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1997 Alabama Cotton Variety Report



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1997 Alabama Cotton Variety Report

A REPORT OF THE PERFORMANCE OF COTTON VARIETIES TESTED IN ALABAMA

K. M. GLASS, C. D. MONKS, C. H. BURMESTER, AND D. I. BRANSBY

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 Auburn University Extension System to producers. Data is reported on an irrigated test at both Belle Mina and Shorter. 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. Comparative basis for early season varieties were Deltapine DP 5409 and Suregrow 125; full season comparative varieties were Deltapine Acala 90 and Suregrow 1001. The maturity category for each variety was chosen by the company or cooperator. Plot size was two rows at Prattville, Headland, Belle Mina, Shorter, and Fairhope, and one row at Monroeville.

A randomized complete block experimental design with four replications was used in all tests. Row length varied at different locations from 20 to 120 feet.

At most locations, excess rainfall and cool spring temperatures affected yield. At E. V. Smith, Shorter, full season trial yields are not reported. This was due to inadequate site drainage and yields were not reflective of varietal capabilities. At Monroeville, yields were greatly reduced due to drought conditions. At Fairhope, yields may have been reduced due to the high winds and heavy rainfall of Hurricane Danny in July.

EXPLANATION OF DATA

Harvest of Seed Cotton

Tests at Belle Mina, Shorter, Prattville, Headland, and Fairhope were harvested by a mechanical spindle picker. The test at Monroeville was harvested by hand. 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 Auburn University Textile Engineering Fiber Physical Testing Laboratory using High Volume Instrumentation (HVI). Data are reported on a single composite sample of each variety from all locations including the regional tests at Shorter and Belle Mina.

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.

Elongation. A measure of the percentage stretch before the fibers break..

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

Glass is a Research Assistant, Monks is an Extension Cotton and Soybean Specialist, Burmester is an Extension Agronomist, and Bransby is a Professor in the Auburn University Department of Agronomy and Soils.

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, Tallassee. Selected varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 1997, root-knot nematode damage was consistent with earlier years. The fusarium wilt data is not reported in this publication but may be obtained from the *1997 National Fusarium Wilt Cotton Report*, Dept. Series No. 208.

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._{.05}).

LOCATIONS OF EXPERIMENTS

Tennessee Valley Substation	B.E. Norris, Supt. H.E. Burgess
Prattville Experiment Field	D.P. Moore, Supt.
E.V. Smith Research Center Field Crops Research Unit, Shorter	J.S. Bannon, Dir. B. Durbin, Supv.
Monroeville Experiment Field	J.R. Akridge, Supt.
Wiregrass Substation, Headland	L.N. Wells, Supt. B.E. Gamble
Gulf Coast Substation, Fairhope	N.R. McDaniel, Supt. M.D. Pegues

Appreciation is also expressed to Mien-Huei Tzeng, Applied Statistics Consulting Lab, Discrete and Statistical Sciences, for the computation, summarization, and analysis of the data in this report.

TABLE 1. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 1997

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	1,039	40	95	1,192	1,043
Suregrow 125*	1,018	38	92	1,136	1,009
Suregrow 501	999	39	88	1,116	996
Deltapine 51	1,026	36	86	1,161	995
Deltapine Acala 90**	967	37	86	1,026	918
Suregrow 404	922	36	90	1,065	904
Terra 366	928	36	95	1,022	895
Hartz H 1220	892	38	85	961	895
Suregrow 1001**	868	36	86	984	888
Deltapine DP 5409*	963	37	93	1,039	881
Terra 292	887	33	87	986	842
Paymaster HS-26	804	35	87	919	787
Stoneville 468	957	39	93	1,098	-
Deltapine NuCotn 33B	960	36	92	1,086	-
Stoneville X 47	927	40	94	1,061	-
Deltapine DP 5415	1,083	38	86	1,029	-
Deltapine DP 32B	1,047	36	94	-	-
Paymaster PM1220BG/RR	1,046	39	93	-	-
Paymaster PM1215BG	1,004	37	94	-	-
Paymaster PM1330BG/RR	1,001	37	93	-	-
Stoneville 373	1,000	39	87	-	-
Deltapine DP 5111	991	37	97	-	-
Deltapine DP 5305	989	39	85	-	-
Paymaster PM1220BG	988	38	90	-	-
Deltapine DP 20B	971	37	93	-	-
Deltapine DP 5415 RR	957	38	84	-	-
Paymaster PM1244BG/RR	932	38	89	-	-
Stoneville BG 4740	931	39	92	-	-
F'MAX 819	903	40	95	-	-
Paymaster PM1220RR	873	38	86	-	-
HyPerformer HYX 6101	852	35	86	-	-
Deltapine DP 50B	799	33	94	-	-
<i>Test Mean</i>	<i>954</i>				
<i>L.S.D. (.05)</i>	<i>115</i>				
<i>C.V.</i>	<i>9%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 1997

Brand-variety	1997		Earliness	2-yr. av.	3-yr. av.
	Lint/Acre	Lint		Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>		<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,014	39	94	1,168	1,058
Deltapine Acala 90**	1,123	37	91	1,167	1,030
Deltapine DP 5690	1,071	37	95	1,114	1,014
Stoneville LA 887	985	38	95	1,098	988
Hartz H 1560	959	38	95	1,094	980
KC 311	979	36	95	1,038	973
HS 44	882	35	93	1,055	967
Suregrow 1001**	937	37	91	1,024	958
Deltapine DP 5415	1,110	37	88	1,015	942
HS 46	1,027	38	95	1,019	920
Deltapine NuCotn 33B	1,129	36	93	1,220	-
Deltapine 51	1,066	35	93	1,149	-
Deltapine NuCotn 35B	1,069	36	93	1,094	-
GA 90-89	905	37	90	1,079	-
Deltapine DP 5409*	1,049	38	94	1,060	-
GA 92-161	999	36	89	1,014	-
Acala MAXXA	907	41	88	851	-
Deltapine DP 20B	1,172	38	95	-	-
F'MAX 989	1,118	39	95	-	-
Suregrow 821	1,056	38	94	-	-
Deltapine DP 5415 RR	1,050	38	89	-	-
F'MAX 975	1,046	40	93	-	-
HyPerformer HYX 4103	1,037	37	93	-	-
Deltapine DP 32B	1,032	36	95	-	-
Deltapine DP 5305	1,031	41	94	-	-
Paymaster PM1560BG	1,031	40	91	-	-
Suregrow 248	1,026	38	88	-	-
GA 89-224	983	36	95	-	-
GA 92-316	967	37	91	-	-
Suregrow 180	957	37	96	-	-
Deltapine DP 90B	949	36	95	-	-
F'MAX 832	947	36	96	-	-
Deltapine DP 50B	934	33	94	-	-
GA 91-143	924	38	88	-	-
Deltapine DP 5690RR	891	36	93	-	-
Deltapine DP 90RR	750	36	90	-	-
<i>Test Mean</i>	<i>1,003</i>				
<i>L.S.D. (.05)</i>	<i>140</i>				
<i>C.V.</i>	<i>10%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 1997

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	1,540	44	-	1,365	1,024
Deltapine DP 5409*	1,503	40	-	1,259	966
Suregrow 125*	1,441	41	-	1,274	964
Suregrow 501	1,474	43	-	1,262	954
Suregrow 404	1,476	39	-	1,254	938
Suregrow 1001**	1,460	40	-	1,233	935
Deltapine Acala 90**	1,363	39	-	1,225	911
Terra 292	1,358	37	-	1,179	901
Hartz H 1220	1,288	40	-	1,180	891
Deltapine 51	1,366	40	-	1,165	889
Terra 366	1,322	38	-	1,148	866
Stoneville 468	1,511	41	-	1,312	-
Stoneville X 47	1,456	42	-	1,266	-
Deltapine NuCotn 33B	1,481	39	-	1,258	-
Deltapine DP 5415	1,281	40	-	1,073	-
Stoneville 373	1,627	42	-	-	-
Deltapine DP 5305	1,582	41	-	-	-
Paymaster PM1244BG/RR	1,461	40	-	-	-
Deltapine DP 32B	1,440	39	-	-	-
Paymaster PM1220BG	1,374	39	-	-	-
Paymaster PM1330BG/RR	1,368	39	-	-	-
Deltapine DP 5111	1,347	38	-	-	-
HyPerformer HYX 6101	1,344	40	-	-	-
Paymaster PM1220BG/RR	1,342	41	-	-	-
Deltapine DP 5415 RR	1,331	41	-	-	-
Stoneville BG 4740	1,330	42	-	-	-
Deltapine DP 20B	1,305	40	-	-	-
Paymaster PM1220RR	1,275	40	-	-	-
F'MAX 819	1,242	43	-	-	-
Paymaster PM1215BG	1,132	38	-	-	-
Deltapine DP 50B	1,127	34	-	-	-
<i>Test Mean</i>	<i>1,385</i>				
<i>L.S.D. (.05)</i>	<i>168</i>				
<i>C.V.</i>	<i>9%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 1997

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,475	41	-	1,301	952
Hartz H 1560	1,472	42	-	1,231	890
Deltapine Acala 90**	1,427	40	-	1,203	873
HS 46	1,357	39	-	1,214	871
HS 44	1,346	39	-	1,182	856
Deltapine DP 5415	1,329	40	-	1,136	831
Suregrow 1001**	1,227	39	-	1,100	804
Deltapine NuCotn 33B	1,465	42	-	1,243	-
Deltapine NuCotn 35B	1,328	38	-	1,199	-
GA 90-89	1,408	39	-	1,189	-
Deltapine DP 5409*	1,356	40	-	1,187	-
Deltapine 51	1,263	39	-	1,149	-
GA 92-161	1,321	39	-	1,133	-
Deltapine DP 5305	1,554	43	-	-	-
Suregrow 180	1,483	39	-	-	-
Suregrow 821	1,425	40	-	-	-
Deltapine DP 50B	1,413	37	-	-	-
F'MAX 989	1,367	40	-	-	-
F'MAX 975	1,365	40	-	-	-
HyPerformer HXX 4103	1,364	39	-	-	-
Deltapine DP 32B	1,338	39	-	-	-
Deltapine DP 20B	1,333	40	-	-	-
Deltapine DP 5415 RR	1,323	40	-	-	-
Paymaster PM1560BG	1,288	42	-	-	-
GA 89-224	1,287	39	-	-	-
GA 91-143	1,276	41	-	-	-
Deltapine DP 5690RR	1,269	39	-	-	-
Deltapine DP 90B	1,261	38	-	-	-
GA 92-316	1,246	39	-	-	-
Suregrow 248	1,231	40	-	-	-
F'MAX 832	1,139	39	-	-	-
Deltapine DP 90RR	1,070	39	-	-	-
<i>Test Mean</i>	<i>1,338</i>				
<i>L.S.D. (.05)</i>	<i>160</i>				
<i>C.V.</i>	<i>9%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 1997

Brand-variety	1997			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,271	40	-	1,435	1,120
Suregrow 1001**	1,406	39	-	1,442	1,104
Deltapine Acala 90**	1,303	39	-	1,388	1,084
Suregrow 501	1,287	42	-	1,397	1,074
Deltapine DP 5409*	1,284	41	-	1,377	1,068
Hartz H 1220	1,266	41	-	1,339	1,062
Stoneville 474	1,349	43	-	1,392	1,058
Deltapine 51	1,202	39	-	1,304	1,020
Suregrow 404	1,171	40	-	1,312	1,005
Terra 366	1,204	38	-	1,310	999
Terra 292	1,140	38	-	1,277	990
Paymaster HS-26	936	37	-	1,046	839
Stoneville 468	1,246	43	-	1,379	-
Stoneville X 47	1,224	42	-	1,362	-
Deltapine DP 5415	1,265	40	-	1,344	-
Deltapine NuCotn 33B	1,074	39	-	1,240	-
Stoneville 373	1,434	43	-	-	-
Deltapine DP 32B	1,429	40	-	-	-
Paymaster PM1220RR	1,390	42	-	-	-
Deltapine DP 5111	1,373	39	-	-	-
Paymaster PM1244BG/RR	1,363	41	-	-	-
Deltapine DP 5305	1,343	43	-	-	-
F'MAX 819	1,335	43	-	-	-
Paymaster PM1220BG/RR	1,323	41	-	-	-
Deltapine DP 20B	1,294	41	-	-	-
Paymaster PM1220BG	1,282	41	-	-	-
Paymaster PM1215BG	1,256	40	-	-	-
Paymaster PM1330BG/RR	1,206	39	-	-	-
HyPerformer HYG 6101	1,160	37	-	-	-
Deltapine DP 5415 RR	1,153	40	-	-	-
Deltapine DP 50B	1,068	37	-	-	-
Stoneville BG 4740	962	42	-	-	-
<i>Test Mean</i>	<i>1,250</i>				
<i>L.S.D. (.05)</i>	<i>259</i>				
<i>C.V.</i>	<i>15%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 1997

Brand-variety	1997+		Earliness	2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint			
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	-	-	-	932	1,038
Stoneville LA 887	-	-	-	977	1,034
Hartz H 1560	-	-	-	918	974
HS 46	-	-	-	880	938
Deltapine DP 5690	-	-	-	916	908
Deltapine Acala 90**	-	-	-	907	904
HS 44	-	-	-	882	900
KC 311	-	-	-	897	890
Deltapine DP 5415	-	-	-	804	883
Suregrow 1001**	-	-	-	888	874
Suregrow 821	-	-	-	-	-
Suregrow 248	-	-	-	-	-
Deltapine NuCotn 35B	-	-	-	-	-
Deltapine DP 32B	-	-	-	-	-
F'MAX 832	-	-	-	-	-
Paymaster PM1560BG	-	-	-	-	-
F'MAX 975	-	-	-	-	-
F'MAX 989	-	-	-	-	-
Deltapine NuCotn 33B	-	-	-	-	-
Deltapine 51	-	-	-	-	-
Deltapine DP 5690RR	-	-	-	-	-
Deltapine DP 20B	-	-	-	-	-
Deltapine DP 5409*	-	-	-	-	-
GA 90-89	-	-	-	-	-
GA 92-316	-	-	-	-	-
GA 89-224	-	-	-	-	-
Deltapine DP 50B	-	-	-	-	-
GA 92-161	-	-	-	-	-
GA 91-143	-	-	-	-	-
HyPerformer HYX 4103	-	-	-	-	-
Deltapine DP 5415 RR	-	-	-	-	-
Suregrow 180	-	-	-	-	-
Deltapine DP 90B	-	-	-	-	-
Deltapine DP 90RR	-	-	-	-	-
Deltapine DP 5305	-	-	-	-	-
Acala MAXXA	-	-	-	-	-
<i>Test Mean</i>	-	-	-	-	-
<i>L.S.D. (.05)</i>	-	-	-	-	-
<i>C.V.</i>	-	-	-	-	-

*Early season check varieties.

**Full season check varieties.

+1997 yields not reported due to poor site drainage. 2-yr. and 3-yr. averages do not include 1997 yields.

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 1997+

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	538	42	-	798	793
Suregrow 125*	576	39	-	831	746
Suregrow 404	470	38	-	757	744
Hartz H 1220	485	40	-	758	729
Deltapine Acala 90**	579	39	-	789	729
Suregrow 1001**	545	39	-	777	723
Deltapine DP 5409*	564	40	-	787	721
Deltapine 51	546	39	-	722	710
Terra 292	571	37	-	748	699
Suregrow 501	561	41	-	740	683
Terra 366	472	38	-	669	658
Stoneville 468	513	41	-	822	-
Stoneville X 47	470	42	-	763	-
Deltapine NuCotn 33B	507	38	-	750	-
Deltapine DP 5415	508	39	-	748	-
Paymaster PM1244BG/RR	565	38	-	-	-
Deltapine DP 20B	553	39	-	-	-
Stoneville 373	540	43	-	-	-
Paymaster PM1220BG	534	40	-	-	-
HyPerformer HYX 6101	529	39	-	-	-
Deltapine DP 5305	522	43	-	-	-
Deltapine DP 5111	515	38	-	-	-
Deltapine DP 50B	500	37	-	-	-
Paymaster PM1220BG/RR	498	39	-	-	-
Deltapine DP 32B	494	38	-	-	-
Paymaster PM1220RR	491	40	-	-	-
Paymaster PM1330BG/RR	471	38	-	-	-
Paymaster PM1215BG	459	38	-	-	-
F'MAX 819	457	42	-	-	-
Deltapine DP 5415 RR	445	40	-	-	-
Stoneville BG 4740	368	43	-	-	-
<i>Test Mean</i>	<i>511</i>				
<i>L.S.D. (.05)</i>	<i>79</i>				
<i>C.V.</i>	<i>11%</i>				

+Yields at Monroeville were reduced due to late planting date and dry conditions.

*Early season check varieties.

**Full season check varieties.

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 1997+

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Hartz H 1560	537	41	-	762	758
HS 46	505	39	-	783	753
Deltapine Acala 90**	594	38	-	810	746
Deltapine DP 5415	588	40	-	769	745
Suregrow 125*	592	39	-	743	736
Suregrow 1001**	599	40	-	755	723
HS 44	506	36	-	701	701
Deltapine 51	604	39	-	827	-
GA 92-161	607	38	-	795	-
Deltapine NuCotn 33B	589	37	-	774	-
Deltapine NuCotn 35B	562	36	-	773	-
GA 90-89	517	38	-	730	-
Deltapine DP 5409*	547	39	-	722	-
Deltapine DP 32B	636	39	-	-	-
Suregrow 248	635	41	-	-	-
Suregrow 180	620	38	-	-	-
Paymaster PM1560BG	596	40	-	-	-
Deltapine DP 5305	578	41	-	-	-
Deltapine DP 5690RR	578	38	-	-	-
Deltapine DP 20B	562	40	-	-	-
Deltapine DP 90B	561	38	-	-	-
HyPerformer HYX 4103	557	39	-	-	-
Deltapine DP 5415 RR	546	40	-	-	-
Suregrow 821	526	38	-	-	-
F'MAX 832	523	39	-	-	-
GA 89-224	513	37	-	-	-
Deltapine DP 50B	512	33	-	-	-
Deltapine DP 90RR	509	38	-	-	-
F'MAX 989	499	41	-	-	-
F'MAX 975	496	39	-	-	-
GA 91-143	467	39	-	-	-
GA 92-316	466	40	-	-	-
<i>Test Mean</i>	<i>554</i>				
<i>L.S.D. (.05)</i>	<i>66</i>				
<i>C.V.</i>	<i>9%</i>				

+Yields at Monroeville were reduced due to late planting date and dry conditions.

*Early season check varieties.

**Full season check varieties.

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 1997

Brand-variety	1997		Earliness	2-yr. av.	3-yr. av.
	Lint/Acre	Lint		Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	1,183	42	-	1,005	1,187
Suregrow 125*	1,149	40	-	983	1,144
Deltapine Acala 90**	1,129	38	-	944	1,132
Terra 292	1,322	42	-	997	1,090
Suregrow 501	950	41	-	895	1,075
Deltapine 51	985	38	-	848	1,040
Hartz H 1220	833	40	-	828	1,034
Suregrow 404	1,069	38	-	902	1,026
Deltapine DP 5409*	982	39	-	797	1,001
Suregrow 1001**	856	39	-	791	983
Terra 366	969	36	-	838	961
Stoneville 468	1,151	40	-	1,012	-
Stoneville X 47	1,050	41	-	916	-
Deltapine NuCotn 33B	996	39	-	830	-
Deltapine DP 5415	944	40	-	827	-
Paymaster PM1220RR	1,317	41	-	-	-
Paymaster PM1220BG	1,312	40	-	-	-
Paymaster PM1244BG/RR	1,289	39	-	-	-
Paymaster PM1220BG/RR	1,254	38	-	-	-
F'MAX 819	1,189	42	-	-	-
Paymaster PM1330BG/RR	1,186	36	-	-	-
Deltapine DP 5111	1,152	37	-	-	-
Deltapine DP 5305	1,135	41	-	-	-
Stoneville 373	1,131	41	-	-	-
Deltapine DP 32B	1,125	38	-	-	-
Deltapine DP 20B	1,055	38	-	-	-
Paymaster PM1215BG	1,006	36	-	-	-
Stoneville BG 4740	970	41	-	-	-
HyPerformer HYX 6101	925	38	-	-	-
Deltapine DP 5415 RR	922	40	-	-	-
Deltapine DP 50B	871	35	-	-	-
<i>Test Mean</i>	<i>1,078</i>				
<i>L.S.D. (.05)</i>	<i>193</i>				
<i>C.V.</i>	<i>13%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 1997

Brand-variety	1997			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,139	40	-	921	1,133
Hartz H 1560	1,097	42	-	889	1,098
HS 44	973	38	-	908	1,091
Deltapine Acala 90**	1,020	38	-	903	1,079
Suregrow 1001*	1,014	40	-	886	1,077
HS 46	934	39	-	824	1,025
Deltapine DP 5415	910	40	-	798	1,015
Deltapine DP 5409*	1,048	40	-	895	-
Deltapine NuCotn 35B	1,005	39	-	893	-
Deltapine NuCotn 33B	1,079	39	-	892	-
GA 92-161	1,064	40	-	887	-
GA 90-89	1,049	39	-	868	-
Deltapine 51	1,022	40	-	843	-
Paymaster PM1560BG	1,377	40	-	-	-
Deltapine DP 20B	1,195	37	-	-	-
F'MAX 989	1,140	40	-	-	-
Deltapine DP 90B	1,120	40	-	-	-
Deltapine DP 32B	1,119	41	-	-	-
F'MAX 832	1,115	41	-	-	-
Suregrow 821	1,106	40	-	-	-
Deltapine DP 5690RR	1,086	39	-	-	-
Deltapine DP 50B	1,047	35	-	-	-
Deltapine DP 5415 RR	1,034	41	-	-	-
Suregrow 248	1,023	40	-	-	-
GA 89-224	1,003	38	-	-	-
Deltapine DP 90RR	982	39	-	-	-
HyPerformer HYX 4103	977	39	-	-	-
Suregrow 180	940	37	-	-	-
Deltapine DP 5305	936	40	-	-	-
F'MAX 975	930	42	-	-	-
GA 91-143	894	38	-	-	-
GA 92-316	864	39	-	-	-
Test Mean	1,039				
L.S.D. (.05)	217				
C.V.	15%				

*Early season check varieties.

**Full season check varieties.

TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 1997

Brand-variety	1997			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	1,329	42	-	1,387	1,293
Suregrow 404	1,342	36	-	1,335	1,211
Deltapine DP 5409*	1,533	40	-	1,358	1,183
Deltapine 51	1,371	38	-	1,285	1,170
Suregrow 501	1,379	42	-	1,328	1,168
Suregrow 125*	1,314	39	-	1,270	1,158
Suregrow 1001**	1,413	39	-	1,296	1,129
Deltapine Acala 90**	1,538	41	-	1,284	1,104
Terra 366	1,287	37	-	1,185	1,073
Hartz H 1220	1,090	38	-	1,147	1,063
Terra 292	1,060	37	-	1,148	1,037
Stoneville X 47	1,339	41	-	1,340	-
Deltapine DP 5415	1,625	40	-	1,328	-
Deltapine NuCotn 33B	1,397	39	-	1,277	-
Stoneville 468	1,378	40	-	1,273	-
Deltapine DP 5305	1,553	44	-	-	-
Stoneville BG 4740	1,516	43	-	-	-
Stoneville 373	1,448	41	-	-	-
Deltapine DP 32B	1,441	39	-	-	-
Deltapine DP 5415 RR	1,386	41	-	-	-
Deltapine DP 20B	1,375	39	-	-	-
HyPerformer HYX 6101	1,364	38	-	-	-
Deltapine DP 5111	1,355	38	-	-	-
Paymaster PM1244BG/RR	1,342	39	-	-	-
Paymaster PM1220BG/RR	1,321	39	-	-	-
Paymaster PM1215BG	1,314	39	-	-	-
Paymaster PM1330BG/RR	1,291	39	-	-	-
Paymaster PM1220RR	1,246	38	-	-	-
F'MAX 819	1,232	41	-	-	-
Paymaster PM1220BG	1,229	39	-	-	-
Deltapine DP 50B	1,155	36	-	-	-
<i>Test Mean</i>	<i>1,354</i>				
<i>L.S.D. (.05)</i>	<i>206</i>				
<i>C.V.</i>	<i>11%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 1997

Brand-variety	1997			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 1001**	1,563	40	-	1,419	1,228
HS 44	1,431	39	-	1,340	1,213
Deltapine DP 5415	1,513	40	-	1,286	1,186
Hartz H 1560	1,463	40	-	1,353	1,167
Suregrow 125*	1,429	41	-	1,311	1,141
HS 46	1,424	40	-	1,289	1,130
Deltapine Acala 90**	1,500	40	-	1,279	1,094
Deltapine NuCotn 35B	1,569	40	-	1,391	-
GA 92-161	1,475	39	-	1,370	-
GA 90-89	1,364	38	-	1,271	-
Deltapine DP 5409*	1,494	40	-	1,239	-
Deltapine 51	1,387	37	-	1,221	-
Deltapine NuCotn 33B	1,413	39	-	1,179	-
Suregrow 248	1,547	43	-	-	-
Deltapine DP 5305	1,537	42	-	-	-
F'MAX 975	1,528	44	-	-	-
Deltapine DP 32B	1,522	39	-	-	-
Deltapine DP 90B	1,518	40	-	-	-
Suregrow 821	1,513	39	-	-	-
HyPerformer HYX 4103	1,490	40	-	-	-
Paymaster PM1560BG	1,485	41	-	-	-
Deltapine DP 5415 RR	1,448	40	-	-	-
Suregrow 180	1,401	39	-	-	-
Deltapine DP 5690RR	1,396	39	-	-	-
F'MAX 989	1,396	39	-	-	-
F'MAX 832	1,393	40	-	-	-
Deltapine DP 20B	1,341	40	-	-	-
GA 89-224	1,341	39	-	-	-
Deltapine DP 50B	1,266	34	-	-	-
Deltapine DP 90RR	1,233	38	-	-	-
GA 92-316	1,176	36	-	-	-
GA 91-143	1,156	39	-	-	-
<i>Test Mean</i>	<i>1,428</i>				
<i>L.S.D. (.05)</i>	<i>140</i>				
<i>C.V.</i>	<i>7%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 13. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS

Brand-variety	Yield, Lint/Acre			Lint			Earliness		
	1997	1996	1995	1997	1996	1995	1997	1996	1995
		-97	-97		-97	-97		-97	-97
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>
Stoneville 474	1,163	1,190	1,066	42	42	42	95	90	-
Suregrow 125*	1,128	1,155	1,023	40	40	40	92	90	-
Suregrow 501	1,108	1,123	992	41	41	41	88	85	-
Deltapine Acala 90**	1,147	1,109	980	39	39	39	86	84	-
Suregrow 404	1,075	1,104	971	38	38	38	90	87	-
Deltapine 51	1,083	1,081	971	38	38	38	86	84	-
Deltapine DP 5409*	1,138	1,103	970	40	40	40	93	89	-
Suregrow 1001**	1,091	1,087	960	39	39	39	86	83	-
Hartz H 1220	976	1,035	946	40	40	40	85	86	-
Terra 292	1,056	1,056	926	37	37	37	87	86	-
Terra 366	1,030	1,029	909	37	38	38	95	90	-
Stoneville 468	1,126	1,149	-	41	41	-	93	88	-
Stoneville X 47	1,078	1,118	-	41	41	-	94	90	-
Deltapine NuCotn 33B	1,069	1,074	-	38	39	-	92	88	-
Deltapine DP 5415	1,117	1,058	-	40	40	-	86	78	-
Stoneville 373	1,197	-	-	42	-	-	87	-	-
Deltapine DP 5305	1,187	-	-	42	-	-	85	-	-
Deltapine DP 32B	1,163	-	-	38	-	-	94	-	-
Paymaster PM1244BG/RR	1,158	-	-	39	-	-	89	-	-
Paymaster PM1220BG/RR	1,131	-	-	40	-	-	93	-	-
Deltapine DP 5111	1,122	-	-	38	-	-	97	-	-
Paymaster PM1220BG	1,120	-	-	40	-	-	90	-	-
Paymaster PM1220RR	1,099	-	-	40	-	-	86	-	-
Deltapine DP 20B	1,092	-	-	39	-	-	93	-	-
Paymaster PM1330BG/RR	1,087	-	-	38	-	-	93	-	-
F'MAX 819	1,060	-	-	42	-	-	95	-	-
Deltapine DP 5415 RR	1,032	-	-	40	-	-	84	-	-
HyPerformer HYX 6101	1,029	-	-	38	-	-	86	-	-
Paymaster PM1215BG	1,029	-	-	38	-	-	94	-	-
Stoneville BG 4740	1,013	-	-	42	-	-	92	-	-
Deltapine DP 50B	920	-	-	35	-	-	94	-	-
This variety at 2 locations only.									
Paymaster HS-26	870	983	813	36	37	38	87	85	-

*Early season check varieties.

**Full season check varieties.

TABLE 14. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS

Brand-variety	Yield, Lint/Acre			Lint			Earliness		
	1997	1996	1995	1997	1996	1995	1997	1996	1995
		-97	-97		-97	-97		-97	-97
	<i>Lb.</i>	<i>Lb.</i>	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Pct.</i>
Suregrow 125*	1,130	1,089	1,004	40	40	40	94	89	-
Hartz H 1560	1,106	1,066	979	41	40	40	95	89	-
HS 44	1,028	1,037	965	37	38	38	93	86	-
Deltapine Acala 90**	1,133	1,072	965	39	39	39	91	85	-
Suregrow 1001**	1,068	1,037	958	39	39	39	91	86	-
Deltapine DP 5415	1,090	1,001	944	39	39	40	88	79	-
Deltapine DP 5690	1,071	1,021	941	37	38	38	95	88	-
HS 46	1,049	1,026	940	39	39	39	95	87	-
Stoneville LA 887	985	983	921	38	39	39	95	89	-
Deltapine NuCotn 35B	1,107	1,070	-	38	38	-	93	87	-
Deltapine NuCotn 33B	1,135	1,062	-	39	39	-	93	89	-
GA 92-161	1,093	1,040	-	38	38	-	89	85	-
Deltapine 51	1,068	1,038	-	38	38	-	93	88	-
GA 90-89	1,049	1,027	-	38	38	-	90	85	-
Deltapine DP 5409*	1,099	1,021	-	39	39	-	94	90	-
Acala MAXXA	907	851	-	41	41	-	88	84	-
Paymaster PM1560BG	1,155	-	-	41	-	-	91	-	-
Deltapine DP 32B	1,129	-	-	39	-	-	95	-	-
Deltapine DP 5305	1,127	-	-	41	-	-	94	-	-
Suregrow 821	1,125	-	-	39	-	-	94	-	-
Deltapine DP 20B	1,121	-	-	39	-	-	95	-	-
F'MAX 989	1,104	-	-	40	-	-	95	-	-
Suregrow 248	1,093	-	-	40	-	-	88	-	-
HyPerformer HYX 4103	1,085	-	-	39	-	-	93	-	-
Deltapine DP 90B	1,082	-	-	38	-	-	95	-	-
Deltapine DP 5415 RR	1,080	-	-	40	-	-	89	-	-
Suregrow 180	1,080	-	-	38	-	-	96	-	-
F'MAX 975	1,073	-	-	41	-	-	93	-	-
Deltapine DP 5690RR	1,044	-	-	38	-	-	93	-	-
Deltapine DP 50B	1,034	-	-	34	-	-	94	-	-
GA 89-224	1,025	-	-	38	-	-	95	-	-
F'MAX 832	1,023	-	-	39	-	-	96	-	-
GA 92-316	944	-	-	38	-	-	91	-	-
GA 91-143	943	-	-	39	-	-	88	-	-
Deltapine DP 90RR	909	-	-	38	-	-	90	-	-
This variety at 2 locations only.									
KC 311	979	1,038	973	36	37	38	95	83	-

*Early season check varieties.

**Full season check varieties.

TABLE 15. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES AT BELLE MINA,
ALABAMA, 1997

Brand-variety	1997			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 404	1,240	38	84	1,377	1,205
Stoneville 474	1,325	44	86	1,423	1,144
Deltapine DP 5409*	1,216	40	81	1,328	1,115
Suregrow 125*	1,076	42	78	1,303	1,102
Suregrow 501	1,166	43	70	1,324	1,089
Deltapine Acala 90**	1,091	40	72	1,291	1,015
Deltapine NuCotn 33B	1,272	40	77	1,384	-
Suregrow 1001**	1,107	40	78	1,236	-
Deltapine DP 5415	1,254	41	64	-	-
Deltapine DP 32B	1,253	40	79	-	-
HyPerformer HYX 6101	1,211	40	72	-	-
Stoneville X 47	1,170	42	84	-	-
Paymaster PM1244BG/RR	1,130	40	72	-	-
Paymaster PM1220BG	1,039	38	78	-	-
Hartz H 1220	848	40	67	-	-
<i>Test Mean</i>	<i>1,160</i>				
<i>L.S.D. (.05)</i>	<i>140</i>				
<i>C.V.</i>	<i>8%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 16. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES AT BELLE MINA,
ALABAMA, 1997

Brand-variety	1997			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,299	40	76	1,406	1,226
Deltapine Acala 90**	1,221	39	71	1,221	1,025
HS 46	934	40	70	1,152	1,003
Deltapine DP 5415	1,133	41	68	1,135	984
Deltapine DP 5409*	1,240	39	79	1,397	-
Deltapine NuCotn 33B	1,322	38	70	1,365	-
Suregrow 1001**	1,046	38	67	1,095	-
Deltapine DP 32B	1,438	39	75	-	-
F'MAX 989	1,249	40	77	-	-
Deltapine NuCotn 35B	1,135	37	66	-	-
HyPerformer HYX 4103	1,075	39	62	-	-
F'MAX 832	979	39	80	-	-
Suregrow 248	823	40	58	-	-
<i>Test Mean</i>	<i>1,146</i>				
<i>L.S.D. (.05)</i>	<i>182</i>				
<i>C.V.</i>	<i>11%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 17. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES AT SHORTER, ALABAMA, 1997

Brand-variety	1997		Earliness	2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint			
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Stoneville 474	1,766	45	-	1,649	1,351
Suregrow 125*	1,570	43	-	1,508	1,329
Deltapine DP 5409*	1,730	41	-	1,519	1,301
Deltapine Acala 90**	1,632	41	-	1,496	1,263
Suregrow 501	1,635	43	-	1,512	1,259
Suregrow 404	1,523	40	-	1,469	1,243
Deltapine NuCotn 33B	1,547	40	-	1,474	-
Suregrow 1001**	1,551	41	-	1,451	-
Paymaster PM1244BG/RR	1,698	42	-	-	-
Paymaster PM1220BG	1,681	41	-	-	-
Deltapine DP 32B	1,592	41	-	-	-
Hartz H 1220	1,473	41	-	-	-
HyPerformer HYX 6101	1,456	41	-	-	-
Deltapine DP 5415	1,449	42	-	-	-
Stoneville X 47	1,433	44	-	-	-
<i>Test Mean</i>	<i>1,582</i>				
<i>L.S.D. (.05)</i>	<i>172</i>				
<i>C.V.</i>	<i>8%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 18. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES AT SHORTER, ALABAMA, 1997

Brand-variety	1997		Earliness	2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint			
	<i>Lb.</i>	<i>Pct.</i>	<i>Pct.</i>	<i>Lb.</i>	<i>Lb.</i>
Suregrow 125*	1,822	42	-	1,654	1,388
Deltapine Acala 90**	1,923	42	-	1,635	1,334
Deltapine DP 5415	1,580	42	-	1,520	1,301
HS 46	1,631	41	-	1,508	1,221
Deltapine NuCotn 33B	1,738	41	-	1,637	-
Deltapine DP 5409*	1,747	43	-	1,600	-
Suregrow 1001**	1,609	41	-	1,400	-
Deltapine DP 32B	1,732	41	-	-	-
F'MAX 989	1,681	41	-	-	-
F'MAX 832	1,563	40	-	-	-
HyPerformer HYX 4103	1,510	40	-	-	-
Deltapine NuCotn 35B	1,483	39	-	-	-
Suregrow 248	1,443	42	-	-	-
<i>Test Mean</i>	<i>1,651</i>				
<i>L.S.D. (.05)</i>	<i>289</i>				
<i>C.V.</i>	<i>12%</i>				

*Early season check varieties.

**Full season check varieties.

TABLE 19. COTTON FIBER ANALYSIS, HVI, BELLE MINA, ALABAMA, 1997

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<i>Units</i>	<i>In.</i>	<i>Pct.</i>	<i>g/tex</i>	<i>Pct.</i>
Early season					
AP HYX 6101	4.3	1.29	86	39.5	10.0
Deltapine 51	4.6	1.23	87	30.0	9.8
Deltapine DP 5111	5.0	1.17	88	34.5	8.8
Deltapine DP 5305	4.7	1.17	86	35.5	8.0
Deltapine DP 5409	3.8	1.22	84	33.0	10.2
Deltapine DP 5415	4.7	1.24	90	32.5	10.0
Deltapine DP 20 ^B	4.4	1.17	85	30.0	10.2
Deltapine DP 32 ^B	4.3	1.20	85	34.5	10.4
Deltapine DP 50 ^B	4.2	1.27	86	31.5	10.0
Deltapine NuCotn 33 ^B	4.2	1.23	86	33.5	9.4
Deltapine DP 5415 ^{RR}	4.2	1.20	83	35.5	10.6
F' Max 819	3.8	1.19	84	34.5	6.8
PM H 1220	4.2	1.17	84	34.0	9.2
PM 1215 ^{BG}	4.2	1.18	85	33.5	10.2
PM 1220 ^{BG}	4.1	1.14	82	33.0	9.8
PM H 1220 ^{RR}	4.7	1.15	89	33.0	10.2
PM 1220 ^{BG/RR}	4.7	1.13	87	30.0	9.2
PM 1244 ^{BG/RR}	4.3	1.12	86	33.5	9.6
PM 1330 ^{BG/RR}	4.4	1.20	85	33.5	9.2
Stoneville 373	3.9	1.19	86	31.0	8.4
Stoneville 468	4.4	1.17	85	33.0	10.4
Stoneville 474	3.9	1.18	86	35.0	9.0
Stoneville BXN 47	4.5	1.19	86	33.5	9.0
Stoneville BG 4740	3.7	1.19	84	35.0	9.2
Suregrow 125	4.2	1.23	86	34.5	9.8
Suregrow 404	4.2	1.20	86	38.0	10.0
Suregrow 501	4.4	1.21	87	37.5	10.4
Terra 292	3.9	1.20	82	32.0	10.2
Terra 366	4.3	1.21	86	30.5	8.4
Full season					
AP HYX 4103	4.4	1.24	86	36.5	9.4
Deltapine 51	4.5	1.22	86	29.0	10.0
Deltapine Acala 90	4.0	1.21	86	38.5	8.4
Deltapine DP 5305	4.8	1.20	88	32.5	7.8
Deltapine DP 5415	4.4	1.24	88	35.0	8.8
Deltapine DP 20 ^B	4.0	1.18	85	29.5	10.2
Deltapine DP 32 ^B	4.9	1.21	86	32.0	9.2
Deltapine DP 50 ^B	4.2	1.23	86	30.5	10.4
Deltapine DP 90 ^B	3.8	1.18	83	34.5	8.6
Deltapine NuCotn 33 ^B	4.3	1.22	84	35.0	10.0
Deltapine NuCotn 35 ^B	4.0	1.19	83	39.0	8.2
Deltapine DP 90 ^{RR}	3.9	1.16	85	36.0	8.6
Deltapine DP 5415 ^{RR}	4.2	1.21	86	35.0	9.8
Deltapine DP 5690 ^{RR}	4.1	1.19	85	37.0	8.8
F' Max 832	3.5	1.22	85	36.0	8.0
F' Max 975	4.2	1.26	86	35.5	6.6
F' Max 989	4.2	1.25	86	35.0	7.4
GA 90-89	4.4	1.16	87	35.0	6.8
GA 89-224	4.1	1.22	87	37.0	8.0
GA 91-143	4.1	1.28	89	38.5	7.6
GA 92-161	3.8	1.23	84	36.0	8.2
GA 92-316	4.7	1.25	86	37.5	8.0
HS 44	4.3	1.23	85	38.0	7.8
HS 46	4.1	1.23	84	37.0	8.2
PM H 1560	4.1	1.22	88	33.0	9.8
PM H 1560 ^{BG}	5.0	1.19	87	31.5	9.4
Suregrow 180	4.3	1.26	87	33.0	9.0
Suregrow 248	4.4	1.25	87	36.5	8.2
Suregrow 821	4.1	1.21	86	33.5	10.6
Suregrow 1001	3.8	1.21	84	35.5	9.6

TABLE 20. COTTON FIBER ANALYSIS, HVI, PRATTVILLE, ALABAMA, 1997

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<i>Units</i>	<i>In.</i>	<i>Pct.</i>	<i>g/tex</i>	<i>Pct.</i>
Early season					
AP HYX 6101	3.7	1.21	84	33.5	10.0
Deltapine 51	4.2	1.21	85	26.5	9.2
Deltapine DP 5111	4.7	1.15	86	30.0	9.4
Deltapine DP 5305	4.3	1.16	85	33.0	8.0
Deltapine DP 5409	4.2	1.15	83	30.5	9.2
Deltapine DP 5415	4.2	1.15	84	30.5	10.4
Deltapine DP 20 ^B	3.8	1.17	84	27.5	9.8
Deltapine DP 32 ^B	4.0	1.15	82	31.0	9.8
Deltapine DP 50 ^B	4.0	1.22	84	27.0	10.2
Deltapine NuCotn 33 ^B	4.1	1.16	84	31.5	9.0
Deltapine DP 5415 ^{RR}	4.6	1.14	86	31.5	10.4
F'Max 819	4.0	1.16	85	34.5	7.2
PM H 1220	4.1	1.14	85	31.5	10.4
PM 1215 ^{BG}	3.7	1.13	83	30.0	9.8
PM 1220 ^{BG}	3.6	1.12	84	27.0	10.6
PM H 1220 ^{RR}	4.2	1.13	85	32.5	10.6
PM 1220 ^{BG/RR}	3.8	1.10	86	28.5	9.4
PM 1244 ^{BG/RR}	4.2	1.13	85	30.5	8.8
PM 1330 ^{BG/RR}	3.7	1.18	84	28.0	9.6
Stoneville 373	4.2	1.19	86	27.5	9.0
Stoneville 468	4.0	1.13	86	29.0	9.4
Stoneville 474	4.4	1.13	86	26.0	8.6
Stoneville BXN 47	3.7	1.17	84	30.5	9.8
Stoneville BG 4740	4.3	1.14	83	29.0	9.0
Suregrow 125	4.6	1.15	86	29.0	10.2
Suregrow 404	4.4	1.14	85	34.0	10.0
Suregrow 501	4.8	1.15	87	31.5	10.0
Terra 292	4.1	1.17	84	27.5	10.0
Terra 366	4.2	1.15	83	24.0	8.8
Full season					
AP HYX 4103	3.9	1.19	87	34.0	9.6
Deltapine 51	4.0	1.18	84	30.5	9.0
Deltapine Acala 90	4.1	1.14	85	33.5	7.8
Deltapine DP 5305	4.4	1.16	84	33.5	7.6
Deltapine DP 5415	3.9	1.15	84	30.0	9.6
Deltapine DP 20 ^B	4.0	1.19	83	26.0	10.2
Deltapine DP 32 ^B	4.1	1.15	83	28.0	9.8
Deltapine DP 50 ^B	4.1	1.22	81	28.5	9.4
Deltapine DP 90 ^B	3.9	1.16	85	32.0	8.0
Deltapine NuCotn 33 ^B	3.8	1.13	82	29.0	9.6
Deltapine NuCotn 35 ^B	4.0	1.18	83	35.0	8.0
Deltapine DP 90 ^{RR}	4.0	1.10	82	33.0	8.6
Deltapine DP 5415 ^{RR}	4.1	1.17	82	33.0	10.4
Deltapine DP 5690 ^{RR}	3.8	1.15	81	34.5	7.6
F'Max 832	3.9	1.21	82	33.0	7.0
F'Max 975	3.8	1.22	86	29.0	6.8
F'Max 989	3.7	1.20	87	34.0	6.8
GA 90-89	4.3	1.15	87	31.5	6.8
GA 89-224	4.0	1.21	85	33.0	7.0
GA 91-143	3.5	1.22	86	37.5	6.8
GA 92-161	3.6	1.18	82	35.0	8.2
GA 92-316	3.5	1.15	86	33.5	8.0
HS 44	4.1	1.18	83	34.0	8.4
HS 46	3.6	1.18	85	33.0	8.0
PM H 1560	3.9	1.17	83	31.0	9.0
PM H 1560 ^{BG}	4.2	1.13	82	31.0	10.4
Suregrow 180	4.0	1.20	87	31.0	8.2
Suregrow 248	4.5	1.24	83	33.0	8.2
Suregrow 821	3.9	1.14	84	32.5	10.8
Suregrow 1001	4.1	1.18	83	33.0	7.8

TABLE 21. COTTON FIBER ANALYSIS, HVI, SHORTER, ALABAMA, 1997

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<i>Units</i>	<i>In.</i>	<i>Pct.</i>	<i>g/tex</i>	<i>Pct.</i>
Early season					
AP HYX 6101	4.1	1.21	85	35.0	9.6
Deltapine 51	4.5	1.16	86	27.5	9.0
Deltapine DP 5111	4.6	1.12	87	33.0	8.6
Deltapine DP 5305	4.7	1.13	87	29.5	8.4
Deltapine DP 5409	4.4	1.19	85	32.5	9.6
Deltapine DP 5415	4.6	1.13	83	31.0	9.2
Deltapine DP 20 ^B	4.6	1.13	85	27.0	10.6
Deltapine DP 32 ^B	4.3	1.10	84	30.0	9.6
Deltapine DP 50 ^B	4.8	1.15	85	27.0	9.6
Deltapine NuCotn 33 ^B	4.2	1.10	84	29.5	8.8
Deltapine DP 5415 ^{RR}	4.5	1.13	83	32.5	10.2
F'Max 819	4.6	1.15	88	29.5	6.4
PM H 1220	4.7	1.06	86	27.5	9.0
PM 1215 ^{BG}	4.5	1.13	86	30.0	10.0
PM 1220 ^{BG}	4.8	1.09	85	27.0	8.8
PM H 1220 ^{RR}	5.0	1.10	88	28.5	8.8
PM 1220 ^{BG/RR}	4.6	1.10	85	28.5	9.2
PM 1244 ^{BG/RR}	4.4	1.09	84	27.8	8.8
PM 1330 ^{BG/RR}	4.4	1.12	84	29.5	9.0
Stoneville 373	4.5	1.10	86	25.0	8.4
Stoneville 468	4.5	1.08	85	29.0	9.6
Stoneville 474	4.9	1.06	84	27.0	8.8
Stoneville BXN 47	4.7	1.13	87	30.5	9.0
Stoneville BG 4740	4.5	0.99	83	28.0	7.0
Suregrow 125	4.1	1.16	86	29.0	10.0
Suregrow 404	5.0	1.14	87	31.0	9.4
Suregrow 501	4.5	1.13	87	32.0	9.4
Terra 292	4.4	1.12	85	26.5	10.0
Terra 366	4.4	1.07	83	26.0	9.8
Full season					
No HVI data was taken due to the unreliable test.					

TABLE 22. COTTON FIBER ANALYSIS, HVI, MONROEVILLE, ALABAMA, 1997

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<i>Units</i>	<i>In.</i>	<i>Pct.</i>	<i>g/tex</i>	<i>Pct.</i>
Early season					
AP HYX 6101	3.5	1.08	82	32.5	8.8
Deltapine 51	3.6	1.05	81	27.0	8.4
Deltapine DP 5111	3.6	1.02	82	29.5	7.8
Deltapine DP 5305	3.8	1.00	81	30.0	6.4
Deltapine DP 5409	3.4	1.05	82	29.0	8.8
Deltapine DP 5415	3.6	1.06	83	29.0	9.2
Deltapine DP 20 ^B	3.9	1.02	84	26.0	9.0
Deltapine DP 32 ^B	3.5	1.08	82	29.0	8.6
Deltapine DP 50 ^B	3.7	1.10	83	26.5	8.8
Deltapine NuCotn 33 ^B	3.7	1.04	81	28.0	8.8
Deltapine DP 5415 ^{RR}	4.0	1.07	82	30.0	9.4
F' Max 819	3.8	1.09	82	32.5	7.0
PM H 1220	4.0	1.06	83	31.5	8.6
PM 1215 ^{BG}	3.7	1.09	83	31.0	8.8
PM 1220 ^{BG}	3.6	1.06	86	29.0	8.8
PM H 1220 ^{RR}	3.9	1.02	83	33.0	9.6
PM 1220 ^{BG/RR}	3.8	1.01	84	31.0	9.0
PM 1244 ^{BG/RR}	4.2	1.00	83	29.0	8.2
PM 1330 ^{BG/RR}	3.5	1.03	82	27.5	7.8
Stoneville 373	3.7	1.07	82	27.5	8.2
Stoneville 468	3.5	1.00	81	29.5	9.8
Stoneville 474	4.2	1.04	85	27.5	9.4
Stoneville BXN 47	4.0	1.02	83	25.5	8.2
Stoneville BG 4740	4.5	0.99	83	28.0	7.0
Suregrow 125	3.5	1.07	83	28.0	10.0
Suregrow 404	3.6	1.05	82	32.0	8.0
Suregrow 501	3.9	1.04	83	31.5	9.2
Terra 292	3.6	1.05	82	26.0	8.8
Terra 366	3.5	1.05	81	25.0	7.0
Full season					
AP HYX 4103	3.7	1.12	82	34.0	8.4
Deltapine 51	3.3	1.06	81	28.5	9.4
Deltapine Acala 90	3.5	1.05	83	35.0	7.8
Deltapine DP 5305	4.1	1.07	84	30.5	7.4
Deltapine DP 5415	4.2	1.05	82	31.0	9.0
Deltapine DP 20 ^B	4.0	1.08	82	26.0	9.0
Deltapine DP 32 ^B	3.9	1.02	82	28.5	8.8
Deltapine DP 50 ^B	3.8	1.11	84	29.0	8.8
Deltapine DP 90 ^B	3.7	1.05	83	35.5	7.2
Deltapine NuCotn 33 ^B	3.6	1.08	80	30.5	8.8
Deltapine NuCotn 35 ^B	3.5	1.09	82	34.5	7.6
Deltapine DP 90 ^{RR}	3.6	1.04	83	34.0	8.0
Deltapine DP 5415 ^{RR}	3.6	1.11	83	31.0	9.8
Deltapine DP 5690 ^{RR}	3.6	1.06	82	35.5	7.8
F' Max 832	3.6	1.16	84	32.5	6.4
F' Max 975	3.7	1.08	82	31.5	5.8
F' Max 989	3.6	1.07	81	34.5	6.6
GA 90-89	3.5	1.05	83	35.5	6.2
GA 89-224	3.0	1.07	84	31.0	7.2
GA 91-143	3.6	1.10	82	35.5	7.4
GA 92-161	3.6	1.13	84	34.0	8.0
GA 92-316	3.4	1.05	82	32.5	8.4
HS 44	4.2	1.05	82	31.0	7.6
HS 46	3.3	1.04	83	35.0	8.4
PM H 1560	4.0	1.06	83	32.0	8.6
PM H 1560 ^{BG}	3.7	1.03	83	31.5	8.6
Suregrow 180	3.5	1.06	83	32.5	8.4
Suregrow 248	4.1	1.13	85	31.0	6.8
Suregrow 821	3.2	1.08	81	33.5	10.2
Suregrow 1001	3.6	1.08	82	37.5	8.2

TABLE 23. COTTON FIBER ANALYSIS, HVI, HEADLAND, ALABAMA, 1997

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<i>Units</i>	<i>In.</i>	<i>Pct.</i>	<i>g/tex</i>	<i>Pct.</i>
Early season					
AP HYX 6101	3.7	1.12	84	34.0	7.6
Deltapine 51	4.4	1.14	83	28.0	8.2
Deltapine DP 5111	4.4	1.07	85	30.5	7.6
Deltapine DP 5305	4.4	1.07	84	28.0	5.6
Deltapine DP 5409	4.1	1.12	83	29.0	8.4
Deltapine DP 5415	4.6	1.06	83	26.5	8.2
Deltapine DP 20 ^B	3.6	1.11	82	26.0	9.2
Deltapine DP 32 ^B	3.7	1.06	82	25.5	8.4
Deltapine DP 50 ^B	3.3	1.04	83	25.5	8.0
Deltapine NuCotn 33 ^B	4.0	1.07	83	29.0	6.8
Deltapine DP 5415 ^{RR}	4.4	1.07	83	29.0	9.6
F'Max 819	3.9	1.17	86	26.0	6.2
PM H 1220	4.5	1.06	84	29.0	8.6
PM 1215 ^{BG}	3.5	1.13	83	28.0	9.2
PM 1220 ^{BG}	4.5	1.09	84	24.0	8.0
PM 1220 ^{RR}	4.5	1.04	86	25.5	8.0
PM 1220 ^{BG/RR}	4.2	1.06	84	27.5	8.2
PM 1244 ^{BG/RR}	3.9	1.07	85	25.5	8.0
PM 1330 ^{BG/RR}	3.3	1.11	83	25.5	6.8
Stoneville 373	4.0	1.12	83	24.5	7.4
Stoneville 468	3.9	1.09	84	26.0	8.0
Stoneville 474	4.2	1.07	84	26.5	8.0
Stoneville BXN 47	4.3	1.07	86	28.5	8.8
Stoneville BG 4740	4.2	1.11	83	26.0	7.4
Suregrow 125	3.7	1.08	81	24.5	9.0
Suregrow 404	4.3	1.11	83	29.5	8.2
Suregrow 501	3.9	1.11	86	32.5	8.6
Terra 292	4.5	1.11	86	24.0	8.2
Terra 366	3.9	1.13	83	25.0	8.0
Full season					
AP HYX 4103	4.3	1.07	84	27.0	7.0
Deltapine 51	4.6	1.10	82	25.0	8.2
Deltapine Acala 90	4.5	1.06	83	31.0	7.2
Deltapine DP 5305	4.6	1.13	84	29.0	7.4
Deltapine DP 5415	4.6	1.07	84	27.0	8.0
Deltapine DP 20 ^B	4.0	1.09	84	24.5	9.2
Deltapine DP 32 ^B	4.2	1.09	84	25.0	8.2
Deltapine DP 50 ^B	4.2	1.12	83	25.0	8.2
Deltapine DP 90 ^B	3.8	1.10	81	29.0	6.8
Deltapine NuCotn 33 ^B	4.7	1.11	84	28.0	8.4
Deltapine NuCotn 35 ^B	4.1	1.09	83	30.0	6.0
Deltapine DP 90 ^{RR}	4.2	1.03	84	30.5	7.2
Deltapine DP 5415 ^{RR}	4.7	1.11	84	27.5	9.0
Deltapine DP 5690 ^{RR}	4.2	1.09	83	31.0	6.8
F'Max 832	4.0	1.19	84	31.0	6.0
F'Max 975	4.2	1.13	82	29.5	5.8
F'Max 989	3.4	1.12	83	33.0	6.4
GA 90-89	4.1	1.14	86	32.0	5.8
GA 89-224	4.4	1.14	84	31.0	6.4
GA 91-143	3.8	1.05	83	31.0	6.0
GA 92-161	4.1	1.15	83	30.5	7.0
GA 92-316	4.5	1.07	83	31.0	7.8
HS 44	4.6	1.11	82	31.0	6.6
HS 46	4.3	1.09	83	28.0	7.4
PM H 1560	4.2	1.10	81	28.5	8.0
PM H 1560 ^{BG}	3.9	1.11	82	28.0	9.0
Suregrow 180	4.3	1.11	83	30.0	6.8
Suregrow 248	4.6	1.12	83	24.5	7.2
Suregrow 821	4.1	1.14	83	29.0	9.4
Suregrow 1001	4.4	1.10	84	29.0	6.4

TABLE 24. COTTON FIBER ANALYSIS, HVI, FAIRHOPE, ALABAMA, 1997

Brand-variety	Micronaire <i>Units</i>	Length <i>In.</i>	Uniformity <i>Pct.</i>	Strength <i>g/tex</i>	Elongation <i>Pct.</i>
Early season					
AP HYX 6101	4.4	1.16	83	31.0	8.8
Deltapine 51	4.1	1.16	82	25.5	8.8
Deltapine DP 5111	4.7	1.13	85	32.0	7.4
Deltapine DP 5305	4.3	1.11	86	29.0	7.4
Deltapine DP 5409	4.2	1.14	80	27.0	9.4
Deltapine DP 5415	4.7	1.12	83	29.5	8.8
Deltapine DP 20 ^B	4.3	1.12	82	26.5	10.4
Deltapine DP 32 ^B	4.1	1.11	83	27.0	9.8
Deltapine DP 50 ^B	4.0	1.17	82	24.0	9.8
Deltapine NuCotn 33 ^B	4.3	1.13	83	28.0	9.2
Deltapine DP 5415 ^{RR}	4.5	1.07	84	28.0	10.0
F'Max 819	4.5	1.16	84	30.0	6.0
PM H 1220	4.1	1.08	84	29.0	9.8
PM 1215 ^{BG}	4.6	1.11	85	29.0	8.6
PM 1220 ^{BG}	4.2	1.11	83	26.0	9.6
PM H 1220 ^{RR}	4.3	1.08	86	28.0	9.2
PM 1220 ^{BG/RR}	4.4	1.09	84	27.0	9.6
PM 1244 ^{BG/RR}	4.2	1.07	84	28.5	9.0
PM 1330 ^{BG/RR}	4.2	1.12	82	27.5	7.8
Stoneville 373	4.4	1.11	83	24.5	8.2
Stoneville 468	4.1	1.09	85	28.5	9.2
Stoneville 474	4.8	1.11	87	27.0	9.0
Stoneville BXN 47	4.4	1.12	83	27.5	8.6
Stoneville BG 4740	5.0	1.12	86	26.5	9.4
Suregrow 125	4.8	1.15	86	26.5	10.0
Suregrow 404	4.4	1.09	84	30.0	9.2
Suregrow 501	4.3	1.11	87	31.0	9.0
Terra 292	4.3	1.15	83	26.0	9.4
Terra 366	4.2	1.13	84	24.0	8.2
Full season					
AP HYX 4103	4.3	1.10	84	29.5	7.8
Deltapine 51	4.2	1.16	83	24.5	9.0
Deltapine Acala 90	3.8	1.11	83	32.0	7.8
Deltapine DP 5305	4.8	1.12	84	25.5	7.2
Deltapine DP 5415	4.3	1.12	83	27.5	8.8
Deltapine DP 20 ^B	4.2	1.15	85	23.5	10.0
Deltapine DP 32 ^B	3.6	1.10	81	30.5	9.8
Deltapine DP 50 ^B	4.0	1.21	85	28.5	10.0
Deltapine DP 90 ^B	4.5	1.12	83	29.0	6.6
Deltapine NuCotn 33 ^B	4.1	1.12	82	30.0	8.4
Deltapine NuCotn 35 ^B	4.3	1.14	85	28.0	8.2
Deltapine DP 90 ^{RR}	4.2	1.10	82	33.0	7.4
Deltapine DP 5415 ^{RR}	4.4	1.10	83	29.5	9.6
Deltapine DP 5690 ^{RR}	4.4	1.12	86	31.0	6.8
F'Max 832	3.7	1.20	83	30.5	6.6
F'Max 975	4.0	1.18	83	29.0	5.8
F'Max 989	4.3	1.14	83	32.0	6.4
GA 90-89	4.0	1.15	85	29.5	7.4
GA 89-224	3.8	1.17	83	32.5	6.6
GA 91-143	4.2	1.17	84	34.0	6.6
GA 92-161	4.7	1.20	85	33.5	7.6
GA 92-316	4.6	1.15	86	32.0	7.8
HS 44	4.8	1.14	83	28.5	6.8
HS 46	4.4	1.16	82	29.0	7.8
PM H 1560	4.1	1.17	85	28.5	9.2
PM H 1560 ^{BG}	4.6	1.11	87	27.0	9.4
Suregrow 180	4.1	1.16	84	30.5	7.6
Suregrow 248	4.7	1.19	84	31.5	7.6
Suregrow 821	4.4	1.12	83	28.0	8.6
Suregrow 1001	4.6	1.10	82	31.0	8.0

TABLE 25. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, BELLE MINA, ALABAMA, 1997

Brand-variety	Micronaire <i>Units</i>	Length <i>In.</i>	Uniformity <i>Pct.</i>	Strength <i>g/tex</i>	Elongation <i>Pct.</i>
Early season					
AP HYX 6101	4.3	1.23	85	33.0	9.0
Deltapine DP 5409	3.7	1.19	83	29.5	9.8
Deltapine DP 5415	4.6	1.19	87	27.5	9.4
Deltapine DP 32 ^B	4.2	1.17	85	27.5	10.4
Deltapine NuCotn 33 ^B	4.4	1.17	85	27.5	9.6
PM H 1220	4.9	1.14	86	28.0	10.6
PM H 1220 ^{BG}	4.1	1.12	84	26.5	10.4
PM H 1244 ^{BG/RR}	4.4	1.12	87	30.0	9.2
Stoneville 474	4.4	1.15	86	28.5	9.0
Stoneville BXN 47	4.1	1.16	85	29.5	9.2
Suregrow 125	4.2	1.18	85	28.0	9.6
Suregrow 404	4.5	1.21	87	31.5	9.4
Suregrow 501	4.5	1.17	88	30.5	9.2
Full season					
AP HYX 4103	4.6	1.23	86	31.5	7.6
Deltapine Acala 90	4.4	1.17	83	34.0	8.2
Deltapine DP 5415	4.4	1.21	84	31.5	9.2
Deltapine DP 32 ^B	4.2	1.18	87	30.5	10.0
Deltapine NuCotn 33 ^B	4.3	1.17	85	30.5	10.0
Deltapine NuCotn 35 ^B	4.4	1.21	85	31.5	7.6
F'Max 832	3.4	1.21	83	30.5	8.2
F'Max 989	4.0	1.18	84	33.0	7.4
HS 46	4.2	1.20	84	32.5	8.2
Suregrow 248	4.8	1.27	87	29.5	8.4
Suregrow 1001	4.3	1.19	85	33.5	8.2

TABLE 26. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, SHORTER, ALABAMA, 1997

Brand-variety	Micronaire <i>Units</i>	Length <i>In.</i>	Uniformity <i>Pct.</i>	Strength <i>g/tex</i>	Elongation <i>Pct.</i>
Early season					
AP HYX 6101	4.2	1.14	83	31.5	9.2
Deltapine DP 5409	3.9	1.10	81	28.0	8.8
Deltapine DP 5415	4.4	1.10	82	29.0	9.0
Deltapine DP 32 ^B	4.0	1.08	82	29.5	9.2
Deltapine NuCotn 33 ^B	4.0	1.11	82	27.5	9.0
PM H 1220	4.5	1.11	85	30.5	9.6
PM H 1220 ^{BG}	4.0	1.10	85	26.0	9.6
PM H 1244 ^{BG/RR}	4.4	1.06	81	28.5	8.8
Stoneville 474	4.3	1.06	84	26.5	8.4
Stoneville BXN 47	4.3	1.04	83	25.0	8.8
Suregrow 125	4.1	1.13	85	29.5	10.0
Suregrow 404	4.2	1.06	84	30.0	8.6
Suregrow 501	4.1	1.08	85	31.0	9.4
Full season					
AP HYX 4103	4.3	1.11	83	30.0	8.4
Deltapine Acala 90	4.4	1.09	82	31.5	7.4
Deltapine DP 5415	4.4	1.15	83	29.5	9.4
Deltapine DP 32 ^B	4.4	1.11	83	26.0	9.2
Deltapine NuCotn 33 ^B	3.7	1.08	82	29.0	8.8
Deltapine NuCotn 35 ^B	3.8	1.16	83	31.0	7.4
F'Max 832	4.1	1.16	84	32.0	7.2
F'Max 989	3.9	1.17	84	31.0	7.2
HS 46	4.0	1.15	82	30.0	6.8
Suregrow 248	4.4	1.18	83	31.0	7.6
Suregrow 1001	4.1	1.13	82	32.0	7.6

TABLE 27. GROWING SEASON RAINFALL, 1995-97

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	1997	5.4	4.0	3.6	6.5	1.7	4.0	5.9	31.1
	1996	7.1	5.5	1.7	3.3	4.3	4.7	8.1	34.7
	1995	3.6	4.8	1.8	2.7	2.9	3.7	7.6	27.1
Shorter	1997	2.7	6.8	3.5	5.5	2.4	3.9	3.3	28.1
	1996	8.6	4.6	4.4	2.4	8.9	6.4	7.4	42.7
	1995	4.6	4.2	1.2	1.8	1.5	1.9	6.3	21.5
Prattville	1997	3.0	5.9	3.3	6.8	3.0	3.4	2.2	27.6
	1996	11.1	3.6	5.1	3.3	8.0	7.3	7.4	45.8
	1995	3.9	4.3	1.9	2.2	1.4	2.3	2.8	18.8
Monroeville	1997	2.5	6.0	7.6	5.5	2.7	1.6	0.8	26.7
	1996	7.8	5.7	2.3	4.1	4.7	5.5	7.2	37.3
	1995	4.2	5.1	4.4	1.0	7.4	10.2	0.8	33.1
Fairhope	1997	3.8	6.3	8.0	5.9	28.6	1.3	1.3	55.2
	1996	10.2	11.7	0.5	7.4	6.6	6.0	7.7	50.1
	1995	10.0	6.7	6.0	4.5	8.7	9.6	3.1	48.6
Headland	1997	2.8	6.4	4.2	7.9	5.6	2.4	3.7	33.0
	1996	6.9	4.7	2.2	2.9	3.6	13.1	11.6	45.0
	1995	5.2	4.5	2.8	3.8	5.3	5.2	1.7	28.5

TABLE 28. SOIL TYPES FOR COTTON TRIALS, 1997

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

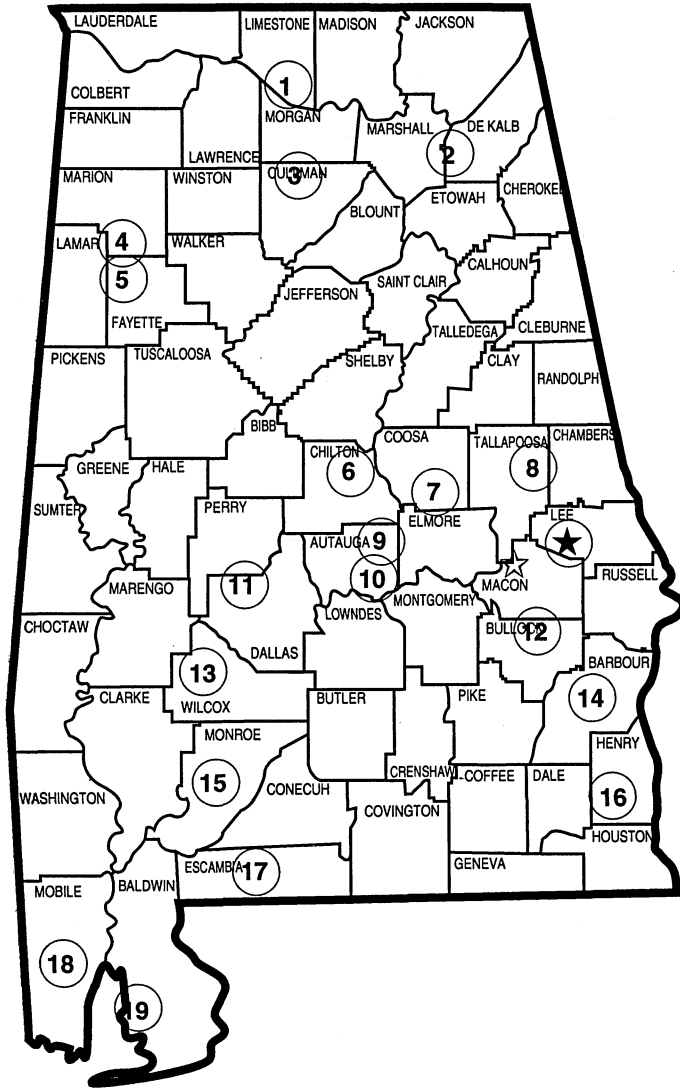
TABLE 29. SOURCES OF SEED FOR THE 1997 COTTON VARIETY TRIALS

Brand-variety	Brand-variety	Company
Deltapine 51	Deltapine DP 20 ^B	Delta and Pine Land Co.
Deltapine Acala 90	Deltapine DP 32 ^B	Scott, Mississippi
Deltapine DP 5111	Deltapine DP 50 ^B	
Deltapine DP 5305	Deltapine DP 90 ^B	
Deltapine DP 5409	Deltapine NuCotn 33 ^B	
Deltapine DP 5415	Deltapine NuCotn 35 ^B	
Deltapine DP 5690		
Deltapine DP 90 ^{RR}		
Deltapine DP 5415 ^{RR}		
Deltapine DP 5690 ^{RR}		
Stoneville 474	Stoneville LA 887	Stoneville Pedigreed Seed Co
Stoneville BXN 47	KC 311	Stoneville, Mississippi
Stoneville BG 4740		
Stoneville 468 (formerly 3M002)		
Stoneville 373		
Terra 366	Terra International, Inc.	
Terra 292	Memphis, Tennessee	
AgriPro HS 46	AgriPro HYX 6101	AgriPro Seed Co.
AgriPro HS 44	AgriPro HYX 4103	Memphis, Tennessee
Suregrow 1001	Suregrow 821	Sure Grow Seed, Inc.
Suregrow 501	Suregrow 248	Centre, Alabama
Suregrow 404	Suregrow 180	
Suregrow 125		
Paymaster HS 26		Cargill Hybrid Seed Aiken, Texas
Acala MAXXA		New Mexico State University Las Cruces, New Mexico
H 1220	PM H 1220 ^{RR}	Paymaster Cottonseed
H 1560	PM H 1220 ^{BG/RR}	Stuttgart, Arkansas
PM H 1215 ^{BG}	PM H 1244 ^{BG/RR}	
PM H 1220 ^{BG}	PM H 1330 ^{BG/RR}	
PM H 1560 ^{BG}		
GA 89-224	GA 92-161	University of Georgia
GA 91-143	GA 90-89	Tifton, Georgia
GA 92-316		
F' Max 963	F' Max 819	AgriEvo Cotton Seed, Inc.
F' Max 975	F' Max 832	Memphis, Tennessee
F' Max 989		

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1. Tennessee Valley Substation,
Belle Mina.
2. Sand Mountain Substation,
Crossville.
3. North Alabama Horticulture Substation,
Cullman.
4. Upper Coastal Plain Substation,
Winfield.
5. Forestry Unit, Fayette County.
6. Chilton Area Horticulture Substation,
Clanton.
7. Forestry Unit, Coosa County.
8. Piedmont Substation,
Camp Hill.
9. Forestry Unit, Autauga County.
10. Prattville Experiment Field,
Prattville.
11. Black Belt Substation,
Marion Junction.
12. The Turnipseed-Ikenberry Place,
Union Springs.
13. Lower Coastal Plain Substation,
Camden.
14. Forestry Unit, Barbour County.
15. Monroeville Experiment Field,
Monroeville.
16. Wiregrass Substation,
Headland.
17. Brewton Experiment Field,
Brewton.
18. Ornamental Horticulture Substation,
Spring Hill.
19. Gulf Coast Substation,
Fairhope.