

2002
Alabama
Cotton
Variety
Report

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2002 ALABAMA COTTON VARIETY REPORT

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INTRODUCTION

The Alabama Cotton Variety Test is a continuing evaluation of available cotton varieties from private companies and state agricultural experiment stations. Breeding lines that are likely to be released as varieties are also tested. Tests are conducted on units of the Alabama Agricultural Experiment Station by Experiment Station personnel. Cultural practices are those generally recommended by the Alabama Cooperative Extension System to producers. Data are reported on irrigated tests at Belle Mina and Headland. No other tests received scheduled supplemental irrigation. Every effort is made to test the varieties and present the results in an unbiased manner.

EXPERIMENTAL CONDITIONS

Tests were split into early season and full season varieties. The maturity category for each variety was chosen by the company or cooperator. Deltapine NuCotn 33B and Sure-Grow 747 were included in both early and full season tests for comparison. Plot size was two rows at Prattville, Headland, Belle Mina, Shorter, and Fairhope. Row length varied at different locations from 20 to 120 feet. A randomized complete block design with four replications was used in all tests. The trial at Fairhope is not reported due to unfavorable weather conditions at harvest.

Cotton varieties were evaluated in a producer's field on a sandy loam soil in south Alabama naturally infested with reniform nematode (*Rotylenchulus reniform*), continuously cropped in cotton by Dr. Kathy McLean of the Dept. of Entomology and Plant Pathology at Auburn University. All varieties were evaluated with and without the use of a chemical nematicide to give an indication of possible tolerance to reniform nematodes. Unfortunately, this test was not harvested due to inclement weather conditions.

EXPLANATION OF DATA

HARVEST OF SEED COTTON

A 50-boll sample was taken by hand for ginning, then test plots were harvested by a mechanical spindle picker at all locations. Average seed cotton yield was determined for each variety at each location.

LINT PERCENTAGE

Seed cotton samples from each variety were ginned on a 10-saw gin. Lint percentage was calculated by dividing weight of lint by seed cotton weight.

YIELD OF LINT

Lint yield was determined by multiplying the lint percentage by seed cotton yield.

FIBER PROPERTIES

Fiber qualities of all varieties were measured by the USDA-AMS Classing Office in Birmingham, Alabama using High Volume Instrumentation (HVI). Data are reported on a single composite sample of each variety from each location including the regional tests at Shorter and Belle Mina.

Micronaire: This measures the fineness of the cotton fibers. The smaller the micronaire reading, the finer and/or more immature the fibers.

Length: This is the fiber length measured with the HVI instrument. This measurement of length is similar to the classer's staple.

Strength: This is a measure of breaking strength of a standard fiber bundle with the holding jaws separated by 1/8 inch. "Tex" is a size measurement of the fiber bundle and the data given are the force in grams needed to break this bundle.

Uniformity: This is the ratio between the mean length and the upper half mean length of the fibers and is expressed as a percentage. Cotton with a low length uniformity may be difficult to process.

Earliness: Earliness is reported as the percentage of the total yield harvested at the first picking where more than one harvest was made.

Fusarium Wilt: Reaction of varieties to *Fusarium oxysporum* f. *vasinfectum* (Fusarium wilt) was evaluated at the Plant Breeding Unit, Tallahassee. Breeder lines and selected released varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2002, incidence of Fusarium wilt was moderate. The incidence ratings can be found in the 2002 National Fusarium Wilt Cotton Report, Departmental Series No. 246.

STATISTICAL ANALYSIS

Appropriate analyses of the yield data were made. For each location, the variability in the test was measured and expressed as a percentage of the test mean, i.e., the coefficient of variation (C.V.). An indication of the magnitude of difference between variety averages necessary to be considered a real difference is given for each location. It is designated as the Least Significance Difference (L.S.D._{.10}). Appropriate care should be taken when using multi-location or multi-year averages. The genotype x environment interaction is often a significant source of variation, indicating that the varietal rankings are not consistent from one location to another or from one year to the next. Using multi-environment means in these instances can be grossly misleading.

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Appreciation is also expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas:

Chet Norris and Ellis Burgess, Tennessee Valley Research and Extension Center; Don Moore, Prattville Research Field; Bobby Durbin, E.V. Smith Research Center; Randy Akridge, Brewton Research Field & Huxford; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Ronnie McDaniel and Malcomb Pegues, Gulf Coast Research and Extension Center.

TABLE 1. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2002

Variety	2002 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr ----- <i>lbs/acre</i> -----	3-yr
Sure-Grow 747	855	39	1062	947
Sure-Grow 105	822	40	1102	938
Sure-Grow 501BR	865	41	1055	937
Stoneville ST 4892BR	854	42	1064	924
Paymaster PM 1218BG/RR	795	40	992	899
PhytoGen PSC 355	839	40	1021	888
Deltapine DP 451B/RR	766	37	987	870
Sure-Grow 521R	757	39	951	861
Fiber Max FM 966	769	39	1000	858
Deltapine NuCotn 33B	718	38	963	851
Deltapine DP 436RR	669	35	939	834
AllTex Atlas	623	35	761	689
Sure-Grow 215B/R	846	41	1097	.
Stoneville ST 4793R	849	41	992	.
Fiber Max 958	715	41	934	.
PM 1199 RR	815	40	934	.
Deltapine DPLX 99X35	952	42	.	.
PhytoGen PH98M-2983	937	42	.	.
Texas 28R	791	40	.	.
Stoneville ST 457	788	39	.	.
Deltapine DP 555 BG/RR	737	43	.	.
Texas 295	709	37	.	.
Texas 30R	627	36	.	.
Trial mean	787	39	991	875
LSD(0.10)	163	2	112	84
%CV	12	3	7	6

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2002

Variety	2002 lint		Average lint yld	
	yield <i>lbs/acre</i>	percentage %	2-yr ----- <i>lbs/acre</i> -----	3-yr
Sure-Grow 747	718	41	964	909
Deltapine DP 5415 RR	600	40	892	845
Fiber Max FM 989	514	39	829	797
Deltapine NuCotn 33B	671	36	879	792
PhytoGen HS 12	600	38	823	778
Deltapine DP 458BRR	560	38	798	750
PhytoGen PSC 161	615	36	757	747
Deltapine DP 655BRR	642	36	774	739
Deltapine DP 491	743	39	962	.
Stoneville ST 4892BR	802	41	929	.
Deltapine DP 448B	639	37	901	.
Stoneville ST 5599BR	784	39	863	.
DP Delta Pearl	627	40	847	.
Stoneville ST 580	676	38	844	.
Deltapine DP 5415	580	39	841	.
Deltapine DP 565	610	40	834	.
Deltapine NuCotn 35B	638	36	800	.
Deltapine DP 5690RR	553	37	795	.
GC-271	758	35	.	.
Fiber Max FM 989 BR	710	37	.	.
Stoneville ST 5303R	629	39	.	.
Fiber Max 991R	607	38	.	.
Texas 245	606	37	.	.
Deltapine DP 555 BG/RR	600	41	.	.
PhytoGen PHY 78 Acala	598	35	.	.
Fiber Max FM 989 RR	597	39	.	.
Texas 24R	595	39	.	.
AP 7126	574	39	.	.
Acala 1517-99	543	36	.	.
Trial mean	634	38	852	795
LSD(0.10)	166	2	210	160
%CV	16	3	15	12

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PhytoGen PSC 355	1066	42	1331	1138
Fiber Max FM 966	889	43	1264	1016
Sure-Grow 747	1008	45	1184	1007
Stoneville ST 4892BR	1023	44	1165	936
Sure-Grow 105	805	43	1081	922
Sure-Grow 501BR	776	41	1087	913
Paymaster PM 1218BG/RR	664	42	1034	899
Deltapine DP 451B/RR	940	39	1106	887
Deltapine DP 436RR	914	38	1043	886
Deltapine NuCotn 33B	855	39	1067	881
Sure-Grow 521R	924	41	1005	870
Sure-Grow 215B/R	921	42	1126	.
Stoneville ST 4793R	944	45	1097	.
PM 1199 RR	778	44	988	.
PhytoGen PH98M-2983	1077	45	.	.
Deltapine DPLX 99X35	1022	45	.	.
Stoneville ST 457	913	42	.	.
Deltapine DP 555 BG/RR	880	45	.	.
Texas 28R	878	42	.	.
Texas 295	806	40	.	.
Texas 30R	702	39	.	.
Fiber Max 958	687	42	.	.
Trial mean	885	42	1113	941
LSD(0.10)	141	2	109	89
%CV	10	2	6	6

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PhytoGen PSC 161	1021	44	1176	988
Sure-Grow 747	911	45	1122	929
PhytoGen HS 12	884	41	1054	890
Deltapine NuCotn 33B	844	41	1011	838
Deltapine DP 5415 RR	827	43	1011	837
Deltapine DP 655BRR	849	41	970	830
Deltapine DP 458BRR	860	44	972	810
Fiber Max FM 989	451	41	915	807
Stoneville ST 4892BR	999	45	1258	.
Deltapine DP 491	1059	45	1197	.
DP Delta Pearl	869	44	1155	.
Stoneville ST 5599BR	833	42	1102	.
Deltapine NuCotn 35B	968	41	1077	.
Stoneville ST 580	854	42	1051	.
Deltapine DP 565	832	40	1040	.
Deltapine DP 448B	869	42	1036	.
Deltapine DP 5690RR	809	37	1034	.
Deltapine DP 5415	880	41	967	.
Deltapine DP 555 BG/RR	923	46	.	.
AP 7126	917	43	.	.
GC-271	911	40	.	.
Stoneville ST 5303R	833	42	.	.
Fiber Max FM 989 BR	793	41	.	.
Fiber Max 991R	774	41	.	.
Texas 245	768	40	.	.
PhytoGen PHY 78 Acala	755	41	.	.
Fiber Max FM 989 RR	745	43	.	.
Texas 24R	736	44	.	.
Trial mean	849	42	1064	866
LSD(0.10)	138	3	104	85
%CV	10	5	6	6

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre ----</i>	
PhytoGen PSC 355	1383	39	1591	1457
Sure-Grow 747	1270	40	1564	1423
Fiber Max FM 966	1269	39	1543	1381
Stoneville ST 4892BR	1227	40	1474	1334
Sure-Grow 501BR	1092	37	1467	1332
Sure-Grow 521R	1307	39	1445	1328
Sure-Grow 105	1067	37	1420	1320
Paymaster PM 1218BG/RR	1070	40	1452	1269
Deltapine DP 451B/RR	1047	33	1323	1184
Deltapine DP 436RR	1117	35	1312	1179
Deltapine NuCotn 33B	1110	36	1302	1169
AllTex Atlas	891	34	1049	1010
Sure-Grow 215B/R	1179	38	1456	.
Stoneville ST 4793R	1150	39	1408	.
Fiber Max 958	1106	40	1330	.
PM 1199 RR	1268	40	1290	.
PhytoGen PH98M-2983	1391	41	.	.
Deltapine DPLX 99X35	1295	41	.	.
Stoneville ST 457	1263	39	.	.
Deltapine DP 555 BG/RR	1179	41	.	.
Texas 295	1159	37	.	.
Texas 28R	1097	39	.	.
Texas 30R	1069	36	.	.
Trial mean	1174	38	1402	1282
LSD(0.10)	182	2	142	100
%CV	9	3	6	5

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>---- lbs/acre ----</i>	
Sure-Grow 747	1265	41	1370	1185
PhytoGen PSC 161	1245	37	1315	1143
Deltapine DP 5415 RR	1135	39	1231	1066
PhytoGen HS 12	1083	37	1162	1025
Deltapine NuCotn 33B	1182	37	1201	1020
Fiber Max FM 989	852	38	1086	999
Deltapine DP 458BRR	1123	39	1145	985
Deltapine DP 655BRR	1057	36	1024	933
Deltapine DP 491	1323	43	1426	.
Stoneville ST 580	1311	39	1356	.
Stoneville ST 5599BR	1061	42	1318	.
Stoneville ST 4892BR	1220	41	1297	.
DP Delta Pearl	1179	40	1283	.
Deltapine DP 565	1132	39	1270	.
Deltapine DP 448B	1209	38	1264	.
Deltapine NuCotn 35B	1168	38	1229	.
Deltapine DP 5690RR	976	37	1082	.
Deltapine DP 5415	1069	39	1076	.
Stoneville ST 5303R	1221	40	.	.
Deltapine DP 555 BG/RR	1211	43	.	.
Texas 24R	1197	40	.	.
AP 7126	1180	40	.	.
GC-271	1168	37	.	.
PhytoGen PHY 78 Acala	1147	38	.	.
Fiber Max FM 989 RR	1125	39	.	.
Fiber Max FM 989 BR	1115	38	.	.
Fiber Max 991R	1086	37	.	.
Acala 1517-99	1039	38	.	.
Texas 245	1026	37	.	.
Trial mean	1142	39	1230	1045
LSD(0.10)	198	1	155	118
%CV	10	2	8	7

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PhytoGen PSC 355	788	42	780	645
Sure-Grow 747	705	43	767	643
Fiber Max FM 966	651	44	774	638
Sure-Grow 521R	742	42	755	610
Sure-Grow 501BR	652	42	726	608
Deltapine DP 436RR	649	40	682	598
Deltapine NuCotn 33B	700	41	696	584
Stoneville ST 4892BR	691	43	637	545
Sure-Grow 105	688	43	598	532
Deltapine DP 451B/RR	555	38	545	484
Paymaster PM 1218BG/RR	328	41	490	380
Sure-Grow 215B/R	616	39	722	-
Stoneville ST 4793R	703	44	657	-
PM 1199 RR	591	43	530	-
PhytoGen PH98M-2983	768	43	-	-
Deltapine DPLX 99X35	733	45	-	-
Stoneville ST 457	705	46	-	-
Deltapine DP 555 BG/RR	628	46	-	-
Texas 295	628	41	-	-
Fiber Max 958	538	42	-	-
Texas 28R	475	41	-	-
Texas 30R	459	37	-	-
Trial mean	636	42	668	570
LSD(0.10)	166	4	197	146
%CV	16	5	17	15

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>----- lbs/acre ----</i>	
PhytoGen HS 12	629	40	884	698
Sure-Grow 747	620	41	863	690
Deltapine DP 458BRR	567	40	802	642
Deltapine DP 5415 RR	536	42	766	615
Deltapine NuCotn 33B	580	38	753	606
PhytoGen PSC 161	535	37	734	604
Deltapine DP 655BRR	580	39	710	583
Fiber Max FM 989	439	41	720	572
Deltapine DP 491	752	42	982	.
Deltapine NuCotn 35B	660	40	936	.
Deltapine DP 5690RR	541	38	879	.
Stoneville ST 4892BR	659	41	877	.
Deltapine DP 5415	689	41	843	.
DP Delta Pearl	586	41	840	.
Stoneville ST 580	435	39	761	.
Deltapine DP 565	552	39	716	.
Deltapine DP 448B	541	38	707	.
Stoneville ST 5599BR	296	42	701	.
Stoneville ST 5303R	654	41	.	.
Deltapine DP 555 BG/RR	647	43	.	.
GC-271	577	38	.	.
AP 7126	541	40	.	.
Fiber Max 991R	534	40	.	.
Texas 24R	511	40	.	.
Fiber Max FM 989 BR	511	39	.	.
Texas 245	501	40	.	.
PhytoGen PHY 78 Acala	441	39	.	.
Fiber Max FM 989 RR	440	40	.	.
Trial mean	555	40	804	626
LSD(0.10)	187	3	195	144
%CV	20	4	14	13

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2002

This test was not harvested in 2002 due to persistent rains.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2002

This test was not harvested in 2002 due to persistent rains.

TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2002*

Variety	Lint yield			Lint percentage		
	2002	2-yr	3-yr	2002	2-yr	3-yr
	<i>lbs/acre</i>	<i>----- lbs/acre ----</i>		<i>%</i>		
PhytoGen PSC 355	1019	1181	1032	41	41	41
Sure-Grow 747	959	1144	1005	42	41	41
Fiber Max FM 966	895	1145	973	41	41	41
Stoneville ST 4892BR	949	1116	955	42	42	41
Sure-Grow 501BR	846	1084	950	40	40	39
Sure-Grow 105	845	1082	949	41	41	40
Sure-Grow 521R	933	1039	917	40	40	40
Paymaster PM 1218BG/RR	714	1023	883	41	41	42
Deltapine DP 451B/RR	827	1021	877	37	37	37
Deltapine DP 436RR	837	994	875	37	37	36
Deltapine NuCotn 33B	846	1007	871	38	38	37
AllTex Atlas	757	905	850	35	36	36
Fiber Max 958	762	1132	.	41	41	.
Sure-Grow 215B/R	890	1100	.	40	40	.
Stoneville ST 4793R	912	1070	.	42	42	.
PM 1199 RR	863	967	.	42	42	.
PhytoGen PH98M-2983	1043	.	.	43	.	.
Deltapine DPLX 99X35	1001	.	.	43	.	.
Stoneville ST 457	917	.	.	41	.	.
Deltapine DP 555 BG/RR	856	.	.	44	.	.
Texas 295	826	.	.	39	.	.
Texas 28R	810	.	.	41	.	.
Texas 30R	714	.	.	37	.	.
Trial mean	870	1063	928			
LSD(0.10)	100	174	141			
%CV	7	10	9			

* Fairhope data not included in these averages

TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2002*

Variety	Lint yield			Lint percentage		
	2002 <i>lbs/acre</i>	2-yr <i>----- lbs/acre ----</i>	3-yr	2002 <i>%</i>	2-yr	3-yr
Sure-Grow 747	878	1080	928	42	41	41
PhytoGen PSC 161	854	996	871	39	38	39
PhytoGen HS 12	799	981	848	39	39	38
Deltapine DP 5415 RR	775	975	841	41	40	39
Deltapine NuCotn 33B	819	961	814	38	38	37
Deltapine DP 458BRR	777	929	797	40	40	39
Fiber Max FM 989	564	888	794	40	40	40
Deltapine DP 655BRR	782	869	771	38	38	38
Deltapine DP 491	969	1142	.	42	42	.
Stoneville ST 4892BR	920	1090	.	42	42	.
DP Delta Pearl	815	1031	.	41	41	.
Deltapine NuCotn 35B	859	1011	.	39	38	.
Stoneville ST 580	819	1003	.	40	39	.
Stoneville ST 5599BR	744	996	.	41	41	.
Deltapine DP 448B	815	977	.	39	39	.
Deltapine DP 565	781	965	.	40	40	.
Deltapine DP 5690RR	720	948	.	37	38	.
Deltapine DP 5415	805	932	.	40	39	.
GC-271	853	.	.	38	.	.
Deltapine DP 555 BG/RR	845	.	.	43	.	.
Stoneville ST 5303R	834	.	.	41	.	.
AP 7126	803	.	.	40	.	.
Acala 1517-99	791	.	.	37	.	.
Fiber Max FM 989 BR	782	.	.	39	.	.
Texas 24R	760	.	.	41	.	.
Fiber Max 991R	750	.	.	39	.	.
PhytoGen PHY 78 Acala	735	.	.	38	.	.
Fiber Max FM 989 RR	727	.	.	40	.	.
Texas 245	725	.	.	38	.	.
Trial mean	797	987	833			
LSD(0.10)	92	139	108			
%CV	7	8	8			

* Fairhope data not included in these averages

TABLE 13. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	<i>%</i>	<i>---- lbs/acre ----</i>	
Sure-Grow 747	1639	41	1515	1458
Sure-Grow 521R	1551	40	1468	1457
PhytoGen PSC 355	1542	39	1500	1440
Paymaster PM 1218BG/RR	1486	39	1423	1417
Sure-Grow 501BR	1417	37	1477	1410
Deltapine DP 451B/RR	1375	37	1445	1353
Deltapine DP 436RR	1406	36	1375	1334
Deltapine NuCotn 33B	1226	37	1300	1257
Stoneville ST 4892BR	1587	39	1571	.
Sure-Grow 215B/R	1545	39	1522	.
Stoneville ST 4793R	1474	40	1489	.
Fiber Max FM 966	1484	39	1353	.
PM 1199 RR	1481	40	.	.
Sure-Grow 105	1468	38	.	.
Deltapine DP 555 BG/RR	1256	41	.	.
Trial mean	1462	39	1453	1391
LSD(0.10)	229	4	165	130
%CV	9	6	7	5

**TABLE 14. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2002**

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
Sure-Grow 747	1484	39	1528	1480
Fiber Max FM 989	1107	37	1400	1397
Deltapine NuCotn 33B	1273	36	1298	1315
Deltapine DP 458BRR	1194	38	1217	1222
Deltapine DP 5415 RR	1087	39	1122	1180
Deltapine DP 655BRR	1133	37	1185	1179
PhytoGen HS 12	1052	36	1135	1151
Stoneville ST 4892BR	1565	40	1562	.
Deltapine DP 491	1437	40	1411	.
Deltapine DP 565	1136	38	1269	.
Stoneville STX 9905	1657	39	.	.
Fiber Max FM 989 BR	1488	37	.	.
Fiber Max FM 989 RR	1382	38	.	.
Stoneville ST 5303R	1357	38	.	.
Deltapine DP 5415	1134	37	.	.
Trial mean	1299	38	1313	1275
LSD(0.10)	257	3	193	138
%CV	12	5	9	6

TABLE 15. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2002

Variety	2002 lint	Lint	Average lint yld	
	yield	percentage	2-yr	3-yr
	<i>lbs/acre</i>	%	<i>----- lbs/acre -----</i>	
PhytoGen PSC 355	1771	41	1783	1612
Sure-Grow 521R	1756	43	1738	1557
Sure-Grow 501BR	1589	40	1740	1518
Sure-Grow 747	1464	41	1552	1455
Deltapine NuCotn 33B	1599	39	1619	1416
Deltapine DP 655BRR	1398	40	1476	1402
Paymaster PM 1218BG/RR	1602	42	1658	1396
Fiber Max FM 989	1353	39	1406	1373
Deltapine DP 451B/RR	1364	38	1472	1318
Deltapine DP 436RR	1441	37	1449	1295
DP Delta Pearl	1783	41	1848	.
Deltapine DP 491	1917	43	1841	.
Stoneville ST 4793R	1833	43	1830	.
Stoneville ST 4892BR	1800	44	1807	.
Deltapine DP 458BRR	1533	41	1711	.
Deltapine NuCotn 35B	1699	40	1709	.
Sure-Grow 215B/R	1494	40	1596	.
Deltapine DP 565	1534	39	1559	.
Deltapine DP 5415 RR	1429	41	1524	.
PM 1199 RR	1596	41	1520	.
Stoneville STX 9905	1785	43	.	.
Deltapine DP 555 BG/RR	1768	45	.	.
PhytoGen HS 12	1614	40	.	.
Stoneville ST 5303R	1574	41	.	.
Fiber Max FM 989 BR	1563	39	.	.
Fiber Max FM 989 RR	1503	41	.	.
Deltapine DP 5690RR	1469	37	.	.
Trial mean	1601	41	1642	1434
LSD(0.10)	335	3	284	228
%CV	13	4	10	9

TABLE 16. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2002

Variety	Belle Mina		Prattville		Shorter		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
AllTex Atlas	623	23	-	-	891	23	-	-
Deltapine DP 436RR	669	21	914	10	1117	14	649	13
Deltapine DP 451B/RR	766	15	940	7	1047	22	555	18
Deltapine DP 555 BG/RR	737	17	880	13	1179	11	628	14
Deltapine DPLX 99X35	952	1	1022	4	1295	4	733	4
Deltapine NuCotn 33B	718	18	855	15	1110	15	700	8
Fiber Max FM 958	715	19	687	21	1106	16	538	19
Fiber Max FM 966	769	14	889	12	1269	6	651	12
Paymaster PM 1218BG/RR	795	11	664	22	1070	19	328	22
PhytoGen PH98M-2983	937	2	1077	1	1391	1	768	2
PhytoGen PSC 355	839	8	1066	2	1383	2	788	1
PM 1199 RR	815	10	778	18	1268	7	591	17
Stoneville ST 457	788	13	913	11	1263	8	705	5
Stoneville ST 4793R	849	6	944	6	1150	13	703	7
Stoneville ST 4892BR	854	5	1023	3	1227	9	691	9
Sure-Grow 105	822	9	805	17	1067	21	688	10
Sure-Grow 215B/R	846	7	921	9	1179	10	616	16
Sure-Grow 501BR	865	3	776	19	1092	18	652	11
Sure-Grow 521R	757	16	924	8	1307	3	742	3
Sure-Grow 747	855	4	1008	5	1270	5	705	6
Texas 28R	791	12	878	14	1097	17	475	20
Texas 295	709	20	806	16	1159	12	628	15
Texas 30R	627	22	702	20	1069	20	459	21
Trial mean	787		885		1174		636	
LSD(0.10)	163		141		182		166	
%CV	12		10		9		16	

TABLE 17. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2002

Variety	Belle Mina		Prattville		Shorter		Headland	
	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank	lbs/acre	Rank
Acala 1517-99	543	28	-	-	1039	26	-	-
AP 7126	574	25	917	6	1180	11	541	16
Deltapine DP 448B	639	10	869	11	1209	8	541	15
Deltapine DP 458BRR	560	26	860	13	1123	19	567	13
Deltapine DP 491	743	4	1059	1	1323	1	752	1
Deltapine DP 5415	580	24	880	10	1069	23	689	2
Deltapine DP 5415 RR	600	18	827	20	1135	16	536	18
Deltapine DP 555 BG/RR	600	19	923	5	1211	7	647	6
Deltapine DP 565	610	15	832	19	1132	17	552	14
Deltapine DP 5690RR	553	27	809	21	976	28	541	17
Deltapine DP 655BRR	642	9	849	15	1057	25	580	11
Deltapine NuCotn 33B	671	8	844	16	1182	10	580	10
Deltapine NuCotn 35B	638	11	968	4	1168	13	660	3
DP Delta Pearl	627	13	869	12	1179	12	586	9
Fiber Max FM 989	514	29	451	28	852	29	439	26
Fiber Max FM 989 BR	710	6	793	22	1115	20	511	22
Fiber Max FM 989 RR	597	22	745	26	1125	18	440	25
Fiber Max FM 991R	607	16	774	23	1086	21	534	20
GC-271	758	3	911	8	1168	14	577	12
PhytoGen HS 12	600	20	884	9	1083	22	629	7
PhytoGen PHY 78 Acala	598	21	755	25	1147	15	441	24
PhytoGen PSC 161	615	14	1021	2	1245	4	535	19
Stoneville ST 4892BR	802	1	999	3	1220	6	659	4
Stoneville ST 5599BR	784	2	833	18	1061	24	296	28
Stoneville ST 580	676	7	854	14	1311	2	435	27
Stoneville STX 0003	629	12	833	17	1221	5	654	5
Sure-Grow 747	718	5	911	7	1265	3	620	8
Texas 245	606	17	768	24	1026	27	501	23
Texas 24R	595	23	736	27	1197	9	511	21
Trial mean	634		849		1142		555	
LSD(0.10)	166		138		198		187	
%CV	16		10		10		20	

**TABLE 18.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT BELLE MINA, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
PhytoGen PH98M-2983	4.0	1.15	30.5	83
Deltapine DPLX 99X35	4.1	1.14	29.4	83
Stoneville ST 4793R	3.7	1.13	31.0	83
Sure-Grow 501BR	4.4	1.16	30.7	84
Sure-Grow 215B/R	4.0	1.06	28.4	83
Sure-Grow 747	4.3	1.17	28.3	85
Stoneville ST 4892BR	3.4	1.10	29.0	83
PhytoGen PSC 355	4.3	1.14	33.1	84
Sure-Grow 105	4.0	1.17	31.8	85
PM 1199 RR	3.8	1.14	29.3	85
Texas 28R	4.9	1.08	27.8	81
Paymaster PM 1218BG/RR	3.6	1.09	25.8	85
Stoneville ST 457	3.9	1.16	31.8	84
Fiber Max FM 966	3.5	1.14	34.1	85
Deltapine DP 555 BG/RR	4.0	1.14	30.1	82
Deltapine DP 451B/RR	4.2	1.17	29.1	85
Sure-Grow 521R	3.2	1.10	28.7	85
Fiber Max FM 958	4.4	1.13	31.2	85
Deltapine NuCotn 33B	3.9	1.16	32.1	84
Texas 295	3.5	1.24	32.4	83
Texas 30R	4.3	1.17	30.5	83
Deltapine DP 436RR	3.6	1.16	30.0	82
AllTex Atlas	4.2	1.09	30.7	83

**TABLE 18.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT BELLE MINA, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Stoneville ST 4892BR	3.8	1.14	32.2	83
Stoneville ST 5599BR	4.7	1.18	33.6	84
GC-271	4.0	1.20	33.7	84
Deltapine DP 491	3.9	1.25	34.5	83
Sure-Grow 747	4.7	1.14	30.1	84
Fiber Max FM 989 BR	3.6	1.18	34.9	84
Stoneville ST 580	4.4	1.16	32.8	82
Deltapine NuCotn 33B	4.3	1.18	32.0	84
Deltapine DP 655BRR	4.4	1.15	33.9	83
Deltapine DP 448B	3.6	1.12	31.4	82
Deltapine NuCotn 35B	4.1	1.16	32.8	83
Stoneville ST 5303R	4.8	1.13	34.2	84
DP Delta Pearl	4.7	1.15	31.5	82
PhytoGen PSC 161	3.8	1.22	33.4	84
Deltapine DP 565	4.3	1.18	33.5	82
Fiber Max FM 991R	4.5	1.19	33.3	82
Texas 245	3.9	1.21	34.8	82
Deltapine DP 555 BG/RR	4.3	1.15	32.1	82
Deltapine DP 5415 RR	3.8	1.16	33.6	83
PhytoGen HS 12	4.8	1.16	32.7	83
PhytoGen PHY 78 Acala	3.8	1.19	34.5	85
Fiber Max FM 989 RR	3.8	1.15	33.9	81
Texas 24R	4.6	1.13	32.7	84
Deltapine DP 5415	4.3	1.13	32.9	83
AP 7126	4.5	1.19	32.9	84
Deltapine DP 458BRR	4.4	1.19	32.2	84
Deltapine DP 5690RR	3.9	1.15	33.9	83
Acala 1517-99	3.5	1.23	34.2	83
Fiber Max FM 989	4.3	1.11	34.8	83

TABLE 19.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT PRATTVILLE, 2002

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
PhytoGen PH98M-2983	4.6	1.06	29.4	84
PhytoGen PSC 355	4.9	1.08	31.0	84
Stoneville ST 4892BR	5.0	1.06	29.8	83
Deltapine DPLX 99X35	5.2	1.08	30.3	84
Sure-Grow 747	4.9	1.07	28.3	84
Stoneville ST 4793R	5.2	1.03	28.6	84
Deltapine DP 451B/RR	4.7	1.10	28.8	85
Sure-Grow 521R	4.7	1.05	29.4	84
Sure-Grow 215B/R	4.8	1.04	28.1	84
Stoneville ST 457	4.7	1.09	31.1	84
Deltapine DP 436RR	4.7	1.10	28.1	84
Fiber Max FM 966	4.2	1.09	33.8	84
Deltapine DP 555 BG/RR	4.3	1.05	29.8	82
Texas 28R	5.1	1.08	29.3	84
Deltapine NuCotn 33B	4.5	1.10	30.7	83
Texas 295	4.4	1.11	31.3	84
Sure-Grow 105	5.1	1.10	30.8	85
PM 1199 RR	4.9	1.08	29.9	84
Sure-Grow 501BR	4.8	1.07	29.6	84
Texas 30R	4.7	1.10	28.1	82
Fiber Max FM 958	4.5	1.14	32.8	83
Paymaster PM 1218BG/RR	4.8	1.06	28.4	84

TABLE 19.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT PRATTVILLE, 2002

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 491	4.5	1.14	31.4	84
PhytoGen PSC 161	4.7	1.14	32.8	85
Stoneville ST 4892BR	5.2	1.06	29.5	84
Deltapine NuCotn 35B	4.7	1.09	31.7	83
Deltapine DP 555 BG/RR	4.4	1.06	28.8	82
AP 7126	4.8	1.11	30.4	83
Sure-Grow 747	4.8	1.07	28.2	82
GC-271	4.7	1.13	32.5	84
PhytoGen HS 12	4.8	1.13	31.6	84
Deltapine DP 5415	5.0	1.07	30.2	83
DP Delta Pearl	5.0	1.12	30.5	83
Deltapine DP 448B	4.5	1.09	29.8	83
Deltapine DP 458BRR	4.9	1.07	29.0	83
Stoneville ST 580	5.0	1.08	29.6	83
Deltapine DP 655BRR	4.6	1.10	31.2	83
Deltapine NuCotn 33B	4.7	1.07	29.2	83
Stoneville ST 5303R	5.2	1.06	30.7	83
Deltapine DP 565	4.8	1.12	30.4	84
Stoneville ST 5599BR	4.6	1.05	29.3	83
Deltapine DP 5415 RR	4.9	1.08	31.1	83
Deltapine DP 5690RR	4.6	1.06	30.7	83
Fiber Max FM 989 BR	4.3	1.10	32.4	83
Fiber Max FM 991R	4.5	1.06	30.3	82
Texas 245	4.0	1.15	33.6	84
PhytoGen PHY 78 Acala	4.1	1.12	30.9	84
Fiber Max FM 989 RR	4.2	1.08	32.6	83
Texas 24R	4.9	1.08	29.2	84
Fiber Max FM 989	4.4	1.11	32.8	84

**TABLE 20.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT SHORTER, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
PhytoGen PH98M-2983	4.1	1.08	30.3	82
PhytoGen PSC 355	3.6	1.12	30.8	80
Sure-Grow 521R	4.3	1.09	29.6	84
Deltapine DPLX 99X35	4.2	1.10	30.6	83
Sure-Grow 747	4.2	1.13	29.1	84
Fiber Max FM 966	4.0	1.10	30.5	82
PM 1199 RR	4.2	1.10	30.3	82
Stoneville ST 457	4.7	1.10	31.1	84
Stoneville ST 4892BR	4.4	1.11	30.9	83
Sure-Grow 215B/R	4.1	1.08	28.4	83
Deltapine DP 555 BG/RR	4.1	1.09	30.3	82
Texas 295	3.9	1.12	30.8	81
Stoneville ST 4793R	4.1	1.10	29.3	82
Deltapine DP 436RR	4.6	1.10	27.7	83
Deltapine NuCotn 33B	4.0	1.12	31.5	83
Fiber Max FM 958	4.0	1.15	31.8	83
Texas 28R	4.6	1.11	28.8	82
Sure-Grow 501BR	4.3	1.08	27.2	83
Paymaster PM 1218BG/RR	3.9	1.09	29.7	82
Texas 30R	3.8	1.11	31.5	82
Sure-Grow 105	4.1	1.07	30.4	81
Deltapine DP 451B/RR	4.1	1.11	28.0	84
AllTex Atlas	4.4	1.05	30.4	83

**TABLE 20.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT SHORTER, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 491	4.3	1.16	31.6	83
Stoneville ST 580	4.5	1.09	29.7	82
Sure-Grow 747	4.5	1.12	29.0	83
PhytoGen PSC 161	4.1	1.13	32.5	85
Stoneville ST 5303R	4.8	1.05	32.1	84
Stoneville ST 4892BR	4.8	1.10	29.3	84
Deltapine DP 555 BG/RR	4.7	1.05	28.8	81
Deltapine DP 448B	4.4	1.13	29.6	85
Texas 24R	4.8	1.09	28.9	84
Deltapine NuCotn 33B	4.1	1.14	30.0	84
AP 7126	4.4	1.17	31.2	85
DP Delta Pearl	4.1	1.13	30.5	82
GC-271	4.4	1.17	32.7	85
Deltapine NuCotn 35B	4.1	1.10	31.7	83
PhytoGen PHY 78 Acala	4.0	1.12	34.3	83
Deltapine DP 5415 RR	4.5	1.11	31.6	84
Deltapine DP 565	4.6	1.12	32.4	85
Fiber Max FM 989 RR	4.1	1.10	33.3	84
Deltapine DP 458BRR	4.5	1.10	30.9	84
Fiber Max FM 989 BR	3.8	1.11	30.4	83
Fiber Max FM 991R	4.2	1.12	32.2	84
PhytoGen HS 12	4.4	1.11	30.7	83
Deltapine DP 5415	4.5	1.08	30.9	84
Stoneville ST 5599BR	4.0	1.08	30.0	82
Deltapine DP 655BRR	3.9	1.16	31.7	84
Acala 1517-99	4.1	1.14	33.6	84
Texas 245	3.7	1.13	32.9	83
Deltapine DP 5690RR	4.5	1.11	32.8	84
Fiber Max FM 989	4.0	1.11	32.5	84

TABLE 21.A. COTTON FIBER ANALYSIS, HVI, OF EARLY SEASON COTTON VARIETIES
AT HEADLAND, 2002

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
PhytoGen PSC 355	5.4	1.07	30.6	84
PhytoGen PH98M-2983	5.1	1.11	30.6	84
Sure-Grow 521R	4.9	1.09	26.8	84
Deltapine DPLX 99X35	5.1	1.12	29.3	84
Sure-Grow 747	5.1	1.10	27.2	85
Stoneville ST 457	5.1	1.10	29.1	84
Stoneville ST 4793R	5.4	1.06	29.6	84
Deltapine NuCotn 33B	5.0	1.11	29.2	84
Stoneville ST 4892BR	5.5	1.12	30.2	85
Sure-Grow 105	5.4	1.09	29.7	84
Deltapine DP 436RR	5.1	1.10	28.2	83
Sure-Grow 501BR	5.2	1.06	27.7	84
Fiber Max FM 966	4.9	1.11	31.8	83
Deltapine DP 555 BG/RR	5.2	1.08	28.0	83
Texas 295	5.0	1.17	30.8	84
Sure-Grow 215B/R	4.6	1.09	27.1	84
PM 1199 RR	5.3	1.10	28.7	84
Deltapine DP 451B/RR	5.2	1.12	28.3	84
Fiber Max FM 958	4.9	1.15	32.2	84
Texas 28R	4.9	1.14	28.1	83
Texas 30R	4.5	1.15	29.8	84
Paymaster PM 1218BG/RR	4.4	1.06	27.4	83

**TABLE 21.B. COTTON FIBER ANALYSIS, HVI, OF FULL SEASON COTTON VARIETIES
AT HEADLAND, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Full season				
Deltapine DP 491	4.8	1.17	31.9	83
Deltapine DP 5415	5.2	1.11	30.6	83
Deltapine NuCotn 35B	4.8	1.09	32.3	84
Stoneville ST 4892BR	5.1	1.09	28.9	84
Stoneville ST 5303R	5.2	1.10	31.2	85
Deltapine DP 555 BG/RR	4.7	1.09	30.4	82
PhytoGen HS 12	5.3	1.14	31.9	83
Sure-Grow 747	5.1	1.12	27.7	84
DP Delta Pearl	4.8	1.14	31.6	83
Deltapine DP 655BRR	4.8	1.09	31.5	84
GC-271	5.1	1.15	33.3	85
Deltapine NuCotn 33B	5.1	1.13	30.0	84
Deltapine DP 458BRR	4.9	1.11	31.3	83
Deltapine DP 565	5.1	1.15	30.0	83
Deltapine DP 448B	4.9	1.13	30.1	83
AP 7126	5.0	1.15	29.4	84
Deltapine DP 5690RR	4.8	1.13	33.2	84
Deltapine DP 5415 RR	5.4	1.11	29.3	84
PhytoGen PSC 161	4.6	1.17	32.4	85
Fiber Max FM 991R	5.2	1.13	31.7	84
Fiber Max FM 989 BR	4.5	1.12	32.3	84
Texas 24R	5.0	1.09	30.8	84
Texas 245	4.7	1.15	32.0	84
PhytoGen PHY 78 Acala	4.7	1.09	31.5	83
Fiber Max FM 989 RR	4.4	1.10	32.4	83
Stoneville ST 580	4.9	1.14	31.5	84
Fiber Max FM 989	4.9	1.12	34.1	84
Stoneville ST 5599BR	4.6	1.09	29.9	83

**TABLE 22. COTTON FIBER ANALYSIS, HVI, OF EARLY AND FULL SEASON
COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2002**

This test was not harvested in 2002 due to persistent rains.

**TABLE 23. COTTON FIBER ANALYSIS, HVI, OF EARLY AND FULL SEASON IRRIGATED
COTTON VARIETIES AT BELLE MINA, ALABAMA, 2002**

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Early season				
Sure-Grow 747	3.6	1.17	25.5	84
Stoneville ST 4892BR	4.0	1.15	31.1	83
Sure-Grow 521R	3.7	1.15	26.9	83
Sure-Grow 215B/R	4.0	1.15	26.6	84
PhytoGen PSC 355	3.5	1.19	32.6	84
Fiber Max FM 966	3.8	1.11	29.8	84
Paymaster PM 1218BG/RR	3.7	1.19	27.8	83
PM 1199 RR	3.4	1.16	27.5	83
Sure-Grow 105	4.0	1.13	26.1	83
Stoneville ST 4793R	3.4	1.15	31.3	84
Sure-Grow 501BR	4.1	1.20	26.3	83
Deltapine DP 436RR	3.5	1.17	30.7	83
Deltapine DP 451B/RR	3.5	1.14	31.6	83
Deltapine DP 555 BG/RR	3.6	1.20	22.7	83
Deltapine NuCotn 33B	4.0	1.16	26.6	84
Full season				
Stoneville ST 5599BR	3.5	1.19	30.0	84
Stoneville ST 4892BR	3.8	1.15	28.0	84
Fiber Max FM 989 BR	3.8	1.17	28.7	85
Sure-Grow 747	4.4	1.16	26.7	84
Deltapine DP 491	4.1	1.14	28.0	84
Fiber Max FM 989 RR	4.0	1.16	27.4	85
Stoneville ST 5303R	3.8	1.18	33.9	84
Deltapine NuCotn 33B	3.9	1.19	26.6	84
Deltapine DP 458BRR	4.0	1.17	28.9	84
Deltapine DP 565	4.1	1.12	29.1	83
Deltapine DP 655BRR	3.8	1.16	27.1	84
Deltapine DP 5415	3.9	1.13	29.7	83
Fiber Max FM 989	4.0	1.15	27.3	84
Deltapine DP 5415 RR	4.1	1.16	28.1	84
PhytoGen HS 12	4.0	1.16	28.2	85

TABLE 24. COTTON FIBER ANALYSIS, HVI, OF IRRIGATED COTTON VARIETIES
AT HEADLAND, ALABAMA, 2002

Variety	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>	Uniformity <i>pct.</i>
Deltapine DP 491	4.4	1.19	32.2	83
Stoneville ST 4793R	5.1	1.04	27.3	83
Stoneville ST 4892BR	5.2	1.05	27.5	83
DP Delta Pearl	5.0	1.16	30.3	82
Stoneville ST 5599BR	4.5	1.10	29.0	82
PhytoGen PSC 355	4.8	1.12	28.8	84
Deltapine DP 555 BG/RR	4.6	1.11	28.8	82
Sure-Grow 521R	4.9	1.07	25.6	83
Deltapine NuCotn 35B	5.1	1.10	27.6	83
PhytoGen HS 12	5.1	1.12	30.7	82
Deltapine NuCotn 33B	4.7	1.12	29.9	83
PM 1199 RR	5.0	1.09	28.0	84
Paymaster PM 1218BG/RR	4.8	1.08	27.3	83
Sure-Grow 501BR	4.7	1.05	27.6	83
Fiber Max FM 989 BR	4.4	1.10	28.9	82
Stoneville ST 5303R	5.1	1.06	29.7	85
Deltapine DP 458BRR	5.0	1.10	28.2	83
Deltapine DP 565	5.0	1.11	28.7	83
Fiber Max FM 989 RR	4.6	1.11	31.4	84
Sure-Grow 215B/R	5.2	1.04	25.3	83
Sure-Grow 747	5.2	1.09	25.3	84
Deltapine DP 5690RR	4.6	1.08	30.2	83
Deltapine DP 436RR	5.0	1.09	26.5	83
Deltapine DP 5415 RR	5.2	1.11	29.6	83
Deltapine DP 655BRR	5.0	1.11	30.4	83
Deltapine DP 451B/RR	5.1	1.11	27.2	84
Fiber Max FM 989	4.8	1.14	31.9	84

TABLE 25. GROWING SEASON RAINFALL, 2000-2002

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	2002	5.5	1.5	10.3	0.9	4.5	1.7	5.3	29.7
	2001	5.8	3.9	6.4	8.8	4.3	3.5	5.6	38.3
	2000	5.5	8.6	0.7	4.1	0.7	2.7	1.7	24.0
Shorter	2002	6.5	3.6	2.5	5.6	2.3	1.9	5.9	28.3
	2001	13.8	6.0	3.6	7.1	3.1	2.4	1.6	37.6
	2000	4.7	2.2	1.8	1.5	1.0	2.4	3.9	17.5
Prattville	2002	5.8	1.4	2.6	1.9	4.2	2.2	6.2	24.3
	2001	13.1	3.8	2.9	5.1	4.0	9.6	2.4	40.9
	2000	4.7	2.8	0.6	2.6	2.4	1.1	7.3	21.5
Headland	2002	5.2	3.4	2.9	3.9	4.1	3.1	2.9	25.5
	2001	12.6	2.5	2.1	11.6	3.4	4.7	3.7	40.6
	2000	3.3	0.5	0.1	1.8	1.3	2.6	6.1	15.7
Fairhope	2002	4.2	3.1	2.3	3.4	10.8	5.8	14.8	44.4
	2001	8.7	0.3	0.6	13.8	15.7	9.1	4.7	52.9
	2000	4.1	1.1	0.7	4.2	3.2	3.0	9.5	25.8

TABLE 26. SOIL TYPES FOR 2002 COTTON TRIALS

Test location	Soil type
Belle Mina	Decatur silt loam
E.V. Smith Research Center	
Field Crops Unit, Shorter	Norfolk sandy loam
Prattville	Lucedale fine sandy loam
Huxford	Malbis fine sandy loam
Headland	Dothan sandy loam
Fairhope	Malbis fine sandy loam

TABLE 27. SOURCES OF SEED FOR THE 2002 COTTON VARIETY TRIALS

Delta and Pine Land Co., Scott, Mississippi

Deltapine DPLX 99X35	Paymaster PM 1199RR
Deltapine Delta Pearl	Paymaster PM 1218BG/RR
Deltapine DP 491	Paymaster PM 1560BG/RR
Deltapine DP 565	Sure-Grow 105
Deltapine DP 5415	Sure-Grow 747
Deltapine DP 448B	Sure-Grow 125BR
Deltapine NuCotn 33B	Sure-Grow 215BR
Deltapine NuCotn 35B	Sure-Grow 501BR
Deltapine DP 436RR	Sure-Grow 521R
Deltapine DP 5415RR	
Deltapine DP 5690RR	
Deltapine DP 451BRR	
Deltapine DP 458BRR	
Deltapine DP 555BRR	
Deltapine DP 655BRR	

Aventis Crop Sciences, Collierville, Tennessee

FiberMax FM 832	FiberMax FM 989BR
FiberMax FM 958	FiberMax FM 989R
FiberMax FM 966	FiberMax FM 991R
FiberMax FM 989	

PhytoGen Seed Company, Leland, Mississippi

PhytoGen PH98M-2983	PhytoGen GA 161
PhytoGen HS 12	PhytoGen Phy 78 Acala
PhytoGen PSC 355	

Stoneville Pedigreed Seed Co., Stoneville, Mississippi

Stoneville ST 457	Stoneville ST 5303R
Stoneville ST 580	Stoneville ST 4892BR
Stoneville ST 4793R	Stoneville ST 5599BR (formerly STX 9905)

Beltwide Cotton Genetics, McCrory, Arkansas

Texas 245	Texas 28R
Texas 295	Texas 30R
Texas 24R	

CPCS Distributor, Shafter, California

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