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Cotton
Variety
Report

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

2000 Alabama Cotton Variety Report

A REPORT OF THE PERFORMANCE OF COTTON VARIETIES TESTED IN ALABAMA

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INTRODUCTION

The Alabama Cotton Variety Test is a continuing evaluation of available cotton varieties from private companies and state agricultural experiment stations. Breeding lines that are likely to be released as varieties are also tested. Tests are conducted on units of the Alabama Agricultural Experiment Station by Experiment Station personnel. Cultural practices are those generally recommended by the Alabama Cooperative Extension System to producers. Data are reported on 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. The maturity category for each variety was chosen by the company or cooperator. Deltapine NuCotn 33B and Suregrow 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, 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. Please note that both early and full season tests at Fairhope failed due to drought conditions at planting and during the early part of the growing season.

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.

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, Tallahassee. Breeder lines and selected varieties were grown in a field with a high natural incidence of the fusarium wilt disease. In 2000, incidence of Fusarium wilt was moderate. The incidence ratings can be found in the 2000 National Fusarium Wilt Cotton Report, Departmental Series No. 231.

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}).

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TABLE 1. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2000

Variety	2000			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 105	610	43	—	628	743
Sure-Grow 747*	718	45	—	666	735
Deltapine DP 20B	711	44	—	659	722
PhytoGen PSC 355	622	41	—	636	694
Stoneville BXN 47	682	44	—	566	685
Stoneville 474	681	45	—	599	685
Paymaster PM1560BG	678	45	—	631	684
Deltapine DP 428B	663	42	—	593	669
Deltapine DP 425RR	730	43	—	600	666
Deltapine DP 436RR	624	41	—	572	626
Deltapine NuCotn 33B**	628	40	—	539	623
Paymaster PM 1218BG/RR	714	45	—	717	—
Sure-Grow 501BR	702	41	—	716	—
Sure-Grow 125BR	631	41	—	630	—
PhytoGen PSC GA 161	626	40	—	622	—
Stoneville ST 4793R	746	44	—	622	—
Deltapine DP 422B/RR	613	42	—	621	—
Deltapine DP 388	638	44	—	604	—
Deltapine DP 451B/RR	635	40	—	591	—
Stoneville ST 4892BR	643	45	—	570	—
AllTex Atlas	545	38	—	481	—
SS 9901	701	41	—	—	—
Sure-Grow 521R	680	44	—	—	—
1500RR	677	43	—	—	—
SS 9501	665	44	—	—	—
SS 9907	662	42	—	—	—
Gavilan	649	46	—	—	—
Condor	596	43	—	—	—
Fiber Max FM 819	585	43	—	—	—
Fiber Max FM 966	574	43	—	—	—
Fiber Max FM 958	544	44	—	—	—
Test Mean	653				
L.S.D. (.05)	85				
C.V.	9%				

*Early season check variety.

**Full season check variety.

TABLE 2. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT BELLE MINA, ALABAMA, 2000

Variety	2000			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>		
Fiber Max FM 989	734	42	–	641	770
Sure-Grow 821	698	44	–	655	723
Fiber Max FM 832	704	42	–	605	702
Deltapine NuCotn 33B**	618	41	–	564	695
Deltapine DP 5415 RR	751	41	–	572	684
Deltapine DP 458BRR	652	42	–	505	669
Deltapine DP 655BRR	669	40	–	586	661
PhytoGen PSC 952	728	43	–	624	642
Acala MAXXA	534	45	–	490	559
Deltapine DP 675	661	42	–	628	–
PhytoGen HS 12	690	40	–	612	–
Paymaster PM 1560BG/RR	623	41	–	577	–
AP 7126	661	42	–	528	–
Sure-Grow 747*	797	45	–	–	–
PhytoGen GA 94-894	725	42	–	–	–
PhytoGen PSC GA 161	691	42	–	–	–
4600RR	636	45	–	–	–
Stoneville ST 580	613	42	–	–	–
Ligur	601	40	–	–	–
Test Mean	673				
L.S.D. (.05)	109				
C.V.	11%				

*Early season check variety.

**Full season check variety.

TABLE 3. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2000

Variety	2000			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	752	40	–	1,092	1,095
Sure-Grow 747*	654	40	–	1,024	1,043
Sure-Grow 105	606	37	–	941	986
Stoneville BXN 47	592	40	–	932	972
Stoneville 474	522	39	–	864	967
Deltapine NuCotn 33B**	509	34	–	860	942
Deltapine DP 425RR	553	35	–	902	936
Paymaster PM1560BG	427	40	–	881	916
Deltapine DP 428B	513	35	–	879	913
Deltapine DP 436RR	574	35	–	856	893
Deltapine DP 20B	480	35	–	742	788
Paymaster PM 1218BG/RR	630	41	–	985	–
Stoneville ST 4691B	612	40	–	962	–
Sure-Grow 501BR	564	37	–	947	–
PhytoGen PSC GA 161	482	35	–	934	–
Sure-Grow 125BR	488	36	–	904	–
Stoneville ST 4793R	526	40	–	874	–
Stoneville ST 4892BR	477	39	–	867	–
Deltapine DP 451B/RR	449	34	–	833	–
Deltapine DP 388	481	37	–	831	–
Deltapine DP 422B/RR	388	35	–	812	–
SS 9907	631	38	–	–	–
SS 9901	607	37	–	–	–
Sure-Grow 521R	600	39	–	–	–
Fiber Max FM 819	542	39	–	–	–
Condor	539	39	–	–	–
Gavilan	532	39	–	–	–
1500RR	529	38	–	–	–
Fiber Max FM 966	522	39	–	–	–
Fiber Max FM 958	517	38	–	–	–
SS 9501	489	38	–	–	–
Test Mean	542				
L.S.D. (.05)	137				
C.V.	18%				

*Early season check variety.

**Full season check variety.

TABLE 4. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT PRATTVILLE, ALABAMA, 2000

Variety	2000			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>		
Fiber Max FM 989	592	38	–	916	1,073
Fiber Max FM 832	579	36	–	868	1,042
Deltapine DP 655BRR	549	34	–	873	1,029
Sure-Grow 821	610	38	–	867	1,014
Deltapine NuCotn 33B**	491	35	–	847	996
Deltapine DP 458BRR	486	36	–	774	959
PhytoGen PSC GA 161	610	40	–	898	918
Deltapine DP 5415 RR	490	38	–	749	875
Deltapine DP 675	617	38	–	930	–
PhytoGen HS 12	561	36	–	922	–
AP 7126	585	38	–	880	–
Paymaster PM 1560BG/RR	496	39	–	801	–
PhytoGen PSC 952	578	38	–	–	–
Sure-Grow 747*	542	40	–	–	–
4600RR	504	37	–	–	–
Ligur	478	36	–	–	–
PhytoGen GA 94-894	459	35	–	–	–
Stoneville ST 580	436	37	–	–	–
Test Mean	537				
L.S.D. (.05)	100				
C.V.	13%				

*Early season check variety.

**Full season check variety.

TABLE 5. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2000

Variety	2000			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	1,188	40	90	1,078	1,021
Sure-Grow 747*	1,140	39	91	1,073	1,020
Sure-Grow 105	1,120	38	90	1,034	990
Paymaster PM1560BG	968	38	93	961	946
Deltapine DP 20B	973	36	91	964	926
Stoneville 474	1,057	41	88	987	923
Stoneville BXN 47	1,050	40	88	1,001	909
Deltapine DP 428B	918	34	90	903	902
Deltapine NuCotn 33B**	902	35	84	906	895
Deltapine DP 436RR	914	32	92	871	858
Deltapine DP 425RR	935	34	92	915	846
Sure-Grow 501BR	1,063	37	90	1,013	—
Stoneville ST 4691B	1,122	40	83	1,010	—
Stoneville ST 4793R	1,073	40	84	978	—
Stoneville ST 4892BR	1,054	39	86	969	—
Paymaster PM 1218BG/RR	902	40	92	969	—
PhytoGen PSC GA 161	992	35	90	966	—
Sure-Grow 125BR	985	36	88	957	—
Deltapine DP 388	1,054	38	91	944	—
Deltapine DP 451B/RR	908	33	86	885	—
Deltapine DP 422B/RR	841	34	91	856	—
AllTex Atlas	934	34	90	809	—
Gavilan	1,115	41	92	—	—
SS 9907	1,114	39	90	—	—
Sure-Grow 521R	1,094	38	88	—	—
1500RR	1,076	38	92	—	—
Fiber Max FM 958	1,067	39	88	—	—
Fiber Max FM 966	1,057	39	91	—	—
SS 9501	1,047	38	89	—	—
Condor	1,035	38	89	—	—
Fiber Max FM 819	1,000	41	90	—	—
SS 9901	982	37	85	—	—
Test Mean	1,021				
L.S.D. (.05)	98				
C.V.	7%				

*Early season check variety.

**Full season check variety.

TABLE 6. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT SHORTER, ALABAMA, 2000

Variety	2000			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	785	39	–	878	895
Fiber Max FM 832	827	39	–	867	872
PhytoGen PSC 952	800	39	–	865	839
Deltapine DP 655BRR	750	36	–	885	835
Fiber Max FM 989	826	39	–	865	834
Deltapine NuCotn 33B**	660	35	–	819	796
Deltapine DP 5415 RR	738	37	–	835	795
Deltapine DP 458BRR	665	36	–	747	765
Acala MAXXA	652	39	–	576	591
Deltapine DP 675	721	36	–	872	–
PhytoGen HS 12	752	36	–	858	–
Paymaster PM 1560BG/RR	753	39	–	819	–
AP 7126	697	38	–	808	–
Stoneville ST 580	838	38	–	–	–
Sure-Grow 747*	813	39	–	–	–
Ligur	756	38	–	–	–
PhytoGen GA 94-894	728	36	–	–	–
PhytoGen PSC GA 161	719	36	–	–	–
4600RR	711	37	–	–	–
Test Mean	747				
L.S.D. (.05)	99				
C.V.	9%				

*Early season check variety.

**Full season check variety.

TABLE 7. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 2000

Variety	2000			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	709	38	90	925	945
Sure-Grow 747*	718	40	79	833	867
Stoneville BXN 47	785	38	85	804	844
Stoneville 474	584	38	93	652	780
Deltapine NuCotn 33B**	623	33	82	720	779
Sure-Grow 105	613	37	82	699	776
Deltapine DP 436RR	696	34	79	742	736
Paymaster PM1560BG	600	35	87	737	733
Deltapine DP 425RR	598	33	85	658	714
Deltapine DP 20B	616	36	79	664	705
Deltapine DP 428B	510	34	92	621	690
Stoneville ST 4691B	673	38	91	806	—
Stoneville ST 4892BR	705	41	85	792	—
Sure-Grow 501BR	571	36	82	769	—
Sure-Grow 125BR	574	34	75	748	—
Stoneville ST 4793R	613	37	91	747	—
Deltapine DP 451B/RR	553	32	84	694	—
Deltapine DP 388	627	37	87	692	—
PhytoGen PSC GA 161	601	34	85	685	—
Paymaster PM 1218BG/RR	307	39	84	644	—
Deltapine DP 422B/RR	516	33	84	633	—
SS 9907	681	38	90	—	—
SS 9901	638	37	87	—	—
SS 9501	615	38	83	—	—
Fiber Max FM 958	614	39	80	—	—
Condor	606	37	88	—	—
Sure-Grow 521R	605	39	89	—	—
Fiber Max FM 966	600	39	83	—	—
Gavilan	596	41	91	—	—
Fiber Max FM 819	549	37	88	—	—
1500RR	516	35	88	—	—
Test Mean	607				
L.S.D. (.05)	128				
C.V.	15%				

*Early season check variety.

**Full season check variety.

TABLE 8. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT MONROEVILLE, ALABAMA, 2000

Variety	2000			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>		
Fiber Max FM 832	715	35	90	742	822
Sure-Grow 821	766	40	83	765	821
Deltapine NuCotn 33B**	635	35	87	701	780
Deltapine DP 655BRR	571	35	92	653	736
Fiber Max FM 989	511	34	89	623	713
Deltapine DP 458BRR	516	36	91	586	687
PhytoGen PSC 952	551	36	90	639	686
Deltapine DP 5415 RR	511	35	92	609	677
Deltapine DP 675	655	35	86	682	—
PhytoGen HS 12	505	33	93	672	—
Paymaster PM 1560BG/RR	339	34	89	588	—
AP 7126	307	35	95	484	—
Sure-Grow 747*	651	38	81	—	—
PhytoGen PSC GA 161	543	36	90	—	—
4600RR	479	36	89	—	—
PhytoGen GA 94-894	436	34	88	—	—
Stoneville ST 580	424	35	89	—	—
Ligur	411	33	93	—	—
Test Mean	529				
L.S.D. (.05)	153				
C.V.	20%				

*Early season check variety.

**Full season check variety.

TABLE 9. PERFORMANCE OF EARLY SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2000

Variety	2000			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	375	41	—	671	749
Sure-Grow 747*	394	41	—	668	743
Sure-Grow 105	401	39	—	630	711
Deltapine DP 428B	351	37	—	620	697
Deltapine NuCotn 33B**	360	35	—	568	684
Stoneville BXN 47	370	40	—	597	664
Stoneville 474	396	41	—	618	660
Deltapine DP 436RR	431	36	—	626	649
Deltapine DP 425RR	401	41	—	646	636
Deltapine DP 20B	382	40	—	619	632
Paymaster PM1560BG	314	40	—	608	623
Stoneville ST 4793R	385	42	—	662	—
Sure-Grow 501BR	373	38	—	638	—
Deltapine DP 451B/RR	362	38	—	625	—
Sure-Grow 125BR	364	38	—	613	—
Stoneville ST 4892BR	362	42	—	593	—
Deltapine DP 388	352	40	—	592	—
Deltapine DP 422B/RR	333	38	—	581	—
PhytoGen PSC GA 161	322	35	—	576	—
Stoneville ST 4691B	357	39	—	570	—
Paymaster PM 1218BG/RR	162	42	—	493	—
SS 9901	426	39	—	—	—
SS 9907	388	41	—	—	—
Fiber Max FM 966	366	41	—	—	—
Fiber Max FM 958	333	42	—	—	—
Fiber Max FM 819	330	40	—	—	—
Sure-Grow 521R	321	39	—	—	—
Condor	319	39	—	—	—
1500RR	296	39	—	—	—
SS 9501	290	40	—	—	—
Gavilan	281	42	—	—	—
Test Mean	351				
L.S.D. (.05)	70				
C.V.	14%				

*Early season check variety.

**Full season check variety.

TABLE 10. PERFORMANCE OF FULL SEASON COTTON VARIETIES AT HEADLAND, ALABAMA, 2000

Variety	2000			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 DP 655BRR	329	39	–	580	687
Deltapine NuCotn 33B**	313	37	–	586	666
Deltapine DP 458BRR	321	38	–	557	648
Sure-Grow 821	354	37	–	594	638
Fiber Max FM 989	277	39	–	540	638
Fiber Max FM 832	345	36	–	627	607
PhytoGen PSC 952	344	40	–	605	599
Deltapine DP 5415 RR	312	37	–	518	577
Deltapine DP 675	376	41	–	644	–
AP 7126	411	41	–	582	–
PhytoGen HS 12	325	36	–	543	–
Paymaster PM 1560BG/RR	282	38	–	531	–
Sure-Grow 747*	343	40	–	–	–
Ligur	337	40	–	–	–
PhytoGen GA 94-894	302	37	–	–	–
Stoneville ST 580	302	39	–	–	–
4600RR	295	41	–	–	–
PhytoGen PSC GA 161	286	38	–	–	–
Test Mean	325				
L.S.D. (.05)	76				
C.V.	16%				

*Early season check variety.

**Full season check variety.

**TABLE 11. PERFORMANCE OF EARLY SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2000+**

Variety	Yield, Lint/Acre			Lint			Earliness		
	2000 <i>lb.</i>	1999-00 <i>lb.</i>	1998-00 <i>lb.</i>	2000 <i>pct.</i>	1999-00 <i>pct.</i>	1998-00 <i>pct.</i>	2000 <i>pct.</i>	1999-00 <i>pct.</i>	1998-00 <i>pct.</i>
PhytoGen PSC 355	729	880	901	40	41	41	90	-	-
Sure-Grow 747*	725	853	881	41	41	41	85	-	-
Sure-Grow 105	670	786	841	39	39	39	86	-	-
Stoneville BXN 47	696	780	815	40	41	41	87	-	-
Stoneville 474	648	744	803	41	41	42	91	-	-
Deltapine NuCotn 33B**	605	719	785	35	37	37	83	-	-
Paymaster PM1560BG	598	764	780	40	40	40	90	-	-
Deltapine DP 428B	591	723	774	36	37	38	91	-	-
Deltapine DP 425RR	643	744	760	37	38	38	89	-	-
Deltapine DP 20B	632	730	755	38	38	39	85	-	-
Deltapine DP 436RR	648	733	752	36	37	37	86	-	-
Sure-Grow 501BR	655	816	-	38	38	-	86	-	-
Stoneville ST 4691B	700	788	-	40	41	-	87	-	-
Stoneville ST 4793R	669	777	-	41	41	-	88	-	-
Sure-Grow 125BR	609	770	-	37	38	-	82	-	-
Paymaster PM 1218BG/RR	543	761	-	41	41	-	88	-	-
Stoneville ST 4892BR	648	758	-	41	41	-	86	-	-
PhytoGen PSC GA 161	605	756	-	36	38	-	88	-	-
Deltapine DP 388	631	733	-	39	39	-	89	-	-
Deltapine DP 451B/RR	581	726	-	35	36	-	85	-	-
Deltapine DP 422B/RR	538	700	-	36	37	-	88	-	-
AllTex Atlas	739	645	-	36	36	-	90	-	-
SS 9907	695	-	-	40	-	-	90	-	-
SS 9901	671	-	-	38	-	-	86	-	-
Sure-Grow 521R	660	-	-	40	-	-	89	-	-
Gavilan	634	-	-	42	-	-	92	-	-
Fiber Max FM 966	624	-	-	40	-	-	87	-	-
SS 9501	621	-	-	40	-	-	86	-	-
1500RR	619	-	-	39	-	-	90	-	-
Condor	619	-	-	39	-	-	89	-	-
Fiber Max FM 958	615	-	-	40	-	-	84	-	-
Fiber Max FM 819	601	-	-	40	-	-	89	-	-

+Fairhope not included.

*Early season check variety.

**Full season check variety.

**TABLE 12. PERFORMANCE OF FULL SEASON COTTON VARIETIES IN ALABAMA,
AVERAGE OF ALL LOCATIONS, 2000+**

Variety	Yield, Lint/Acre			Lint			Earliness		
	2000 <i>lb.</i>	1999-00 <i>lb.</i>	1998-00 <i>lb.</i>	2000 <i>pct.</i>	1999-00 <i>pct.</i>	1998-00 <i>pct.</i>	2000 <i>pct.</i>	1999-00 <i>pct.</i>	1998-00 <i>pct.</i>
Sure-Grow 821	643	752	818	40	39	39	83	—	—
Fiber Max FM 832	634	742	809	38	39	39	90	—	—
Fiber Max FM 989	588	717	805	38	39	40	89	—	—
Deltapine DP 655BRR	574	715	789	37	37	38	92	—	—
Deltapine NuCotn 33B**	543	703	787	37	37	38	87	—	—
Deltapine DP 458BRR	528	634	746	38	38	39	91	—	—
PhytoGen PSC 952	607	726	737	40	39	39	90	—	—
Deltapine DP 5415 RR	560	657	722	38	39	39	92	—	—
Acala MAXXA	593	533	575	42	40	41	—	—	—
Deltapine DP 675	606	751	—	38	39	—	86	—	—
PhytoGen HS 12	567	721	—	36	37	—	93	—	—
Paymaster PM 1560BG/RR	498	663	—	38	39	—	89	—	—
AP 7126	532	656	—	39	40	—	95	—	—
Sure-Grow 747*	629	—	—	40	—	—	81	—	—
PhytoGen PSC 952	563	—	—	38	—	—	90	—	—
PhytoGen GA 94-894	530	—	—	37	—	—	88	—	—
4600RR	525	—	—	39	—	—	89	—	—
Stoneville ST 580	523	—	—	38	—	—	89	—	—
Ligur	517	—	—	37	—	—	93	—	—

+Fairhope not included.

*Early season check variety.

**Full season check variety.

**TABLE 13. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2000**

Variety	2000			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	1,378	42	—	1,293	1,429
Sure-Grow 747*	1,344	42	—	1,340	1,385
Deltapine NuCotn 33B**	1,172	38	—	1,082	1,178
Paymaster PM1560BG	1,420	41	—	1,307	—
Sure-Grow 501BR	1,275	40	—	1,280	—
Deltapine DP 428B	1,328	39	—	1,186	—
Deltapine DP 451B/RR	1,171	37	—	1,165	—
Deltapine DP 436RR	1,252	37	—	1,156	—
Sure-Grow 521R	1,435	41	—	—	—
Paymaster PM 1218BG/R	1,405	42	—	—	—
Deltapine DP 20B	1,337	39	—	—	—
1500 RR	1,331	40	—	—	—
PhytoGen PSC 355	1,320	40	—	—	—
Stoneville ST 4793R	1,288	41	—	—	—
Test Mean	1,318				
L.S.D. (.05)	140				
C.V.	7%				

*Early season check variety.

**Full season check variety.

**TABLE 14. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT BELLE MINA, ALABAMA, 2000**

Variety	2000			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	1,345	39	–	1,201	1,325
Deltapine NuCotn 33B**	1,349	39	–	1,100	1,269
Fiber Max FM 989	1,392	40	–	1,170	1,261
Deltapine DP 458BRR	1,230	38	–	1,013	1,184
Deltapine DP 655BRR	1,165	38	–	1,022	1,180
Fiber Max FM 832	1,212	39	–	1,020	1,124
Deltapine DP 5415 RR	1,297	40	–	1,067	–
Stoneville ST 580	1,388	40	–	–	–
Sure-Grow 747*	1,384	41	–	–	–
PhytoGen HS 12	1,183	37	–	–	–
PhytoGen PSC GA 161	1,175	37	–	–	–
AP 7126	1,143	40	–	–	–
Test Mean	1,272				
L.S.D. (.05)	133				
C.V.	7%				

*Early season check variety.

**Full season check variety.

**TABLE 15. PERFORMANCE OF EARLY SEASON IRRIGATED COTTON VARIETIES
AT SHORTER, ALABAMA, 2000**

Variety	2000			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	1,481	45	87	1,423	1,287
Sure-Grow 747*	1,292	43	91	1,376	1,254
Deltapine NuCotn 33B**	1,424	42	85	1,324	1,189
Sure-Grow 501BR	1,334	43	88	1,335	–
Paymaster PM1560BG	1,261	41	91	1,274	–
Deltapine DP 428B	1,225	40	89	1,233	–
Deltapine DP 451B/RR	1,217	40	87	1,226	–
Deltapine DP 436RR	1,188	38	89	1,201	–
Stoneville ST 4793R	1,544	46	88	–	–
PhytoGen PSC 355	1,515	43	90	–	–
1500RR	1,345	43	87	–	–
Sure-Grow 521R	1,269	41	90	–	–
Deltapine DP 20B	1,248	41	88	–	–
Paymaster PM 1218BG/RR	1,110	43	93	–	–
Test Mean	1,318				
L.S.D. (.05)	198				
C.V.	10%				

*Early season check variety.

**Full season check variety.

**TABLE 16. PERFORMANCE OF FULL SEASON IRRIGATED COTTON VARIETIES
AT SHORTER, ALABAMA, 2000**

Variety	2000			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>		
Fiber Max FM 832	1,655	42	88	1,436	1,284
Sure-Grow 821	1,521	43	84	1,461	1,259
Deltapine DP 458BRR	1,602	42	80	1,421	1,242
Fiber Max FM 989	1,564	43	90	1,424	1,239
Deltapine NuCotn 33B**	1,578	42	87	1,420	1,213
Deltapine DP 655BRR	1,468	39	82	1,316	1,150
Deltapine DP 5415 RR	1,738	41	82	1,485	—
Stoneville ST 580	1,789	42	85	—	—
Sure-Grow 747*	1,586	42	91	—	—
AP 7126	1,557	42	86	—	—
PhytoGen HS 12	1,518	40	76	—	—
PhytoGen PSC GA 161	1,472	38	85	—	—
Test Mean	1,587				
L.S.D. (.05)	128				
C.V.	6%				

*Early season check variety.

**Full season check variety.

TABLE 17. PERFORMANCE OF IRRIGATED COTTON VARIETIES AT HEADLAND, ALABAMA, 2000

Variety	2000			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>		
Fiber Max FM 989	1,308	37	—	1,195	1,179
Sure-Grow 747*	1,263	38	—	1,303	—
Sure-Grow 821	1,165	37	—	1,150	—
Deltapine DP 655BRR	1,255	36	—	1,148	—
Stoneville 474	1,186	38	—	1,142	—
Deltapine DP 451B/RR	1,009	33	—	1,101	—
Deltapine DP 428B	1,078	33	—	1,045	—
Deltapine NuCotn 33B**	1,008	35	—	1,013	—
Fiber Max FM 832	995	35	—	949	—
PhytoGen PSC 355	1,270	38	—	—	—
Sure-Grow 521R	1,196	36	—	—	—
Paymaster PM1560BG	1,142	38	—	—	—
Sure-Grow 501BR	1,073	37	—	—	—
Deltapine DP 436RR	987	33	—	—	—
Paymaster PM 1218BG/RR	872	37	—	—	—
Test Mean	1,120				
L.S.D. (.05)	204				
C.V.	13%				

*Early season check variety.

**Full season check variety.

TABLE 18. RELATIVE YIELD RANKINGS BY LOCATION OF EARLY SEASON COTTON VARIETIES, 2000

Variety	Belle Mina	Prattville	Shorter	Monroeville	Headland
1500RR	13	16	8	29	28
Condor	28	14	18	16	26
Gavilan	17	15	5	22	30
Deltapine DP 388	19	26	15	9	19
Deltapine DP 20B	6	27	23	11	9
Deltapine DP 428B	15	21	26	30	20
Deltapine DP 425RR	3	12	25	21	4
Deltapine DP 436RR	24	10	27	5	1
Deltapine DP 422BRR	26	31	31	28	22
Deltapine DP 451BRR	20	29	28	26	16
Deltapine NuCotn 33B	22	22	30	10	17
F'Max 819	29	13	19	27	23
F'Max 958	31	20	10	13	21
F'Max 966	30	18	12	20	13
PM 1560BG	12	30	24	19	27
PM 1218BG/RR	5	4	29	31	31
PhytoGen PSC 355	25	1	1	3	10
PhytoGen PSC GA 161	23	25	20	18	24
SS 9501	14	23	17	12	29
SS 9901	8	6	22	8	2
SS 9907	16	3	6	6	7
Stoneville 474	10	19	13	23	5
Stoneville BXN 47	9	9	16	1	12
Stoneville ST 4691B	2	5	3	7	18
Stoneville ST 4892BR	18	28	14	4	15
Stoneville ST 4793R	1	17	9	15	8
Sure-Grow 105	27	7	4	14	3
Sure-Grow 747	4	2	2	2	6
Sure-Grow 125BR	21	24	21	24	14
Sure-Grow 501BR	7	11	11	25	11
Sure-Grow 521R	11	8	7	17	25

TABLE 19. RELATIVE YIELD RANKINGS BY LOCATION OF FULL SEASON COTTON VARIETIES, 2000

Variety	Belle Mina	Prattville	Shorter	Monroeville	Headland
4600RR	14	11	15	13	15
AP 7126	11	5	16	18	1
Deltapine DP 675	12	1	13	3	2
Deltapine NuCotn 33B	16	13	18	5	11
Deltapine DP 5415RR	2	14	11	10	12
Deltapine DP 458BRR	13	15	17	9	10
Deltapine DP 655BRR	10	9	10	6	8
F'Max 832	6	6	2	2	4
F'Max 989	3	4	3	11	18
Ligur	18	16	7	16	7
PM 1560 BG/RR	15	12	8	17	17
PhytoGen HS 12	9	8	9	12	9
PhytoGen PSC GA 94-894	5	17	12	14	13
PhytoGen PSC 952	4	3	5	7	5
PhytoGen PSC GA 161	8	7	14	8	16
Stoneville ST 580	17	18	1	15	14
Sure-Grow 821	7	2	6	1	3

TABLE 20. COTTON FIBER ANALYSIS, HVI, BELLE MINA, ALABAMA, 2000

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	4.5	1.02	83.0	28.1	5.3
Condor	5.1	1.03	83.9	29.3	5.1
Gavilan	5.4	1.04	83.7	27.5	5.7
Deltapine DP 388	5.2	1.04	84.2	29.0	6.3
Deltapine DP 20B	5.1	1.06	83.8	28.3	5.5
Deltapine DP 428B	5.2	1.06	82.7	24.6	5.2
Deltapine DP 425RR	5.4	1.00	83.3	27.1	5.7
Deltapine DP 436RR	5.2	0.98	81.5	25.9	5.8
Deltapine DP 422BRR	4.9	1.03	84.1	27.3	6.5
Deltapine DP 451BRR	5.4	1.05	83.8	25.5	5.4
F*Max 819	4.9	1.10	85.1	30.1	4.3
F*Max 958	5.3	1.05	84.1	28.0	4.3
F*Max 966	5.1	1.03	82.8	29.3	4.3
PM 1560BG	5.1	1.02	82.7	27.7	6.2
PM 1218BG/RR	5.4	0.98	83.5	26.2	5.9
PhytoGen PSC 355	5.6	1.04	84.9	30.4	6.3
PhytoGen PSC GA 161	5.1	1.04	83.2	30.2	5.0
SS 9501	5.4	1.07	84.4	28.6	5.8
SS 9901	5.1	1.04	84.1	30.7	5.5
SS 9907	5.8	1.07	87.1	30.8	5.5
Stoneville 474	5.2	1.04	85.8	28.3	5.2
Stoneville BXN 47	5.3	1.01	82.6	25.8	4.7
Stoneville ST 4691B	5.7	1.05	83.0	27.2	5.0
Stoneville ST 4892BR	5.5	1.03	84.6	27.2	5.6
Stoneville ST 4793R	5.5	1.04	83.6	28.0	5.0
Sure-Grow 105	5.3	1.06	84.0	27.5	5.5
Sure-Grow 747	5.4	1.05	83.1	27.1	6.4
Sure-Grow 125BR	5.1	1.07	85.6	29.2	5.3
Sure-Grow 501BR	5.5	1.03	84.4	29.5	6.0
Sure-Grow 521R	5.4	0.97	82.5	26.3	6.4
Full season					
4600RR	5.1	0.94	81.3	23.8	5.9
AP 7126	5.1	1.09	84.0	31.2	6.1
Deltapine DP 675	5.2	1.05	83.3	32.0	6.0
Deltapine NuCotn 33B	5.5	1.04	82.4	29.3	5.7
Deltapine DP 5415RR	5.5	1.07	83.8	30.7	5.6
Deltapine DP 458BRR	5.6	1.07	82.7	30.8	5.9
Deltapine DP 655BRR	5.0	1.06	82.7	28.9	4.7
F*Max 832	5.2	1.10	83.2	30.4	4.8
F*Max 989	5.2	1.04	82.6	29.2	4.7
Ligur	5.1	1.06	84.5	30.7	4.5
PM 1560 BG/RR	5.1	1.05	82.7	28.1	4.9
PhytoGen HS 12	5.3	1.08	83.6	29.5	4.8
PhytoGen PSC GA 94-894	5.3	1.11	83.0	31.5	4.5
PhytoGen PSC 952	5.3	1.06	83.1	28.8	5.0
PhytoGen PSC GA 161	5.5	1.03	83.5	29.4	5.7
Stoneville ST 580	5.4	1.04	83.8	29.2	5.1
Sure-Grow 821	5.5	1.07	83.5	29.1	6.1

TABLE 21. COTTON FIBER ANALYSIS, HVI, PRATTVILLE, ALABAMA, 2000

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	3.4	1.06	80.7	27.3	4.6
Condor	4.3	1.05	81.9	28.2	4.5
Gavilan	4.1	1.09	82.1	28.7	5.1
Deltapine DP 388	4.4	1.07	82.1	29.1	5.3
Deltapine DP 20B	4.0	1.04	81.4	26.3	5.1
Deltapine DP 428B	4.3	1.05	80.8	25.9	5.2
Deltapine DP 425RR	4.1	1.06	80.4	27.6	5.3
Deltapine DP 436RR	4.5	1.08	81.7	28.4	5.3
Deltapine DP 422BRR	3.6	1.07	80.9	26.6	5.5
Deltapine DP 451BRR	4.3	1.08	79.7	27.2	4.6
F*Max 819	4.0	1.12	81.7	31.0	4.4
F*Max 958	3.8	1.11	80.2	28.7	3.8
F*Max 966	4.2	1.09	80.9	32.1	3.7
PM 1560BG	4.4	1.03	80.5	27.2	5.3
PM 1218BG/RR	4.9	1.03	81.8	27.3	5.7
PhytoGen PSC 355	4.7	1.08	81.7	27.8	6.2
PhytoGen PSC GA 161	3.7	1.14	81.4	30.8	4.5
SS 9501	4.1	1.05	81.7	29.5	5.1
SS 9901	4.2	1.05	80.2	28.6	5.3
SS 9907	4.7	1.04	82.0	30.0	4.8
Stoneville 474	4.0	1.09	80.4	27.4	4.3
Stoneville BXN 47	4.3	1.03	80.1	26.5	4.5
Stoneville ST 4691B	4.1	1.07	80.8	28.2	4.4
Stoneville ST 4892BR	4.2	1.07	81.3	28.2	4.3
Stoneville ST 4793R	4.5	1.07	82.4	29.0	4.8
Sure-Grow 105	4.3	1.08	82.1	28.5	4.5
Sure-Grow 747	4.3	1.05	81.6	27.7	5.9
Sure-Grow 125BR	4.0	1.04	81.2	26.7	5.0
Sure-Grow 501BR	3.8	1.04	81.3	28.3	5.6
Sure-Grow 521R	4.0	1.04	80.9	27.6	5.7
Full season					
4600RR	4.1	1.03	79.6	26.0	5.3
AP 7126	4.5	1.08	80.2	26.7	5.0
Deltapine DP 675	4.4	1.05	81.1	30.7	4.8
Deltapine NuCotn 33B	4.3	1.08	80.5	28.3	4.7
Deltapine DP 5415RR	4.4	1.02	79.5	29.0	4.7
Deltapine DP 458BRR	4.5	1.05	80.8	28.4	5.4
Deltapine DP 655BRR	4.0	1.01	78.9	27.8	4.2
F*Max 832	4.3	1.09	80.1	29.7	4.4
F*Max 989	4.1	1.09	81.6	30.1	4.6
Ligur	4.1	1.06	81.1	32.1	4.6
PM 1560 BG/RR	4.7	1.04	80.5	28.1	5.6
PhytoGen HS 12	4.5	1.09	78.2	30.2	4.5
PhytoGen PSC GA 94-894	4.0	1.06	80.5	30.4	4.8
PhytoGen PSC 952	4.5	1.05	81.7	29.8	5.2
PhytoGen PSC GA 161	3.7	1.11	81.4	30.6	4.9
Stoneville ST 580	4.3	1.04	80.0	30.3	5.2
Sure-Grow 821	4.5	1.07	82.8	30.9	6.2

TABLE 22. COTTON FIBER ANALYSIS, HVI, SHORTER, ALABAMA, 2000

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	3.9	1.08	83.5	31.6	4.8
Condor	4.4	1.05	82.3	29.9	4.9
Gavilan	4.4	1.11	85.6	31.6	5.3
Deltapine DP 388	4.2	1.07	82.9	30.6	5.2
Deltapine DP 20B	4.0	1.09	84.4	28.5	5.1
Deltapine DP 428B	4.1	1.11	81.0	27.4	4.8
Deltapine DP 425RR	4.6	1.07	85.3	28.0	4.7
Deltapine DP 436RR	4.2	1.08	82.4	28.9	5.4
Deltapine DP 422BRR	3.8	1.07	83.5	28.4	5.0
Deltapine DP 451BRR	4.2	1.13	84.1	27.9	4.2
F ⁺ Max 819	4.5	1.14	85.3	32.1	4.0
F ⁺ Max 958	4.5	1.11	83.1	30.3	4.4
F ⁺ Max 966	4.0	1.11	83.6	30.5	3.5
PM 1560BG	4.0	1.05	83.0	30.5	5.2
PM 1218BG/RR	4.3	1.06	83.8	27.9	4.7
PhytoGen PSC 355	4.4	1.10	84.4	32.6	5.4
PhytoGen PSC GA 161	4.4	1.13	83.7	31.2	4.5
SS 9501	4.5	1.11	84.2	32.1	4.5
SS 9901	4.6	1.07	82.5	30.8	5.2
SS 9907	4.7	1.11	84.6	33.8	4.8
Stoneville 474	5.0	1.02	82.5	27.5	4.8
Stoneville BXN 47	4.8	1.11	85.5	31.0	4.2
Stoneville ST 4691B	5.0	1.08	84.2	28.6	4.7
Stoneville ST 4892BR	4.7	1.09	85.5	31.4	4.4
Stoneville ST 4793R	4.6	1.02	81.7	28.2	4.7
Sure-Grow 105	4.8	1.08	84.0	30.2	4.8
Sure-Grow 747	4.2	1.09	84.4	29.7	5.4
Sure-Grow 125BR	4.1	1.03	83.8	29.9	5.3
Sure-Grow 501BR	4.4	1.06	85.4	30.9	5.7
Sure-Grow 521R	4.5	1.05	83.7	29.7	5.2
Full season					
4600RR	4.3	1.09	83.6	29.8	5.6
AP 7126	4.8	1.15	84.8	33.8	5.1
Deltapine DP 675	4.9	1.14	84.9	34.7	5.6
Deltapine NuCotn 33B	4.9	1.14	85.7	33.4	5.6
Deltapine DP 5415RR	5.0	1.12	83.6	34.1	5.3
Deltapine DP 458BRR	5.1	1.14	85.7	34.0	5.5
Deltapine DP 655BRR	4.4	1.10	83.1	36.0	4.6
F ⁺ Max 832	4.3	1.18	84.2	35.3	4.3
F ⁺ Max 989	4.6	1.09	82.5	33.7	5.0
Ligur	4.9	1.12	85.1	37.0	5.1
PM 1560 BG/RR	5.0	1.14	86.6	32.3	5.1
PhytoGen HS 12	5.0	1.15	85.0	34.3	4.5
PhytoGen PSC GA 94-894	4.8	1.15	85.7	36.2	4.7
PhytoGen PSC 952	4.6	1.16	85.9	34.3	4.5
PhytoGen PSC GA 161	5.1	1.13	85.3	34.5	6.1
Stoneville ST 580	4.5	1.12	84.3	31.8	5.4
Sure-Grow 821	5.3	1.11	85.9	33.6	6.5

TABLE 23. COTTON FIBER ANALYSIS, HVI, MONROEVILLE, ALABAMA, 2000

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	3.9	1.09	81.0	30.5	4.1
Condor	4.4	1.11	81.4	32.2	4.0
Gavilan	5.2	1.11	83.2	28.0	4.6
Deltapine DP 388	4.7	1.05	81.3	28.5	4.5
Deltapine DP 20B	4.3	1.11	79.9	27.7	4.7
Deltapine DP 428B	4.5	1.08	80.2	26.4	4.2
Deltapine DP 425RR	4.5	1.07	79.4	28.0	4.5
Deltapine DP 436RR	4.3	1.13	78.3	28.6	4.3
Deltapine DP 422BRR	4.2	1.16	80.0	27.3	5.3
Deltapine DP 451BRR	4.3	1.09	80.2	25.4	4.3
F*Max 819	4.2	1.15	81.5	30.8	3.9
F*Max 958	4.2	1.10	84.0	31.2	3.9
F*Max 966	4.6	1.10	82.1	30.5	3.5
PM 1560BG	4.0	1.13	81.7	28.9	4.5
PM 1218BG/RR	4.4	1.00	79.7	25.7	4.9
PhytoGen PSC 355	4.5	1.12	83.3	29.5	5.2
PhytoGen PSC GA 161	4.3	1.17	79.6	30.9	4.2
SS 9501	4.3	1.11	80.2	28.6	4.8
SS 9901	4.5	1.09	80.5	27.9	5.4
SS 9907	5.1	1.09	83.5	30.3	5.0
Stoneville 474	4.7	1.18	83.8	29.8	3.9
Stoneville BXN 47	4.9	1.08	80.8	27.4	4.1
Stoneville ST 4691B	4.8	1.06	80.5	26.5	4.2
Stoneville ST 4892BR	4.4	1.16	80.9	28.8	4.2
Stoneville ST 4793R	5.0	1.09	80.4	29.7	4.2
Sure-Grow 105	5.0	1.12	81.1	28.9	4.8
Sure-Grow 747	4.6	1.11	79.3	29.3	4.5
Sure-Grow 125BR	4.6	1.10	81.5	26.9	4.8
Sure-Grow 501BR	5.3	1.10	82.8	29.1	4.3
Sure-Grow 521R	4.7	1.06	81.4	27.8	4.7
Full season					
4600RR	4.6	1.07	82.3	27.9	4.7
AP 7126	4.5	1.20	81.6	31.1	3.7
Deltapine DP 675	4.7	1.15	83.4	33.3	4.7
Deltapine NuCotn 33B	4.9	1.13	80.1	28.0	4.7
Deltapine DP 5415RR	4.7	1.11	82.8	31.8	4.3
Deltapine DP 458BRR	5.1	1.10	83.6	28.8	4.6
Deltapine DP 655BRR	4.7	1.13	82.3	32.1	4.0
F*Max 832	4.8	1.16	81.5	30.9	4.0
F*Max 989	4.8	1.17	83.7	32.5	3.6
Ligur	4.6	1.12	83.2	32.1	4.1
PM 1560 BG/RR	4.1	1.16	83.3	30.6	4.3
PhytoGen HS 12	4.8	1.12	81.0	29.9	4.2
PhytoGen PSC GA 94-894	4.9	1.11	82.4	30.2	4.1
PhytoGen PSC 952	4.6	1.12	83.6	27.3	5.2
PhytoGen PSC GA 161	4.6	1.10	83.2	29.2	3.8
Stoneville ST 580	4.9	1.16	83.3	32.5	4.2
Sure-Grow 821	5.4	1.14	84.5	29.8	4.9

TABLE 24. COTTON FIBER ANALYSIS, HVI, HEADLAND, ALABAMA, 2000

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	4.3	1.02	81.5	27.2	5.2
Condor	5.0	1.04	81.6	28.1	5.3
Gavilan	5.0	1.05	83.1	26.8	5.5
Deltapine DP 388	4.6	0.97	82.0	27.5	5.8
Deltapine DP 20B	4.8	1.03	83.4	26.3	5.8
Deltapine DP 428B	4.9	1.11	83.2	26.2	5.3
Deltapine DP 425RR	5.0	0.92	79.7	22.6	5.5
Deltapine DP 436RR	4.9	1.05	82.1	25.9	5.3
Deltapine DP 422BRR	4.8	1.02	82.4	26.3	5.9
Deltapine DP 451BRR	4.9	1.02	80.8	24.0	4.9
F'Max 819	4.6	1.08	82.6	28.4	4.9
F'Max 958	4.8	1.06	82.5	27.9	4.3
F'Max 966	4.8	1.03	81.8	28.5	4.5
PM 1560BG	4.9	1.01	81.9	27.8	5.8
PM 1218BG/RR	4.8	0.93	79.7	24.2	5.6
PhytoGen PSC 355	5.1	1.04	83.2	30.9	5.6
PhytoGen PSC GA 161	4.2	1.14	81.7	31.8	4.6
SS 9501	4.7	1.08	83.4	27.2	5.3
SS 9901	5.0	1.00	80.8	27.8	6.0
SS 9907	5.3	1.04	83.2	30.5	5.7
Stoneville 474	5.3	1.04	82.8	27.4	4.8
Stoneville BXN 47	5.0	1.01	83.0	26.3	5.1
Stoneville ST 4691B	4.6	1.00	79.8	25.2	5.2
Stoneville ST 4892BR	5.1	1.05	82.4	26.8	4.6
Stoneville ST 4793R	5.0	0.98	82.1	26.3	4.9
Sure-Grow 105	5.3	1.06	84.4	28.1	5.2
Sure-Grow 747	5.1	1.02	80.1	26.7	6.7
Sure-Grow 125BR	4.8	1.05	81.6	27.9	5.8
Sure-Grow 501BR	4.7	1.05	84.2	27.8	5.4
Sure-Grow 521R	4.8	0.98	81.1	26.3	6.1
Full season					
4600RR	4.8	0.97	80.4	25.2	5.3
AP 7126	4.9	1.04	81.1	26.3	5.2
Deltapine DP 675	5.1	0.98	80.1	29.7	5.7
Deltapine NuCotn 33B	5.1	1.05	82.0	27.7	5.4
Deltapine DP 5415RR	4.9	1.07	82.5	27.8	5.5
Deltapine DP 458BRR	4.8	1.08	81.7	28.0	5.0
Deltapine DP 655BRR	5.1	1.03	82.5	28.7	4.4
F'Max 832	3.9	1.17	83.6	29.4	4.2
F'Max 989	4.9	1.04	81.7	27.9	4.7
Ligur	5.3	1.06	83.0	29.2	4.9
PM 1560 BG/RR	4.6	1.07	82.2	27.1	4.9
PhytoGen HS 12	5.0	1.06	81.5	27.1	4.6
PhytoGen PSC GA 94-894	4.6	1.07	81.9	29.6	4.5
PhytoGen PSC 952	5.1	1.01	81.0	26.7	5.5
PhytoGen PSC GA 161	4.8	1.04	82.5	29.3	5.1
Stoneville ST 580	5.1	1.06	82.1	28.3	5.7
Sure-Grow 821	4.8	1.08	83.5	29.5	5.8

TABLE 25. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, BELLE MINA, ALABAMA, 2000

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	3.9	1.13	84.6	30.0	5.5
Deltapine DP 20B	3.7	1.17	83.0	29.0	5.5
Deltapine DP 428B	3.7	1.11	83.2	26.7	4.9
Deltapine DP 436RR	3.9	1.18	85.6	29.7	6.1
Deltapine DP 451BRR	3.3	1.13	85.4	27.7	4.5
PhytoGen PSC 355	4.2	1.08	85.0	32.1	6.1
PM 1560BG	4.2	1.12	84.2	31.1	5.0
PM 1218 BG/RR	4.8	1.09	87.3	26.6	5.0
Stoneville 474	4.4	1.07	81.0	27.1	4.9
Stoneville ST 4793R	4.9	1.11	84.7	25.8	5.1
Sure-Grow 747	3.9	1.08	80.9	25.9	6.2
Sure-Grow 521R	4.1	1.15	87.1	29.6	5.6
Sure-Grow 501BR	3.9	1.13	85.7	29.5	6.2
Full season					
AP 7126	3.6	1.21	85.5	29.9	4.9
Deltapine NuCotn 33B	3.7	1.23	85.6	31.4	4.6
Deltapine DP 5415RR	4.0	1.13	83.9	29.7	4.8
Deltapine DP 458BRR	4.1	1.13	85.9	27.9	5.3
Deltapine DP 655BRR	3.3	1.13	84.0	32.9	4.5
F'Max 832	3.4	1.23	87.0	36.0	4.1
F'Max 989	3.4	1.21	85.9	31.8	4.0
PhytoGen HS 12	3.7	1.17	82.9	31.5	4.5
PhytoGen PSC GA 161	3.3	1.15	83.1	32.9	4.6
Stoneville ST 580	3.9	1.21	87.2	29.9	5.8
Sure-Grow 821	3.6	1.20	87.8	32.8	5.6

TABLE 26. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, SHORTER, ALABAMA, 2000

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	4.8	1.05	82.4	31.8	5.6
Deltapine DP 20B	5.1	1.07	84.5	31.2	6.5
Deltapine DP 428B	5.5	1.09	84.9	30.4	5.3
Deltapine DP 436RR	4.8	1.10	83.1	31.4	6.0
Deltapine DP 451BRR	5.6	1.07	83.5	28.4	5.9
PhytoGen PSC 355	5.3	1.08	86.2	32.0	7.3
PM 1560BG	4.9	1.10	85.1	33.2	6.2
PM 1218 BG/RR	5.2	1.11	83.9	31.0	5.6
Stoneville 474	5.8	1.04	84.4	31.0	6.5
Stoneville ST 4793R	5.5	1.04	84.4	32.0	5.7
Sure-Grow 747	5.4	1.14	86.1	30.4	6.8
Sure-Grow 521R	4.8	1.04	82.7	31.1	6.2
Sure-Grow 501BR	5.4	1.08	85.3	33.3	6.3
Full season					
AP7126	5.3	1.16	84.1	31.8	5.2
Deltapine NuCotn 33B	5.2	1.11	83.5	31.3	5.8
Deltapine DP 5415RR	5.6	1.12	85.0	32.0	6.5
Deltapine DP 458BRR	5.5	1.11	84.9	30.6	5.9
Deltapine DP 655BRR	4.9	1.08	82.8	31.7	4.9
F'Max 832	4.5	1.16	85.0	33.7	4.8
F'Max 989	5.2	1.07	82.2	30.5	4.6
PhytoGen HS 12	5.2	1.12	83.6	31.5	5.3
PhytoGen PSC GA 161	5.0	1.15	84.7	33.2	4.7
Stoneville ST 580	5.3	1.11	83.5	31.8	6.3
Sure-Grow 821	5.7	1.02	84.2	30.6	6.8

TABLE 27. COTTON FIBER ANALYSIS, HVI, IRRIGATED COTTON, HEADLAND, ALABAMA, 2000

Brand-Variety	Micronaire <i>units</i>	Length <i>in.</i>	Uniformity <i>pct.</i>	Strength <i>g/tex</i>	Elongation <i>pct.</i>
Deltapine NuCotn 33B	4.7	1.14	84.4	30.8	5.4
Deltapine DP 428B	4.4	1.16	84.4	29.1	4.9
Deltapine DP 436RR	4.5	1.12	83.2	30.0	5.1
Deltapine DP 451BRR	4.6	1.17	84.4	30.4	4.7
Deltapine DP 655BRR	4.6	1.15	84.4	30.1	4.8
F'Max 832	4.0	1.20	84.1	33.8	4.2
F'Max 989	4.3	1.20	86.0	34.6	4.5
PhytoGen PSC 355	4.7	1.15	85.1	31.8	5.0
PM 1560BG	4.8	1.13	83.7	31.7	4.9
PM 1218BG/RR	4.5	1.14	83.2	29.0	4.8
Stoneville 474	4.5	1.11	84.5	29.7	4.5
Sure-Grow 747	4.6	1.12	84.3	29.7	5.3
Sure-Grow 821	4.5	1.13	84.3	32.6	5.8
Sure-Grow 521R	4.1	1.09	83.1	30.3	5.4
Sure-Grow 501BR	4.6	1.14	85.0	32.9	5.0

TABLE 28. GROWING SEASON RAINFALL, 1998-00

Test Location	Year	Monthly Rainfall (inches)							7-month Total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina	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
	1998	4.3	4.3	2.4	1.8	5.3	1.8	0.9	20.8
Shorter	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
	1998	6.5	5.2	4.4	2.6	2.6	2.2	9.9	33.4
Prattville	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
	1998	5.3	2.4	2.5	2.7	4.1	3.4	8.6	29.3
Monroeville	2000	3.5	2.5	0.4	6.5	3.2	2.3	3.2	21.6
	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
Fairhope	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
	1998	6.1	4.5	0.8	2.2	6.1	5.9	24.1	49.7
Headland.....	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
	1998	9.2	2.7	0.5	2.4	9.6	3.9	14.8	43.1

TABLE 29. SOIL TYPES FOR COTTON TRIALS, 2000

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 30. SOURCES OF SEED FOR THE 2000 COTTON VARIETY TRIALS

Brand-variety	Company
1500RR, AP 7126 4600RR	Garst/AgriPro Seed Co. Cordova, Tennessee
Deltapine DP 388, Paymaster PM 1560BG Deltapine DP 675, Paymaster PM 1218BG/RR Deltapine DP 565, Paymaster PM 1560BG/RR Deltapine DP 20B, Sure-Grow 105 Deltapine DP 428B, Sure-Grow 747 Deltapine NuCotn 33B, Sure-Grow 821 Deltapine DP 436RR, Sure-Grow 125BR Deltapine DP 425RR, Sure-Grow 501BR Deltapine DP 5415RR, Sure-Grow 521R Deltapine DP 422BRR Deltapine DP 451BRR Deltapine DP 458BRR Deltapine DP 655BRR	Delta and Pine Land Co. Scott, Mississippi
Fiber Max FM 832, Fiber Max FM 958 Fiber Max FM 819, Fiber Max FM 966 Fiber Max FM 989	Aventis Crop Sciences Collierville, Tennessee
PhytoGen PSC 355, PhytoGen PSC GA 161 PhytoGen PSC 894, PhytoGen HS 12 PhytoGen PSC 952	PhytoGen Seed Company Leland, Mississippi
SS 9501, Condor SS 9901, Gavilan SS 9907, Ligur	Seed Source, Inc. Stoneville, Mississippi
Stoneville 474, 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