9	1.08	28.4	82	5.4
Deltapine DP 20 B	560	34.9	5.2	1.10	29.2	84	5.3
Sure-Grow SG 821	559	32.9	5.0	1.08	30.2	83	6.3
Deltapine DP 451 B/RR	554	33.2	5.4	1.08	27.9	83	4.4
Sure-Grow SG 215 BR	553	36.0	5.8	1.02	27.4	84	6.1
Deltapine DPLX 99M03	550	35.5	5.2	1.05	30.7	83	5.2
Sure-Grow SG 521R	543	36.2	5.6	1.04	27.6	84	6.0
Deltapine DP 565	536	34.5	5.4	1.11	31.4	84	4.7
Deltapine DP 491	534	36.2	5.4	1.16	33.1	83	4.0
TAM 96 WD-72	534	34.4	4.6	1.01	27.8	81	5.4
Sure-Grow SG 747	516	34.0	6.1	1.00	27.2	82	6.5
Sure-Grow 501 BR	512	31.4	5.4	1.08	32.3	85	5.7
Deltapine DP 458 B/RR	509	33.1	5.4	1.13	32.8	82	4.6
Sure-Grow SG 105	509	33.1	5.5	1.06	29.5	84	4.9
Paymaster PM 1218 BR	507	34.9	5.5	1.04	29.3	83	4.8
Novartis NK 2387	506	30.9	4.8	1.00	28.1	81	5.5
Deltapine DPLX 99X35	493	36.1	5.7	1.04	29.4	82	5.4
Stoneville ST 4892BR	490	36.2	6.0	1.09	30.1	84	5.2
AFD 2050	490	35.9	5.1	1.06	30.5	83	5.3
Stoneville ST 4793R	486	36.1	6.1	1.07	29.0	83	5.3
Paymaster PM 1199 RR	473	34.1	5.6	1.03	29.1	83	4.6
Garst AP 7126	468	33.2	5.3	1.16	32.1	84	4.7
Deltapine NuCotn 33B	467	32.3	5.5	1.13	31.9	83	4.7
Deltapine DP 436 RR	461	33.2	5.4	1.08	29.1	83	5.2
Stoneville ST 3539BR	455	33.5	5.4	0.98	28.8	83	5.2
Deltapine DP 50	454	31.3	5.3	1.06	26.9	83	5.2
Deltapine DP 448 B	450	31.4	5.0	1.15	31.3	84	4.3
AFD 2051	447	33.0	5.5	1.02	29.7	83	5.6
Garst 4600RR	443	35.6	5.4	1.01	27.4	82	5.5
Deltapine DPLX 00S04	438	34.3	5.5	1.01	29.9	82	4.9
TAM 96 WD-69s	436	31.7	4.8	1.03	30.0	81	5.8

Table 25. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
TAM 96 WD-81	436	32.5	5.1	1.05	29.7	82	5.0
Deltapine DeltaPearl	425	34.7	5.5	1.11	31.6	82	3.9
Garst 1500RR	415	33.4	4.8	1.05	29.9	81	5.2
Tamcot Pyramid	400	32.2	4.7	0.99	26.6	81	5.4
All-Tex Atlas	395	32.1	5.2	1.02	30.2	82	5.0
TAM 94 L-25	392	30.0	4.7	1.13	30.6	82	3.4
Garst AP 9257	372	30.6	5.0	1.08	30.7	83	4.7
Tamcot Sphinx	358	32.8	5.2	0.98	30.2	83	4.5
TAM 97 WHH-28	346	30.4	5.1	1.07	31.6	82	4.5
Acala Maxxa	336	30.6	4.9	1.15	36.3	84	4.1
LSD (k=100) ¹	114	1.6	0.3	0.05	2.0	1.7	0.5
%CV	13.5	2.5	3.1	2.4	3.4	1.0	5.0
Mean	478	33.5	5.3	1.06	29.9	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 26. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	536	33.5	5.1	1.04	27.9	84	6.0
Sure-Grow SG 521 RR	469	33.1	5.2	1.03	26.8	82	6.3
Deltapine DP 50	458	31.7	4.6	1.09	27.4	83	5.4
Sure-Grow SG 747	457	32.3	4.7	1.05	28.5	83	6.5
Deltapine DP 451 BR	456	31.9	4.9	1.09	27.2	83	5.4
Sure-Grow SG 215 BR	452	34.5	5.1	1.02	27.6	83	6.5
Deltapine DP 20 B	448	33.7	4.9	1.08	27.6	83	5.7
Sure-Grow SG 501 BR	440	34.6	4.8	1.05	27.3	83	5.5
Paymaster PM 1218 BR	428	33.4	4.8	1.05	28.1	82	5.2
TAM 94 L-25	415	31.1	4.3	1.08	27.9	82	4.7
Garst AP 9257	407	33.4	4.8	1.10	29.1	83	5.1
Deltapine DP 436 RR	389	31.9	4.6	1.11	28.7	83	5.2
Deltapine NuCotn 33B	372	30.7	4.8	1.11	28.2	83	5.0
Tamcot Pyramid	370	29.8	4.1	1.06	28.8	81	5.1
Garst 4600 RR	354	32.8	4.4	1.02	26.7	81	5.2
Acala Maxxa	353	33.4	4.5	1.06	32.4	83	5.7
Garst AP 7126	349	33.1	5.0	1.05	27.9	82	5.2
Garst 1500 RR	342	32.1	4.3	1.03	26.5	81	5.6
Tamcot Sphinx	332	31.6	4.6	1.00	30.9	83	5.4
All-Tex Atlas	306	29.5	4.3	1.08	32.9	82	4.9
LSD (k=100) ¹	142	ns	ns	ns	ns	ns	ns
%CV	13.3	5.4	7.2	4.8	10.4	1.2	11.9
Mean	406	32.4	4.7	1.06	28.4	82	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 27. Agronomic performance and fiber quality of cotton cultivars evaluated at Dallas during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
PhytoGen PSC 355	516	33.0	4.9	1.02	28.4	83	6.3
Deltapine DP 20 B	493	32.2	4.6	1.06	27.0	82	5.6
Sure-Grow SG 747	466	32.2	5.2	1.03	25.4	82	6.4
Sure-Grow SG 501 BR	458	31.2	4.9	1.04	28.5	83	6.1
Paymaster PM 1218 BR	455	32.9	4.9	1.02	26.3	82	5.2
Deltapine DP 50	439	29.6	4.7	1.06	25.6	83	5.3
Deltapine NuCotn 33 B	421	31.5	4.6	1.07	28.4	82	5.2
Deltapine DP 436 RR	415	30.4	4.8	1.08	27.4	83	5.7
Deltapine DP 451 BR	403	30.4	4.7	1.07	25.2	82	4.8
All-Tex Atlas	385	29.7	4.4	1.01	29.2	81	5.4
Tamcot Sphinx	353	30.9	4.7	0.99	27.6	82	5.0
Acala Maxxa	298	30.0	4.2	1.11	36.1	84	5.2
LSD (k=100) ¹	95	2.3	0.3	0.04	1.6	ns	0.5
%CV	12.3	3.8	3.4	2.3	3.6	1.0	5.1
Mean	425	31.2	4.7	1.05	27.9	83	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 28. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe during 2001 (Dryland).

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 747	1127	29.6	5.2	1.16	27.7	84	6.5
TAM 96 WD-22	1047	30.2	4.5	1.16	28.8	83	5.5
Novartis NK 2108ss	999	28.6	4.7	1.09	28.8	82	5.2
TAM 98 WS-18	989	32.0	4.6	1.12	27.3	82	5.2
Novartis NK 2387	977	30.1	4.9	1.09	27.7	82	6.0
Deltapine DP 448B	947	29.2	4.7	1.12	28.7	82	5.2
Paymaster PM 330	942	27.6	5.0	1.08	29.9	82	6.5
AFD 2050	930	28.1	4.8	1.13	30.6	83	5.6
Novartis NK 2165	924	30.1	5.1	1.06	28.5	81	5.3
Stoneville ST 3539BR	923	29.8	5.2	1.04	30.7	82	5.3
Garst AP 9257	922	27.4	4.7	1.18	29.6	83	4.7
Paymaster PM 2326 RR	917	28.1	5.3	1.08	31.3	83	5.3
TAM 96 WD-69s	913	26.5	4.6	1.15	30.6	83	6.2
Sure-Grow SG 215 B/R	903	30.5	5.1	1.11	26.9	83	6.3
Paymaster PM 1218 BR	891	29.2	5.3	1.10	27.3	83	5.5
Tamcot Sphinx	889	27.6	5.1	1.11	31.6	84	4.8
Paymaster PM 2200 RR	886	27.9	4.6	1.10	30.9	82	5.0
PhytoGen PSC 355	883	28.4	5.2	1.13	30.8	84	6.3
Paymaster PM 2326 BR	883	29.0	4.9	1.05	30.4	83	6.4
TAM 98 D-97	881	26.3	4.7	1.18	33.8	84	4.3
Paymaster PM 2145 RR	874	28.5	5.1	1.05	29.0	82	5.2
All-Tex Atlas	869	26.5	4.9	1.09	31.0	83	5.4
All-Tex Excess	860	27.9	5.0	1.09	28.6	82	4.9
Paymaster PM 2266 RR	859	28.1	4.7	1.09	31.2	83	5.8
Tamcot Pyramid	858	28.5	4.9	1.09	28.7	82	5.1
TAM 96 WD-72	850	28.8	4.6	1.12	29.8	81	5.0
TAM 97 WHH-28	831	25.5	5.2	1.14	32.2	84	4.8
TAM 97 WHH-44	831	26.6	4.9	1.15	31.6	83	5.3
Paymaster PM 2280 BR	822	28.2	4.6	1.13	32.7	82	4.7
SeedCo 9023	813	26.1	4.8	1.15	30.4	84	5.8
Garst 1500 RR	805	28.5	4.4	1.13	31.2	83	5.5
TAM 96 WD-81	795	27.0	5.1	1.10	29.1	80	5.4

Table 28. Continued.....

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Deltapine DP 2156	794	27.1	5.3	1.03	28.0	82	5.8
Paymaster Tejas	788	27.3	5.3	1.08	30.5	83	6.3
AFD Explorer	765	26.2	5.0	1.09	30.8	83	6.0
TAM 94 L-25	745	24.4	4.5	1.22	32.1	83	3.4
Paymaster PM 2379 RR	723	27.8	5.4	1.05	29.5	83	6.7
Paymaster PM 2344 BR	709	25.2	5.1	1.10	31.7	83	5.3
Stoneville ST 474	700	29.2	5.2	1.14	30.2	83	5.0
Stoneville ST 2454R	692	28.5	5.1	1.09	29.3	83	5.7
Acala Maxxa	574	25.5	4.2	1.20	34.7	84	4.1
LSD (k=100) ¹	152	1.8	0.5	0.03	2.1	1.6	0.6
%CV	9.4	3.1	4.4	1.6	3.5	0.8	5.6
Mean	864	28.0	4.9	1.11	30.1	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 29. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe during 2000 and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 747	911	30.1	4.9	1.11	26.9	83	6.4
Paymaster PM 330	815	28.4	4.9	1.06	29.3	82	6.1
Novartis NK 2108ss	786	28.2	4.5	1.08	27.9	82	5.5
Novartis NK 2165	785	30.8	4.6	1.08	27.5	81	5.6
Tamcot Sphinx	776	28.5	4.9	1.09	30.3	83	5.1
Paymaster PM 2280 BR	775	28.8	4.6	1.11	32.3	83	5.0
Paymaster PM 2326 BR	770	28.4	4.8	1.05	30.0	83	6.0
Paymaster PM 1218 BR	758	28.4	4.8	1.09	27.6	83	5.5
PhytoGen PSC 355	747	28.3	4.8	1.11	30.6	84	6.6
Paymaster PM 2326 RR	733	27.9	5.0	1.07	31.1	83	5.4
Deltapine DP 2156	722	28.2	5.1	1.03	26.8	82	5.5
Garst AP 9257	716	27.1	4.3	1.12	28.2	83	4.9
Paymaster PM Tejas	713	27.9	5.1	1.07	29.9	83	6.2
SeedCo 9023	708	26.4	4.9	1.12	30.6	84	6.0
All-Tex Excess	706	27.0	4.6	1.11	31.4	83	5.5
All-Tex Atlas	705	26.1	4.5	1.08	31.2	83	5.7
Paymaster PM 2379 RR	703	28.1	5.1	1.05	29.9	83	6.8
Paymaster PM 2200 RR	698	26.9	4.4	1.09	29.7	82	5.1
Paymaster PM 2145 RR	697	28.9	4.9	1.03	27.3	83	5.1
Tamcot Pyramid	692	27.7	4.6	1.07	27.2	83	5.1
TAM 94 L-25	690	25.7	4.4	1.21	31.7	83	4.1
Stoneville ST 474	676	29.8	4.9	1.11	28.4	83	5.1
Garst 1500 RR	639	28.0	4.2	1.11	29.2	82	5.4
Acala Maxxa	516	27.5	4.0	1.18	34.1	84	4.7
LSD (k=100) ¹	ns	2.8	0.4	0.05	3.2	ns	0.9
%CV	11.6	3.9	4.3	2.3	4.8	0.9	7.4
Mean	726	28.0	4.7	1.09	29.5	83	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 30. Agronomic performance and fiber quality of cotton cultivars evaluated at Chillicothe during 1999, 2000, and 2001.

Cultivar	Lint Yield (lb/ac)	Gin Turnout (%)	Micro- naire (units)	Length (in)	Str. (g/tex)	UI (ratio)	Elong- ation (%)
Sure-Grow SG 747	852	29.8	4.6	1.09	26.8	82	6.7
Paymaster PM 330	829	28.9	4.8	1.04	29.5	81	6.2
Paymaster PM 2326 BR	764	28.8	4.7	1.03	29.9	82	6.3
Paymaster PM 2280 BR	761	28.7	4.4	1.09	32.5	82	5.4
Paymaster PM 2326 RR	754	28.4	4.9	1.06	30.4	82	5.7
Tamcot Sphinx	750	28.5	4.8	1.08	30.7	83	5.4
All-Tex Atlas	736	27.1	4.5	1.06	30.7	83	5.9
Deltapine DP 2156	732	28.4	5.0	1.01	26.9	82	5.6
Paymaster PM Tejas	710	27.3	4.9	1.06	30.7	82	6.4
PhytoGen PSC 355	709	28.4	4.8	1.09	30.0	84	6.9
All-Tex Excess	700	27.6	4.7	1.08	29.7	82	5.6
Paymaster PM 2145 RR	699	29.5	4.8	1.02	28.1	82	5.3
TAM 94 L-25	697	26.1	4.2	1.18	31.7	82	4.4
SeedCo 9023	688	26.6	4.8	1.10	29.8	83	6.1
Paymaster PM 1218 BR	686	28.3	4.7	1.07	27.9	83	5.8
Paymaster PM 2200 RR	661	27.0	4.4	1.08	29.7	82	5.5
Stoneville ST 474	638	29.4	4.8	1.09	28.3	83	5.4
Acala Maxxa	507	26.9	3.9	1.16	35.5	84	5.2
LSD (k=100) ¹	135	2.1	0.3	0.03	2.6	1.6	0.6
%CV	10.2	3.9	4.1	1.7	5.3	0.9	6.6
Mean	715	28.1	4.6	1.08	30.0	83	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.