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1999 Alabama Cotton Variety Report

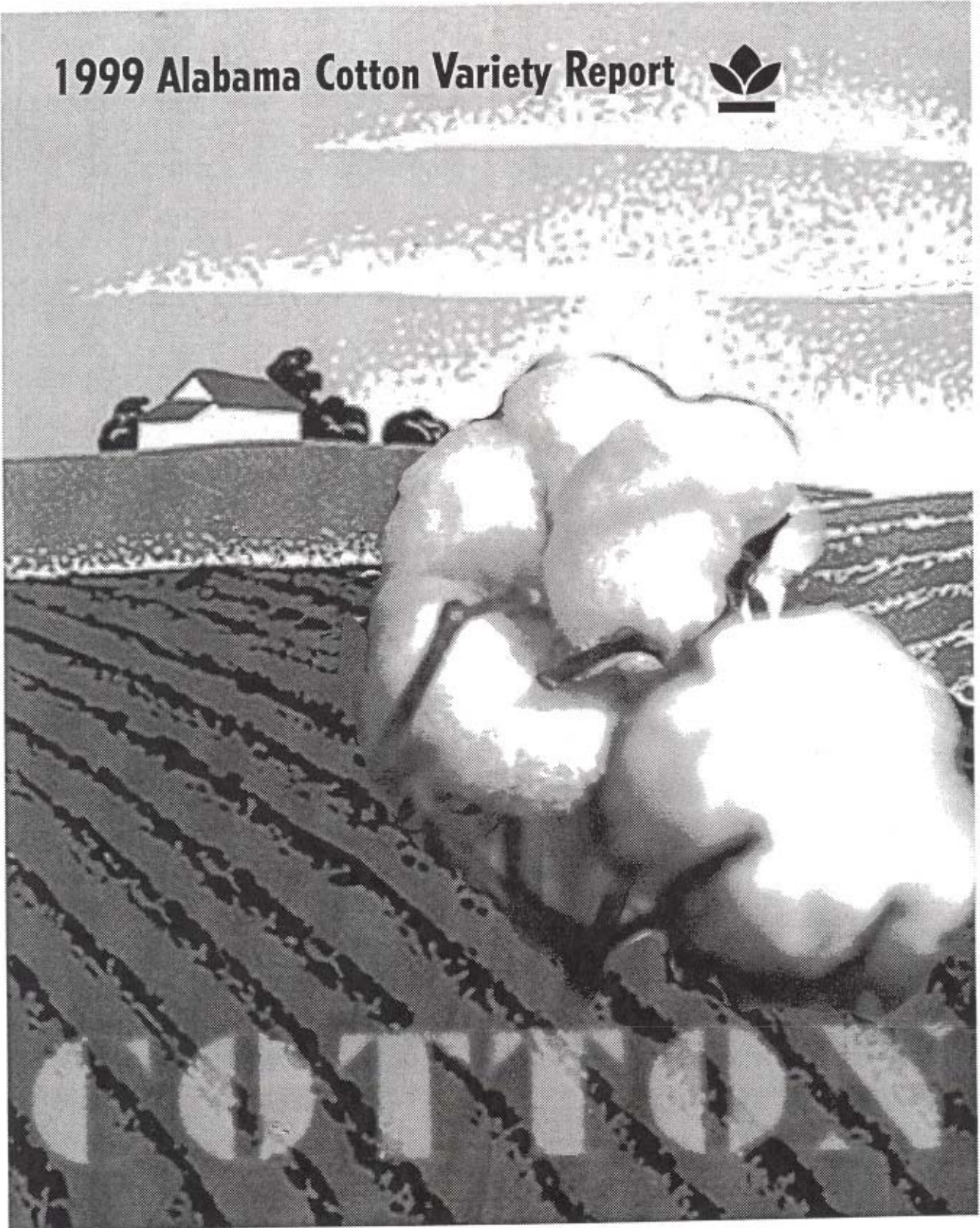


Table of Contents

	Page
Introduction	3
Experimental Conditions	3
Explanation of Data	3
Statistical Analysis	4
Location of Experiments	4
Table 1 Performance of Early Season Cotton Varieties at Belle Mina, Alabama, 1999	5
Table 2 Performance of Full Season Cotton Varieties at Belle Mina, Alabama, 1999	6
Table 3 Performance of Early Season Cotton Varieties at Prattville, Alabama, 1999	7
Table 4 Performance of Full Season Cotton Varieties at Prattville, Alabama, 1999	8
Table 5 Performance of Early Season Cotton Varieties at Shorter, Alabama, 1999	9
Table 6 Performance of Full Season Cotton Varieties at Shorter, Alabama, 1999	10
Table 7 Performance of Early Season Cotton Varieties at Monroeville, Alabama, 1999	11
Table 8 Performance of Full Season Cotton Varieties at Monroeville, Alabama, 1999	12
Table 9 Performance of Early Season Cotton Varieties at Headland, Alabama, 1999	13
Table 10 Performance of Full Season Cotton Varieties at Headland, Alabama, 1999	14
Table 11 Performance of Early Season Cotton Varieties at Fairhope, Alabama, 1999	15
Table 12 Performance of Full Season Cotton Varieties at Fairhope, Alabama, 1999	16
Table 13 Performance of Early Season Cotton Varieties, Average of all Locations, 1999	17
Table 14 Performance of Full Season Cotton Varieties, Average of all Locations, 1999	18
Table 15 Performance of Early Season Irrigated Cotton Varieties at Belle Mina, Alabama, 1999	19
Table 16 Performance of Full Season Irrigated Cotton Varieties at Belle Mina, Alabama, 1999	19
Table 17 Performance of Early Season Irrigated Cotton Varieties at Shorter, Alabama, 1999	20
Table 18 Performance of Full Season Irrigated Cotton Varieties at Shorter, Alabama, 1999	20
Table 19 Performance of Irrigated Cotton Varieties at Headland, Alabama, 1999	21
Table 20 Relative Yield Rankings by Location of Early Season Cotton Varieties, 1999	22
Table 21 Relative Yield Rankings by Location of Full Season Cotton Varieties, 1999	23
Table 22 Cotton Fiber Analysis, HVI, Belle Mina, Alabama, 1999	24
Table 23 Cotton Fiber Analysis, HVI, Prattville, Alabama, 1999	26
Table 24 Cotton Fiber Analysis, HVI, Shorter, Alabama, 1999	28
Table 25 Cotton Fiber Analysis, HVI, Monroeville, Alabama, 1999	30
Table 26 Cotton Fiber Analysis, HVI, Headland, Alabama, 1999	32
Table 27 Cotton Fiber Analysis, HVI, Fairhope, Alabama, 1999	34
Table 28 Cotton Fiber Analysis, HVI, Irrigated Cotton, Belle Mina, Alabama, 1999	36
Table 29 Cotton Fiber Analysis, HVI, Irrigated Cotton, Shorter, Alabama, 1999	37
Table 30 Cotton Fiber Analysis, HVI, Irrigated Cotton, Headland, Alabama, 1999	38
Table 31 Growing Season Rainfall, 1997-99	39
Table 32 Soil Types for Cotton Trials, 1999	39
Table 33 Sources of Seed for the 1999 Cotton Variety Trials	40

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

1999 Alabama Cotton Variety Report

A REPORT OF THE PERFORMANCE OF COTTON VARIETIES TESTED IN ALABAMA

K. M. Glass, C. D. Monks, and C. H. Burmester¹

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 are reported on an irrigated test at Belle Mina, Shorter, 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. Deltapine DP 5409, Deltapine Acala 90, Deltapine NuCotn 33B, and Suregrow 125 were included in both early and full season tests for comparison. 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. Row length varied at different locations from 20 to 120 feet. A randomized complete block experimental design with four replications was used in all tests.

EXPLANATION OF DATA

Harvest of Seed Cotton

A 50-boll sample was taken by hand for ginning; then test plots at all locations were harvested by a mechanical spindle picker. 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.

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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. Breeder lines and selected varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 1999, incidence of Fusarium wilt was light. The incidence ratings can be found in the 1999 National Fusarium Wilt Cotton Report, Departmental Series No. 221.

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}).

LOCATION OF EXPERIMENTS

Tennessee Valley Research and Extension Center	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, Supt.
Monroeville Experiment Field	J.R. Akridge, Supt.
Wiregrass Research and Extension Center, Headland	L.N. Wells, Supt. B.E. Gamble
Gulf Coast Research and Extension Center, 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, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>	Plant Stand+ Av./Ft.
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>			
Sure-Grow 125*	687	39	—	761	847	2.9
Sure-Grow 501	546	41	—	728	818	2.6
Paymaster PM1220BG/RR	681	39	—	697	814	2.2
Deltapine DP20B	606	37	—	727	808	1.9
Deltapine DP5111	08	36	—	714	806	2.6
Stoneville 474	516	41	—	687	804	1.8
Stoneville BXN47	450	40	—	687	767	2.1
Deltapine DP5409*	575	39	—	646	752	2.1
Deltapine Acala 90**	489	37	—	626	740	1.9
Deltapine NuCotn 33B**	450	37	—	621	734	2.2
Terra 292	508	36	—	616	706	2.1
AgriPro AP6101	431	38	—	576	668	1.6
Sure-Grow 105	647	37	—	809	—	2.7
Sure-Grow 747	615	39	—	743	—	2.3
PhytoGen PSC355	650	40	—	730	—	2.3
AgriPro AP7115	552	39	—	692	—	2.0
Paymaster PM1560BG	583	39	—	687	—	2.8
Paymaster PM1330BG	520	36	—	675	—	2.2
Deltapine DP428B	523	37	—	672	—	2.3
Paymaster PM1440	465	38	—	652	—	2.6
Deltapine DP425RR	470	38	—	634	—	1.9
Deltapine DP436RR	519	36	—	627	—	2.2
Sure-Grow 501BR	730	39	—	—	—	2.0
Paymaster PM 1218BG/RR	719	40	—	—	—	2.8
Sure-Grow 125RR	655	39	—	—	—	2.9
Deltapine DP422B/RR	628	37	—	—	—	2.6
Sure-Grow 125BR	628	38	—	—	—	2.5
PhytoGen PSC952	618	41	—	—	—	2.3
PhytoGen PSC636	587	35	—	—	—	2.6
Paymaster PMX0425	572	37	—	—	—	2.3
Deltapine DP388	569	38	—	—	—	2.4
Deltapine DP409B/RR	556	37	—	—	—	2.2
Deltapine DP451B/RR	548	35	—	—	—	2.5
HCR 9310	547	37	—	—	—	2.3
HCR 9228	527	38	—	—	—	2.8
ASCI Exp 0222	521	39	—	—	—	2.7
ASCI Exp 0052	514	38	—	—	—	2.6
Stoneville STX 9903	498	41	—	—	—	2.2
Stoneville STX 9902	496	40	—	—	—	2.3
HCR 9220	489	37	—	—	—	1.7
Stoneville STX 9901	449	41	—	—	—	2.0
HCR 7114-46	445	40	—	—	—	1.6
PhytoGen PSC 569	426	38	—	—	—	2.0
AllTex Atlas	418	35	—	—	—	2.3
Test Mean	548					
L.S.D.(.05)	75					
C.V.	10%					

*Early check varieties.**Full check varieties.

+Due to poor stands in some varieties, combined with a lack of moisture throughout the growing season, yields were reduced and may not reflect yield potential under normal conditions. Also, only three replications were used in reporting early season variety yields.

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>	Plant Stand+ Av./Ft.
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>			
Paymaster PM1560BG	693	40	—	842	905	2.5
Sure-Grow 125*	663	40	—	850	905	2.6
F'MAX 989	549	38	—	787	898	2.5
Deltapine NuCotn 33B**	511	38	—	733	865	1.6
Deltapine NuCotn 35B	570	37	—	742	851	1.4
Sure-Grow 821	612	38	—	736	843	1.8
Deltapine Acala 90**	577	38	—	673	823	1.4
Deltapine DP 5409*	579	38	—	707	821	1.9
Sure-Grow 248	504	41	—	706	813	1.5
AgriPro HS 46	428	38	—	662	784	1.2
Deltapine DP 5415 RR	394	40	—	650	784	0.9
F'MAX 832	507	39	—	701	783	1.8
AgriPro HS 44	470	38	—	696	758	1.3
PhytoGen PSC 161	521	37	—	598	732	1.6
Deltapine DP 5690RR	465	38	—	644	727	1.2
Acala MAXXA	445	39	—	571	683	2.2
Deltapine DP 458BRR	358	40	—	677	—	1.0
Deltapine DP 655BRR	503	36	—	656	—	1.6
Deltapine DPX 9765	679	38	—	—	—	2.3
Deltapine DP 448B	636	38	—	—	—	2.1
HCR 9240	632	41	—	—	—	2.2
Deltapine DP 675	595	38	—	—	—	2.4
PhytoGen PSC HS 12	534	37	—	—	—	1.8
Paymaster PM 1560BG/RR	531	39	—	—	—	1.9
Deltapine DP 5415	506	40	—	—	—	1.2
ASCI Exp 0781	504	40	—	—	—	2.0
HCR 9257	462	39	—	—	—	1.0
HCR 9263	444	40	—	—	—	1.0
HCR 7126	394	42	—	—	—	0.7
Test Mean	526					
L.S.D. (.05)	134					
C.V.	18%					

*Early check varieties.**Full check varieties.

+Due to poor stands in some varieties, combined with a lack of moisture throughout the growing season, yields were reduced and may not reflect yield potential under normal conditions.

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,347	38	—	1,245	1,310
Stoneville 474	1,207	40	—	1,189	1,306
Deltapine DP 5409*	1,222	37	—	1,159	1,274
Deltapine NuCotn 33B**	1,211	36	—	1,159	1,266
Deltapine Acala 90**	1,188	37	—	1,214	1,264
Stoneville BXN 47	1,272	40	—	1,162	1,260
Sure-Grow 501	1,220	38	—	1,115	1,235
Deltapine DP 5111	1,249	35	—	1,144	1,212
Paymaster PM1220BG/RR	1,124	38	—	1,075	1,164
AgriPro AP 6101	1,039	36	—	1,027	1,133
Terra 292	1,104	35	—	1,019	1,132
Deltapine DP 20B	1,003	36	—	942	1,063
PhytoGen PSC 355	1,432	39	—	1,266	—
Sure-Grow 747	1,394	40	—	1,237	—
Paymaster PM 1440	1,259	37	—	1,185	—
Sure-Grow 105	1,277	38	—	1,176	—
AgriPro AP 7115	1,266	37	—	1,171	—
Paymaster PM1560BG	1,334	37	—	1,161	—
Deltapine DP 425RR	1,251	36	—	1,127	—
Deltapine DP 428B	1,246	36	—	1,113	—
Deltapine DP 436RR	1,137	35	—	1,052	—
Paymaster PM 1330BG	1,104	37	—	1,043	—
PhytoGen PSC 952	1,385	39	—	—	—
Paymaster PMX 0425	1,361	37	—	—	—
Sure-Grow 125RR	1,361	38	—	—	—
Paymaster PM 1218BG/RR	1,341	39	—	—	—
ASCI Exp 0052	1,331	39	—	—	—
Sure-Grow 501BR	1,329	37	—	—	—
Sure-Grow 125BR	1,320	36	—	—	—
Stoneville STX 9901	1,311	38	—	—	—
ASCI Exp 0222	1,267	40	—	—	—
Stoneville STX 9902	1,257	39	—	—	—
Deltapine DP 422B/RR	1,236	36	—	—	—
Stoneville STX 9903	1,222	39	—	—	—
Deltapine DP 451B/RR	1,217	34	—	—	—
PhytoGen PSC 569	1,204	39	—	—	—
Deltapine DP 409B/RR	1,202	36	—	—	—
HCR 9220	1,186	38	—	—	—
PhytoGen PSC 636	1,185	36	—	—	—
Deltapine DP 388	1,180	38	—	—	—
HCR 7114-46	1,064	40	—	—	—
HCR 9228	1,062	36	—	—	—
HCR 9310	1,023	35	—	—	—
Test Mean	1,231				
L.S.D. (.05)	141				
C.V.	8%				

*Early season check varieties. **Full season check varieties.

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
F'MAX 989	1,240	38	—	1,314	1,331
Deltapine NuCotn 33B**	1,202	36	—	1,249	1,321
Sure-Grow 125*	1,319	38	—	1,242	1,320
Deltapine NuCotn 35B	1,203	36	—	1,305	1,313
Deltapine DP 5409*	1,215	37	—	1,282	1,307
AgriPro HS 46	1,213	38	—	1,267	1,297
AgriPro HS 44	1,135	36	—	1,263	1,291
Deltapine Acala 90**	1,186	36	—	1,215	1,286
Sure-Grow 821	1,123	36	—	1,215	1,285
Paymaster PM1560BG	1,286	38	—	1,268	1,275
F'MAX 832	1,157	38	—	1,274	1,229
Deltapine DP 5690RR	1,078	36	—	1,192	1,218
Sure-Grow 248	1,192	39	—	1,194	1,206
PhytoGen PSC 161	1,187	34	—	1,072	1,155
Deltapine DP 5415 RR	1,008	37	—	1,068	1,153
Deltapine DP 655BRR	1,196	36	—	1,269	—
Deltapine DP 458BRR	1,062	37	—	1,196	—
PhytoGen PSC HS 12	1,283	37	—	—	—
HCR 9257	1,270	39	—	—	—
Deltapine DP 448B	1,260	37	—	—	—
Deltapine DP 675	1,244	38	—	—	—
Deltapine DPX 9765	1,244	35	—	—	—
HCR 9240	1,241	39	—	—	—
Deltapine DP 5415	1,182	38	—	—	—
HCR 7126	1,175	39	—	—	—
HCR 9263	1,144	37	—	—	—
Paymaster PM 1560BG/RR	1,105	38	—	—	—
ASCI Exp 0781	981	40	—	—	—
Test Mean	1,183				
L.S.D. (.05)	182				
C.V.	11%				

*Early season check varieties. **Full season check varieties.

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Deltapine Acala 90**	948	39	—	929	1,054
Sure-Grow 125*	976	40	—	934	1,046
Sure-Grow 501	901	41	—	911	1,037
Deltapine DP 20B	956	39	—	902	1,033
Deltapine DP 5111	954	39	—	848	1,023
Stoneville 474	917	42	—	857	1,021
Paymaster PM1220BG/RR	868	40	—	851	1,009
AgriPro AP 6101	921	38	—	931	1,007
Deltapine DP 5409*	815	39	—	853	996
Stoneville BXN 47	952	41	—	839	967
Deltapine NuCotn 33B**	909	37	—	892	953
Terra 292	827	36	—	804	916
Sure-Grow 747	1,006	41	—	959	—
PhytoGen PSC 355	968	41	—	937	—
Paymaster PM1560BG	955	41	—	936	—
Sure-Grow 105	948	39	—	926	—
Paymaster PM 1440	917	39	—	916	—
Deltapine DP 428B	887	38	—	894	—
AgriPro AP 7115	827	39	—	869	—
Paymaster PM 1330BG	823	38	—	844	—
Deltapine DP 436RR	829	37	—	830	—
Deltapine DP 425RR	895	38	—	802	—
Paymaster PM 1218BG/RR	1,035	41	—	—	—
Paymaster PMX 0425	1,010	39	—	—	—
Sure-Grow 501BR	963	39	—	—	—
PhytoGen PSC 636	946	38	—	—	—
PhytoGen PSC 952	940	41	—	—	—
Sure-Grow 125BR	928	38	—	—	—
Stoneville STX 9901	897	42	—	—	—
Sure-Grow 125RR	897	40	—	—	—
ASCI Exp 0052	889	41	—	—	—
Stoneville STX 9902	884	41	—	—	—
Stoneville STX 9903	883	42	—	—	—
PhytoGen PSC 569	876	40	—	—	—
HCR 9220	875	39	—	—	—
Deltapine DP 422B/RR	871	37	—	—	—
ASCI Exp 0222	865	42	—	—	—
Deltapine DP 451B/RR	863	36	—	—	—
Deltapine DP 409B/RR	853	39	—	—	—
Deltapine DP 388	835	40	—	—	—
HCR 9310	835	39	—	—	—
HCR 9228	822	39	—	—	—
HCR 7114 46	694	41	—	—	—
AllTex Atlas	684	36	—	—	—
Test Mean	894				
L.S.D. (.05)	96				
C.V.	8%				

*Early season check varieties. **Full season check varieties.

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 1999

Variety	1999			2-yr. Av.+ Lint/Acre <i>lb.</i>	3-yr. Av.+ Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,107	41	—	1,015	1,167
AgriPro HS 44	1,002	39	—	966	1,080
Deltapine NuCotn 35B	994	40	—	931	1,071
AgriPro HS 46	952	40	—	898	1,066
Deltapine DP 5409*	972	41	—	881	1,041
Deltapine NuCotn 33B**	979	38	—	864	1,036
PhytoGen PSC 161	931	39	—	859	1,029
Deltapine Acala 90**	906	39	—	837	1,027
Acala MAXXA	499	36	—	560	673
Sure-Grow 821	971	40	—	950	—
Sure-Grow 248	985	42	—	900	—
F'MAX 832	907	41	—	894	—
Deltapine DP 655BRR	1,021	39	—	878	—
Paymaster PM1560BG	972	41	—	875	—
Deltapine DP 5690RR	925	39	—	849	—
F'MAX 989	904	41	—	838	—
Deltapine DP 5415 RR	931	39	—	823	—
Deltapine DP 458BRR	828	40	—	815	—
Deltapine DPX 9765	1,057	39	—	—	—
Deltapine DP 448B	1,040	40	—	—	—
Deltapine DP 675	1,023	39	—	—	—
HCR 9240	997	42	—	—	—
HCR 9257	990	41	—	—	—
Deltapine DP 5415	985	40	—	—	—
PhytoGen PSC HS 12	963	39	—	—	—
ASCI Exp 0781	951	43	—	—	—
HCR 7126	920	41	—	—	—
HCR 9263	899	40	—	—	—
Paymaster PM 1560BG/R	884	40	—	—	—
Test Mean	948				
L.S.D. (.05)	112				
C.V.	8%				

* Early season check varieties. ** Full season check varieties.

+ 2-year and 3-year averages include 1996, 1998, and 1999 yields.

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Deltapine Acala 90**	926	40	—	889	786
Stoneville 474	719	43	—	877	764
Sure-Grow 125*	873	40	—	845	755
Deltapine NuCotn 33B**	818	40	—	857	740
Stoneville BXN 47	824	44	—	873	739
Paymaster PM1220BG/RR	801	42	—	852	734
Sure-Grow 501	764	41	—	803	722
Deltapine DP 5111	807	40	—	825	722
Deltapine DP 5409*	737	39	—	800	721
AgriPro AP 6101	811	38	—	808	715
Deltapine DP 20B	713	40	—	750	684
Terra 292	655	38	—	717	668
PhytoGen PSC 355	1,142	44	—	1,063	—
Sure-Grow 747	948	42	—	941	—
Sure-Grow 105	785	41	—	857	—
Paymaster PM 1440	782	40	—	850	—
AgriPro AP 7115	807	40	—	846	—
Paymaster PM1560BG	874	41	—	799	—
Deltapine DP 428B	732	38	—	780	—
Paymaster PM 1330BG	744	40	—	777	—
Deltapine DP 425RR	718	39	—	771	—
Deltapine DP 436RR	787	39	—	756	—
Paymaster PM 1218BG/RR	980	43	—	—	—
Sure-Grow 501BR	966	40	—	—	—
Stoneville STX 9901	939	44	—	—	—
Sure-Grow 125BR	922	40	—	—	—
Sure-Grow 125RR	888	39	—	—	—
Stoneville STX 9903	881	44	—	—	—
Stoneville STX 9902	879	44	—	—	—
ASCI Exp 0052	877	41	—	—	—
ASCI Exp 0222	866	42	—	—	—
Paymaster PMX 0425	863	39	—	—	—
Deltapine DP 451B/RR	835	39	—	—	—
Deltapine DP 409B/RR	817	40	—	—	—
PhytoGen PSC 569	813	41	—	—	—
HCR 9310	778	40	—	—	—
PhytoGen PSC 952	769	42	—	—	—
PhytoGen PSC 636	768	38	—	—	—
Deltapine DP 388	757	39	—	—	—
Deltapine DP 422B/RR	749	39	—	—	—
HCR 9228	732	40	—	—	—
HCR 9220	705	40	—	—	—
HCR 7114-46	685	41	—	—	—
Test Mean	819				
L.S.D. (.05)	163				
C.V.	14%				

*Early season check varieties. **Full season check varieties.

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	905	42	—	918	809
Deltapine NuCotn 33B**	767	40	—	853	765
Sure-Grow 248	790	41	—	825	762
F'MAX 832	769	39	—	876	758
Sure-Grow 821	764	39	—	848	741
Paymaster PM1560BG	820	38	—	811	739
Deltapine Acala 90**	794	40	—	809	737
Deltapine NuCotn 35B	709	40	—	816	731
Deltapine DP 5690RR	666	40	—	803	728
AgriPro HS 44	715	37	—	825	719
F'MAX 989	735	41	—	814	709
PhytoGen PSC 161	726	39	—	754	705
AgriPro HS 46	693	40	—	804	704
Deltapine DP 5415 RR	707	42	—	761	689
Deltapine DP 5409*	679	39	—	746	680
Deltapine DP 655BRR	735	39	—	818	—
Deltapine DP 458BRR	656	39	—	773	—
PhytoGen PSC HS 12	840	38	—	—	—
Paymaster PM 1560BG/RR	837	39	—	—	—
Deltapine DPX 9765	804	39	—	—	—
HCR 9240	800	42	—	—	—
ASCI Exp 0781	759	43	—	—	—
Deltapine DP 448B	731	41	—	—	—
Deltapine DP 675	710	39	—	—	—
HCR 9263	684	39	—	—	—
HCR 7126	660	40	—	—	—
Deltapine DP 5415	654	40	—	—	—
HCR 9257	652	40	—	—	—
Test Mean	741				
L.S.D. (.05)	138				
C.V.	13%				

*Early season check varieties. **Full season check varieties.

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,010	42	—	919	996
Terra 292	897	36	—	770	954
Paymaster PM1220BG/RR	774	41	—	780	938
Stoneville 474	841	43	—	793	923
Sure-Grow 501	861	41	—	905	920
Deltapine Acala 90**	847	40	—	815	919
Deltapine NuCotn 33B**	776	39	—	847	896
Stoneville BXN 47	824	43	—	811	891
AgriPro AP 6101	837	39	—	868	887
Deltapine DP 5111	767	40	—	754	887
Deltapine DP 20B	856	41	—	757	857
Deltapine DP 5409*	884	41	—	761	835
PhytoGen PSC 355	968	42	—	936	—
Sure-Grow 747	943	42	—	918	—
Deltapine DP 428B	889	39	—	869	—
Sure-Grow 105	858	41	—	866	—
AgriPro AP 7115	741	41	—	808	—
Paymaster PM 1330BG	861	39	—	796	—
Paymaster PM1560BG	903	41	—	778	—
Deltapine DP 436RR	822	40	—	758	—
Deltapine DP 425RR	892	39	—	754	—
Paymaster PM 1440	810	40	—	751	—
Stoneville STX 9903	939	43	—	—	—
Sure-Grow 125RR	931	42	—	—	—
Paymaster PMX 0425	907	41	—	—	—
Sure-Grow 501BR	904	40	—	—	—
Deltapine DP 451B/RR	888	39	—	—	—
PhytoGen PSC 636	882	39	—	—	—
Sure-Grow 125BR	862	40	—	—	—
PhytoGen PSC 569	842	41	—	—	—
Deltapine DP 388	831	41	—	—	—
Deltapine DP 409B/RR	830	40	—	—	—
Deltapine DP 422B/RR	829	39	—	—	—
PhytoGen PSC 952	829	41	—	—	—
ASCI Exp 0222	829	41	—	—	—
Stoneville STX 9902	824	40	—	—	—
Paymaster PM 1218BG/RR	824	42	—	—	—
HCR 9228	808	41	—	—	—
ASCI Exp 0052	795	42	—	—	—
HCR 9220	792	40	—	—	—
Stoneville STX 9901	783	43	—	—	—
HCR 9310	775	39	—	—	—
HCR 7114-46	646	43	—	—	—
Test Mean	847				
L.S.D. (.05)	151				
C.V.	13%				

*Early season check varieties. **Full season check varieties.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Paymaster PM1560BG	861	41	—	800	992
Deltapine NuCotn 35B	894	38	—	925	952
Sure-Grow 248	863	41	—	881	928
Sure-Grow 125*	784	42	—	820	926
F'MAX 989	804	39	—	818	926
Deltapine NuCotn 33B**	860	39	—	843	922
AgriPro HS 44	809	38	—	857	896
Sure-Grow 821	834	40	—	781	889
Deltapine DP 5690RR	819	38	—	781	883
F'MAX 832	909	40	—	739	864
Deltapine Acala 90**	813	39	—	768	852
PhytoGen PSC 161	866	40	—	726	838
Deltapine DP 5409*	794	40	—	715	826
AgriPro HS 46	862	39	—	761	819
Deltapine DP 5415 RR	724	40	—	709	817
Deltapine DP 655BRR	831	38	—	866	—
Deltapine DP 458BRR	792	40	—	811	—
Deltapine DP 675	912	40	—	—	—
Deltapine DP 448B	906	39	—	—	—
HCR 9257	880	40	—	—	—
HCR 9240	873	40	—	—	—
Deltapine DPX 9765	801	38	—	—	—
Deltapine DP 5415	787	40	—	—	—
Paymaster PM 1560BG/RR	780	41	—	—	—
HCR 9263	775	40	—	—	—
PhytoGen PSC HS 12	761	40	—	—	—
ASCI Exp 0781	755	41	—	—	—
HCR 7126	752	41	—	—	—
Test Mean	825				
L.S.D. (.05)	162				
C.V.	14%				

*Early season check varieties. **Full season check varieties.

TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,315	36	—	1,233	1,260
Stoneville 474	1,407	38	—	1,218	1,255
Stoneville BXN 47	1,351	38	—	1,163	1,222
Deltapine DP 20B	1,089	37	—	1,127	1,210
Sure-Grow 501	1,122	38	—	1,117	1,204
Deltapine DP 5111	1,256	35	—	1,113	1,194
Deltapine NuCotn 33B**	1,263	35	—	1,091	1,193
Deltapine DP 5409*	1,028	34	—	970	1,158
AgriPro AP 6101	1,123	36	—	1,034	1,144
Paymaster PM1220BG/RR	1,001	37	—	1,053	1,142
Deltapine Acala 90**	822	34	—	878	1,098
Terra 292	1,097	32	—	982	1,008
Sure-Grow 747	1,318	36	—	1,245	—
Paymaster PM1560BG	1,259	38	—	1,240	—
Deltapine DP 428B	1,300	35	—	1,230	—
PhytoGen PSC 355	1,284	35	—	1,157	—
Sure-Grow 105	1,113	36	—	1,143	—
Paymaster PM 1440	1,273	35	—	1,126	—
Deltapine DP 436RR	1,194	33	—	1,062	—
Deltapine DP 425RR	1,180	34	—	1,057	—
AgriPro AP 7115	1,054	35	—	990	—
Paymaster PM 1330BG	941	34	—	913	—
Stoneville STX 9901	1,410	38	—	—	—
Stoneville STX 9902	1,393	38	—	—	—
ASCI Exp 0052	1,385	37	—	—	—
ASCI Exp 0222	1,375	37	—	—	—
Sure-Grow 125RR	1,364	35	—	—	—
Sure-Grow 125BR	1,345	35	—	—	—
Sure-Grow 501BR	1,334	36	—	—	—
Stoneville STX 9903	1,333	39	—	—	—
Deltapine DP 451B/RR	1,286	34	—	—	—
PhytoGen PSC 952	1,226	36	—	—	—
PhytoGen PSC 636	1,216	35	—	—	—
HCR 9220	1,205	37	—	—	—
Deltapine DP 409B/RR	1,173	36	—	—	—
Deltapine DP 388	1,104	36	—	—	—
PhytoGen PSC 569	1,097	37	—	—	—
HCR 7114-46	1,095	38	—	—	—
Paymaster PM 1218BG/RR	1,095	38	—	—	—
Deltapine DP 422B/RR	1,082	35	—	—	—
Paymaster PMX 0425	1,075	36	—	—	—
HCR 9228	847	34	—	—	—
HCR 9310	562	33	—	—	—
Test Mean	1,181				
L.S.D. (.05)	155				
C.V.	9%				

*Early season check varieties. **Full season check varieties.

TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Deltapine NuCotn 35B	1,299	35	—	1,146	1,287
Sure-Grow 125*	1,245	36	—	1,180	1,263
Sure-Grow 821	1,124	36	—	1,094	1,234
Sure-Grow 248	982	37	—	1,053	1,218
Paymaster PM1560BG	1,078	36	—	1,043	1,191
Deltapine NuCotn 33B**	1,161	35	—	1,077	1,189
AgriPro HS 44	1,083	35	—	962	1,119
Deltapine DP 5415 RR	932	36	—	953	1,118
Deltapine DP 5409*	1,009	35	—	917	1,109
AgriPro HS 46	910	36	—	914	1,084
F'MAX 989	1,008	35	—	926	1,082
PhytoGen PSC 161	1,016	34	—	878	1,077
Deltapine Acala 90**	809	34	—	819	1,046
Deltapine DP 5690RR	894	34	—	852	1,033
F'MAX 832	887	35	—	816	1,008
Deltapine DP 458BRR	1,149	37	—	1,094	—
Deltapine DP 655BRR	1,143	35	—	994	—
Deltapine DP 448B	1,305	36	—	—	—
Deltapine DPX 9765	1,244	35	—	—	—
Paymaster PM 1560BG/RR	1,112	37	—	—	—
PhytoGen PSC HS 12	1,085	35	—	—	—
HCR 9240	1,063	35	—	—	—
HCR 9263	981	34	—	—	—
HCR 9257	961	37	—	—	—
Deltapine DP 5415	943	35	—	—	—
Deltapine DP 675	885	35	—	—	—
ASCI Exp 0781	814	37	—	—	—
HCR 7126	782	36	—	—	—
Test Mean	1,032				
L.S.D. (.05)	178				
C.V.	12%				

*Early season check varieties. **Full season check varieties.

**TABLE 13. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 1999**

Variety	Yield, Lint/Acre			Lint			Earliness		
	1999 <i>lb.</i>	1998-99 <i>lb.</i>	1997-99 <i>lb.</i>	1999 <i>pct.</i>	1998-99 <i>pct.</i>	1997-99 <i>pct.</i>	1999 <i>pct.</i>	1998-99 <i>pct.</i>	1997-99 <i>pct.</i>
Sure-Grow 125*	1,035	990	1,036	39	39	39	-	-	-
Stoneville 474	935	937	1,012	41	42	42	-	-	-
Sure-Grow 501	902	930	989	40	41	41	-	-	-
Deltapine Acala 90**	870	892	977	38	38	39	-	-	-
Stoneville BXN 47	946	923	974	41	41	41	-	-	-
Deltapine DP 5111	924	900	974	38	38	38	-	-	-
Paymaster PM1220BG/RR	875	885	967	40	40	40	-	-	-
Deltapine NuCotn 33B**	904	911	964	37	38	38	-	-	-
Deltapine DP 5409*	877	865	956	38	39	39	-	-	-
Deltapine DP 20B	870	868	942	38	39	39	-	-	-
AgriPro AP 6101	860	874	926	38	38	38	-	-	-
Terra 292	848	818	897	36	36	37	-	-	-
PhytoGen PSC 355	1,074	1,015	-	40	40	-	-	-	-
Sure-Grow 747	1,037	1,007	-	40	41	-	-	-	-
Sure-Grow 105	938	963	-	39	39	-	-	-	-
Paymaster PM1560BG	985	933	-	40	40	-	-	-	-
Deltapine DP 428B	930	926	-	37	38	-	-	-	-
Paymaster PM 1440	918	913	-	38	39	-	-	-	-
AgriPro AP 7115	875	896	-	39	40	-	-	-	-
Deltapine DP 425RR	901	858	-	37	38	-	-	-	-
Deltapine DP 436RR	882	848	-	37	37	-	-	-	-
Paymaster PM 1330BG	832	841	-	37	38	-	-	-	-
Sure-Grow 501BR	1,038	-	-	39	-	-	-	-	-
Sure-Grow 125RR	1,016	-	-	39	-	-	-	-	-
Sure-Grow 125BR	1,001	-	-	38	-	-	-	-	-
Paymaster PM 1218BG/RR	999	-	-	41	-	-	-	-	-
ASCI Exp 0052	965	-	-	40	-	-	-	-	-
Paymaster PMX 0425	965	-	-	38	-	-	-	-	-
Stoneville STX 9901	965	-	-	41	-	-	-	-	-
PhytoGen PSC 952	961	-	-	40	-	-	-	-	-
Stoneville STX 9903	959	-	-	41	-	-	-	-	-
Stoneville STX 9902	956	-	-	40	-	-	-	-	-
ASCI Exp 0222	954	-	-	40	-	-	-	-	-
Deltapine DP 451B/RR	939	-	-	36	-	-	-	-	-
PhytoGen PSC 636	931	-	-	37	-	-	-	-	-
Deltapine DP 409B/RR	905	-	-	38	-	-	-	-	-
Deltapine DP 422B/RR	899	-	-	37	-	-	-	-	-
Deltapine DP 388	879	-	-	39	-	-	-	-	-
PhytoGen PSC 569	876	-	-	39	-	-	-	-	-
HCR 9220	876	-	-	39	-	-	-	-	-
HCR 9228	800	-	-	38	-	-	-	-	-
HCR 7114-46	772	-	-	41	-	-	-	-	-
HCR 9310	753	-	-	37	-	-	-	-	-
AllTex Atlas	551	-	-	36	-	-	-	-	-

*Early season check varieties. **Full season check varieties.

**TABLE 14. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 1999**

Variety	—Yield, Lint/Acre—			—Lint—			—Earliness—		
	1999 <i>lb.</i>	1998-99 <i>lb.</i>	1997-99 <i>lb.</i>	1999 <i>pct.</i>	1998-99 <i>pct.</i>	1997-99 <i>pct.</i>	1999 <i>pct.</i>	1998-99 <i>pct.</i>	1997-99 <i>pct.</i>
Sure-Grow 125*	1,004	1,004	1,046	40	40	40	—	—	—
Deltapine NuCotn 35B	945	978	1,021	38	38	38	—	—	—
Paymaster PM1560BG	952	940	1,012	39	40	40	—	—	—
Deltapine NuCotn 33B**	913	937	1,003	38	38	38	—	—	—
Sure-Grow 821	905	937	1,000	38	39	39	—	—	—
Sure-Grow 248	886	926	982	40	40	40	—	—	—
F'MAX 989	873	916	979	39	39	40	—	—	—
AgriPro HS 44	869	928	961	37	38	38	—	—	—
Deltapine DP 5409*	875	875	949	38	39	39	—	—	—
Deltapine Acala 90**	848	853	946	38	38	38	—	—	—
AgriPro HS 46	843	884	939	39	39	39	—	—	—
F'MAX 832	856	883	930	39	39	39	—	—	—
Deltapine DP 5690RR	808	854	917	38	38	38	—	—	—
Deltapine DP 5415 RR	783	827	912	39	40	40	—	—	—
PhytoGen PSC 161	875	814	907	37	38	38	—	—	—
Acala MAXXA	472	566	679	38	40	40	—	—	—
Deltapine DP 655BRR	905	914	—	37	38	—	—	—	—
Deltapine DP 458BRR	807	894	—	39	40	—	—	—	—
Deltapine DP 448B	980	—	—	39	—	—	—	—	—
Deltapine DPX 9765	971	—	—	37	—	—	—	—	—
HCR 9240	934	—	—	40	—	—	—	—	—
PhytoGen PSC HS 12	911	—	—	38	—	—	—	—	—
Deltapine DP 675	895	—	—	38	—	—	—	—	—
Paymaster PM 1560BG/RR	875	—	—	39	—	—	—	—	—
HCR 9257	869	—	—	39	—	—	—	—	—
Deltapine DP 5415	843	—	—	39	—	—	—	—	—
HCR 9263	821	—	—	38	—	—	—	—	—
ASCI Exp 0781	794	—	—	41	—	—	—	—	—
HCR 7126	781	—	—	40	—	—	—	—	—

*Early season check varieties. **Full season check varieties.

**TABLE 15. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 1999**

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Stoneville 474	1,209	40	–	1,454	1,411
Sure-Grow 125*	1,330	38	–	1,462	1,334
Deltapine NuCotn 33B**	993	36	–	1,182	1,212
Deltapine DP 5409*	1,069	37	–	1,198	1,204
AgriPro AP 6101	864	36	–	1,158	1,176
Deltapine Acala 90**	972	36	–	1,181	1,151
Sure-Grow 747	1,336	40	–	1,405	–
Paymaster PM1220BG/RR	1,229	37	–	1,346	–
AgriPro AP 7115	1,177	38	–	1,296	–
Paymaster PM 1330BG	991	37	–	1,123	–
Sure-Grow 125BR	1,289	38	–	–	–
Sure-Grow 501BR	1,285	39	–	–	–
Paymaster PM1560BG	1,195	37	–	–	–
Sure-Grow 105	1,193	36	–	–	–
Deltapine DP 451B/RR	1,159	35	–	–	–
Stoneville BXN 47	1,122	38	–	–	–
Deltapine DP 436RR	1,060	35	–	–	–
Deltapine DP 428B	1,044	36	–	–	–
Test Mean	1,140				
L.S.D. (.05)	156				
C.V.	10%				

*Early season check varieties. **Full season check varieties.

**TABLE 16. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 1999**

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,237	37	–	1,505	1,436
Deltapine DP 5409*	996	37	–	1,287	1,272
Deltapine NuCotn 33B**	851	35	–	1,229	1,260
Deltapine Acala 90**	869	36	–	1,231	1,228
F'MAX 989	948	37	–	1,195	1,213
Sure-Grow 248	1,040	39	–	1,387	1,199
F'MAX 832	828	37	–	1,081	1,047
Sure-Grow 821	1,057	36	–	1,315	–
Deltapine DP 655BRR	878	34	–	1,187	–
Deltapine DP 458BRR	796	36	–	1,161	–
Paymaster PM 1560BG/RR	990	38	–	–	–
Deltapine DP 5415 RR	836	36	–	–	–
Test Mean	944				
L.S.D. (.05)	118				
C.V.	9%				

*Early season check varieties. **Full season check varieties.

**TABLE 17. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT SHORTER, ALABAMA, 1999**

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Stoneville 474	1,366	44	—	1,191	1,382
Sure-Grow 125*	1,303	42	—	1,150	1,290
Deltapine DP 5409*	1,239	42	—	1,069	1,289
Deltapine NuCotn 33B**	1,223	40	—	1,071	1,230
Deltapine Acala 90**	1,121	40	—	1,001	1,211
AgriPro AP 6101	1,152	40	—	1,035	1,175
Sure-Grow 747	1,461	43	—	1,235	—
AgriPro AP 7115	1,325	42	—	1,107	—
Paymaster PM 1330BG	1,278	40	—	1,101	—
Paymaster PM1220BG/RR	1,147	42	—	1,000	—
Sure-Grow 105	1,421	41	—	—	—
Sure Grow 501BR	1,337	41	—	—	—
Stoneville BXN 47	1,313	44	—	—	—
Paymaster PM1560BG	1,286	42	—	—	—
Sure-Grow 125BR	1,269	41	—	—	—
Deltapine DP 428B	1,241	40	—	—	—
Deltapine DP 451B/RR	1,235	39	—	—	—
Deltapine DP 436RR	1,213	38	—	—	—
Test Mean	1,274				
L.S.D. (.05)	120				
C.V.	7%				

*Early season check varieties. **Full season check varieties.

**TABLE 18. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT SHORTER, ALABAMA, 1999**

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,453	42	—	1,150	1,374
Deltapine Acala 90**	1,246	39	—	1,055	1,344
Deltapine DP 5409*	1,313	41	—	1,078	1,301
F'MAX 989	1,284	41	—	1,077	1,278
Deltapine NuCotn 33B**	1,261	40	—	1,031	1,267
F'MAX 832	1,217	40	—	1,099	1,254
Sure-Grow 248	1,336	43	—	1,103	1,216
Sure-Grow 821	1,401	41	—	1,128	—
Deltapine DP 458BRR	1,239	42	—	1,063	—
Deltapine DP 655BRR	1,165	39	—	991	—
Paymaster PM 1560BG/RR	1,249	41	—	—	—
Deltapine DP 5415 RR	1,233	41	—	—	—
Test Mean	1,283				
L.S.D. (.05)	121				
C.V.	7%				

*Early season check varieties. **Full season check varieties.

TABLE 19. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 1999

Variety	1999			2-yr. Av. Lint/Acre <i>lb.</i>	3-yr. Av. Lint/Acre <i>lb.</i>
	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Earliness <i>pct.</i>		
Sure-Grow 125*	1,266	40	—	1,149	1,133
Deltapine Acala 90**	1,093	39	—	1,163	1,068
Paymaster PM1220BG/RR	1,038	42	—	1,185	—
F'MAX 989	1,081	39	—	1,114	—
Sure-Grow 747	1,344	41	—	—	—
Deltapine DP 451B/RR	1,192	37	—	—	—
Sure-Grow 248	1,146	39	—	—	—
Sure-Grow 821	1,135	39	—	—	—
Stoneville 474	1,098	42	—	—	—
Deltapine DP 655BRR	1,041	38	—	—	—
Deltapine NuCotn 33B**	1,018	38	—	—	—
Deltapine DP 428B	1,011	39	—	—	—
Deltapine DP 5415 RR	1,003	39	—	—	—
Deltapine DP 458BRR	977	38	—	—	—
Paymaster PM 1560BG/RR	961	39	—	—	—
F'MAX 832	902	38	—	—	—
Deltapine DP 5409*	886	39	—	—	—
Test Mean	1,070				
L.S.D. (.05)	217				
C.V.	14%				

*Early season check varieties. **Full season check varieties.

TABLE 20. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 1999+

Variety	Belle Mina	Prattville	Shorter	Monroeville	Headland	Fairhope
ASCI Exp 0052	29	9	24	11	35	4
ASCI Exp 0222	25	15	32	14	28	5
AgriPro AP 6101	42	41	16	21	23	26
AgriPro AP 7115	19	16	39	23	42	37
AllTex Atlas	44	—	44	—	—	—
Deltapine Acala 90**	35	31	11	6	20	42
Deltapine DP 20B	12	43	7	40	19	34
Deltapine DP 388	17	34	35	32	24	29
Deltapine DP 409B/RR	18	30	34	19	25	25
Deltapine DP 422B/RR	8	22	30	33	26	35
Deltapine DP 425RR	36	19	23	39	10	24
Deltapine DP 428B	24	21	25	36	11	13
Deltapine DP 436RR	27	35	37	25	32	23
Deltapine DP 451B/RR	20	26	33	16	12	14
Deltapine DP 5111	30	20	9	22	41	19
Deltapine DP 5409*	15	24	42	35	13	38
Deltapine NuCotn 33B**	39	27	19	18	38	17
HCR 7114-46	41	39	43	42	43	32
HCR 9220	34	32	29	41	36	22
HCR 9228	23	40	41	37	34	41
HCR 9310	21	42	36	28	39	43
PhytoGen PSC 355	6	1	5	1	2	15
PhytoGen PSC 569	43	29	28	20	21	31
PhytoGen PSC 636	13	33	13	30	14	21
PhytoGen PSC 952	10	3	14	29	27	20
Paymaster PM 1218BG/RR	2	7	1	2	31	33
Paymaster PM 1330BG	26	37	40	34	16	40
Paymaster PM 1440	37	17	17	27	33	16
Paymaster PM1220BG/RR	4	36	31	24	40	39
Paymaster PM1560BG	14	8	8	12	8	18
Paymaster PMX 0425	16	4	2	15	6	36
Stoneville 474	28	28	18	38	22	2
Stoneville BXN 47	38	14	10	17	30	7
Stoneville STX 9901	40	12	21	5	37	1
Stoneville STX 9902	33	18	26	10	29	3
Stoneville STX 9903	32	23	27	9	4	10
Sure-Grow 125BR	9	11	15	7	15	8
Sure-Grow 125RR	5	5	22	8	5	6
Sure-Grow 501BR	1	10	6	3	7	9
Sure-Grow 105	7	13	12	26	18	28
Sure-Grow 125*	3	6	4	13	1	12
Sure-Grow 501	22	25	20	31	17	27
Sure-Grow 747	11	2	3	4	3	11
Terra 292	31	38	38	43	9	30

+Ranking scale is 1 to 44. *Early check varieties. **Full check varieties.

TABLE 21. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 1999+

Variety	Belle Mina	Prattville	Shorter	Monroeville	Headland	Fairhope
ASCI Exp 0781	18	28	18	12	26	26
Acala MAXXA	24	–	29	–	–	–
AgriPro HS 44	21	22	6	17	16	11
AgriPro HS 46	26	11	17	21	9	22
Deltapine Acala 90**	9	17	24	7	15	27
Deltapine DP 448B	4	5	3	15	3	1
Deltapine DP 458BRR	29	26	28	26	20	6
Deltapine DP 5409*	8	10	13	23	19	15
Deltapine DP 5415	17	18	10	27	21	20
Deltapine DP 5415 RR	28	27	19	20	28	21
Deltapine DP 5690RR	22	25	21	24	14	23
Deltapine DP 655BRR	20	14	5	14	13	7
Deltapine DP 675	7	6	4	18	1	25
Deltapine DPX 9765	2	7	2	5	18	4
Deltapine NuCotn 33B**	15	13	12	10	11	5
Deltapine NuCotn 35B	10	12	8	19	4	2
F'MAX 832	16	20	23	9	2	24
F'MAX 989	11	9	25	13	17	16
HCR 7126	27	19	22	25	27	28
HCR 9240	5	8	7	6	6	13
HCR 9257	23	4	9	28	5	19
HCR 9263	25	21	26	22	24	18
PhytoGen PSC 161	14	16	20	16	7	14
PhytoGen PSC HS 12	12	3	16	2	25	10
Paymaster PM 1560BG/RR	13	24	27	3	23	9
Paymaster PM1560BG	1	2	14	4	10	12
Sure-Grow 125*	3	1	1	1	22	3
Sure-Grow 248	19	15	11	8	8	17
Sure-Grow 821	6	23	15	11	12	8

+Ranking scale is 1 to 29. *Early check varieties. **Full check varieties.

TABLE 22. COTTON FIBER ANALYSIS, HVI, BELLE MINA, ALABAMA, 1999

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					
AgriPro AP 6101	4.4	1.03	82	28.5	7.2
AgriPro AP 7115	3.8	0.99	79	24.0	7.0
ASCI Exp 0052	3.6	1.06	80	25.5	6.0
ASCI Exp 0222	3.6	1.03	83	27.5	5.2
Deltapine DP 388	3.4	1.05	78	26.0	7.8
Deltapine DP 5111	3.7	1.05	81	27.5	6.4
Deltapine DP 5409	3.7	0.99	79	23.5	6.8
Deltapine DP 20B	3.7	1.06	83	26.0	8.6
Deltapine DP 428B	4.0	1.06	82	23.5	7.4
Deltapine DP 425RR	4.0	1.02	80	26.5	7.6
Deltapine DP 436RR	3.9	1.02	82	24.0	8.4
Deltapine DP 409BRR	3.5	1.05	79	26.0	7.2
Deltapine DP 422BRR	3.4	1.08	81	25.0	9.0
Deltapine DP 451BRR	3.4	1.06	80	23.5	6.6
HCR 9220	3.4	1.02	81	24.5	7.4
HCR 9228	3.3	1.04	79	27.0	6.4
HCR 9310	3.8	1.09	81	24.0	7.0
HCR 7114-46	4.3	1.03	81	22.0	7.2
PM 1440	3.8	1.02	79	22.0	5.8
PMX 0425	3.7	1.08	83	23.5	8.0
PM 1330BG	3.7	1.04	82	28.5	8.0
PM 1560BG	4.0	1.03	81	28.5	7.6
PM 1218BG/RR	4.4	1.00	82	26.0	7.4
PM 1220BG/RR	4.3	1.09	84	30.0	7.6
PhytoGen PSC 355	4.2	1.05	81	29.5	8.6
PhytoGen PSC 569	4.2	1.01	82	32.0	7.2
PhytoGen PSC 636	3.0	1.11	80	26.5	6.4
PhytoGen PSC 952	4.1	1.02	81	27.5	7.9
Stoneville 474	4.3	1.05	81	25.5	6.6
Stoneville BXN 47	4.0	1.01	82	24.0	6.6
Stoneville X 9901	4.0	0.98	80	22.5	6.2
Stoneville X 9902	3.8	1.02	83	24.5	6.6
Stoneville X 9903	4.1	0.97	81	24.5	6.6
Sure-Grow 105	3.9	1.07	83	27.5	8.2
Sure-Grow 125	3.8	1.06	81	25.5	8.8
Sure-Grow 501	4.5	1.03	83	33.0	8.0
Sure-Grow 747	4.2	1.05	80	25.0	8.4
Sure-Grow 125BR	4.0	1.04	81	25.5	8.4
Sure-Grow 501BR	4.0	1.00	82	27.0	9.0
Sure-Grow 125RR	3.7	1.02	80	27.0	8.0
Terra 292	4.1	1.03	82	23.0	7.2

continued

TABLE 22, CONTINUED. COTTON FIBER ANALYSIS, HVI, BELLE MINA, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	4.0	1.12	83	31.0	7.0
AgriPro HS 44	4.5	1.06	83	29.0	7.6
AgriPro HS 46	4.5	1.05	81	30.0	7.2
ASCI Exp 0781	4.3	1.07	83	27.5	7.9
Deltapine Acala 90	4.7	1.06	82	29.0	7.8
Deltapine DP 675	4.2	1.07	83	35.0	8.7
Deltapine DP 5415	4.6	1.06	81	28.5	8.2
Deltapine NuCotn 33B	4.3	1.02	82	27.0	8.6
Deltapine NuCotn 35B	4.0	1.07	84	31.0	6.2
Deltapine DP 448B	4.1	1.06	82	25.0	7.4
Deltapine DP 5415RR	4.6	1.03	83	26.0	7.8
Deltapine DP 5690RR	4.2	1.03	84	32.0	7.8
Deltapine DP 458BRR	4.2	1.02	82	27.5	8.0
Deltapine DP 655BRR	4.0	1.05	82	31.0	7.2
Deltapine DPX 9765	3.9	1.07	82	26.0	8.4
F'Max 832	4.4	1.09	82	28.0	6.2
F'Max 989	3.6	1.07	80	32.0	6.8
HCR 7126	4.4	1.08	83	28.0	8.2
HCR 9240	3.8	1.11	81	29.0	8.0
HCR 9257	4.0	1.03	82	25.5	7.6
HCR 9263	4.8	1.05	83	30.0	9.0
PM 1560 BG	3.9	1.06	82	30.0	8.6
PM 1560 BG/RR	4.1	1.03	82	26.0	7.2
PhytoGen PSC 161	4.0	1.07	83	31.5	7.4
Sure-Grow 248	4.4	1.08	82	27.0	7.0
Sure-Grow 821	4.2	1.08	83	28.5	10.2

TABLE 23. COTTON FIBER ANALYSIS, HVI, PRATTVILLE, ALABAMA, 1999

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					
AgriPro AP 6101	4.5	1.17	85	32.5	7.6
AgriPro AP 7115	3.8	1.09	83	29.0	8.4
ASCI Exp 0052	3.9	1.14	84	31.0	6.0
ASCI Exp 0222	4.2	1.12	84	33.0	5.6
Deltapine DP 388	4.0	1.10	84	30.5	10.0
Deltapine DP 5111	4.7	1.09	85	32.5	8.6
Deltapine DP 5409	3.6	1.12	83	32.0	8.8
Deltapine DP 20B	4.0	1.10	84	29.0	9.6
Deltapine DP 428B	4.1	1.13	83	28.5	8.4
Deltapine DP 425RR	4.2	1.13	84	29.5	9.0
Deltapine DP 436RR	4.3	1.16	85	29.5	9.2
Deltapine DP 409BRR	3.8	1.13	82	31.0	8.4
Deltapine DP 422BRR	3.9	1.11	86	32.0	9.6
Deltapine DP 451BRR	3.6	1.16	83	29.5	7.8
HCR 9220	4.4	1.10	84	28.5	9.2
HCR 9228	3.4	1.07	83	36.0	8.4
HCR 9310	4.1	1.18	82	34.0	8.0
HCR 7114-46	4.3	1.11	82	27.0	8.0
PM 1440	3.9	1.10	84	30.5	7.4
PMX 0425	4.3	1.13	84	31.0	8.8
PM 1330BG	4.1	1.10	86	30.0	8.6
PM 1560BG	4.7	1.11	86	30.0	9.4
PM 1218BG/RR	4.5	1.05	84	29.0	8.2
PM 1220BG/RR	4.4	1.10	84	33.0	9.0
PhytoGen PSC 355	4.4	1.09	87	33.0	10.6
PhytoGen PSC 569	4.9	1.09	86	39.5	9.4
PhytoGen PSC 636	4.0	1.15	83	33.0	8.0
PhytoGen PSC 952	4.6	1.07	84	32.0	9.6
Stoneville 474	4.8	1.10	86	30.0	8.6
Stoneville BXN 47	4.2	1.09	84	32.0	9.2
Stoneville X 9901	3.6	1.12	81	31.0	8.6
Stoneville X 9902	4.7	1.10	85	31.0	9.0
Stoneville X 9903	4.3	1.11	85	33.5	8.6
Sure-Grow 105	4.2	1.14	84	31.0	9.2
Sure-Grow 125	4.6	1.13	85	30.0	10.2
Sure-Grow 501	4.4	1.11	84	34.0	9.2
Sure-Grow 747	4.5	1.16	87	30.0	9.8
Sure-Grow 125BR	4.8	1.07	86	28.0	10.4
Sure-Grow 501BR	4.6	1.07	86	31.0	9.4
Sure-Grow 125RR	4.2	1.08	85	31.0	10.0
Terra 292	4.4	1.15	84	30.0	9.0

continued

TABLE 23, CONTINUED. COTTON FIBER ANALYSIS, HVI, PRATTVILLE, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	4.6	1.13	84	30.0	7.4
AgriPro HS 44	4.4	1.11	83	31.0	6.8
AgriPro HS 46	4.2	1.09	84	34.0	7.6
ASCI Exp 0781	4.0	1.11	84	37.5	7.8
Deltapine Acala 90	4.5	1.10	83	35.5	7.0
Deltapine DP 675	4.7	1.08	84	35.0	10.0
Deltapine DP 5415	4.5	1.08	85	30.5	9.6
Deltapine NuCotn 33B	3.7	1.11	82	29.5	8.8
Deltapine NuCotn 35B	3.8	1.12	82	37.0	7.4
Deltapine DP 448B	4.1	1.11	83	31.0	7.6
Deltapine DP 5415RR	4.2	1.07	83	33.5	8.8
Deltapine DP 5690RR	4.2	1.08	83	33.5	7.6
Deltapine DP 458BRR	4.2	1.09	85	31.0	9.4
Deltapine DP 655BRR	4.2	1.10	84	33.0	7.8
Deltapine DPX 9765	4.2	1.11	84	33.0	8.0
F'Max 832	3.7	1.18	83	37.5	8.0
F'Max 989	4.2	1.10	83	34.0	7.8
HCR 7126	3.7	1.13	83	30.5	8.0
HCR 9240	3.9	1.15	83	31.0	9.0
HCR 9257	3.8	1.08	84	29.5	8.6
HCR 9263	4.3	1.10	84	33.5	9.4
PM 1560 BG	4.0	1.11	85	30.5	9.0
PM 1560 BG/RR	3.9	1.06	81	31.0	7.6
PhytoGen PSC 161	3.9	1.18	85	35.5	7.8
Sure-Grow 248	4.5	1.14	84	32.5	7.8
Sure-Grow 821	3.8	1.13	85	33.5	10.2

TABLE 24. COTTON FIBER ANALYSIS, HVI, SHORTER, ALABAMA, 1999

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					
AgriPro AP 6101	5.2	1.03	84	30.0	7.6
AgriPro AP 7115	4.7	0.99	82	27.0	8.0
ASCI Exp 0052	4.6	1.06	84	30.0	6.4
ASCI Exp 0222	4.6	1.05	84	30.0	7.0
Deltapine DP 388	4.7	1.00	84	28.0	9.2
Deltapine DP 5111	5.0	1.01	84	27.5	8.0
Deltapine DP 5409	4.7	1.03	82	29.0	7.8
Deltapine DP 20B	4.6	1.02	83	26.0	9.2
Deltapine DP 428B	4.9	1.04	84	28.5	8.4
Deltapine DP 425RR	5.3	1.02	83	26.0	9.0
Deltapine DP 436RR	5.1	1.03	84	27.0	9.6
Deltapine DP 409BRR	4.7	1.01	83	29.0	8.0
Deltapine DP 422BRR	4.9	1.01	85	27.0	9.2
Deltapine DP 451BRR	4.9	1.03	83	25.5	7.8
HCR 9220	4.5	1.01	83	29.0	8.6
HCR 9228	4.4	0.97	82	31.5	7.4
HCR 9310	5.0	1.03	83	27.5	8.8
HCR 7114-46	4.6	0.97	81	24.5	8.6
PM 1440	4.8	1.00	84	28.5	7.4
PMX 0425	5.0	1.00	82	28.0	8.6
PM 1330BG	4.2	1.01	83	26.0	7.6
PM 1560BG	5.1	1.01	86	27.5	9.0
PM 1218BG/RR	5.0	1.01	83	25.5	7.6
PM 1220BG/RR	4.6	0.99	83	29.5	7.8
PhytoGen PSC 355	5.1	0.98	84	32.0	9.2
PhytoGen PSC 569	5.4	0.98	84	35.0	9.0
PhytoGen PSC 636	4.8	0.99	82	27.5	7.4
PhytoGen PSC 952	4.9	1.02	85	31.0	8.8
Stoneville 474	5.2	0.99	84	25.0	8.0
Stoneville BXN 47	5.2	1.01	84	26.0	7.4
Stoneville X 9901	5.1	1.03	84	26.5	7.6
Stoneville X 9902	5.3	1.04	84	27.5	8.0
Stoneville X 9903	5.1	0.99	82	27.0	7.2
Sure-Grow 105	4.9	1.01	83	27.0	8.4
Sure-Grow 125	5.3	1.04	84	26.0	8.8
Sure-Grow 501	5.0	0.98	84	30.0	8.6
Sure-Grow 747	4.9	1.02	84	26.0	9.0
Sure-Grow 125BR	5.0	1.01	83	27.0	8.6
Sure-Grow 501BR	5.0	0.98	83	27.5	9.8
Sure-Grow 125RR	5.0	1.00	85	26.0	9.6
Terra 292	4.6	1.02	82	27.5	8.2

continued

TABLE 24, CONTINUED. COTTON FIBER ANALYSIS, HVI, SHORTER, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	4.9	1.05	84	32.0	6.8
AgriPro HS 44	5.3	1.04	83	30.0	6.6
AgriPro HS 46	4.7	0.99	84	30.0	7.4
ASCI Exp 0781	5.4	1.01	84	31.0	7.8
Deltapine Acala 90	4.9	1.02	85	33.0	7.2
Deltapine DP 675	5.2	1.03	84	32.5	9.2
Deltapine DP 5415	5.2	1.06	85	31.0	8.0
Deltapine NuCotn 33B	5.1	1.02	83	28.0	7.6
Deltapine NuCotn 35B	5.3	1.03	85	29.0	7.4
Deltapine DP 448B	4.9	1.03	82	28.0	7.4
Deltapine DP 5415RR	5.1	1.03	85	33.0	8.8
Deltapine DP 5690RR	5.3	1.03	87	32.5	7.8
Deltapine DP 458BRR	5.6	1.02	83	29.0	8.2
Deltapine DP 655BRR	5.0	1.05	83	31.0	6.8
Deltapine DPX 9765	4.8	1.06	84	29.0	8.2
F'Max 832	4.8	1.06	85	33.5	6.6
F'Max 989	4.8	1.01	85	31.5	6.8
HCR 7126	4.9	1.08	84	29.0	8.4
HCR 9240	4.9	1.09	85	30.0	7.8
HCR 9257	4.6	0.99	85	27.0	7.4
HCR 9263	5.2	1.02	84	30.5	9.0
PM 1560 BG	5.1	0.99	84	28.0	8.4
PM 1560 BG/RR	4.9	1.00	82	28.5	7.0
PhytoGen PSC 161	4.6	1.08	83	32.5	7.0
Sure-Grow 248	5.3	1.12	86	31.5	6.8
Sure-Grow 821	5.0	1.01	85	29.0	10.0

TABLE 25. COTTON FIBER ANALYSIS, HVI, MONROEVILLE, ALABAMA, 1999

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					
AgriPro AP 6101	4.7	1.13	83	29.5	8.2
AgriPro AP 7115	3.8	1.02	79	27.5	8.6
ASCI Exp 0052	3.8	1.06	81	26.5	6.2
ASCI Exp 0222	3.8	1.10	83	30.5	5.6
Deltapine DP 388	4.2	1.07	80	29.5	9.8
Deltapine DP 5111	4.4	1.08	82	29.0	6.8
Deltapine DP 5409	4.5	1.00	81	29.0	8.6
Deltapine DP 20B	4.5	1.00	81	25.5	9.6
Deltapine DP 428B	3.8	1.08	80	25.0	8.2
Deltapine DP 425RR	4.1	1.04	82	25.0	8.2
Deltapine DP 436RR	3.9	1.06	79	25.0	8.6
Deltapine DP 409BRR	3.9	1.05	79	24.5	7.6
Deltapine DP 422BRR	4.2	1.03	82	25.5	9.8
Deltapine DP 451BRR	4.3	1.03	81	24.5	8.0
HCR 9220	4.1	1.03	80	25.5	8.4
HCR 9228	3.3	1.00	78	28.5	7.0
HCR 9310	4.6	1.07	81	28.0	9.4
HCR 7114-46	4.1	1.06	81	25.5	8.6
PM 1440	4.7	1.04	80	26.0	8.0
PMX 0425	4.1	1.05	81	27.0	9.8
PM 1330BG	4.4	1.04	82	25.5	8.4
PM 1560BG	4.1	1.08	83	27.0	9.2
PM 1218BG/RR	4.6	1.05	82	26.5	9.0
PM 1220BG/RR	4.9	1.04	82	28.0	9.0
PhytoGen PSC 355	4.5	1.03	81	31.5	10.2
PhytoGen PSC 569	4.8	0.98	81	32.5	8.8
PhytoGen PSC 636	4.4	1.00	79	24.0	6.4
PhytoGen PSC 952	5.1	1.03	83	26.5	10.0
Stoneville 474	4.5	1.02	83	29.0	8.4
Stoneville BXN 47	5.2	1.00	82	26.0	8.6
Stoneville X 9901	4.3	0.95	80	26.5	8.4
Stoneville X 9902	4.8	1.04	83	28.0	8.4
Stoneville X 9903	4.6	1.01	80	24.5	8.0
Sure-Grow 105	4.9	1.03	83	28.0	8.2
Sure-Grow 125	4.8	1.08	83	26.5	9.0
Sure-Grow 501	4.7	1.09	83	30.5	8.6
Sure-Grow 747	4.1	1.08	80	25.5	9.4
Sure-Grow 125BR	4.0	1.04	82	26.5	9.2
Sure-Grow 501BR	4.1	1.03	81	31.0	9.8
Sure-Grow 125RR	4.4	1.02	82	26.0	9.2
Terra 292	4.6	1.00	81	25.0	8.0

continued

TABLE 25, CONTINUED. COTTON FIBER ANALYSIS, HVI, MONROEVILLE, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	4.2	1.03	80	28.5	7.2
AgriPro HS 44	4.3	1.04	81	28.5	7.0
AgriPro HS 46	4.2	1.03	80	27.5	7.6
ASCI Exp 0781	4.6	1.01	81	31.5	8.2
Deltapine Acala 90	4.9	1.02	81	28.0	7.6
Deltapine DP 675	4.5	1.02	82	32.0	9.4
Deltapine DP 5415	4.3	1.04	82	28.5	9.2
Deltapine NuCotn 33B	4.6	0.99	80	26.5	9.0
Deltapine NuCotn 35B	4.3	1.04	79	28.5	6.6
Deltapine DP 448B	4.5	1.05	80	26.5	9.0
Deltapine DP 5415RR	4.8	1.02	81	27.0	8.8
Deltapine DP 5690RR	4.6	0.99	79	29.5	7.6
Deltapine DP 458BRR	4.5	0.99	79	26.0	9.0
Deltapine DP 655BRR	4.6	1.04	81	29.0	7.6
Deltapine DPX 9765	4.0	1.09	80	26.5	8.6
F'Max 832	4.0	1.15	79	28.0	6.4
F'Max 989	4.4	1.03	81	31.0	7.2
HCR 7126	4.2	1.03	79	26.5	8.2
HCR 9240	4.1	1.03	81	27.5	8.6
HCR 9257	4.2	0.97	80	25.0	7.8
HCR 9263	5.1	1.04	83	28.0	10.2
PM 1560 BG	3.5	1.08	81	30.0	8.8
PM 1560 BG/RR	4.1	1.03	81	27.0	8.2
PhytoGen PSC 161	4.3	1.12	84	32.0	8.0
Sure-Grow 248	4.8	1.10	83	29.5	7.6
Sure-Grow 821	4.1	1.07	82	27.5	10.0

TABLE 26. COTTON FIBER ANALYSIS, HVI, HEADLAND, ALABAMA, 1999

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					
AgriPro AP 6101	5.3	1.10	81	30.0	9.0
AgriPro AP 7115	4.9	1.07	84	29.0	9.4
ASCI Exp 0052	5.0	1.07	83	32.5	6.4
ASCI Exp 0222	4.4	1.05	84	34.5	5.8
Deltapine DP 388	4.7	1.02	84	29.0	9.4
Deltapine DP 5111	5.3	1.05	85	28.5	8.4
Deltapine DP 5409	5.2	1.06	83	30.0	8.8
Deltapine DP 20B	5.1	1.05	83	26.5	9.8
Deltapine DP 428B	5.1	1.07	83	26.0	8.2
Deltapine DP 425RR	5.2	1.03	83	24.0	9.2
Deltapine DP 436RR	5.2	1.07	85	28.0	9.2
Deltapine DP 409BRR	4.7	1.04	82	28.5	9.0
Deltapine DP 422BRR	5.0	1.04	83	25.0	9.8
Deltapine DP 451BRR	5.2	1.08	84	26.5	9.2
HCR 9220	4.8	1.03	84	30.5	9.0
HCR 9228	4.7	1.03	84	32.0	7.8
HCR 9310	4.7	1.09	82	30.0	8.4
HCR 7114-46	5.0	1.06	83	25.5	8.0
PM 1440	5.2	1.04	8.3	27.0	8.0
PMX 0425	5.1	1.06	83	28.0	9.0
PM 1330BG	4.6	1.06	83	29.5	8.0
PM 1560BG	5.0	1.04	84	31.0	9.4
PM 1218BG/RR	4.9	1.00	85	28.0	8.0
PM 1220BG/RR	5.0	1.03	85	30.0	8.2
PhytoGen PSC 355	5.4	0.99	84	29.0	10.0
PhytoGen PSC 569	5.6	1.04	85	34.0	9.6
PhytoGen PSC 636	5.2	1.08	84	29.0	7.4
PhytoGen PSC 952	5.3	1.05	85	28.0	9.2
Stoneville 474	5.4	1.07	86	28.0	9.2
Stoneville BXN 47	5.5	1.05	86	28.0	8.6
Stoneville X 9901	5.0	1.00	81	27.0	8.0
Stoneville X 9902	5.5	1.08	84	28.0	9.0
Stoneville X 9903	5.3	1.04	83	29.0	8.8
Sure-Grow 105	5.0	1.05	83	28.0	8.8
Sure-Grow 125	5.0	1.07	86	26.0	9.6
Sure-Grow 501	5.0	1.03	84	31.5	9.6
Sure-Grow 747	5.3	1.08	84	28.0	9.4
Sure-Grow 125BR	5.3	1.02	83	26.5	10.0
Sure-Grow 501BR	4.8	1.03	83	29.0	9.6
Sure-Grow 125RR	5.1	1.02	84	28.5	8.8
Terra 292	4.8	1.12	87	28.5	8.4

continued

TABLE 26, CONTINUED. COTTON FIBER ANALYSIS, HVI, HEADLAND, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	5.0	1.08	84	31.0	8.4
AgriPro HS 44	5.3	1.02	83	29.5	7.4
AgriPro HS 46	4.8	1.08	86	33.0	8.0
ASCI Exp 0781	4.8	1.07	84	34.0	8.6
Deltapine Acala 90	5.2	1.08	85	30.5	8.0
Deltapine DP 675	5.0	1.06	83	30.0	9.0
Deltapine DP 5415	5.2	1.08	85	29.0	8.2
Deltapine NuCotn 33B	4.8	1.06	85	30.0	9.4
Deltapine NuCotn 35B	5.0	1.05	82	31.0	8.0
Deltapine DP 448B	5.0	1.07	84	28.5	8.8
Deltapine DP 5415RR	5.2	1.06	84	31.5	9.0
Deltapine DP 5690RR	5.2	1.08	83	32.5	8.0
Deltapine DP 458BRR	5.3	1.04	84	28.5	8.6
Deltapine DP 655BRR	5.0	1.08	85	31.0	7.8
Deltapine DPX 9765	5.2	1.08	85	27.5	9.0
F'Max 832	4.6	1.10	83	32.5	6.8
F'Max 989	4.8	1.07	82	32.5	7.4
HCR 7126	4.9	1.11	84	29.0	8.4
HCR 9240	5.2	1.08	83	32.5	8.8
HCR 9257	5.1	1.06	86	26.5	8.4
HCR 9263	5.3	1.06	86	28.5	9.6
PM 1560 BG	5.2	1.06	85	29.0	9.2
PM 1560 BG/RR	4.9	1.07	85	28.0	8.6
PhytoGen PSC 161	4.9	1.09	85	29.0	8.8
Sure-Grow 248	5.2	1.11	85	28.0	8.2
Sure-Grow 821	5.1	1.08	86	30.0	10.4

TABLE 27. COTTON FIBER ANALYSIS, HVI, FAIRHOPE, ALABAMA, 1999

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					
AgriPro AP 6101	4.3	1.14	82	30.5	9.0
AgriPro AP 7115	4.0	1.18	83	31.0	9.6
ASCI Exp 0052	4.0	1.18	84	30.0	6.2
ASCI Exp 0222	3.8	1.22	85	30.5	8.2
Deltapine DP 388	4.1	1.13	83	29.5	9.8
Deltapine DP 5111	4.3	1.12	85	30.0	8.8
Deltapine DP 5409	4.2	1.14	81	28.0	9.2
Deltapine DP 20B	3.9	1.10	82	26.0	10.2
Deltapine DP 428B	4.1	1.12	82	25.0	9.2
Deltapine DP 425RR	4.1	1.16	82	26.5	9.6
Deltapine DP 436RR	4.2	1.13	83	26.0	10.0
Deltapine DP 409BRR	3.6	1.12	81	27.5	9.2
Deltapine DP 422BRR	3.8	1.09	82	25.5	10.6
Deltapine DP 451BRR	3.5	1.15	82	25.5	10.0
HCR 9220	3.9	1.08	82	25.0	9.8
HCR 9228	4.1	1.09	84	30.5	9.4
HCR 9310	3.6	1.21	83	29.0	10.4
HCR 7114-46	3.9	1.08	82	27.0	9.6
PM 1440	4.4	1.15	85	26.5	8.8
PMX 0425	4.1	1.17	83	28.5	9.8
PM 1330BG	3.9	1.17	85	30.0	9.4
PM 1560BG	4.0	1.11	82	28.0	9.4
PM 1218BG/RR	4.3	1.07	82	25.0	8.8
PM 1220BG/RR	4.2	1.07	81	27.5	9.0
PhytoGen PSC 355	3.9	1.15	83	31.0	8.4
PhytoGen PSC 569	4.4	1.14	83	32.0	9.6
PhytoGen PSC 636	3.8	1.15	82	30.5	8.0
PhytoGen PSC 952	4.4	1.10	82	29.0	10.0
Stoneville 474	4.4	1.15	86	28.5	9.6
Stoneville BXN 47	3.8	1.17	83	29.5	9.2
Stoneville X 9901	3.8	1.14	82	29.5	9.6
Stoneville X 9902	4.5	1.12	84	30.0	9.4
Stoneville X 9903	3.9	1.08	85	28.0	9.8
Sure-Grow 105	4.5	1.13	85	28.0	10.0
Sure-Grow 125	4.6	1.11	85	24.0	9.8
Sure-Grow 501	4.5	1.15	84	30.0	9.8
Sure-Grow 747	4.5	1.16	83	26.5	10.2
Sure-Grow 125BR	3.9	1.11	82	27.0	10.0
Sure-Grow 501BR	4.5	1.09	85	28.0	9.8
Sure-Grow 125RR	3.7	1.11	83	28.0	10.2
Terra 292	4.2	1.15	83	27.0	10.0

continued

TABLE 27, CONTINUED. COTTON FIBER ANALYSIS, HVI, FAIRHOPE, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Full season					
AgriPro HS 12	4.0	1.14	83	30.0	8.6
AgriPro HS 44	3.4	1.15	81	29.5	8.4
AgriPro HS 46	3.4	1.16	82	33.0	9.2
ASCI Exp 0781	3.6	1.13	81	31.0	9.2
Deltapine Acala 90	4.0	1.09	84	28.5	8.0
Deltapine DP 675	4.1	1.13	84	31.0	9.0
Deltapine DP 5415	4.5	1.16	85	27.0	9.8
Deltapine NuCotn 33B	3.6	1.10	81	29.5	9.8
Deltapine NuCotn 35B	4.3	1.13	83	30.0	8.0
Deltapine DP 448B	3.7	1.11	82	29.0	9.0
Deltapine DP 5415RR	4.3	1.13	82	28.0	10.0
Deltapine DP 5690RR	4.1	1.16	84	31.5	9.0
Deltapine DP 458BRR	4.3	1.11	83	28.5	9.4
Deltapine DP 655BRR	4.2	1.09	82	29.5	8.6
Deltapine DPX 9765	4.4	1.12	83	26.5	9.4
F'Max 832	3.7	1.20	83	32.0	7.6
F'Max 989	4.1	1.16	84	31.5	8.8
HCR 7126	3.9	1.17	83	28.0	8.4
HCR 9240	3.8	1.16	84	29.0	9.6
HCR 9257	4.1	1.14	86	26.0	9.0
HCR 9263	4.1	1.19	86	30.0	10.2
PM 1560 BG	4.0	1.10	83	28.0	10.0
PM 1560 BG/RR	3.6	1.17	82	29.5	8.6
PhytoGen PSC 161	4.2	1.17	83	28.5	8.0
Sure-Grow 248	4.1	1.20	84	31.0	9.0
Sure-Grow 821	4.0	1.13	85	27.5	10.8

TABLE 28. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, BELLE MINA, ALABAMA, 1999

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					
AgriPro AP 6101	3.6	1.14	82	30.0	9.2
AgriPro AP 7115	3.5	1.11	80	28.5	9.2
Deltapine DP 5409	3.3	1.16	82	28.0	8.8
Deltapine DP 428B	3.4	1.12	81	27.5	9.2
Deltapine DP 436RR	3.4	1.11	82	27.0	9.6
Deltapine DP 451BRR	3.6	1.16	83	26.5	8.8
PM 1330BG	3.4	1.16	83	30.5	8.6
PM 1560BG	3.8	1.11	83	26.0	9.6
PM 1220 BG/RR	4.1	1.08	82	29.0	9.6
Stoneville 474	3.6	1.08	83	27.0	9.2
Stoneville BXN 47	3.2	1.10	82	27.0	8.6
Sure-Grow 105	3.7	1.13	83	29.5	9.4
Sure-Grow 125	3.7	1.13	81	28.0	10.2
Sure-Grow 747	4.1	1.13	82	28.5	10.4
Sure-Grow 125RR	3.7	1.11	84	29.5	9.8
Sure-Grow 501BR	4.1	1.10	83	30.5	9.4
Full season					
Deltapine Acala 90	3.4	1.11	83	32.0	8.4
Deltapine NuCotn 33B	3.5	1.10	81	28.5	8.8
Deltapine DP 5415RR	3.6	1.12	82	30.0	10.0
Deltapine DP 458BRR	3.3	1.07	82	27.5	8.8
Deltapine DP 655BRR	3.4	1.09	82	32.5	8.4
F'Max 832	3.3	1.18	83	31.5	7.6
F'Max 989	3.2	1.10	83	29.0	7.8
PM 1560BG/RR	3.4	1.15	83	27.5	8.8
Sure-Grow 248	3.8	1.16	83	29.0	7.8
Sure-Grow 821	3.3	1.13	83	27.5	10.6

TABLE 29. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, SHORTER, ALABAMA, 1999

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					
AgriPro AP 6101	4.9	1.11	85	33.0	9.6
AgriPro AP 7115	4.6	1.10	84	31.5	9.0
Deltapine DP 5409	5.3	1.09	82	30.5	9.2
Deltapine DP 428B	5.0	1.10	84	28.0	8.8
Deltapine DP 436RR	5.2	1.06	83	28.5	9.6
Deltapine DP 451BRR	5.2	1.09	84	27.0	8.4
PM 1330BG	4.6	1.06	82	30.5	8.4
PM 1560BG	5.2	1.05	84	31.0	9.8
PM 1220 BG/RR	4.8	1.04	84	29.0	8.8
Stoneville 474	5.6	1.05	84	27.5	8.8
Stoneville BXN 47	5.3	1.06	85	28.0	8.8
Sure-Grow 105	5.3	1.08	87	30.5	9.4
Sure-Grow 125	5.2	1.10	85	28.0	10.0
Sure-Grow 747	5.6	1.10	85	27.5	10.4
Sure-Grow 125RR	5.0	1.07	84	30.0	10.0
Sure-Grow 501BR	5.2	1.05	83	32.0	10.0
Full season					
Deltapine Acala 90	5.4	1.09	85	33.5	7.4
Deltapine NuCotn 33B	5.2	1.07	82	30.5	8.8
Deltapine DP 5415RR	5.4	1.07	84	28.0	8.4
Deltapine DP 458BRR	5.5	1.09	82	29.5	9.4
Deltapine DP 655BRR	4.9	1.09	84	32.5	7.0
F'Max 832	4.6	1.13	84	33.5	7.4
F'Max 989	5.3	1.11	87	33.5	7.0
PM 1560BG/RR	5.4	1.06	83	27.0	8.0
Sure-Grow 248	5.4	1.14	83	31.5	7.4
Sure-Grow 821	5.3	1.09	87	29.5	10.6

TABLE 30. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, HEADLAND, ALABAMA, 1999

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Deltapine Acala 90	5.1	1.12	86	30.0	7.2
Deltapine DP 5409	4.8	1.10	84	29.5	8.6
DeltapineNuCotn 33B	5.1	1.13	86	29.5	8.8
Deltapine DP 428B	4.9	1.09	83	25.0	8.2
Deltapine DP 5415RR	5.0	1.09	85	30.5	8.8
Deltapine DP 451BRR	5.0	1.12	85	26.5	8.8
Deltapine DP 458BRR	5.4	1.11	84	28.0	9.4
Deltapine DP 655BRR	4.7	1.11	85	32.5	7.0
F'Max 832	4.5	1.22	88	37.0	7.6
F'Max 989	4.8	1.11	85	33.5	7.0
PM 1220BG/RR	5.5	1.06	86	29.5	9.2
PM 1560BG/RR	4.8	1.08	85	28.0	8.0
Stoneville 474	5.4	1.10	85	27.0	9.2
Sure-Grow 125	5.2	1.09	86	27.0	10.0
Sure-Grow 248	5.0	1.17	83	28.5	7.6
Sure-Grow 747	5.1	1.11	85	28.0	10.0
Sure-Grow 821	5.1	1.11	85	28.0	10.6

TABLE 31. GROWING SEASON RAINFALL, 1997-99

Test Location	Year	Monthly Rainfall (inches)							7-month Total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	1999	5.1	3.8	4.7	6.5	3.6	0.2	0.6	24.5
	1998	4.3	4.3	2.4	1.8	5.3	1.8	0.9	20.8
	1997	5.4	4.0	3.6	6.5	1.7	4.0	5.9	31.1
Shorter	1999	4.7	1.9	3.3	9.2	3.5	2.4	2.1	27.1
	1998	6.5	5.2	4.4	2.6	2.6	2.2	9.9	33.4
	1997	2.7	6.8	3.5	5.5	2.4	3.9	3.3	28.1
Prattville	1999	4.9	1.7	3.2	9.6	10.7	2.6	1.8	34.5
	1998	5.3	2.4	2.5	2.7	4.1	3.4	8.6	29.3
	1997	3.0	5.9	3.3	6.8	3.0	3.4	2.2	27.6
Monroeville	1999	8.2	2.6	4.5	7.7	3.7	2.4	2.1	31.2
	1998	5.7	3.6	2.2	1.4	7.2	9.8	17.7	47.6
	1997	2.5	6.0	7.6	5.5	2.7	1.6	0.8	26.7
Fairhope	1999	5.8	0.1	3.2	8.3	9.7	6.0	2.3	35.4
	1998	6.1	4.5	0.8	2.2	6.1	5.9	24.1	49.7
	1997	3.8	6.3	8.0	5.9	28.6	1.3	1.3	55.2
Headland	1999	3.3	1.2	6.0	5.9	4.1	1.1	1.5	23.1
	1998	9.2	2.7	0.5	2.4	9.6	3.9	14.8	43.1
	1997	2.8	6.4	4.2	7.9	5.6	2.4	3.7	33.0

TABLE 32. SOIL TYPES FOR COTTON TRIALS, 1999

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 33. SOURCES OF SEED FOR THE 1999 COTTON VARIETY TRIALS

Brand-variety	Company
AgriPro HS 44, AgriPro AP 6101, AgriPro HS 46, AgriPro AP 7115	AgriPro Seed Co. Memphis, Tennessee
Deltapine Acala 90, Deltapine DP 20B, Deltapine DP 388, Deltapine DP 428B, Deltapine DP 675, Deltapine DP 448B Deltapine DP 5111, Deltapine DP 409BRR, Deltapine DP 5409 Deltapine DP 422BRR, Deltapine DP 425RR, Deltapine DP 451BRR Deltapine DP 436RR, Deltapine DP 458BRR, Deltapine DP 5415RR Deltapine DP 655BRR, Deltapine DP 5690RR, Deltapine DPX 9765 Deltapine NuCotn 33B, Deltapine DP 5415, Deltapine NuCotn 35B	Delta and Pine Land Co. Scott, Mississippi
F'Max 832, ACSI EXP 0052, F'Max 989, ACSI EXP 0222 ACSI EXP 0781	AgrEvo USA Company Collierville, Tennessee
HCR 7126, HCR 9240, HCR 7114-46, HCR 9257 HCR 9220, HCR 9263, HCR 9228, HCR 9310	Helena Cotton Research Casa Grande, Arizona
Paymaster PM 1440, Paymaster PM 1218BG/RR, Paymaster PM 1330BG Paymaster PM 1220BG/RR, Paymaster PM 1560BG Paymaster PM 1560BG/RR, Paymaster PM X0425	Paymaster Cottonseed Lubbock, Texas
PhytoGen PSC 355, PhytoGen PSC 952, PhytoGen PSC 569 PhytoGen PSC 161, PhytoGen PSC 636, PhytoGen HS 12	PhytoGen Seed Company Leland, Mississippi
Stoneville 474, Stoneville STX 9901, Stoneville BXN 47, Stoneville STX 9902 Stoneville STX 9903	Stoneville Pedigreed Seed Co. Stoneville, Mississippi
Sure-Grow 105, Sure-Grow 747, Sure-Grow 125, Sure-Grow 821 Sure-Grow 248, Sure-Grow 125BR, Sure-Grow 501, Sure-Grow 501BR Sure-Grow 125RR	Sure-Grow Seed, Inc. Centre, Alabama
Terra 292	Terra International, Inc. Leland, Mississippi
Acala MAXXA	CPCS Distributor Shafter, California
All Tex Atlas	