



# 1996 ALABAMA COTTON VARIETY REPORT

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James E. Marion, Director  
Auburn University  
Auburn University, Alabama





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*Information contained herein is available to all persons regardless of race, color, sex, or national origin.*

# 1996 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<sup>1</sup>

## 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 Service 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 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, rainfall and yield were good. At Fairhope, the full season test was not uniform due to wet conditions creating a poor stand. Yields may have been slightly reduced due to the poor stand of the first planting. All locations had light infestations of bollworm and budworm.

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<sup>1</sup>Research Assistant, Assistant Professor, Extension Agronomist, and Professor of Agronomy and Soils.

## EXPLANATION OF DATA

### Harvest of Seed Cotton

Tests at Belle Mina, Shorter, Headland and Fairhpe were harvested by a mechanical spindle picker. The tests at Prattville and Monroeville were 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 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.

### 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 1996, root-knot nematode damage was unusually light on cotton roots of all varieties. Cooler than normal temperatures in the early fall and early spring may have reduced root-knot nematode populations and there was little incidence of Fusarium wilt. For this reason, the Fusarium wilt data is not reported.

### 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.<sub>.05</sub>)

### LOCATIONS OF EXPERIMENTS

Tennessee Valley Substation .....	B.E. Norris, Acting Supt. H.E. Burgess
Prattville Experiment Field .....	D.P. Moore, Supt.
E.V. Smith Research Center .....	J.S. Bannon, Dir.
Field Crops Research Unit, Shorter .....	D.R. Williamson, Supt.
Monroeville Experiment Field .....	J.R. Akridge, Supt.
Wiregrass Substation, Headland .....	L.N. Wells, Acting Supt. B.E. Gamble
Gulf Coast Substation, Fairhope .....	E.L. Carden, Supt. N.R. McDaniel, 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, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville 474	1,345	43	83	1,046	1,122
Suregrow 125*	1,254	42	87	1,005	1,110
Suregrow 501	1,233	42	77	994	1,100
Hartz H 1215	1,148	42	88	958	1,070
DES 119	1,190	42	81	928	1,061
Suregrow 404	1,207	40	81	895	1,050
Deltapine 51	1,297	41	82	979	1,038
Deltapine 20	1,165	39	85	930	1,010
Suregrow 1001**	1,101	40	80	898	996
Hartz Var H 1244	1,029	41	82	885	990
Hartz H 1220	1,029	40	86	897	988
Terra 366	1,116	39	85	879	987
Deltapine DP 5409*	1,115	39	83	839	967
Deltapine Acala 90**	1,084	38	81	893	965
Deltapine 50	1,070	37	86	862	957
Terra 292	1,085	37	86	820	951
HS 23	853	38	77	723	899
Terra 302	934	41	72	756	887
Paymaster HS-26	1,034	37	83	778	885
Stoneville 3M002	1,240	43	81	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,212	40	82	-	-
Stoneville X 47	1,194	42	88	-	-
Hartz HX 6204	1,155	39	78	-	-
Stoneville X 470	1,135	39	76	-	-
Deltapine DP 5415	976	40	63	-	-
Test Mean	1,128				
L.S.D. (.05)	110				
C.V.	7%				

\*Early season check variety.

\*\*Full season check variety.



Table 2. Performance of Full Season Cotton Varieties at Belle Mina,  
Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,323	41	81	1,080	1,160
Stoneville LA 887	1,211	41	80	990	1,095
HS 44	1,228	38	74	1,009	1,084
KC 311	1,097	38	71	970	1,065
Suregrow 1001**	1,111	39	77	969	1,043
Deltapine DP 5690	1,158	39	79	986	1,040
Deltapine Acala 90**	1,211	40	78	983	1,025
Georgia King	1,089	41	73	910	1,022
Deltapine DP 5415	920	40	59	857	991
HS 46	1,010	40	70	866	972
Hartz H 1560	1,228	41	77	991	-
Deltapine NuCotn 33 <sup>B</sup>	1,312	40	80	-	-
GA 90-89	1,253	39	77	-	-
Deltapine 51	1,232	39	81	-	-
GA 91-227	1,133	37	76	-	-
Deltapine NuCotn 35 <sup>B</sup>	1,118	38	71	-	-
Deltapine DP 5409*	1,071	39	82	-	-
GA 92-161	1,028	37	73	-	-
Acala MAXXA	796	41	80	-	-
Test Mean	1,133				
L.S.D. (.05)	106				
C.V.	7%				

\*Early season check variety.

\*\*Full season check variety.

Table 3. Performance of Early Season Cotton Varieties at Prattville,  
Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,107	40	87	726	937
Stoneville 474	1,191	42	85	765	927
Deltapine Acala 90**	1,088	39	81	685	906
Suregrow 404	1,032	37	87	669	906
Suregrow 501	1,050	39	85	695	906
Deltapine DP 5409*	1,015	39	87	697	901
Suregrow 1001**	1,006	37	80	672	860
Terra 302	1,023	39	83	675	855
Hartz H 1220	1,072	39	89	692	853
Deltapine 20	1,021	38	82	648	843
Deltapine 51	963	36	82	650	841
DES 119	1,035	39	83	667	838
Terra 292	1,000	37	83	672	836
Terra 366	974	37	84	638	822
Hartz H 1215	953	39	90	665	817
Deltapine 50	973	38	83	646	814
Hartz Var H 1244	854	38	89	594	809
HS 23	915	38	81	594	776
Stoneville 3M002	1,113	40	84	-	-
Stoneville X 47	1,075	39	84	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,035	38	84	-	-
Hartz HX 6204	987	40	89	-	-
Stoneville X 470	940	38	83	-	-
Deltapine DP 5415	865	38	75	-	-
Test Mean	1,012				
L.S.D. (.05)	100				
C.V.	7%				

\*Early season check variety.

\*\*Full season check variety.

Table 4. Performance of Full Season Cotton Varieties at Prattville,  
Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,126	40	87	690	913
HS 46	1,071	40	86	628	893
Deltapine DP 5690	990	38	83	596	866
HS 44	1,018	38	83	611	850
Stoneville LA 887	1,006	40	85	618	847
Deltapine Acala 90**	979	39	81	596	847
Deltapine DP 5415	942	38	79	582	844
Suregrow 1001**	974	38	84	593	807
Hartz H 1560	990	38	87	600	-
Deltapine NuCotn 35 <sup>B</sup>	1,070	38	89	-	-
Deltapine 51	1,035	38	86	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,021	37	88	-	-
Deltapine DP 5409*	1,019	38	90	-	-
GA 90-89	971	36	84	-	-
GA 92-161	945	37	87	-	-
GA 91-227	941	36	79	-	-
Test Mean	1,006				
L.S.D. (.05)	92				
C.V.	6%				

\*Early season check variety.

\*\*Full season check variety.

Table 5. Performance of Early Season Cotton Varieties at Shorter, Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,600	42	-	1,044	1,112
Hartz Var H 1244	1,509	41	-	1,027	1,092
Deltapine DP 5409*	1,470	41	-	959	1,052
Deltapine 20	1,425	38	-	967	1,013
Suregrow 404	1,452	39	-	922	998
Deltapine 51	1,406	39	-	929	990
Hartz H 1220	1,411	40	-	960	988
Hartz H 1215	1,442	39	-	980	988
Stoneville 474	1,436	42	-	913	987
Suregrow 501	1,506	41	-	968	976
Terra 302	1,384	40	-	908	967
Deltapine Acala 90**	1,473	39	-	975	949
Terra 366	1,415	40	-	896	948
DES 119	1,300	39	-	862	935
Deltapine 50	1,407	37	-	910	928
Suregrow 1001**	1,478	40	-	953	917
HS 23	1,327	39	-	845	862
Terra 292	1,415	38	-	915	857
Paymaster HS-26	1,157	38	-	790	750
Hartz HX 6204	1,525	41	-	-	-
Stoneville 3M002	1,512	43	-	-	-
Stoneville X 47	1,499	41	-	-	-
Stoneville X 470	1,462	41	-	-	-
Deltapine DP 5415	1,423	40	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,407	38	-	-	-
Test Mean	1,434				
L.S.D. (.05)	153				
C.V.	8%				

\*Early season check variety.

\*\*Full season check variety.



Table 6. Performance of Full Season Cotton Varieties at Shorter, Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.		
Suregrow 125*	1,472	41	-	932	1,038
Stoneville LA 887	1,514	41	-	977	1,034
HS 46	1,403	41	-	880	938
Deltapine DP 5690	1,406	40	-	916	908
Deltapine Acala 90**	1,406	40	-	907	904
HS 44	1,309	40	-	882	900
KC 311	1,389	40	-	897	890
Deltapine DP 5415	1,215	41	-	804	883
Suregrow 1001**	1,347	40	-	888	874
Georgia King	1,456	40	-	912	874
Hartz H 1560	1,466	42	-	918	-
Deltapine NuCotn 33 <sup>B</sup>	1,378	38	-	-	-
GA 92-161	1,368	40	-	-	-
Deltapine DP 5409*	1,360	40	-	-	-
Deltapine NuCotn 35 <sup>B</sup>	1,349	39	-	-	-
GA 91-227	1,331	38	-	-	-
GA 90-89	1,295	38	-	-	-
Deltapine 51	1,266	39	-	-	-
Acala MAXXA	897	40	-	-	-
Test Mean	1,349				
L.S.D. (.05)	179				
C.V.	9%				

\*Early season check variety.

\*\*Full season check variety.

Table 7. Performance of Early Season Cotton Varieties at Monroeville,  
Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville 474	1,058	43	-	921	968
DES 119	1,094	39	-	875	940
Deltapine 51	898	37	-	792	931
Suregrow 501	920	41	-	744	926
Suregrow 404	1,044	38	-	880	921
Hartz H 1220	1,031	39	-	852	907
Deltapine Acala 90**	998	40	-	803	897
Suregrow 1001**	1,008	38	-	812	887
Hartz Var H 1244	1,001	40	-	820	880
Deltapine 50	950	37	-	797	876
Suregrow 125*	1,086	40	-	831	874
Deltapine 20	977	39	-	822	848
Terra 292	925	36	-	763	845
Deltapine DP 5409*	1,011	39	-	800	844
Terra 366	866	36	-	750	831
HS 23	804	35	-	757	826
Hartz H 1215	1,029	41	-	791	818
Terra 302	901	39	-	734	813
Stoneville 3M002	1,130	41	-	-	-
Stoneville X 47	1,056	42	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	994	37	-	-	-
Deltapine DP 5415	988	40	-	-	-
Stoneville X 470	888	39	-	-	-
Hartz HX 6204	783	40	-	-	-
Test Mean	977				
L.S.D. (.05)	179				
C.V.	13%				

\*Early season check variety.

\*\*Full season check variety.

Table 8. Performance of Full Season Cotton Varieties at Monroeville,  
Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville LA 887	937	37	-	814	927
Deltapine Acala 90**	1,025	38	-	822	910
HS 46	1,061	39	-	878	902
HS 44	896	35	-	798	893
Suregrow 1001**	910	38	-	785	869
Suregrow 125*	893	37	-	808	859
Deltapine DP 5690	889	37	-	803	850
Deltapine DP 5415	950	36	-	823	841
Hartz H 1560	987	40	-	869	-
Deltapine 51	1,050	38	-	-	-
Deltapine NuCotn 35 <sup>B</sup>	983	37	-	-	-
GA 92-161	982	35	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	959	37	-	-	-
GA 91-227	945	34	-	-	-
GA 90-89	943	36	-	-	-
Deltapine DP 5409*	896	36	-	-	-
Test Mean	957				
L.S.D. (.05)	262				
C.V.	19%				

\*Early season check variety.

\*\*Full season check variety.

Table 9. Performance of Early Season Cotton Varieties at Headland,  
Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville 474	828	42	-	1,190	1,379
Suregrow 125*	818	42	-	1,141	1,300
Suregrow 501	840	42	-	1,137	1,298
Hartz H 1220	824	43	-	1,134	1,264
Deltapine Acala 90**	759	40	-	1,134	1,248
Deltapine 20	883	40	-	1,106	1,228
Suregrow 404	735	39	-	1,004	1,199
Deltapine 51	712	40	-	1,068	1,191
Hartz Var H 1244	698	42	-	1,013	1,175
Suregrow 1001**	725	40	-	1,047	1,175
Deltapine DP 5409*	612	41	-	1,011	1,155
Hartz H 1215	616	41	-	972	1,150
Deltapine 50	674	38	-	990	1,120
Terra 292	672	36	-	974	1,087
Terra 366	707	38	-	957	1,086
Terra 302	669	43	-	1,005	1,079
HS 23	363	40	-	827	1,011
Stoneville 3M002	873	43	-	-	-
Stoneville X 47	782	41	-	-	-
Hartz HX 6204	769	42	-	-	-
Deltapine DP 5415	711	40	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	665	41	-	-	-
Stoneville X 470	655	41	-	-	-
Test Mean	720				
L.S.D. (.05)	139				
C.V.	14%				

\*Early season check variety.

\*\*Full season check variety.



Table 10. Performance of Full Season Cotton Varieties at Headland,  
Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville LA 887	695	40	-	1,120	1,308
Suregrow 125*	703	40	-	1,130	1,293
HS 44	843	40	-	1,150	1,256
Deltapine Acala 90**	785	40	-	1,108	1,231
Suregrow 1001**	758	39	-	1,109	1,216
HS 46	715	40	-	1,071	1,205
Deltapine DP 5415	686	40	-	1,068	1,197
Deltapine DP 5690	684	39	-	1,039	1,163
Hartz H 1560	681	41	-	1,099	-
Deltapine NuCotn 35 <sup>B</sup>	781	41	-	-	-
Deltapine DP 5409*	743	42	-	-	-
GA 92-161	711	40	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	704	41	-	-	-
GA 90-89	686	39	-	-	-
Deltapine 51	663	40	-	-	-
GA 91-227	647	38	-	-	-
Test Mean	718				
L.S.D. (.05)	109				
C.V.	11%				

\*Early season check variety.

\*\*Full season check variety.

Table 11. Performance of Early Season Cotton Varieties at Fairhope, Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Stoneville 474	1,445	42	-	1,275	1,356
Suregrow 501	1,277	40	-	1,062	1,296
Suregrow 404	1,329	38	-	1,145	1,276
Deltapine 20	1,361	40	-	1,194	1,271
Deltapine 51	1,199	38	-	1,070	1,254
Terra 292	1,235	37	-	1,026	1,209
Suregrow 125*	1,227	38	-	1,080	1,199
Deltapine 50	1,247	36	-	1,053	1,176
Hartz Var H 1244	1,305	41	-	1,089	1,130
Hartz H 1220	1,204	40	-	1,049	1,128
Deltapine DP 5409*	1,183	40	-	1,009	1,118
Terra 302	1,087	39	-	959	1,117
Terra 366	1,083	37	-	966	1,108
Suregrow 1001**	1,178	40	-	987	1,099
HS 23	1,095	37	-	878	1,091
Deltapine Acala 90**	1,031	39	-	887	1,066
DES 119	993	37	-	861	1,053
Hartz H 1215	1,176	41	-	955	1,027
Stoneville X 470	1,370	42	-	-	-
Hartz HX 6204	1,363	41	-	-	-
Stoneville X 47	1,340	42	-	-	-
Stoneville 3M002	1,168	39	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,157	38	-	-	-
Deltapine DP 5415	1,032	39	-	-	-
Test Mean	1,212				
L.S.D. (.05)	188				
C.V.	11%				

\*Early season check variety.

\*\*Full season check variety.

Table 12. Performance of Full Season Cotton Varieties at Fairhope,  
Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
HS 44	1,250	41	-	1,103	1,229
Deltapine DP 5415	1,059	42	-	1,022	1,195
HS 46	1,153	40	-	983	1,188
Suregrow 1001**	1,275	40	-	1,060	1,148
Suregrow 125*	1,193	40	-	996	1,143
Deltapine DP 5690	1,137	40	-	956	1,129
Stoneville LA 887	1,059	39	-	904	1,110
Deltapine Acala 90**	1,058	39	-	892	1,069
Hartz H 1560	1,244	40	-	1,019	-
GA 92-161	1,266	39	-	-	-
Deltapine NuCotn 35 <sup>B</sup>	1,214	40	-	-	-
GA 90-89	1,178	38	-	-	-
GA 91-227	1,141	38	-	-	-
Deltapine 51	1,054	38	-	-	-
Deltapine DP 5409*	983	39	-	-	-
Deltapine NuCotn 33 <sup>B</sup>	946	40	-	-	-
Test Mean	1,138				
L.S.D. (.05)	243				
C.V.	15%				

\*Early season check variety.

\*\*Full season check variety.

TABLE 13. Performance of Early Season Cotton Varieties in Alabama, Average of All Locations

Brand-variety	Yield, Lint/Acre			Lint			Earliness		
	1996	1995-96	1994-96	1996	1995-96	1994-96	1996	1995-96	1994-96
	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Stoneville 474	1,217	1,018	1,123	42	42	42	84	-	-
Suregrow 125*	1,182	971	1,089	41	41	41	87	-	-
Suregrow 501	1,138	933	1,084	41	41	41	81	-	-
Suregrow 404	1,133	919	1,058	39	38	38	84	-	-
Deltapine 51	1,079	915	1,041	39	39	39	82	-	-
Deltapine 20	1,139	944	1,035	39	39	39	84	-	-
Hartz H 1220	1,095	931	1,021	40	40	40	88	-	-
Hartz Var H 1244	1,066	905	1,013	41	41	40	86	-	-
Deltapine DP 5409*	1,067	886	1,006	40	40	40	85	-	-
Deltapine Acala 90**	1,072	896	1,005	39	39	39	81	-	-
Suregrow 1001**	1,083	895	989	39	39	39	80	-	-
Deltapine 50	1,054	876	978	37	37	37	85	-	-
Hartz H 1215	1,061	887	978	41	41	40	89	-	-
DES 119	1,049	837	973	40	40	40	82	-	-
Terra 292	1,055	862	964	37	37	37	85	-	-
Terra 366	1,027	848	964	38	38	38	85	-	-
Terra 302	1,000	839	953	40	40	40	78	-	-
HS 23	893	772	918	38	38	38	79	-	-
Stoneville 3M002	1,173	-	-	42	-	-	83	-	-
Stoneville X 47	1,158	-	-	41	-	-	86	-	-
Hartz HX 6204	1,097	-	-	41	-	-	84	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,078	-	-	39	-	-	83	-	-
Stoneville X 470	1,075	-	-	40	-	-	80	-	-
Deltapine DP 5415	999	-	-	40	-	-	69	-	-

This variety at 2 locations only.

Paymaster HS-26	1,095	784	818	38	39	38	83	-	-
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\*Early season check variety.

\*\*Full season check variety.



TABLE 14. Performance of Full Season Cotton Varieties in Alabama, Average of All Locations

Brand-variety	Yield, Lint/Acre			Lint			Earliness		
	1996	1995-96	1994-96	1996	1995-96	1994-96	1996	1995-96	1994-96
	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Suregrow 125*	1,118	939	1,068	40	40	40	84	-	-
Stoneville LA 887	1,070	904	1,054	40	40	41	83	-	-
HS 44	1,091	926	1,036	39	39	39	79	-	-
Georgia King	1,273	964	1,029	41	40	40	73	-	-
HS 46	1,069	884	1,016	40	40	40	78	-	-
Deltapine Acala 90**	1,078	885	998	39	39	39	80	-	-
Suregrow 1001**	1,063	901	993	39	39	39	81	-	-
Deltapine DP 5690	1,044	883	993	39	39	39	81	-	-
Deltapine DP 5415	962	859	992	40	40	40	69	-	-
Hartz H 1560	1,099	916	-	40	40	-	82	-	-
Deltapine NuCotn 35 <sup>B</sup>	1,086	-	-	39	-	-	80	-	-
GA 90-89	1,054	-	-	38	-	-	81	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,053	-	-	39	-	-	84	-	-
GA 92-161	1,050	-	-	38	-	-	80	-	-
Deltapine 51	1,050	-	-	39	-	-	84	-	-
GA 91-227	1,023	-	-	37	-	-	78	-	-
Deltapine DP 5409*	1,012	-	-	39	-	-	86	-	-
Acala MAXXA	847	-	-	41	-	-	80	-	-

This Variety at 2 Locations Only.

KC 311	1,243	934	977	39	39	39	71	-	-
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\*Early season check variety.

\*\*Full season check variety.

Table 15. Performance of Early Season Irrigated Cotton Varieties at Belle Mina, Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,530	40	80	1,115	1,261
Deltapine DP 5409*	1,440	39	81	1,065	1,199
Suregrow 501	1,482	41	73	1,051	1,183
Deltapine 51	1,546	40	79	1,060	1,130
Suregrow 404	1,514	39	85	1,187	-
Stoneville 474	1,521	42	80	1,054	-
Hartz Var H 1244	1,184	38	80	1,022	-
Deltapine Acala 90**	1,492	40	72	977	-
Deltapine NuCotn 33 <sup>B</sup>	1,495	40	74	-	-
Suregrow 1001**	1,365	39	74	-	-
Terra 302	1,253	42	74	-	-
Test Mean	1,438				
L.S.D. (.05)	185				
C.V.	9%				

\*Early season check variety.

\*\*Full season check variety.

Table 16. Performance of Full Season Irrigated Cotton Varieties at Belle Mina, Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,512	42	84	1,190	1,311
HS 44	1,325	40	71	1,036	1,165
HS 46	1,370	40	75	1,037	1,136
Stoneville LA 887	1,318	41	71	988	1,118
Deltapine DP 5415	1,136	39	56	909	1,047
Deltapine Acala 90**	1,221	39	62	927	-
Deltapine DP 5409*	1,554	39	79	-	-
Deltapine NuCotn 33 <sup>B</sup>	1,408	39	76	-	-
Suregrow 1001**	1,144	39	65	-	-
Test Mean	1,332				
L.S.D. (.05)	247				
C.V.	13%				

\*Early season check variety.

\*\*Full season check variety.

Table 17. Performance of Early Season Irrigated Cotton Varieties at Shorter, Alabama, 1996

Brand-variety	1996			2-yr. av. Lint/Acre	3-yr. av. Lint/Acre
	Lint/Acre	Lint	Earliness		
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,446	41	-	1,208	1,295
Deltapine DP 5409*	1,308	41	-	1,086	1,178
Suregrow 501	1,389	42	-	1,071	1,134
Deltapine 51	1,281	39	-	1,030	1,127
Stoneville 474	1,532	43	-	1,144	-
Suregrow 404	1,415	40	-	1,103	-
Hartz Var H 1244	1,294	41	-	1,100	-
Deltapine Acala 90**	1,359	39	-	1,078	-
Deltapine NuCotn 33 <sup>B</sup>	1,401	40	-	-	-
Suregrow 1001**	1,352	41	-	-	-
Terra 302	1,304	40	-	-	-
Test Mean	1,371				
L.S.D. (.05)	156				
C.V.	8%				

\*Early season check variety.

\*\*Full season check variety.

Table 18. Performance of Full Season Irrigated Cotton Varieties at Shorter, Alabama, 1996

Brand-variety	1996			2-yr. av.	3-yr. av.
	Lint/Acre	Lint	Earliness	Lint/Acre	Lint/Acre
	Lb.	Pct.	Pct.	Lb.	Lb.
Suregrow 125*	1,485	38	-	1,170	1,270
Deltapine DP 5415	1,459	41	-	1,162	1,264
Stoneville LA 887	1,440	41	-	1,095	1,166
HS 44	1,286	38	-	1,040	1,114
HS 46	1,385	40	-	1,016	1,096
Deltapine Acala 90**	1,347	40	-	1,039	-
Deltapine NuCotn 33 <sup>B</sup>	1,536	40	-	-	-
Deltapine DP 5409*	1,453	40	-	-	-
Suregrow 1001**	1,190	38	-	-	-
Test Mean	1,398				
L.S.D. (.05)	193				
C.V.	9%				

\*Early season check variety.

\*\*Full season check variety.

TABLE 19. Cotton Fiber Analysis, HVI, Belle Mina, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<u>Units</u>	<u>In.</u>	<u>Pct.</u>	<u>g/tex</u>	<u>Pct.</u>
<b>Early season</b>					
Deltapine 20 .....	4.1	1.15	83	26.5	10.2
Deltapine 50 .....	4.0	1.20	83	28.0	9.6
Deltapine 51 .....	4.0	1.22	82	29.5	9.8
Deltapine DP 5409 .....	3.7	1.19	81	29.0	9.2
Deltapine DP 5415 .....	4.3	1.17	82	30.5	10.4
DES 119 .....	4.2	1.19	86	30.0	9.8
Deltapine NuCotn 33 <sup>B</sup> .....	3.6	1.15	81	30.5	10.0
Hartz H 1215 .....	3.8	1.15	84	30.5	9.6
Hartz H 1220 .....	3.9	1.14	84	30.0	10.6
Hartz H 1244 .....	3.4	1.07	82	29.0	10.2
Hartz HX 6204 .....	3.9	1.17	82	34.5	9.0
HS 23 .....	3.5	1.11	81	27.5	8.8
Stoneville 474 .....	4.1	1.11	82	30.5	9.6
Stoneville X 47 .....	3.9	1.14	83	33.5	9.6
Stoneville X 470 .....	3.9	1.18	82	32.0	8.8
Stoneville 3M002 .....	3.7	1.11	83	32.0	9.8
Suregrow 125 .....	4.5	1.16	83	29.0	10.2
Suregrow 404 .....	3.8	1.19	83	32.5	9.4
Suregrow 501 .....	4.1	1.17	83	31.5	9.4
Terra 292 .....	4.0	1.19	83	28.5	9.8
Terra 302 .....	4.1	1.15	85	29.5	9.6
Terra 366 .....	4.2	1.17	81	30.5	9.0
<b>Full season</b>					
Deltapine Acala 90 .....	3.8	1.15	82	33.5	8.2
Deltapine 51 .....	4.1	1.21	82	28.0	9.4
Deltapine DP 5415 .....	4.1	1.20	82	28.0	10.1
Deltapine DP 5690 .....	4.1	1.18	82	33.0	8.2
Deltapine NuCotn 33 <sup>B</sup> .....	4.1	1.20	82	33.5	8.8
Deltapine NuCotn 35 <sup>B</sup> .....	3.7	1.18	82	33.0	8.2
Georgia King .....	3.6	1.15	79	32.0	8.6
GA 90-89 .....	4.1	1.21	86	35.0	8.6
GA 91-227 .....	3.5	1.20	81	35.5	8.4
GA 92-161 .....	3.7	1.19	81	35.0	8.6
Hartz H 1560 .....	3.6	1.18	81	31.0	9.6
HS 44 .....	4.1	1.18	80	32.5	8.8
HS 46 .....	3.7	1.19	81	32.0	8.6
Stoneville LA 887 .....	3.7	1.16	83	31.0	9.2
Suregrow 1001 .....	3.9	1.18	84	33.0	8.6

TABLE 20. Cotton Fiber Analysis, HVI, Prattville, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	Units	In.	Pct.	g/tex	Pct.
<b>Early season</b>					
Deltapine 20 .....	3.9	1.12	80	23.5	9.8
Deltapine 50 .....	4.4	1.13	83	25.5	9.4
Deltapine 51 .....	4.1	1.15	81	26.0	9.8
Deltapine DP 5409 .....	3.9	1.15	79	27.5	8.8
Deltapine DP 5415 .....	4.3	1.10	81	27.0	9.4
DES 119 .....	4.1	1.15	84	27.5	9.8
Deltapine NuCotn 33 <sup>B</sup> .....	4.2	1.12	80	27.5	9.4
Hartz H 1215 .....	4.5	1.17	84	28.0	10.0
Hartz H 1220 .....	4.5	1.15	82	24.5	9.6
Hartz H 1244 .....	3.7	1.12	82	27.5	9.6
Hartz HX 6204 .....	4.7	1.12	84	27.5	10.2
HS 23 .....	4.2	1.11	83	26.5	8.6
Stoneville 474 .....	4.6	1.10	83	24.5	9.4
Stoneville X 47 .....	4.6	1.11	84	26.5	9.4
Stoneville X 470 .....	4.2	1.10	82	26.5	9.2
Stoneville 3M002 .....	4.3	1.09	82	26.0	9.8
Suregrow 125 .....	4.1	1.16	83	25.0	9.6
Suregrow 404 .....	4.7	1.13	83	28.5	9.8
Suregrow 501 .....	3.9	1.13	81	27.0	8.8
Terra 292 .....	4.1	1.17	79	26.5	9.4
Terra 302 .....	4.4	1.11	82	25.5	10.0
Terra 366 .....	4.2	1.18	81	23.5	9.4
<b>Full season</b>					
Deltapine Acala 90 .....	4.2	1.15	82	34.5	8.4
Deltapine 51 .....	4.5	1.16	82	25.5	9.4
Deltapine DP 5415 .....	4.5	1.11	83	31.0	9.4
Deltapine DP 5690 .....	3.9	1.08	83	29.5	8.2
Deltapine NuCotn 33 <sup>B</sup> .....	4.6	1.19	85	31.5	9.4
Deltapine NuCotn 35 <sup>B</sup> .....	4.0	1.16	82	32.5	7.8
GA 90-89 .....	3.9	1.14	82	32.0	8.0
GA 91-227 .....	3.8	1.20	82	33.5	8.6
GA 92-161 .....	4.2	1.22	84	32.5	9.2
Hartz H 1560 .....	3.9	1.15	83	29.5	9.6
HS 44 .....	4.8	1.12	83	31.5	9.4
HS 46 .....	3.9	1.16	84	32.0	9.0
Stoneville LA 887 .....	4.0	1.13	81	29.0	9.2
Suregrow 1001 .....	4.0	1.13	82	34.5	9.4

TABLE 21. Cotton Fiber Analysis, HVI, Shorter, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	Units	In.	Pct.	g/tex	Pct.
<b>Early season</b>					
Deltapine 20	4.2	1.19	83	27.0	9.8
Deltapine 50	4.2	1.20	84	25.0	9.4
Deltapine 51	4.6	1.14	86	23.0	9.6
Deltapine DP 5409	4.1	1.16	81	27.5	9.4
Deltapine DP 5415	3.7	1.12	80	27.0	10.0
DES 119	4.1	1.14	83	28.0	9.6
Deltapine NuCotn 33 <sup>B</sup>	4.1	1.16	81	28.5	9.4
Hartz H 1215	3.8	1.12	82	27.5	9.2
Hartz H 1220	4.3	1.13	83	27.5	10.0
Hartz H 1244	4.4	1.09	82	25.0	9.4
Hartz HX 6204	4.1	1.08	84	29.0	9.8
HS 23	3.6	1.17	82	27.0	8.2
Stoneville 474	4.5	1.15	83	28.0	9.4
Stoneville X 47	4.0	1.13	79	25.5	9.8
Stoneville X 470	4.2	1.13	80	23.0	9.2
Stoneville 3M002	4.1	1.12	82	27.5	9.6
Suregrow 125	4.4	1.14	81	25.5	9.8
Suregrow 404	4.5	1.14	82	27.0	8.8
Suregrow 501	4.4	1.14	83	33.0	9.4
Terra 292	4.5	1.17	82	25.5	9.4
Terra 302	4.4	1.12	86	27.0	9.4
Terra 366	4.4	1.13	81	26.0	8.8
<b>Full season</b>					
Deltapine Acala 90	3.8	1.12	82	27.5	9.0
Deltapine 51	4.3	1.16	83	27.0	8.0
Deltapine DP 5415	4.5	1.11	81	29.0	10.4
Deltapine DP 5690	3.9	1.12	80	30.0	8.6
Deltapine NuCotn 33 <sup>B</sup>	4.0	1.14	81	28.5	9.4
Deltapine NuCotn 35 <sup>B</sup>	3.6	1.15	81	32.0	8.6
GA 90-89	3.7	1.07	86	35.5	8.0
GA 91-227	4.0	1.17	82	34.5	9.0
GA 92-161	4.0	1.22	83	30.0	9.2
Georgia King	4.1	1.12	82	29.0	8.8
Hartz H 1560	3.8	1.17	83	30.0	9.6
HS 44	4.6	1.17	84	31.5	8.8
HS 46	4.1	1.14	82	30.0	9.0
Stoneville LA 887	3.8	1.15	82	29.0	9.4
Suregrow 1001	4.0	1.13	82	31.5	9.2

TABLE 22. Cotton Fiber Analysis, HVI, Monroeville, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<u>Units</u>	<u>In.</u>	<u>Pct.</u>	<u>g/tex</u>	<u>Pct.</u>
<b>Early season</b>					
Deltapine 20 .....	3.8	1.08	81	25.0	10.2
Deltapine 50 .....	3.1	1.14	80	26.0	9.8
Deltapine 51 .....	2.9	1.13	78	30.0	9.2
Deltapine DP 5409 .....	3.4	1.16	82	31.0	9.6
Deltapine DP 5415 .....	3.6	1.11	81	28.5	10.0
DES 119 .....	3.3	1.11	79	28.5	9.8
Deltapine NuCotn 33 <sup>B</sup> .....	3.2	1.16	80	26.5	9.8
Hartz H 1215 .....	3.9	1.11	82	28.0	10.0
Hartz H 1220 .....	3.2	1.10	80	30.5	9.8
Hartz H 1244 .....	3.6	1.12	81	28.5	8.8
Hartz HX 6204 .....	3.5	1.08	84	31.0	10.2
HS 23 .....	2.8	1.05	80	24.5	8.0
Stoneville 474 .....	3.7	1.11	84	27.0	9.4
Stoneville X 47 .....	3.3	1.04	81	24.5	9.6
Stoneville X 470 .....	3.1	1.09	82	27.0	9.8
Stoneville 3M002 .....	3.4	1.06	80	31.5	10.2
Suregrow 125 .....	3.6	1.14	82	31.0	9.8
Suregrow 404 .....	3.5	1.11	81	31.0	9.0
Suregrow 501 .....	3.6	1.09	82	29.5	10.2
Terra 292 .....	3.2	1.12	82	29.5	10.0
Terra 302 .....	3.2	1.08	80	27.5	9.8
Terra 366 .....	3.1	1.12	80	25.5	9.4
<b>Full season</b>					
Deltapine Acala 90 .....	3.3	1.15	82	33.5	8.6
Deltapine 51 .....	3.2	1.14	78	28.5	9.6
Deltapine DP 5415 .....	2.8	1.13	81	30.5	9.6
Deltapine DP 5690 .....	2.9	1.10	80	32.5	8.2
Deltapine NuCotn 33 <sup>B</sup> .....	2.8	1.13	78	30.5	9.6
Deltapine NuCotn 35 <sup>B</sup> .....	3.0	1.08	82	31.5	9.0
GA 90-89 .....	2.9	1.13	81	32.0	8.2
GA 91-227 .....	2.6	1.12	81	33.5	8.6
GA 92-161 .....	2.6	1.19	79	35.0	9.0
Hartz H 1560 .....	2.6	1.10	81	27.0	9.0
HS 44 .....	3.0	1.12	79	27.0	9.4
HS 46 .....	3.1	1.13	79	30.5	9.0
Stoneville LA 887 .....	2.7	1.08	78	27.5	8.8
Suregrow 1001 .....	2.9	1.10	80	32.5	9.2

TABLE 23. Cotton Fiber Analysis, HVI, Headland, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<u>Units</u>	<u>In.</u>	<u>Pct.</u>	<u>g/tex</u>	<u>Pct.</u>
<b>Early season</b>					
Deltapine 20 .....	4.2	1.06	81	24.0	9.6
Deltapine 50 .....	4.8	1.08	80	25.5	8.8
Deltapine 51 .....	4.2	1.05	81	25.5	8.8
Deltapine DP 5409 .....	4.6	1.08	80	26.5	9.2
Deltapine DP 5415 .....	4.6	1.12	85	25.5	8.8
DES 119 .....	4.3	1.07	82	26.5	10.2
Deltapine NuCotn 33 <sup>B</sup> .....	4.6	1.07	81	25.5	9.2
Hartz H 1215 .....	4.6	1.12	81	30.5	9.2
Hartz H 1220 .....	5.1	1.08	81	27.0	9.0
Hartz H 1244 .....	4.7	1.10	84	28.5	9.2
Hartz HX 6204 .....	5.1	1.10	83	25.5	9.6
HS 23 .....	4.3	1.07	81	25.0	6.4
Stoneville 474 .....	4.6	1.09	82	27.5	8.6
Stoneville X 47 .....	4.3	1.08	82	26.0	8.4
Stoneville X 470 .....	4.7	1.05	80	26.0	9.2
Stoneville 3M002 .....	4.4	1.07	82	24.0	9.8
Suregrow 125 .....	4.5	1.08	80	25.5	9.4
Suregrow 404 .....	5.2	1.06	83	29.0	9.0
Suregrow 501 .....	4.5	1.06	81	27.5	8.4
Terra 292 .....	4.5	1.14	85	27.5	9.6
Terra 302 .....	4.7	1.03	80	23.5	8.2
Terra 366 .....	4.5	1.09	80	26.5	8.8
<b>Full season</b>					
Deltapine Acala 90 .....	4.4	1.11	81	29.5	8.0
Deltapine 51 .....	4.3	1.11	87	28.5	9.0
Deltapine DP 5415 .....	4.4	1.10	82	27.0	9.8
Deltapine DP 5690 .....	4.7	1.09	82	28.0	7.6
Deltapine NuCotn 33 <sup>B</sup> .....	4.5	1.07	79	28.0	9.0
Deltapine NuCotn 35 <sup>B</sup> .....	4.4	1.08	79	26.5	8.0
GA 90-89 .....	4.7	1.13	81	26.5	8.6
GA 91-227 .....	4.0	1.12	79	28.5	8.6
GA 92-161 .....	4.3	1.09	82	27.5	8.6
Hartz H 1560 .....	4.5	1.08	81	27.5	9.4
HS 44 .....	4.8	1.10	81	29.5	8.4
HS 46 .....	4.4	1.05	80	29.5	9.0
Stoneville LA 887 .....	4.2	1.08	81	27.0	8.6
Suregrow 1001 .....	4.1	1.08	81	32.0	8.4



TABLE 24. Cotton Fiber Analysis, HVI, Fairhope, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	<u>Units</u>	<u>In.</u>	<u>Pct.</u>	<u>g/tex</u>	<u>Pct.</u>
<b>Early season</b>					
Deltapine 20 .....	4.1	1.18	86	23.5	9.8
Deltapine 50 .....	4.3	1.19	85	24.0	9.6
Deltapine 51 .....	4.3	1.15	82	26.5	9.2
Deltapine DP 5409 .....	3.6	1.13	81	28.5	9.6
Deltapine DP 5415 .....	4.5	1.10	83	28.5	9.8
DES 119 .....	4.5	1.16	84	28.5	10.2
Deltapine NuCotn 33 <sup>B</sup> .....	3.8	1.14	83	27.0	9.6
Hartz H 1215 .....	4.2	1.15	86	28.5	9.8
Hartz H 1220 .....	4.4	1.15	85	29.0	10.0
Hartz H 1244 .....	4.2	1.10	85	29.0	10.0
Hartz HX 6204 .....	4.7	1.16	86	29.5	9.8
HS 23 .....	4.1	1.14	85	26.0	7.8
Stoneville 474 .....	4.6	1.05	84	26.5	9.8
Stoneville X 47 .....	4.6	1.10	86	27.5	9.6
Stoneville X 470 .....	4.5	1.13	84	25.0	9.0
Stoneville 3M002 .....	4.3	1.05	83	27.0	10.0
Suregrow 125 .....	4.0	1.15	84	27.5	9.8
Suregrow 404 .....	4.7	1.20	86	31.0	8.8
Suregrow 501 .....	4.5	1.15	85	29.5	9.2
Terra 292 .....	4.2	1.12	84	27.0	9.8
Terra 302 .....	4.0	1.11	84	26.0	9.2
Terra 366 .....	3.7	1.14	82	27.5	9.0
<b>Full season</b>					
Deltapine Acala 90 .....	4.5	1.08	81	29.0	7.8
Deltapine 51 .....	4.7	1.14	82	23.0	9.0
Deltapine DP 5415 .....	5.2	1.10	82	26.0	9.2
Deltapine DP 5690 .....	4.2	1.09	81	29.5	8.2
Deltapine NuCotn 33 <sup>B</sup> .....	4.2	1.11	82	25.5	9.2
Deltapine NuCotn 35 <sup>B</sup> .....	4.4	1.08	83	28.0	8.0
GA 90-89 .....	4.2	1.08	82	27.5	7.8
GA 91-227 .....	4.1	1.12	83	30.5	8.0
GA 92-161 .....	3.9	1.13	81	29.5	8.4
Hartz H 1560 .....	4.5	1.11	82	27.0	8.8
HS 44 .....	5.1	1.10	85	25.5	7.4
HS 46 .....	3.4	1.13	80	29.0	7.8
Stoneville LA 887 .....	3.7	1.12	82	28.0	9.0
Suregrow 1001 .....	4.3	1.09	82	28.5	8.0

TABLE 25. Cotton Fiber Analysis, HVI, Irrigated Cotton, Belle Mina, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	Units	In.	Pct.	g/tex	Pct.
<b>Early season</b>					
Deltapine 51	4.1	1.17	82	26.0	9.4
Deltapine DP 5409	4.2	1.17	82	30.5	10.2
Deltapine NuCotn 33 <sup>B</sup>	3.7	1.18	81	31.5	9.0
Hartz H 1244	3.9	1.11	82	28.0	10.6
Stoneville 474	4.2	1.14	82	31.5	9.6
Suregrow 125	4.1	1.18	84	27.5	10.2
Suregrow 404	4.0	1.16	82	32.5	10.0
Suregrow 501	4.1	1.16	83	31.5	9.6
Terra 302	4.0	1.11	81	27.0	9.4
<b>Full season</b>					
Deltapine Acala 90	3.6	1.09	81	33.5	9.0
Deltapine DP 5415	4.4	1.18	83	30.5	9.8
Deltapine NuCotn 33 <sup>B</sup>	3.8	1.20	84	31.5	9.6
HS 44	4.6	1.17	84	31.0	9.0
HS 46	3.5	1.19	82	31.0	9.0
Stoneville LA 887	3.6	1.20	83	31.5	10.0
Suregrow 1001	3.8	1.17	83	32.0	9.4

TABLE 26. Cotton Fiber Analysis, HVI, Irrigated Cotton, Shorter, Alabama, 1996

Brand-variety	Micronaire	Length	Uniformity	Strength	Elongation
	Units	In.	Pct.	g/tex	Pct.
<b>Early season</b>					
Deltapine 51	4.1	1.17	80	26.0	9.8
Deltapine DP 5409	3.8	1.15	82	29.0	9.8
Deltapine NuCotn 33 <sup>B</sup>	4.0	1.12	79	27.5	9.6
Hartz H 1244	3.6	1.07	81	26.0	10.0
Stoneville 474	4.4	1.12	83	28.5	9.8
Suregrow 125	4.4	1.14	82	27.0	10.2
Suregrow 404	4.5	1.16	83	31.0	9.6
Suregrow 501	4.5	1.17	86	29.0	9.6
Terra 302	4.4	1.17	84	26.5	10.2
<b>Full season</b>					
Deltapine Acala 90	4.1	1.16	83	31.0	8.9
Deltapine DP 5415	4.0	1.16	83	28.5	9.6
Deltapine NuCotn 33 <sup>B</sup>	3.8	1.17	84	30.5	9.8
HS 44	4.3	1.15	83	31.0	8.8
HS 46	3.8	1.18	83	33.0	9.2
Stoneville LA 887	3.9	1.17	85	29.5	9.4
Suregrow 1001	3.9	1.18	83	34.5	8.6

Table 27. Growing Season Rainfall, 1994-96

Test location	Year	Monthly rainfall (inches)							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina ..	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
	1994	8.6	2.5	5.7	7.4	3.9	1.6	4.0	33.7
Shorter .....	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
	1994	5.8	2.1	2.2	7.2	10.9	1.2	2.1	31.5
Prattville .....	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
	1994	4.6	3.7	1.5	5.3	7.7	1.9	4.5	29.2
Monroeville .	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
	1994	4.2	6.6	7.8	8.6	10.8	2.6	3.0	43.6
Fairhope .....	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
	1994	7.8	4.7	2.9	7.3	10.9	5.1	1.5	40.2
Headland ...	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
	1994	6.5	6.9	0.6	9.4	19.4	3.6	3.5	49.9

Table 28. Soil Types for Cotton Trials, 1996

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 1996 Cotton Variety Tests

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Deltapine Acala 90	Delta and Pine Land Co.
Deltapine 50	Scott, Mississippi
Deltapine 51	
Deltapine 20	
Deltapine DP 5415	
Deltapine DP 5690	
Deltapine DP 5409	
Deltapine NuCotn 33 <sup>B</sup>	
Deltapine NuCotn 35 <sup>B</sup>	
DES 119	
Stoneville 474	Stoneville Pedigreed Seed Co.
Stoneville X 47	Stoneville, Mississippi
Stoneville X 470	
Stoneville LA 887	
Stoneville 3M002	
Georgia King	
KC 311	
Terra 366	Terra International, Inc.
Terra 302	Memphis, Tennessee
Terra 292	
HS 46	Hy Performer Seed Co.
HS 44	Memphis, Tennessee
HS 23	
Suregrow 1001	Sure Grow Seed, Inc.
Suregrow 501	Centre, Alabama
Suregrow 404	
Suregrow 125	
Paymaster HS 26	Cargill Hybrid Seed
	Aiken, Texas
Acala MAXXA	New Mexico State University
	Las Cruces, New Mexico
Hartz H 1560	Jacob Hartz Seed Co.
Hartz H 1244	Stuttgart, Arkansas
Hartz H 1220	
Hartz H 1215	
Hartz HX 6204	
GA 91-227	University of Georgia
GA 92-161	Tifton, Georgia
GA 90-89	

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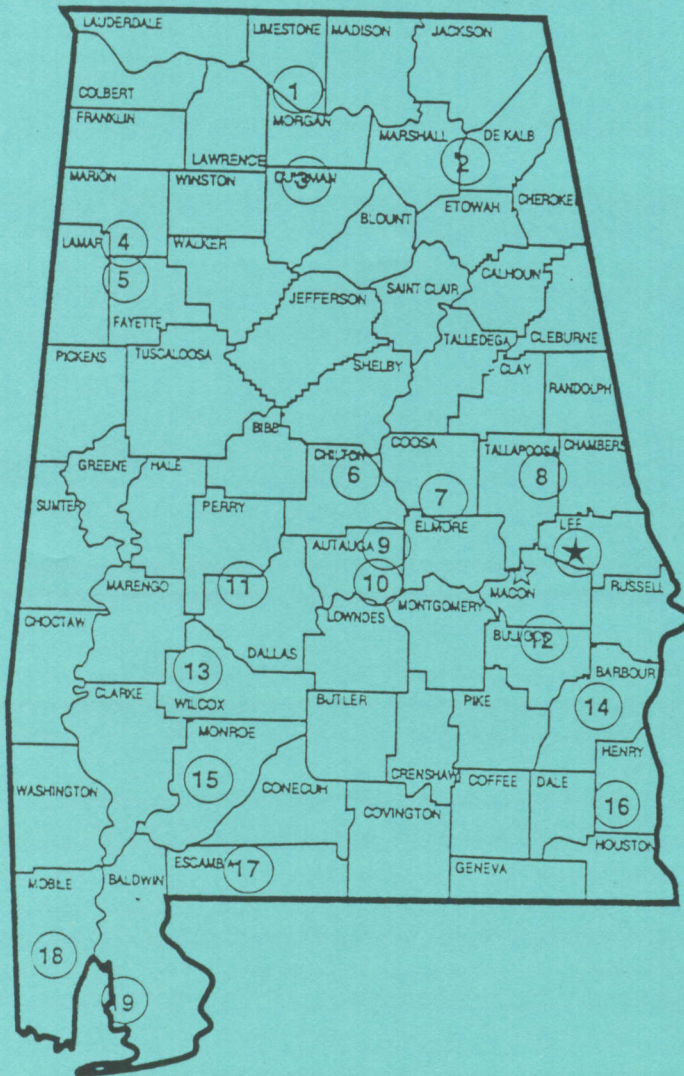




# Alabama's Agricultural Experiment Station System AUBURN UNIVERSITY

★ Main Agricultural Experiment Station,  
Auburn.

☆ E. V. Smith Research Center,  
Shorter.



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.