

2001 Alabama Cotton Variety Report

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Table of Contents

	Page
Introduction	3
Experimental Conditions	3
Cotton Variety Response to Reniform Nematode	3
Explanation of Data	3
Statistical Analysis	4
Acknowledgments	4
Table 1 Performance of Early Season Cotton Varieties at Belle Mina, Alabama, 2001	5
Table 2 Performance of Full Season Cotton Varieties at Belle Mina, Alabama, 2001	6
Table 3 Performance of Early Season Cotton Varieties at Prattville, Alabama, 2001	7
Table 4 Performance of Full Season Cotton Varieties at Prattville, Alabama, 2001	8
Table 5 Performance of Early Season Cotton Varieties at Shorter, Alabama, 2001	9
Table 6 Performance of Full Season Cotton Varieties at Shorter, Alabama, 2001	10
Table 7 Performance of Early Season Cotton Varieties at Headland, Alabama, 2001	11
Table 8 Performance of Full Season Cotton Varieties at Headland, Alabama, 2001	12
Table 9 Performance of Early Season Cotton Varieties at Fairhope, Alabama, 2001	13
Table 10 Performance of Full Season Cotton Varieties at Fairhope, Alabama, 2001	14
Table 11 Performance of Early Season Cotton Varieties, Average of all Locations, 2001	15
Table 12 Performance of Full Season Cotton Varieties, Average of all Locations, 2001	16
Table 13 Performance of Early Season Irrigated Cotton Varieties at Belle Mina, Alabama, 2001	17
Table 14 Performance of Full Season Irrigated Cotton Varieties at Belle Mina, Alabama, 2001	17
Table 15 Performance of Early Season Irrigated Cotton Varieties at Headland, Alabama, 2001	18
Table 16 Relative Yield Rankings by Location of Early Season Cotton Varieties, 2001	19
Table 17 Relative Yield Rankings by Location of Full Season Cotton Varieties, 2001	20
Table 18 Cotton Fiber Analysis, HVI, Belle Mina, Alabama, 2001	21
Table 19 Cotton Fiber Analysis, HVI, Prattville, Alabama, 2001	22
Table 20 Cotton Fiber Analysis, HVI, Shorter, Alabama, 2001	23
Table 21 Cotton Fiber Analysis, HVI, Headland, Alabama, 2001	24
Table 22 Cotton Fiber Analysis, HVI, Fairhope, Alabama, 2001	25
Table 23 Cotton Fiber Analysis, HVI, Irrigated Cotton, Belle Mina, Alabama, 2001	26
Table 24 Cotton Fiber Analysis, HVI, Irrigated Cotton, Headland, Alabama, 2001	27
Table 25 Performance of Black Belt Cotton Varieties, Hale County, Alabama, 2001	28
Table 26 Cotton Variety Response to Reniform Nematode, Huxford, Alabama, 2001	29
Table 27 Cotton Fiber Analysis, HVI, Treated Varieties, Huxford, Alabama, 2001	30
Table 28 Cotton Fiber Analysis, HVI, Untreated Varieties, Huxford, Alabama, 2001	31
Table 29 Growing Season Rainfall, 1999-01	32
Table 30 Soil Types for Cotton Trials, 2001	32
Sources of Seed for the 2001 Cotton Variety Trials	33

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

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2001 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 Alabama Cooperative Extension System to producers. Data are reported on an irrigated test at Belle Mina and Headland. No other tests received scheduled supplemental irrigation. Every effort is made to test the varieties and present the results in an unbiased manner.

EXPERIMENTAL CONDITIONS

Tests were split into early season and full season varieties. The maturity category for each variety was chosen by the company or cooperator. Deltapine NuCotn 33B and Sure-Grow 747 were included in both early and full season tests for comparison. Plot size was two rows at Prattville, Headland, Belle Mina, Shorter, and Fairhope. Row length varied at different locations from 20 to 120 feet. A randomized complete block experimental design with four replications was used in all tests.

COTTON VARIETY RESPONSE TO RENIFORM NEMATODE

Cotton varieties were evaluated in a producer's field on a sandy loam soil in Huxford, Alabama, by Dr. Kathy McLean of Auburn University's Department of Entomology and Plant Pathology. This field was naturally infested with reniform nematode (*Rotylenchulus reniform*) and had been continuously cropped in cotton.

All varieties were evaluated with and without the use of a chemical nematicide to give an indication of possible tolerance to reniform nematodes. Telone II was applied to all treated plots at six gallons per acre two weeks before planting by injecting the chemical 12 inches deep with shanks directly in the row. Di-Syston was applied to all plots at seven pounds per acre at planting in the seed furrow with chemical granular applicators attached to the planter.

Plots consisted of one row, 25 feet long with a 36-inch row spacing. Plots were arranged in a split plot design with six replications. All plots were maintained with standard production practices and were non-irrigated. Population densities of reniform nematode were determined at planting and at harvest.

The season was cool and dry initially but adequate moisture through the season produced good cotton growth. Reniform nematode numbers increased in all plots regardless of variety or nematicide. The application of Telone II increased average yields over all varieties by 298 pounds of seed cotton per acre. Table 26 shows actual lint yields and nematode counts for both treated and untreated cotton trials.

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.

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Lint Percentage

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

Yield of Lint

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

Fiber Properties

Fiber qualities of all varieties were measured by the Auburn University Textile Engineering Fiber Physical Testing Laboratory using High Volume Instrumentation (HVI). Data are reported on a single composite sample of each variety from all locations including the regional tests at Shorter and Belle Mina.

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

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

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

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

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

Earliness

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

Fusarium Wilt

Reaction of varieties to *Fusarium oxysporum* f. *vasinfectum* (fusarium wilt) was evaluated at the Plant Breeding Unit, Tallassee. Breeder lines and selected varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2001, incidence of Fusarium wilt was moderate. The incidence ratings can be found in the 2001 National Fusarium Wilt Cotton Report, Departmental Series No. 238.

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}).

ACKNOWLEDGMENTS

Appreciation is expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas. Chet Norris and Ellis Burgess, Tennessee Valley Research and Extension Center; Don Moore, Prattville Experiment Field; Bobby Durbin, E. V. Smith Research Center; Randy Akridge, Brewton Experiment Field and Huxford; Larry Wells and Brian Gamble, Wiregrass Research and Extension Center; Ronnie McDaniel and Malcomb Pegues, Gulf Coast Research and Extension Center.

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, 2001

Variety	2001			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 501BR	1,245	41	—	974	892
Sure-Grow 105	1,383	42	—	996	880
Paymaster PM 1218BG/RR	1,189	42	—	952	874
Sure-Grow 747	1,269	42	—	994	867
Deltapine DP 428B	1,412	39	—	1,038	866
Deltapine DP 20B	1,182	38	—	946	833
Stoneville BXN 47	1,356	43	—	1,019	829
Stoneville ST 4691B	1,293	42	—	1,013	825
PhytoGen PSC 355	1,203	40	—	912	825
Sure-Grow 125BR	1,174	40	—	903	811
Paymaster PM1560BG	1,170	42	—	924	810
Deltapine DP 425RR	1,220	39	—	975	807
Stoneville ST 4892BR	1,273	43	—	958	804
Deltapine DP 451B/RR	1,208	38	—	922	797
Deltapine DP 436RR	1,209	38	—	916	784
Deltapine NuCotn 33B	1,208	39	—	918	762
Deltapine DP 422B/RR	1,023	36	—	818	755
AllTex Atlas	899	37	—	722	620
Sure-Grow 521R	1,145	40	—	913	—
Fiber Max FM 966	1,231	42	—	902	—
1500 RR	1,058	40	—	867	—
Sure-Grow 215B/R	1,348	42	—	—	—
Germain's GC-377	1,218	41	—	—	—
AMX 4207	1,214	40	—	—	—
Germain's GC-271	1,200	39	—	—	—
Deltapine DP 491	1,187	43	—	—	—
FiberMax 958	1,154	42	—	—	—
Stoneville ST 4793R	1,135	41	—	—	—
PM 1199 RR	1,052	42	—	—	—
Test Mean	1,202				
L.S.D. (.05)	115				
C.V.	7%				

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2001

Variety	2001			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>		
FiberMax FM 989	1,144	42	—	939	809
Sure-Grow 821	1,032	40	—	865	781
Deltapine DP 5415 RR	1,184	43	—	967	776
PhytoGen HS 12	1,045	40	—	868	756
Deltapine NuCotn 33B	1,088	39	—	853	739
PhytoGen PSC 161	900	40	—	814	716
Paymaster PM 1560BG/RR	961	41	—	792	705
Deltapine DP 655BRR	905	39	—	787	692
FiberMax FM 832	861	40	—	782	690
Deltapine DP 458BRR	1,037	41	—	845	682
Acala MAXXA	568	39	—	551	516
Sure-Grow 747	1,211	43	—	1,004	—
4600 RR	1,113	40	—	875	—
Deltapine DP 491	1,181	43	—	—	—
Deltapine DP 448B	1,162	40	—	—	—
Deltapine DP 5415	1,103	42	—	—	—
DP Delta Pearl	1,066	42	—	—	—
Deltapine DP 565	1,057	41	—	—	—
Stoneville ST 4892BR	1,056	41	—	—	—
Deltapine DP 5690RR	1,038	39	—	—	—
Stoneville ST 580	1,013	41	—	—	—
PhytoGen Phy 72 Acala	1,005	41	—	—	—
Deltapine NuCotn 35B	962	39	—	—	—
Deltapine Acala 90	943	40	—	—	—
Stoneville STX 9905	942	41	—	—	—
Deltapine DP 5690	911	40	—	—	—
Test Mean	1,019				
L.S.D. (.05)	139				
C.V.	10%				

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2001

Variety	2001			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>		
PhytoGen PSC 355	1,596	42	96	1,174	1,260
Sure-Grow 747	1,359	41	94	1,007	1,136
Paymaster PM 1218BG/RR	1,403	43	96	1,017	1,125
Sure-Grow 501BR	1,399	40	93	981	1,097
Stoneville ST 4691B	1,336	40	92	974	1,086
Sure-Grow 105	1,357	40	93	981	1,080
Stoneville BXN 47	1,357	42	94	974	1,074
Sure-Grow 125BR	1,350	39	92	919	1,053
Paymaster PM1560BG	1,341	41	93	884	1,034
Stoneville ST 4892BR	1,307	40	92	892	1,014
Deltapine DP 428B	1,250	37	88	881	1,003
Deltapine NuCotn 33B	1,278	38	88	894	1,000
Deltapine DP 425RR	1,168	38	92	860	990
Deltapine DP 451B/RR	1,273	37	92	861	979
Deltapine DP 436RR	1,172	36	92	873	961
Deltapine DP 422B/RR	1,185	38	90	786	936
Deltapine DP 20B	1,138	36	91	809	874
FiberMax FM 966	1,638	41	95	1,080	—
1500 RR	1,232	39	92	880	—
Sure-Grow 521R	1,086	40	91	843	—
Deltapine DP 491	1,365	42	94	—	—
Sure-Grow 215B/R	1,331	40	91	—	—
AMX 4207	1,263	41	94	—	—
Germain's GC-271	1,252	36	94	—	—
Stoneville ST 4793R	1,249	41	92	—	—
PM 1199 RR	1,198	42	94	—	—
Germain's GC-377	1,102	38	88	—	—
Test Mean	1,296				
L.S.D. (.05)	111				
C.V.	6%				

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2001

Variety	2001			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>		
FiberMax FM 989	1,380	40	92	986	1,071
PhytoGen PSC 161	1,331	38	91	971	1,043
PhytoGen HS 12	1,224	38	87	892	1,022
Sure-Grow 821	1,306	40	91	958	1,013
FiberMax FM 832	1,229	40	94	904	988
Paymaster PM 1560BG/RR	1,287	41	89	892	963
Deltapine NuCotn 33B	1,179	37	87	835	957
Deltapine DP 655BRR	1,090	37	85	820	945
Deltapine DP 5415 RR	1,196	38	87	843	898
Deltapine DP 458BRR	1,084	38	85	785	878
4600 RR	1,390	42	90	947	—
Sure-Grow 747	1,333	40	92	937	—
Stoneville ST 4892BR	1,518	43	90	—	—
DP Delta Pearl	1,441	41	93	—	—
Stoneville STX 9905	1,372	41	94	—	—
Deltapine DP 491	1,334	41	93	—	—
Deltapine DP 5690RR	1,260	40	90	—	—
Stoneville ST 580	1,249	38	88	—	—
Deltapine DP 565	1,248	39	89	—	—
Deltapine Acala 90	1,239	39	88	—	—
PhytoGen Phy 72 Acala	1,229	39	91	—	—
Deltapine DP 5690	1,223	39	89	—	—
Deltapine DP 448B	1,204	38	86	—	—
Deltapine NuCotn 35B	1,187	37	88	—	—
Deltapine DP 5415	1,055	39	82	—	—
Test Mean	1,264				
L.S.D. (.05)	118				
C.V.	7%				

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2001

Variety	2001			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 747	1,859	42	—	1,500	1,335
PhytoGen PSC 355	1,800	41	—	1,494	1,319
Sure-Grow 501BR	1,842	40	—	1,453	1,289
Sure-Grow 105	1,774	40	—	1,447	1,281
Stoneville BXN 47	1,804	42	—	1,427	1,269
Paymaster PM 1218BG/RR	1,835	41	—	1,369	1,257
Paymaster PM1560BG	1,759	41	—	1,363	1,227
Stoneville ST 4691B	1,648	41	—	1,385	1,222
Stoneville ST 4892BR	1,721	41	—	1,388	1,220
Deltapine DP 20B	1,588	37	—	1,280	1,172
Deltapine DP 428B	1,634	38	—	1,276	1,146
Sure-Grow 125BR	1,508	38	—	1,247	1,141
Deltapine DP 425RR	1,590	38	—	1,262	1,140
Deltapine DP 451B/RR	1,598	36	—	1,253	1,123
Deltapine NuCotn 33B	1,495	38	—	1,199	1,102
Deltapine DP 436RR	1,508	36	—	1,211	1,084
Deltapine DP 422B/RR	1,473	37	—	1,157	1,062
AllTex Atlas	1,206	36	—	1,070	941
FiberMax FM 966	1,818	41	—	1,437	—
Sure-Grow 521R	1,583	41	—	1,339	—
1500 RR	1,461	39	—	1,269	—
Sure-Grow 215B/R	1,734	40	—	—	—
Stoneville ST 4793R	1,666	42	—	—	—
Deltapine DP 491	1,635	43	—	—	—
AMX 4207	1,612	39	—	—	—
Germain's GC-271	1,571	38	—	—	—
FiberMax 958	1,554	41	—	—	—
Germain's GC-377	1,430	40	—	—	—
PM 1199 RR	1,313	41	—	—	—
Test Mean	1,621				
L.S.D. (.05)	163				
C.V.	7%				

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2001

Variety	2001			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 821	1,509	39	—	1,147	1,088
PhytoGen PSC 161	1,384	38	—	1,092	1,038
Paymaster PM 1560BG/RR	1,415	39	—	1,084	1,017
FiberMax FM 989	1,320	39	—	1,073	1,017
Deltapine DP 5415 RR	1,326	38	—	1,032	999
PhytoGen HS 12	1,241	37	—	996	985
FiberMax FM 832	1,174	38	—	1,000	969
Deltapine NuCotn 33B	1,219	37	—	939	952
Deltapine DP 655BRR	990	36	—	870	920
Deltapine DP 458BRR	1,167	38	—	916	887
Acala MAXXA	960	39	—	806	704
Sure-Grow 747	1,476	40	—	1,145	—
4600 RR	1,439	39	—	1,075	—
Stoneville STX 9905	1,576	41	—	—	—
Deltapine DP 491	1,529	43	—	—	—
Deltapine DP 565	1,407	39	—	—	—
Stoneville ST 580	1,401	38	—	—	—
DP Delta Pearl	1,388	40	—	—	—
Stoneville ST 4892BR	1,374	41	—	—	—
Deltapine DP 448B	1,320	37	—	—	—
Deltapine Acala 90	1,319	37	—	—	—
Deltapine NuCotn 35B	1,291	36	—	—	—
Deltapine DP 5690	1,273	37	—	—	—
PhytoGen Phy 72 Acala	1,206	38	—	—	—
Deltapine DP 5690RR	1,188	37	—	—	—
Deltapine DP 5415	1,082	37	—	—	—
Test Mean	1,307				
L.S.D. (.05)	195				
C.V.	11%				

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2001

Variety	2001			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 747	830	39	—	612	722
Paymaster PM1560BG	901	39	—	608	706
PhytoGen PSC 355	772	40	—	574	705
Sure-Grow 501BR	800	39	—	586	692
Stoneville BXN 47	869	40	—	619	688
Deltapine DP 451B/RR	784	36	—	573	678
Sure-Grow 125BR	796	38	—	580	674
Stoneville ST 4892BR	832	41	—	597	673
Sure-Grow 105	758	39	—	580	672
Deltapine DP 20B	775	36	—	578	671
Stoneville ST 4691B	844	42	—	600	661
Deltapine DP 436RR	715	35	—	573	656
Deltapine DP 428B	707	37	—	529	649
Deltapine DP 425RR	600	37	—	500	631
Paymaster PM 1218BG/RR	902	41	—	532	629
Deltapine DP 422B/RR	709	38	—	521	624
Deltapine NuCotn 33B	691	37	—	525	609
FiberMax FM 966	896	40	—	631	—
Sure-Grow 521R	767	40	—	544	—
1500 RR	791	39	—	544	—
Germain's GC-271	921	36	—	—	—
Deltapine DP 491	908	41	—	—	—
Stoneville ST 4793R	861	42	—	—	—
Sure-Grow 215B/R	829	38	—	—	—
PM 1199 RR	719	40	—	—	—
Germain's GC-377	689	38	—	—	—
AMX 4207	639	38	—	—	—
Test Mean	789				
L.S.D. (.05)	200				
C.V.	18%				

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2001

Variety	2001			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 821	1,146	38	—	750	778
FiberMax FM 832	1,010	40	—	677	754
PhytoGen HS 12	1,139	39	—	732	742
Deltapine DP 458BRR	1,037	40	—	679	717
PhytoGen PSC 161	934	37	—	639	715
Paymaster PM 1560BG/RR	1,072	40	—	677	711
Deltapine NuCotn 33B	926	36	—	619	699
FiberMax FM 989	1,001	40	—	639	694
Deltapine DP 5415 RR	995	38	—	654	677
Deltapine DP 655BRR	840	39	—	584	666
Sure-Grow 747	1,106	39	—	725	—
4600 RR	1,024	40	—	659	—
Deltapine DP 5690RR	1,217	38	—	—	—
Deltapine NuCotn 35B	1,212	37	—	—	—
Deltapine DP 491	1,211	42	—	—	—
Stoneville STX 9905	1,105	40	—	—	—
Stoneville ST 4892BR	1,095	41	—	—	—
DP Delta Pearl	1,093	42	—	—	—
Stoneville ST 580	1,087	40	—	—	—
Deltapine DP 5415	996	37	—	—	—
Deltapine DP 5690	973	37	—	—	—
Deltapine Acala 90	951	37	—	—	—
Deltapine DP 565	880	39	—	—	—
Deltapine DP 448B	873	39	—	—	—
PhytoGen Phy 72 Acala	791	38	—	—	—
Test Mean	1,029				
L.S.D. (.05)	204				
C.V.	14%				

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2001

Variety	2001			2-yr. Av. Lint/Acre lb.	3-yr. Av. Lint/Acre lb.
	Lint/Acre lb.	Lint pct.	Boll rot pct.		
Deltapine DP 428B	957	37	21.7	1,128	1,139
Stoneville BXN 47	1,034	39	25.9	1,193	1,120
Paymaster PM1560BG	878	38	26.8	1,068	1,119
Sure-Grow 747	832	39	23.0	1,075	1,108
PhytoGen PSC 355	974	40	21.1	1,129	1,096
Deltapine NuCotn 33B	1,003	37	27.0	1,133	1,062
Sure-Grow 105	851	36	29.2	982	1,046
Deltapine DP 425RR	963	35	25.0	1,072	1,026
Deltapine DP 20B	800	35	27.3	944	1,018
Deltapine DP 436RR	838	35	28.3	1,016	987
Stoneville ST 4892BR	1,060	39	26.1	1,226	—
Stoneville ST 4691B	1,019	39	23.8	1,214	—
Sure-Grow 501BR	959	36	24.6	1,147	—
Sure-Grow 125BR	943	35	21.3	1,144	—
Deltapine DP 451B/RR	884	34	18.1	1,085	—
Paymaster PM 1218BG/RR	956	39	21.7	1,025	—
Deltapine DP 422B/RR	904	36	25.5	993	—
Sure-Grow 215B/R	1,030	37	20.0	—	—
FiberMax FM 966	984	39	22.9	—	—
Deltapine DP 491	969	41	24.4	—	—
Sure-Grow 521R	920	37	22.2	—	—
Germain's GC-377	911	38	32.5	—	—
Stoneville ST 4793R	910	39	23.5	—	—
1500 RR	875	37	28.9	—	—
Germain's GC-271	872	35	26.6	—	—
AMX 4207	789	37	26.5	—	—
PM 1199 RR	735	38	27.7	—	—
Test Mean	920				
L.S.D. (.05)	110				
C.V.	8%				

* 1998, 1999 & 2001

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT FAIRHOPE, ALABAMA, 2001

Variety	2001			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>	Boll rot <i>pct.</i>		
Deltapine NuCotn 35B	1,070	37	14.7	1,184	1,121
Deltapine NuCotn 33B	952	37	21.1	1,057	1,035
Sure-Grow 821	896	37	28.5	1,010	1,028
Deltapine DP 458BRR	874	38	16.5	1,011	1,021
Deltapine DP 5415 RR	949	40	16.6	941	952
Deltapine DP 655BRR	800	37	11.4	972	929
FiberMax FM 989	858	38	23.7	933	903
PhytoGen PSC 161	951	36	18.3	984	902
Deltapine DP 5690RR	866	37	19.4	880	856
Deltapine Acala 90	769	37	15.1	789	802
FiberMax FM 832	763	37	18.3	825	798
Deltapine DP 448B	862	37	22.5	1,084	—
PhytoGen HS 12	968	37	23.0	1,026	—
Paymaster PM 1560BG/RR	909	38	21.7	1,011	—
Deltapine DP 5415	933	40	16.6	938	—
DP Delta Pearl	1,071	39	18.8	—	—
Stoneville ST 4892BR	1,035	38	19.2	—	—
4600 RR	1,027	39	14.5	—	—
Deltapine DP 565	1,025	39	22.9	—	—
Deltapine DP 491	1,020	39	17.9	—	—
Stoneville STX 9905	1,017	39	16.7	—	—
Sure-Grow 747	932	39	20.6	—	—
Stoneville ST 580	873	35	18.4	—	—
PhytoGen Phy 72 Acala	772	37	22.3	—	—
Deltapine DP 5690	737	37	13.3	—	—
Test Mean	917				
L.S.D. (.05)	134				
C.V.	10%				

* 1998, 1999 & 2001

**TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2001**

Variety	Yield, Lint/Acre			Lint			Earliness		
	2001 <i>lb.</i>	2000-01 <i>lb.</i>	1999-01 <i>lb.</i>	2001 <i>pct.</i>	2000-01 <i>pct.</i>	1999-01 <i>pct.</i>	2001 <i>pct.</i>	2000-01 <i>pct.</i>	1999-01 <i>pct.</i>
PhytoGen PSC 355	1,343	1,038	1,027	41	41	41	96	93	—
Sure-Grow 747	1,329	1,028	1,015	41	41	41	94	93	—
Sure-Grow 501BR	1,322	999	993	40	39	39	93	92	—
Sure-Grow 105	1,318	1,001	978	40	40	39	93	92	—
Paymaster PM 1218BG/RR	1,332	967	971	42	42	41	96	94	—
Stoneville BXN 47	1,346	1,010	965	42	41	41	94	91	—
Stoneville ST 4691B	1,280	993	949	41	41	41	92	88	—
Paymaster PM1560BG	1,293	945	944	41	41	40	93	93	—
Stoneville ST 4892BR	1,283	959	928	41	41	41	92	89	—
Sure-Grow 125BR	1,207	912	920	39	38	38	92	90	—
Deltapine DP 428B	1,251	931	916	38	37	37	88	89	—
Deltapine DP 451B/RR	1,216	902	894	37	37	36	92	89	—
Deltapine DP 425RR	1,144	899	892	38	38	38	92	92	—
Deltapine DP 20B	1,170	904	887	37	38	38	91	91	—
Deltapine DP 436RR	1,151	893	871	36	36	36	92	92	—
Deltapine NuCotn 33B	1,168	884	868	38	37	37	88	86	—
Deltapine DP 422B/RR	1,097	821	844	37	37	37	90	91	—
AllTex Atlas	1,052	896	781	37	36	36	—	—	—
FiberMax FM 966	1,396	1,013	—	41	41	—	95	93	—
Sure-Grow 521R	1,145	910	—	40	40	—	91	90	—
1500 RR	1,136	890	—	39	39	—	92	92	—
FiberMax 958	1,354	—	—	42	—	—	—	—	—
Sure-Grow 215B/R	1,310	—	—	40	—	—	91	—	—
Deltapine DP 491	1,274	—	—	42	—	—	94	—	—
Germain's GC-271	1,236	—	—	37	—	—	94	—	—
Stoneville ST 4793R	1,228	—	—	42	—	—	92	—	—
AMX 4207	1,182	—	—	40	—	—	94	—	—
Germain's GC-377	1,110	—	—	39	—	—	88	—	—
PM 1199 RR	1,070	—	—	41	—	—	94	—	—

**TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2001**

Variety	Yield, Lint/Acre			Lint			Earliness		
	2001 <i>lb.</i>	2000-01 <i>lb.</i>	1999-01 <i>lb.</i>	2001 <i>pct.</i>	2000-01 <i>pct.</i>	1999-01 <i>pct.</i>	2001 <i>pct.</i>	2000-01 <i>pct.</i>	1999-01 <i>pct.</i>
Sure-Grow 821	1,248	930	915	39	39	39	91	—	—
FiberMax FM 989	1,211	909	898	40	40	40	92	—	—
PhytoGen PSC 161	1,137	879	878	38	39	39	91	—	—
PhytoGen HS 12	1,162	872	876	39	38	38	87	—	—
FiberMax FM 832	1,068	841	851	40	39	39	94	—	—
Paymaster PM 1560BG/RR	1,184	861	849	40	40	40	89	—	—
Deltapine DP 5415 RR	1,175	874	837	39	39	39	87	—	—
Deltapine NuCotn 33B	1,103	812	837	37	37	37	87	—	—
Deltapine DP 655BRR	956	765	806	38	38	37	85	—	—
Deltapine DP 458BRR	1,081	806	791	39	39	39	85	—	—
Acala MAXXA	764	678	610	39	41	40	—	—	—
Sure-Grow 747	1,281	953	—	41	41	—	92	—	—
4600 RR	1,241	889	—	40	40	—	90	—	—
Deltapine DP 491	1,314	—	—	42	—	—	93	—	—
Stoneville ST 4892BR	1,261	—	—	42	—	—	90	—	—
Stoneville STX 9905	1,249	—	—	41	—	—	94	—	—
DP Delta Pearl	1,247	—	—	41	—	—	93	—	—
Stoneville ST 580	1,187	—	—	39	—	—	88	—	—
Deltapine DP 5690RR	1,176	—	—	39	—	—	90	—	—
Deltapine NuCotn 35B	1,163	—	—	37	—	—	88	—	—
Deltapine DP 565	1,148	—	—	40	—	—	89	—	—
Deltapine DP 448B	1,140	—	—	39	—	—	86	—	—
Deltapine Acala 90	1,113	—	—	38	—	—	88	—	—
Deltapine DP 5690	1,095	—	—	38	—	—	89	—	—
Deltapine DP 5415	1,059	—	—	39	—	—	82	—	—
PhytoGen Phy 72 Acala	1,058	—	—	39	—	—	91	—	—

**TABLE 13. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2001**

Variety	2001			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 501BR	1,538	40	81	1,407	1,366
Sure-Grow 747	1,392	42	88	1,368	1,357
Deltapine DP 428B	1,499	38	85	1,414	1,290
Deltapine DP 451B/RR	1,514	38	88	1,342	1,281
Deltapine DP 436RR	1,345	36	88	1,299	1,219
Deltapine NuCotn 33B	1,374	40	79	1,273	1,179
Sure-Grow 521R	1,384	41	87	1,410	—
PhytoGen PSC 355	1,459	40	90	1,390	—
Paymaster PM 1218BG/R	1,360	40	87	1,382	—
Deltapine DP 20B	1,291	38	91	1,314	—
1500 RR	1,113	40	73	1,222	—
Stoneville ST 4892BR	1,555	42	88	—	—
Stoneville ST 4793R	1,505	42	86	—	—
Sure-Grow 215B/R	1,499	40	85	—	—
Deltapine DP 425RR	1,292	38	82	—	—
FiberMax FM 966	1,221	35	83	—	—
Deltapine DP 491	1,136	42	67	—	—
Test Mean	1,381				
L.S.D. (.05)	172				
C.V.	9%				

**TABLE 14. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2001**

Variety	2001			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>		
FiberMax FM 989	1,692	41	88	1,542	1,344
Deltapine NuCotn 33B	1,322	40	79	1,336	1,174
FiberMax FM 832	1,404	41	88	1,308	1,148
Deltapine DP 5415 RR	1,156	40	65	1,227	1,097
Deltapine DP 655BRR	1,238	38	77	1,202	1,094
Deltapine DP 458BRR	1,241	41	73	1,235	1,089
Sure-Grow 747	1,572	42	89	1,478	—
PhytoGen HS 12	1,218	39	74	1,200	—
Stoneville ST 4892BR	1,559	43	90	—	—
Deltapine DP 565	1,401	40	78	—	—
Deltapine DP 491	1,384	44	74	—	—
Deltapine NuCotn 35B	1,335	38	78	—	—
DP Delta Pearl	1,173	41	73	—	—
PM 1199 RR	1,119	40	89	—	—
Test Mean	1,344				
L.S.D. (.05)	207				
C.V.	11%				

TABLE 15. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2001

Variety	2001			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 747	1,640	41	—	1,451	1,415
Deltapine DP 655BRR	1,554	38	—	1,405	1,284
FiberMax FM 989	1,458	39	—	1,383	1,283
Deltapine DP 451B/RR	1,580	37	—	1,295	1,260
Deltapine NuCotn 33B	1,639	37	—	1,324	1,222
FiberMax FM 832	1,412	41	—	1,204	1,103
PhytoGen PSC 355	1,795	41	—	1,532	—
Sure-Grow 501BR	1,892	40	—	1,482	—
Sure-Grow 521R	1,720	38	—	1,458	—
Paymaster PM 1218BG/RR	1,714	42	—	1,293	—
Deltapine DP 436RR	1,458	36	—	1,222	—
DP Delta Pearl	1,914	43	—	—	—
Deltapine DP 458BRR	1,889	39	—	—	—
Stoneville ST 4793R	1,826	43	—	—	—
Deltapine Acala 90	1,824	40	—	—	—
Stoneville ST 4892BR	1,813	40	—	—	—
Deltapine DP 491	1,765	42	—	—	—
Deltapine NuCotn 35B	1,719	37	—	—	—
Sure-Grow 215B/R	1,699	41	—	—	—
Stoneville ST 580	1,679	37	—	—	—
Sure-Grow 125BR	1,623	38	—	—	—
Deltapine DP 5415 RR	1,620	37	—	—	—
Deltapine DP 565	1,584	40	—	—	—
Deltapine DP 425RR	1,574	37	—	—	—
PM 1199 RR	1,443	41	—	—	—
Test Mean	1,673				
L.S.D. (.05)	325				
C.V.	14%				

TABLE 16. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2001

Variety	Belle Mina	Prattville	Shorter	Headland	Fairhope
1500RR	26	20	26	14	20
AMX 4207	12	16	15	26	26
Deltapine DP 491	19	5	13	2	8
Deltapine DP 20B	20	26	18	16	25
Deltapine DP 428B	1	18	14	23	10
Deltapine DP 425RR	10	25	17	27	9
Deltapine DP 436RR	13	24	23	21	23
Deltapine DP 422BRR	28	23	25	22	17
Deltapine DP 451BRR	14	15	16	15	18
FiberMax FM 966	9	1	4	5	6
Germain's GC-271	17	17	20	1	21
Germain's GC-377	11	27	27	25	15
PM 1560BG	22	11	8	4	19
PM 1218BG/RR	18	3	3	3	11
PM 1199RR	27	21	28	20	27
PhytoGen PSC 355	16	2	6	17	7
Stoneville BXN 47	3	8	5	6	2
Stoneville ST 4691B	5	10	12	8	4
Stoneville ST 4892BR	6	13	10	9	1
Stoneville ST 4793R	25	19	11	7	16
Sure-Grow 105	2	7	7	19	22
Sure-Grow 747	7	6	1	10	24
Sure-Grow 125BR	21	9	22	13	13
Sure-Grow 215BR	4	12	9	11	3
Sure-Grow 501BR	8	4	2	12	12
Sure-Grow 521R	24	22	19	18	14
Deltapine NuCotn 33B ¹	15	14	24	24	5
FiberMax FM 958	23	–	21	–	–

¹ Full season check

TABLE 17. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2001

Variety	Belle Mina	Prattville	Shorter	Headland	Fairhope
4600RR	6	3	5	13	4
Deltapine Delta Pearl	9	2	9	9	1
Deltapine Acala 90	20	14	15	19	23
Deltapine DP 491	3	6	2	3	6
Deltapine DP 565	10	13	7	22	5
Deltapine DP 5415	7	25	24	16	12
Deltapine DP 5690	22	18	17	18	25
Deltapine DP 448B	4	19	14	23	19
Deltapine NuCotn 33B	8	22	19	21	9
Deltapine NuCotn 35B	18	21	16	2	2
Deltapine DP 5415RR	2	20	12	17	11
Deltapine DP 5690RR	13	11	21	1	18
Deltapine DP 458BRR	14	24	23	12	16
Deltapine DP 655BRR	23	23	25	24	21
FiberMax FM 832	25	15	22	14	24
FiberMax FM 989	5	4	13	15	20
PM 1560BG/RR	19	10	6	11	14
PhytoGen HS 12	12	17	18	5	8
PhytoGen PHY 72 Acala	17	16	20	25	22
PhytoGen PSC GA 161	24	8	10	20	10
Stoneville ST 580	16	12	8	10	17
Stoneville ST 4892BR	11	1	11	8	3
Stoneville STX 9905	21	5	1	7	7
Sure-Grow 821	15	9	3	4	15
Sure-Grow 747 ¹	1	7	4	6	13

¹ Early season check

TABLE 18. COTTON FIBER ANALYSIS, HVI, BELLE MINA, ALABAMA, 2001

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					
1500RR	3.6	1.14	82.5	31.6	5.0
AMX 4207	4.2	1.16	85.0	32.5	5.1
Deltapine DP 491	3.9	1.26	86.0	35.2	4.3
Deltapine DP 20B	4.4	1.18	83.8	29.7	5.1
Deltapine DP 428B	4.6	1.16	83.6	29.2	4.9
Deltapine DP 425RR	4.7	1.12	83.0	29.2	5.2
Deltapine DP 436RR	5.0	1.18	85.3	30.1	5.6
Deltapine DP 422BRR	4.2	1.11	83.1	29.6	5.5
Deltapine DP 451BRR	4.0	1.17	84.2	32.1	5.4
FiberMax FM 966	4.0	1.15	85.4	31.8	3.9
Germain's GC-271	4.6	1.19	84.1	32.9	4.5
Germain's GC-377	4.8	1.20	85.3	32.4	5.3
PM 1560BG	4.9	1.14	84.4	30.6	4.9
PM 1218BG/RR	4.6	1.13	84.6	28.5	4.8
PM 1199RR	4.3	1.16	84.9	31.2	4.6
PhytoGen PSC 355	4.7	1.18	87.1	34.6	5.1
Stoneville BXN 47	4.7	1.10	82.3	30.5	4.9
Stoneville ST 4691B	3.9	1.18	84.4	32.1	4.9
Stoneville ST 4892BR	4.3	1.14	84.0	31.6	4.9
Stoneville ST 4793R	4.3	1.07	83.1	29.1	5.2
Sure-Grow 105	4.5	1.15	83.6	30.0	5.4
Sure-Grow 747	4.7	1.18	85.1	30.9	5.6
Sure-Grow 125BR	4.5	1.14	84.9	30.5	5.0
Sure-Grow 215BR	4.6	1.10	84.0	29.6	5.6
Sure-Grow 501BR	4.5	1.15	86.6	32.4	5.3
Sure-Grow 521R	4.4	1.10	83.6	28.4	5.8
Full season					
4600RR	3.8	1.15	85.2	31.1	5.4
Deltapine Delta Pearl	4.1	1.18	83.9	33.3	4.6
Deltapine Acala 90	4.1	1.16	84.5	33.3	4.8
Deltapine DP 491	4.0	1.24	84.2	32.8	4.2
Deltapine DP 565	4.6	1.18	82.3	32.8	4.2
Deltapine DP 5415	4.3	1.20	82.3	34.7	5.0
Deltapine DP 5690	4.2	1.14	84.4	34.3	4.6
Deltapine DP 448B	4.3	1.15	82.7	30.7	5.3
Deltapine NuCotn 33B	4.3	1.18	83.4	31.3	4.9
Deltapine NuCotn 35B	4.1	1.16	82.9	33.7	4.4
Deltapine DP 5415RR	4.4	1.16	83.8	32.5	5.3
Deltapine DP 5690RR	4.2	1.18	84.4	34.3	4.6
Deltapine DP 458BRR	4.3	1.20	84.9	34.3	4.4
Deltapine DP 655BRR	3.9	1.19	85.2	35.0	4.2
FiberMax FM 832	3.6	1.21	84.6	35.0	4.0
FiberMax FM 989	4.0	1.19	85.0	34.2	4.3
PM 1560BG/RR	4.1	1.16	84.4	29.8	4.5
PhytoGen HS 12	4.2	1.21	84.5	33.8	4.2
PhytoGen Phy 72 Acala	3.9	1.26	86.6	38.5	4.7
PhytoGen PSC GA 161	4.3	1.22	85.6	36.3	4.4
Stoneville ST 580	4.1	1.17	82.9	34.0	4.8
Stoneville ST 4892BR	3.8	1.17	86.0	32.4	4.7
Stoneville STX 9905	4.0	1.14	81.9	30.7	4.1
Sure-Grow 821	4.2	1.22	85.0	34.9	5.4

TABLE 19. COTTON FIBER ANALYSIS, HVI, PRATTVILLE, ALABAMA, 2001

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					
1500RR	3.5	1.14	84.4	32.7	5.0
AMX 4207	4.0	1.18	84.5	31.6	5.9
Deltapine DP 491	3.9	1.25	83.1	33.3	3.9
Deltapine DP 20B	3.8	1.20	85.1	31.6	5.3
Deltapine DP 428B	3.7	1.16	82.1	28.6	5.5
Deltapine DP 425RR	3.8	1.16	84.6	29.5	6.0
Deltapine DP 436RR	4.2	1.17	84.3	30.3	5.9
Deltapine DP 422BRR	3.3	1.15	83.7	30.4	6.0
Deltapine DP 451BRR	3.5	1.17	83.6	29.3	5.4
FiberMax FM 966	3.7	1.18	85.2	34.5	4.0
Germain's GC-271	4.2	1.22	86.4	33.4	4.8
Germain's GC-377	4.0	1.17	83.9	30.5	5.6
PM 1560BG	3.1	1.14	83.6	31.6	5.4
PM 1218BG/RR	4.4	1.10	84.1	28.4	5.5
PM 1199RR	4.4	1.15	86.5	31.8	4.6
PhytoGen PSC 355	4.3	1.16	83.6	31.8	5.6
Stoneville BXN 47	3.5	1.12	83.1	29.3	5.4
Stoneville ST 4691B	3.2	1.13	85.4	32.4	5.8
Stoneville ST 4892BR	4.2	1.12	85.5	31.3	5.1
Stoneville ST 4793R	3.9	1.09	82.7	30.4	5.3
Sure-Grow 105	4.1	1.18	85.5	31.9	5.3
Sure-Grow 747	4.1	1.16	84.1	30.4	6.0
Sure-Grow 125BR	4.0	1.16	86.0	30.3	5.6
Sure-Grow 215BR	3.9	1.13	84.2	31.0	6.5
Sure-Grow 501BR	4.5	1.10	85.0	29.8	5.8
Sure-Grow 521R	4.3	1.12	86.3	30.3	5.8
Full season					
4600RR	3.9	1.08	84.1	28.9	5.6
Deltapine Delta Pearl	3.9	1.20	83.6	31.1	3.9
Deltapine Acala 90	3.8	1.14	84.1	33.3	4.7
Deltapine DP 491	3.5	1.26	85.2	33.1	4.0
Deltapine DP 565	3.9	1.19	85.4	31.8	4.7
Deltapine DP 5415	3.9	1.20	85.9	31.1	5.3
Deltapine DP 5690	3.8	1.15	85.4	32.5	4.8
Deltapine DP 448B	3.9	1.13	83.7	29.7	5.0
Deltapine NuCotn 33B	3.9	1.15	84.1	31.0	5.0
Deltapine NuCotn 35B	3.4	1.13	84.3	31.4	4.8
Deltapine DP 5415RR	3.9	1.20	85.9	31.1	5.3
Deltapine DP 5690RR	3.8	1.15	85.4	32.5	4.8
Deltapine DP 458BRR	3.8	1.15	84.8	31.8	5.0
Deltapine DP 655BRR	3.5	1.11	84.0	31.5	4.9
FiberMax FM 832	3.3	1.26	87.5	33.5	4.1
FiberMax FM 989	3.5	1.20	85.4	32.4	4.3
PM 1560BG/RR	3.5	1.17	85.1	31.4	5.0
PhytoGen HS 12	3.7	1.14	82.4	31.3	4.9
PhytoGen Phy 72 Acala	4.0	1.20	86.2	34.3	5.0
PhytoGen PSC GA 161	3.7	1.25	87.2	34.3	4.4
Stoneville ST 580	3.9	1.18	85.6	31.9	5.8
Stoneville ST 4892BR	3.9	1.19	82.0	30.1	4.8
Stoneville STX 9905	3.9	1.18	82.7	30.1	4.4
Sure-Grow 821	4.0	1.12	83.6	30.6	5.7

TABLE 20. COTTON FIBER ANALYSIS, HVI, SHORTER, ALABAMA, 2001

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					
1500RR	3.8	1.13	85.7	32.4	5.0
AMX 4207	4.2	1.14	84.2	29.9	4.7
Deltapine DP 491	4.3	1.27	86.0	33.1	3.7
Deltapine DP 20B	4.7	1.18	85.4	29.1	5.0
Deltapine DP 428B	4.5	1.15	84.5	29.0	4.8
Deltapine DP 425RR	4.2	1.12	83.2	28.9	5.2
Deltapine DP 436RR	4.3	1.20	85.7	30.7	5.0
Deltapine DP 422BRR	4.0	1.15	85.0	28.7	5.4
Deltapine DP 451BRR	4.3	1.14	84.2	29.3	4.7
FiberMax FM 966	4.4	1.10	82.1	28.3	3.8
Germain's GC-271	4.5	1.18	85.9	32.4	4.2
Germain's GC-377	4.4	1.21	85.7	33.4	4.7
PM 1560BG	4.7	1.14	85.0	31.4	4.7
PM 1218BG/RR	4.6	1.12	86.1	29.0	4.6
PM 1199RR	4.5	1.12	85.0	31.1	4.4
PhytoGen PSC 355	4.8	1.15	85.8	30.6	5.4
Stoneville BXN 47	4.5	1.07	83.5	28.9	4.6
Stoneville ST 4691B	4.5	1.12	84.2	28.9	4.5
Stoneville ST 4892BR	4.7	1.10	84.3	30.1	4.8
Stoneville ST 4793R	4.7	1.08	83.2	29.2	5.0
Sure-Grow 105	4.6	1.15	84.8	30.6	4.8
Sure-Grow 747	4.9	1.16	84.3	29.7	5.1
Sure-Grow 125BR	4.2	1.14	84.0	29.8	4.8
Sure-Grow 215BR	4.4	1.14	86.6	30.0	5.6
Sure-Grow 501BR	4.7	1.14	86.2	31.6	5.0
Sure-Grow 521R	4.5	1.15	85.0	30.3	5.1
Full season					
4600RR	3.9	1.03	82.5	28.3	5.6
Deltapine Delta Pearl	4.9	1.15	80.6	29.2	4.1
Deltapine Acala 90	3.6	1.13	83.3	32.3	4.7
Deltapine DP 491	4.6	1.15	82.2	30.4	4.7
Deltapine DP 565	4.0	1.15	83.8	29.6	4.4
Deltapine DP 5415	4.0	1.12	84.0	31.7	4.9
Deltapine DP 5690	4.1	1.10	82.3	31.4	4.9
Deltapine DP 448B	3.8	1.13	83.0	29.9	5.3
Deltapine NuCotn 33B	4.2	1.12	82.7	30.2	5.1
Deltapine NuCotn 35B	4.2	1.11	83.4	32.1	4.6
Deltapine DP 5415RR	4.2	1.11	83.3	31.0	5.6
Deltapine DP 5690RR	3.9	1.09	83.2	32.1	4.9
Deltapine DP 458BRR	4.6	1.10	82.0	30.4	5.7
Deltapine DP 655BRR	4.0	1.13	83.4	33.0	4.9
FiberMax FM 832	4.0	1.17	83.0	31.7	4.1
FiberMax FM 989	3.8	1.12	85.0	32.0	4.4
PM 1560BG/RR	3.7	1.14	83.8	31.3	4.9
PhytoGen HS 12	4.2	1.10	81.5	30.2	4.4
PhytoGen Phy 72 Acala	4.2	1.17	85.2	33.4	4.9
PhytoGen PSC GA 161	4.0	1.13	82.3	31.9	4.9
Stoneville ST 580	4.6	1.18	85.3	33.2	5.7
Stoneville ST 4892BR	4.6	1.07	81.5	28.6	5.1
Stoneville STX 9905	3.9	1.04	80.2	27.9	4.9
Sure-Grow 821	4.0	1.09	81.7	31.1	5.6

TABLE 21. COTTON FIBER ANALYSIS, HVI, HEADLAND, ALABAMA, 2001

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					
1500RR	4.6	1.10	83.2	29.6	5.0
AMX 4207	4.5	1.15	84.9	30.2	4.5
Deltapine DP 491	4.2	1.22	82.8	31.5	3.8
Deltapine DP 20B	4.5	1.16	84.2	29.5	4.7
Deltapine DP 428B	4.4	1.16	84.4	29.1	4.3
Deltapine DP 425RR	4.5	1.10	82.2	28.1	4.7
Deltapine DP 436RR	4.5	1.15	84.8	29.9	4.9
Deltapine DP 422BRR	3.9	1.14	83.4	29.9	4.6
Deltapine DP 451BRR	4.4	1.16	83.1	29.1	4.3
FiberMax FM 966	4.5	1.12	83.0	30.0	3.7
Germain's GC-271	4.6	1.16	85.7	33.1	4.0
Germain's GC-377	4.5	1.14	84.5	32.0	5.1
PM 1560BG	4.2	1.15	84.4	31.3	4.4
PM 1218BG/RR	4.7	1.10	84.1	30.0	4.5
PM 1199RR	4.7	1.13	84.7	29.7	4.5
PhytoGen PSC 355	4.8	1.12	84.2	32.4	4.8
Stoneville BXN 47	4.5	1.11	83.3	29.4	4.4
Stoneville ST 4691B	4.8	1.10	83.2	28.0	4.8
Stoneville ST 4892BR	4.5	1.10	83.7	29.4	4.6
Stoneville ST 4793R	4.6	1.14	85.2	31.4	4.6
Sure-Grow 105	4.4	1.15	84.2	30.8	4.4
Sure-Grow 747	4.7	1.15	84.3	30.0	5.2
Sure-Grow 125BR	4.7	1.12	83.6	30.2	4.8
Sure-Grow 215BR	4.3	1.14	84.8	32.0	4.5
Sure-Grow 501BR	4.8	1.12	85.4	31.4	4.9
Sure-Grow 521R	4.6	1.06	84.2	28.3	5.7
Full season					
4600RR	4.8	1.10	83.6	28.4	5.2
Deltapine Delta Pearl	5.0	1.15	83.9	30.4	4.2
Deltapine Acala 90	4.7	1.10	83.9	31.8	4.5
Deltapine DP 491	4.8	1.20	85.0	32.9	4.4
Deltapine DP 565	5.2	1.14	83.6	30.2	4.8
Deltapine DP 5415	4.5	1.10	82.8	29.7	5.2
Deltapine DP 5690	4.6	1.20	84.2	29.8	5.2
Deltapine DP 448B	4.1	1.11	83.1	29.6	4.5
Deltapine NuCotn 33B	4.6	1.15	83.9	31.5	4.6
Deltapine NuCotn 35B	4.4	1.12	82.7	31.3	4.4
Deltapine DP 5415RR	4.6	1.14	84.1	32.0	5.2
Deltapine DP 5690RR	4.6	1.13	81.7	31.6	4.6
Deltapine DP 458BRR	4.9	1.15	84.3	32.0	5.0
Deltapine DP 655BRR	4.6	1.13	82.6	30.9	4.9
FiberMax FM 832	4.8	1.17	83.7	30.9	4.3
FiberMax FM 989	4.7	1.13	84.0	30.5	3.9
PM 1560BG/RR	4.6	1.19	86.5	32.3	4.5
PhytoGen HS 12	4.9	1.17	84.8	31.6	4.4
PhytoGen Phy 72 Acala	4.4	1.15	85.8	34.8	4.6
PhytoGen PSC GA 161	4.5	1.17	83.9	31.4	4.2
Stoneville ST 580	4.9	1.15	85.3	32.1	5.3
Stoneville ST 4892BR	5.0	1.15	84.7	30.6	4.6
Stoneville STX 9905	4.9	1.16	82.9	29.5	4.1
Sure-Grow 821	4.9	1.15	85.3	31.9	5.3

TABLE 22. COTTON FIBER ANALYSIS, HVI, FAIRHOPE, ALABAMA, 2001

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					
1500RR	3.6	1.15	86.0	31.4	4.9
AMX 4207	3.9	1.16	85.1	30.1	5.1
Deltapine DP 491	4.2	1.26	83.5	31.4	3.8
Deltapine DP 20B	4.2	1.19	84.7	29.3	4.9
Deltapine DP 428B	4.4	1.13	82.7	26.8	5.4
Deltapine DP 425RR	4.2	1.14	83.2	27.6	5.3
Deltapine DP 436RR	4.2	1.12	81.1	26.9	6.0
Deltapine DP 422BRR	3.9	1.14	83.3	27.9	6.0
Deltapine DP 451BRR	4.2	1.17	84.4	28.2	4.9
FiberMax FM 966	4.1	1.17	85.4	31.6	4.0
Germain's GC-271	4.2	1.13	85.9	30.1	5.0
Germain's GC-377	3.9	1.08	82.0	27.7	5.8
PM 1560BG	3.9	1.12	84.2	28.0	5.4
PM 1218BG/RR	4.3	1.09	83.9	28.6	5.3
PM 1199RR	4.8	1.12	84.8	29.1	4.7
PhytoGen PSC 355	4.6	1.13	85.1	29.1	5.2
Stoneville BXN 47	4.8	1.11	85.1	28.4	5.2
Stoneville ST 4691B	4.6	1.09	84.1	27.5	6.0
Stoneville ST 4892BR	4.6	1.11	85.1	29.4	4.8
Stoneville ST 4793R	4.8	1.07	85.0	30.0	4.7
Sure-Grow 105	4.5	1.11	85.8	30.2	5.2
Sure-Grow 747	4.4	1.14	84.4	28.7	5.2
Sure-Grow 125BR	3.9	1.08	83.2	27.1	5.8
Sure-Grow 215BR	3.9	1.11	85.0	28.5	5.9
Sure-Grow 501BR	4.5	1.10	86.4	29.3	5.5
Sure-Grow 521R	4.1	1.09	84.5	27.5	5.9
Full season					
4600RR	4.5	1.07	83.6	28.4	4.9
Deltapine Delta Pearl	4.2	1.23	85.3	32.0	3.9
Deltapine Acala 90	3.8	1.14	85.1	32.2	4.5
Deltapine DP 491	3.8	1.28	85.4	34.2	3.9
Deltapine DP 565	3.5	1.19	86.2	31.9	4.3
Deltapine DP 5415	3.5	1.13	82.2	30.0	4.9
Deltapine DP 5690	4.0	1.11	84.2	31.8	4.7
Deltapine DP 448B	3.8	1.14	83.0	29.4	5.1
Deltapine NuCotn 33B	3.7	1.18	84.0	31.0	5.3
Deltapine NuCotn 35B	3.6	1.16	82.8	30.6	4.5
Deltapine DP 5415RR	4.3	1.15	84.0	29.5	5.1
Deltapine DP 5690RR	4.3	1.09	83.5	28.8	4.7
Deltapine DP 458BRR	3.9	1.13	84.5	31.7	4.5
Deltapine DP 655BRR	3.4	1.12	83.2	30.3	4.9
FiberMax FM 832	3.3	1.22	85.7	31.6	4.3
FiberMax FM 989	4.2	1.16	85.5	30.9	4.1
PM 1560BG/RR	3.1	1.14	84.2	30.8	4.8
PhytoGen HS 12	4.0	1.15	83.0	31.6	4.5
PhytoGen Phy 72 Acala	3.4	1.23	86.0	32.4	5.4
PhytoGen PSC GA 161	4.1	1.18	84.2	32.1	4.7
Stoneville ST 580	4.0	1.12	83.7	30.8	6.3
Stoneville ST 4892BR	4.4	1.13	86.1	30.2	5.0
Stoneville STX 9905	3.9	1.15	83.3	30.0	4.5
Sure-Grow 821	4.0	1.20	85.8	31.4	5.4

TABLE 23. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, BELLE MINA, ALABAMA, 2001

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					
1500RR	4.1	1.17	84.8	32.2	4.5
Deltapine DP 491	4.1	1.21	82.4	31.6	4.3
Deltapine DP 20B	4.2	1.20	83.8	29.0	5.2
Deltapine DP 428B	4.2	1.17	84.1	28.2	4.8
Deltapine DP 425RR	4.5	1.15	83.8	28.4	5.1
Deltapine DP 436RR	4.2	1.16	82.8	29.5	5.6
Deltapine DP 451BRR	4.2	1.20	83.1	29.3	5.0
FiberMax FM 966	4.1	1.15	83.6	33.4	4.0
PhytoGen PSC 355	4.7	1.17	86.6	32.5	6.1
PM 1218BG/RR	4.8	1.09	84.3	28.7	5.3
Stoneville ST 4793R	5.0	1.14	84.6	30.1	4.7
Stoneville ST 4892BR	4.6	1.14	83.7	30.5	5.5
Sure-Grow 747	4.7	1.20	85.0	30.5	5.3
Sure-Grow 521R	4.7	1.09	82.9	28.6	5.2
Sure-Grow 215BR	4.6	1.12	85.6	29.7	6.2
Sure-Grow 501BR	4.3	1.13	85.8	31.6	5.2
Full season					
Deltapine Delta Pearl	4.1	1.18	84.2	31.3	4.6
Deltapine DP 491	4.2	1.22	83.8	32.5	4.5
Deltapine DP 565	4.4	1.18	84.1	30.4	5.2
Deltapine NuCotn 33B	4.4	1.14	83.9	30.9	5.0
Deltapine NuCotn 35B	4.4	1.13	83.4	31.2	4.8
Deltapine DP 5415RR	4.4	1.15	83.8	31.2	5.4
Deltapine DP 458BRR	4.7	1.14	84.2	30.9	5.4
Deltapine DP 655BRR	4.6	1.13	82.5	30.2	4.5
FiberMax FM 832	4.2	1.17	82.0	29.7	4.9
FiberMax FM 989	3.8	1.14	83.5	32.1	4.7
PhytoGen HS 12	4.3	1.15	82.2	32.1	4.6
PM 1199RR	4.7	1.18	84.9	30.8	4.8
Stoneville ST 4892BR	4.8	1.13	83.7	30.5	5.4

TABLE 24. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, HEADLAND, ALABAMA, 2001

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Deltapine DP 491	4.0	1.24	82.1	32.8	3.9
Deltapine DP 565	4.5	1.22	86.1	31.6	4.4
Deltapine Acala 90	4.2	1.15	83.4	32.6	4.4
Deltapine Delta Pearl	4.2	1.14	82.7	29.1	4.1
Deltapine NuCotn 33B	4.3	1.14	82.9	29.8	4.9
Deltapine NuCotn 35B	3.9	1.12	82.5	31.5	4.6
Deltapine DP 425RR	4.4	1.16	84.4	29.9	5.0
Deltapine DP 436RR	4.4	1.18	83.7	29.0	5.2
Deltapine DP 5415RR	4.0	1.13	82.3	30.4	5.4
Deltapine DP 451BRR	4.1	1.16	82.6	28.8	4.6
Deltapine DP 458BRR	4.1	1.16	83.4	31.8	4.7
Deltapine DP 655BRR	4.0	1.10	82.5	29.2	4.6
FiberMax FM 832	3.8	1.25	86.0	34.0	4.1
FiberMax FM 989	3.8	1.17	85.0	32.3	4.3
PhytoGen PSC 355	4.5	1.17	85.0	31.8	5.0
PM 1199RR	4.8	1.21	86.9	32.6	4.2
PM 1218BG/RR	4.5	1.05	82.3	27.2	5.1
Stoneville ST 580	4.8	1.16	85.2	30.6	5.8
Stoneville ST 4793R	4.5	1.14	83.9	30.9	4.7
Stoneville ST 4892BR	4.3	1.15	85.5	31.6	4.6
Sure-Grow 747	4.7	1.16	82.8	29.5	5.2
Sure-Grow 521R	3.8	1.13	84.2	30.2	5.2
Sure-Grow 125BR	4.4	1.13	84.2	28.4	5.2
Sure-Grow 215BR	4.3	1.12	84.3	28.7	5.8
Sure-Grow 501BR	4.3	1.12	85.3	30.6	5.5

**TABLE 25. PERFORMANCE OF BLACK BELT COTTON VARIETIES,
ON-FARM TRIAL, HALE COUNTY, ALABAMA, 2001**

Variety ¹	Lint/Acre <i>lb.</i>	Lint <i>pct.</i>	Micronaire <i>units</i>	Length <i>in.</i>	Strength <i>g/tex</i>
Deltapine DP 491	915	42	3.7	1.10	28.3
AgriPro HS 46	886	40	4.2	1.06	27.7
DP Delta Pearl	881	41	3.8	1.10	27.3
Deltapine DP 565	874	39	4.0	1.08	26.9
Sure-Grow SG 215B/R	841	43	4.1	1.01	24.5
FiberMax FM 991 RR	815	40	3.9	1.08	28.5
FiberMax FM 989 BR	805	41	3.5	1.05	27.5
FiberMax FM 989	792	43	3.8	1.09	29.5
PhytoGen PSC 952	757	42	4.5	1.02	26.2
Deltapine DP 451 BRR	756	40	4.4	1.03	24.6
Paymaster PM 1560 BG	754	43	4.2	1.03	26.0
Deltapine DP 436RR	753	39	4.3	1.07	25.9
Deltapine DP 655BRR	737	40	3.5	1.04	26.6
FiberMax FM 989 RR	729	43	3.6	1.03	28.4
Deltapine DP 425RR	729	40	4.5	1.03	25.3
Deltapine NuCotn 33B	701	40	3.8	1.03	25.2
PhytoGen PSC 355	699	42	4.6	1.02	26.3
Sure-Grow 747	690	43	4.1	1.05	25.2
Garst/AgriPro 4600 RR	680	43	4.6	0.99	25.1
PhytoGen PSC GA 161	675	39	3.5	1.11	29.1
Sure-Grow 501 BR	666	42	4.4	1.03	26.5
Stoneville 4892 BR	594	44	4.0	1.00	25.0
Sure-Grow 521R	591	41	3.9	1.02	25.9
Stoneville ST 4691B	542	43	4.0	1.03	25.5
LSD (<i>P</i>=.10)	71				

¹ Varieties grown were chosen by Alabama Cooperative Extension System specialists. Recommended cultural practices were followed.

TABLE 26. COTTON VARIETY RESPONSE TO RENIFORM NEMATODE, HUXFORD, ALABAMA, 2001

Variety	—Lint/Acre—		—Lint/Pct.—		—Reniform/150 cc soil—	
	Treated <i>lb.</i>	Untreated <i>lb.</i>	Treated <i>pct.</i>	Untreated <i>pct.</i>	Treated <i>lb.</i>	Untreated
Deltapine DP 555 BG/RR	1,511	1,195	44	42	7,819	6,206
DP Delta Pearl	1,360	1,173	43	39	6,051	5,176
Sure-Grow 747	1,280	1,117	40	37	5,227	6,309
Deltapine DP 491	1,264	1,001	41	40	3,966	5,047
PhytoGen PSC 161	1,246	900	39	35	5,605	9,322
Stoneville ST 4892BR	1,244	1,034	39	40	6,978	6,232
Sure-Grow 521R	1,241	921	40	37	7,854	4,584
Sure-Grow 501BR	1,227	1,172	41	38	2,318	7,931
PhytoGen HS 12	1,219	925	39	35	4,067	6,566
Sure-Grow 125BR	1,218	1,064	38	36	5,176	5,356
Germain's GC-271	1,190	883	36	32	4,017	7,768
Paymaster PM 1560BG/RR	1,182	1,012	39	39	5,279	5,717
Stoneville ST 4793R	1,162	994	42	39	5,794	5,794
Stoneville ST 4691B	1,161	1,059	41	38	4,481	8,163
Deltapine DP 655BRR	1,158	712	39	35	5,279	5,390
FiberMax FM 966	1,151	960	40	38	3,863	8,111
Deltapine DP 565	1,138	838	40	36	3,039	9,656
Deltapine NuCotn 35B	1,136	981	37	36	4,017	7,854
Deltapine DP 458BRR	1,111	737	38	36	4,687	9,364
1500 RR	1,109	915	40	36	6,566	4,893
Deltapine NuCotn 33B	1,100	804	38	35	5,717	7,648
Stoneville ST 580	1,095	856	39	37	7,236	5,768
Sure-Grow 821	1,083	852	39	37	4,275	6,103
Deltapine DP 451B/RR	1,082	898	37	35	10,738	7,253
Deltapine DP 5415 RR	1,082	856	40	36	4,661	7,253
PhytoGen PSC 355	1,074	955	40	39	4,120	5,450
Paymaster PM 1218BG/RR	1,045	1,070	40	39	6,129	8,025
FiberMax FM 989	1,029	910	39	37	4,996	4,790
Deltapine DP 20B	1,009	805	36	33	7,519	4,223
Deltapine DP 436RR	974	746	35	33	5,768	6,257
PhytoGen Phy 72 Acala	880	647	39	37	6,824	7,056
Test Mean	1,154	935			6,053	6,627
L.S.D. (.05)	174	142			4,348	4,516
C.V.	11%	11%			47%	48%

TABLE 27. COTTON FIBER ANALYSIS, HVI, TREATED VARIETIES, HUXFORD, ALABAMA, 2001

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
1500RR	4.0	1.16	84.5	29.3	5.4
Deltapine Delta Pearl	4.6	1.18	83.8	29.4	4.6
Deltapine DP 491	4.3	1.26	84.4	30.7	4.3
Deltapine DP 565	4.2	1.22	83.3	29.9	4.7
Deltapine DP 20B	4.2	1.18	83.4	25.8	5.3
Deltapine DP 436RR	4.2	1.12	81.8	23.9	5.7
Deltapine DP 5415RR	4.4	1.17	83.7	28.0	5.4
Deltapine DP 451BRR	4.5	1.16	83.1	25.3	4.8
Deltapine DP 458BRR	4.3	1.10	81.5	25.9	4.9
Deltapine DP 555BRR	4.7	1.11	81.6	25.6	4.6
Deltapine DP 655BRR	4.1	1.19	84.2	29.9	4.5
Deltapine NuCotn 33B	4.5	1.15	82.4	25.5	5.0
Deltapine NuCotn 35B	4.2	1.15	82.6	26.5	4.9
FiberMax FM 966	4.1	1.18	85.2	31.0	3.9
FiberMax FM 989	4.0	1.19	84.3	31.4	4.3
Germain's GC-271	4.3	1.24	85.4	29.2	4.4
PM 1218BG/RR	4.8	1.10	83.4	25.2	5.0
PM 1560 BG/RR	3.7	1.18	82.7	26.9	5.0
PhytoGen HS 12	4.6	1.19	82.3	27.5	4.6
PhytoGen Phy 72 Acala	4.1	1.26	83.9	32.0	4.9
PhytoGen PSC 355	4.6	1.17	83.9	26.4	5.6
PhytoGen PSC GA 161	4.0	1.22	84.5	31.5	4.7
Stoneville ST 580	4.3	1.18	85.2	29.5	6.2
Stoneville ST 4691B	4.0	1.14	83.4	27.4	5.4
Stoneville ST 4892BR	4.3	1.12	83.0	25.7	5.0
Stoneville ST 4793R	4.7	1.11	83.5	27.6	5.3
Sure-Grow 747	4.2	1.20	84.8	27.5	6.2
Sure-Grow 821	4.3	1.16	84.4	28.1	6.3
Sure-Grow 125BR	4.3	1.13	84.3	26.5	6.2
Sure-Grow 501BR	4.8	1.14	85.0	29.9	5.7
Sure-Grow 521R	4.2	1.13	84.2	25.4	6.1

TABLE 28. COTTON FIBER ANALYSIS, HVI, UNTREATED VARIETIES, HUXFORD, ALABAMA, 2001

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
1500RR	4.0	1.17	84.0	28.6	5.0
Deltapine Delta Pearl	4.2	1.21	83.3	29.7	4.5
Deltapine DP 491	4.3	1.27	84.4	32.0	4.2
Deltapine DP 565	4.0	1.14	81.7	28.6	4.3
Deltapine DP 20B	3.6	1.17	82.4	27.0	5.6
Deltapine DP 436RR	3.9	1.18	84.1	26.9	6.0
Deltapine DP 5415RR	4.1	1.18	82.9	29.9	5.3
Deltapine DP 451BRR	4.1	1.14	83.5	27.0	5.6
Deltapine DP 458BRR	3.9	1.16	82.0	29.0	5.2
Deltapine DP 555BRR	4.2	1.18	83.1	29.2	4.5
Deltapine DP 655BRR	3.9	1.18	82.9	30.8	4.8
Deltapine NuCotn 33B	4.4	1.14	83.1	27.4	5.5
Deltapine NuCotn 35B	4.1	1.14	82.5	29.3	4.7
FiberMax FM 966	4.1	1.19	84.1	31.5	3.9
FiberMax FM 989	3.7	1.19	83.1	30.9	4.7
Germain's GC-271	4.4	1.15	83.6	28.0	5.2
PM 1218BG/RR	4.2	1.13	83.6	26.7	5.7
PM 1560 BG/RR	3.8	1.18	83.2	28.9	5.3
PhytoGen HS 12	4.2	1.17	82.1	29.2	4.5
PhytoGen Phy 72 Acala	3.7	1.22	84.2	33.1	5.3
PhytoGen PSC 355	4.6	1.18	85.1	28.7	6.0
PhytoGen PSC GA 161	3.8	1.19	83.9	31.6	4.6
Stoneville ST 580	4.3	1.18	83.6	30.5	6.3
Stoneville ST 4691B	4.1	1.18	84.5	28.0	5.5
Stoneville ST 4892BR	4.3	1.15	84.5	29.4	5.0
Stoneville ST 4793R	4.3	1.13	84.5	29.2	5.6
Sure-Grow 747	3.9	1.14	83.0	26.5	5.5
Sure-Grow 821	4.3	1.19	84.4	29.8	6.0
Sure-Grow 125BR	4.2	1.14	83.5	27.4	5.3
Sure-Grow 501BR	4.4	1.12	82.8	27.2	5.9
Sure-Grow 521R	3.9	1.13	82.2	26.6	5.9

TABLE 29. GROWING SEASON RAINFALL, 1999-01

Test Location	Year	Monthly Rainfall (inches)							7-month Total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	2001	5.8	3.9	6.4	8.8	4.3	3.5	5.6	38.3
	2000	5.5	8.6	0.7	4.1	0.7	2.7	1.7	24.0
	1999	5.1	3.8	4.7	6.5	3.6	0.2	0.6	24.5
Shorter	2001	13.8	6.0	3.6	7.1	3.1	2.4	1.6	37.6
	2000	4.7	2.2	1.8	1.5	1.0	2.4	3.9	17.5
	1999	4.7	1.9	3.3	9.2	3.5	2.4	2.1	27.1
Prattville	2001	13.1	3.8	2.9	5.1	4.0	9.6	2.4	40.9
	2000	4.7	2.8	0.6	2.6	2.4	1.1	7.3	21.5
	1999	4.9	1.7	3.2	9.6	10.7	2.6	1.8	34.5
Fairhope	2001	8.7	0.3	0.6	13.8	15.7	9.1	4.7	52.9
	2000	4.1	1.1	0.7	4.2	3.2	3.0	9.5	25.8
	1999	5.8	0.1	3.2	8.3	9.7	6.0	2.3	35.4
Headland	2001	12.6	2.5	2.1	11.6	3.4	4.7	3.7	40.6
	2000	3.3	0.5	0.1	1.8	1.3	2.6	6.1	15.7
	1999	3.3	1.2	6.0	5.9	4.1	1.1	1.5	23.1
Huxford	2001	—	3.6	0.5	6.7	6.4	3.7	5.2	26.1

TABLE 30. SOIL TYPES FOR COTTON TRIALS, 2001

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
Huxford	Malbis fine sandy loam
Headland	Dothan sandy loam
Fairhope	Malbis fine sandy loam

SOURCES OF SEED FOR THE 2001 COTTON VARIETY TRIALS

Brand-variety	Company
AMX 4207	American Cotton Breeders Little Rock, Arkansas
1500RR 4600RR	Garst/AgriPro Seed Co. Cordova, Tennessee
Deltapine Delta Pearl, Paymaster PM 1560BG Deltapine Acala 90, Paymaster PM 1199RR Deltapine DP 491, Paymaster PM 1218BG/RR Deltapine DP565, Paymaster PM1560BG/RR Deltapine DP 5415, Sure-Grow 105 Deltapine DP 5690, Sure-Grow 747 Deltapine DP 20B, Sure-Grow 821 Deltapine DP 428B, Sure-Grow 125BR Deltapine DP 448B, Sure-Grow 215BR Deltapine NuCotn 33B, Sure-Grow 501BR Deltapine NuCotn 35B, Sure-Grow 521R Deltapine DP 436RR Deltapine DP 425RR Deltapine DP 5415RR Deltapine DP 5690RR Deltapine DP 422BRR Deltapine DP 451BR Deltapine DP 458BRR Deltapine DP 555BRR Deltapine DP655BRR	Delta and Pine Land Co. Scott, Mississippi
Fiber Max FM 832, Fiber Max FM 966 Fiber Max FM 958, Fiber Max FM 989	Aventis Crop Sciences Collierville, Tennessee
Germain's GC-271 Germain's GC-377	Germain's Cotton Seed Fresno, California
PhytoGen HS 12, PhytoGen PSC GA 161 PhytoGen PSC 355, PhytoGen Phy 72 Acala	PhytoGen Seed Company Leland, Mississippi
Stoneville STX 9905, Stoneville ST 4691B Stoneville BXN 47, Stoneville ST 4793R Stoneville ST 580, Stoneville ST 4892BR	Stoneville Pedigreed Seed Co. Stoneville, Mississippi
Acala MAXXA AllTex Atlas	CPCS Distributor Shafter, California
