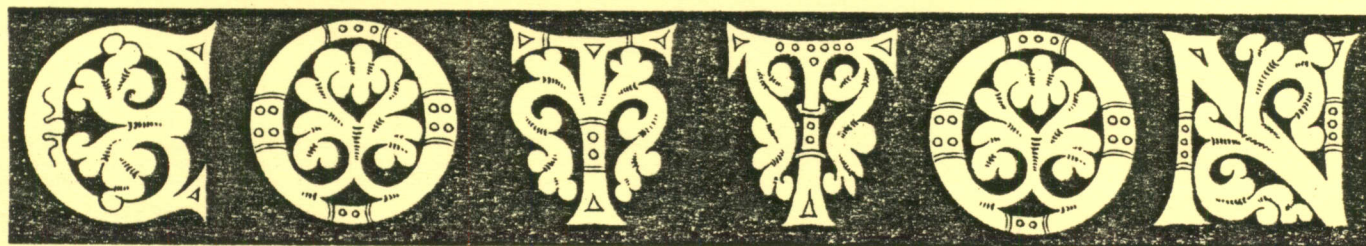


■ Department of Agronomy and Soils ■ Departmental Series No. 61 ■
■ Agricultural Experiment Station ■ Auburn University ■
■ Gale A. Buchanan, Director ■ Auburn University, Alabama ■

1980 ALABAMA



VARIETY
REPORT

February, 1981

1980 ALABAMA COTTON VARIETY REPORT^{1/}

A Report of the Performance of Cotton Varieties
Tested at Nine Locations in Alabama During 1980

Wiley C. Johnson^{2/}

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 Agricultural Experiment Station by Experiment Station personnel. Cultural practices are as generally recommended by Auburn University to farmers. Every effort is made to test the varieties and present the data in an unbiased manner.

Experimental Conditions

A randomized block experimental design with four replications was used at each location. Plot row length at different locations varied from 34.5 to 100 feet. Plots were two-row at Prattville, Headland, Belle Mina, and Crossville. Single row plots were used at the other locations. Cotton was planted during the optimum planting period at each location. Rainfall was adequate early in the season but deficient during July and August at most locations in 1980. The drouth was most severe at Winfield and at the E.V. Smith Research Center near Shorter (Macon County). July and August temperatures were considerably above normal throughout Alabama. Insect control was generally adequate.

^{1/}January 1981

^{2/}Professor, Department of Agronomy and Soils

Explanation of Data

Harvest of Seed Cotton: Tests at Prattville, Brewton, Monroeville, Tallassee, and Belle Mina were harvested by a mechanical spindle picker. Tests at Winfield, Headland, Shorter, and Crossville were harvested by hand. Average yield of seed cotton was determined for each variety at each location.

Lint Percentage: A sample of seed cotton from each variety at each location was taken at harvest and ginned on a 10-saw gin. Lint percentage was calculated by dividing weight of lint by weight of seed cotton.

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

Fiber Properties: Because of the time required for the detailed determinations of the fiber properties, data presented in the current report are from 1979 samples. Fiber qualities were determined by the USDA Cotton Quality Spinning Laboratory, Knoxville, Tennessee.

- (a) Span length: This is the fiber length measured on the digital fibrograph. The figure given is the distance spanned by 2.5% of the fibers, where the initial point of scanning is 100%. This length, in inches, approximates classer's staple.
- (b) Stelometer: T_1 is a measure of breaking strength of a standard fiber bundle with the holding jaws separated by 1/8 inch. This is a metric measurement similar to Pressley strength except the figures are in centinewtons per tex. A centinewton is a measure of force and a tex is a size measurement of the fibers. The larger the T_1 , the stronger the fibers. E_1 measures the percentage stretch before the fibers break.

(c) Micronaire: This measures the fineness and maturity of the cotton fibers. The smaller the micronaire reading, the finer and/or more immature the fibers. The desirable range of micronaire is 3.5 - 4.9.

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

Fusarium wilt: Reaction of varieties to Fusarium wilt was evaluated at the Plant Breeding Unit, Tallassee, by growing the varieties in fields with a high natural incidence of the fusarium wilt-root-knot nematode complex. Severity of the disease varies from year to year and also within the experimental area in the same year. Therefore, several years' data are necessary to realistically characterize a variety's wilt reaction. Stoneville 213, Hancock, Stoneville 825, and Vail 7 have consistently shown a high incidence of wilt. All other reported varieties that have been tested for at least 3 years have acceptable tolerance to fusarium wilt.

New and Experimental Varieties

GaCot 79 is a frego bract cotton released in 1979 by the Georgia Agricultural Experiment Station and was first tested statewide in Alabama in 1980. Stoneville 506 is a recent release by the Stoneville Pedigreed Seed Co. It also was first tested throughout Alabama in 1980. Seed will be available for 1981 in very limited quantities. Coker 3113 was first entered for testing in 1980 as an experimental line. It has recently been released by the Coker's Pedigreed Seed Co. and named Coker 3131. GP 3774 and GP 3755 are early varieties from Texas developed and released by the G and P Seed Co. Delcot 311 was developed by the

Missouri Agricultural Experiment Station and released in 1980. This is the first year it has been tested in Alabama.

Deltapine 7148 and Coker 3114 are experimental lines of Delta and Pine Land Co. and Coker's Pedigreed Seed Co., respectively. It is the policy of the Auburn University Agricultural Experiment Station to evaluate a limited number of such experimental lines as a service to plant breeders and also to test potential varieties prior to their release.

Paymaster 303 and Acala SJ-5 are varieties adapted to the western areas of cotton production and are included in certain Alabama variety tests as national standard varieties.

Statistical Analysis

Appropriate analyses of the yield data were made. For each location, the variability in the test was calculated and expressed as a percentage of the test mean, coefficient of variation (C.V.). An indication of the difference between variety averages necessary to be a real difference is given for each location, Least Significant Difference (L.S.D..05).

Locations of Experiments

Tennessee Valley Substation, Belle Mina - W.B. Webster, Superintendent
Sand Mountain Substation, Crossville - J.T. Eason, Superintendent
Upper Coastal Plain Substation, Winfield - R.A. Moore, Superintendent
Experiment Field, Prattville - F.T. Glaze, Superintendent
E.V. Smith Research Center, Shorter - R. Akridge, Superintendent
Plant Breeding Unit, Tallassee - L.L. Walker, Superintendent
Experiment Field, Brewton - J.A. Pitts, Superintendent
Experiment Field, Monroeville - J.A. Pitts, Superintendent
Wiregrass Substation, Headland - J.G. Starling, Superintendent

Table 1. Performance of Cotton Varieties at Crossville, Alabama, 1980

Variety	1980		2 yr. av.	3 yr. av.
	Lint/acre	Lint percent	Lint/acre	Lint/acre
	Lb.	Pct.	Lb.	Lb.
DES 56	640	42	728	865
McNair 235	629	43	829	937
Deltapine 55	619	44	753	819
GP 3774	608	40		
Stoneville 603	606	43	793	849
Stoneville 506	594	41		
Rex 713	590	38	718	814
Stoneville 825	570	42	694	824
Deltapine 41	569	44	714	766
McNair 220	565	42	462	617
Deltapine 7148	561	44		
Coker 310	560	41	765	870
Hancock	547	41	745	878
GP 3755	547	40		
Stoneville 213	543	43	681	790
Delcot 311	538	41		
Coker 3113	535	44		
Coker 304	532	42	789	894
Paymaster 303	529	40	681	770
Vail 7	521	42	549	694
Coker 420	518	40	745	843
Coker 3114	509	44	649	786
Coker 315	505	41	721	835
Deltapine 61	503	41	677	773
Acala SJ-5	405	40	389	571
GaCot 79	326	42	402	
L.S.D..05	73			
C.V. = 9.5%				

Table 2. Performance of Cotton Varieties at Belle Mina, Alabama, 1980

Variety	1980			2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint % Pct.	% Earliness Pct.	Lint/acre Lb.	Lint/acre Lb.
McNair 220	995	41	57	1,015	867
Stoneville 825	935	39	71	1,027	
McNair 235	929	42	54	1,040	927
Delcot 311	925	39	78		
Vail 7	902	39	73	909	822
Deltapine 41	899	42	72	998	877
Stoneville 213	892	37	69	961	867
Deltapine 61	884	39	69	971	830
Deltapine 7148	884	40	83		
Stoneville 506	882	37	76		
Coker 304	848	40	72	919	806
Stoneville 603	838	38	73	945	868
Coker 3114	832	42	72	888	798
DES 56	807	38	67	958	
Coker 310	794	38	78	912	772
Deltapine 55	786	41	77	889	815
Hancock	786	40	61	912	824
Coker 3113	770	41	59		
Coker 315	765	39	69	942	848
Coker 420	710	38	66	864	722
GP 3755	704	37	70		
Rex 713	696	36	71	851	773
GP 3774	670	36	72		

L.S.D. .05 88

C.V. = 7.5%

Table 3. Performance of Cotton Varieties at Winfield, Alabama, 1980

Variety	1980		2 yr. av. Lint/acre Lb.	3 yr. av. Lint/acre Lb.
	Lint/acre Lb.	Lint percent Pct.		
Stoneville 506	285	41		
Deltapine 55	242	43	301	288
McNair 235	234	43	304	282
Stoneville 213	221	42	278	295
Coker 3114	194	44	213	226
Coker 304	192	40	247	225
Coker 315	187	43	268	282
DES 56	184	41	277	289
GP 3774	182	40		
McNair 220	170	43	243	252
Stoneville 825	165	42	285	255
Deltapine 41	157	43	369	318
Coker 420	153	39	237	222
GP 3755	150	41		
Deltapine 61	142	41	247	234
Deltapine 7148	139	41		
Delcot 311	134	39		
Rex 713	133	40	252	305
Hancock	132	42	257	276
Stoneville 603	128	42	289	273
Coker 3113	120	44		
Coker 310	119	39	234	226
Vail 7	109	43	303	272

L.S.D. .05 97

C.V. = 40.6%

Table 4. Performance of Cotton Varieties at Prattville, Alabama, 1980

Variety	1980			2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint % Pct.	% Earliness Pct.	Lint/acre Lb.	Lint/acre Lb.
Stoneville 825	511	38	93	630	670
Stoneville 506	507	38	92		
Delcot 311	470	37	93		
McNair 235	458	39	76	631	683
Deltapine 26	450	41	91	577	648
Deltapine 55	434	39	89	581	647
GP 3774	428	35	86		
DES 56	420	37	90	591	628
Deltapine 61	413	38	88	549	632
Stoneville 603	404	36	90	495	571
McNair 220	398	38	91	559	590
GP 3755	397	36	88		
Coker 3114	392	41	88	530	567
Coker 310	386	37	89	520	598
Vail 7	386	38	91	503	582
Hancock	382	38	89	621	651
Coker 304	377	38	89	526	578
Deltapine 41	376	41	89	570	625
Coker 3113	373	40	85		
Stoneville 213	370	38	89	524	574
Coker 315	362	40	87	514	582
Rex 713	359	34	90	518	544
Coker 420	345	36	89	504	530
GaCot 79	218	38	68		
L.S.D. .05	74				
C.V. = 13.1%					

Table 5. Performance of Cotton Varieties at Tallassee, Alabama, 1980

Variety	1980			2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint % Pct.	% Earliness Pct.	Lint/acre Lb.	Lint/acre Lb.
Stoneville 825	741	42	83	634	534
Vail 7	705	41	75	601	623
McNair 235	675	42	73	664	578
Stoneville 213	673	41	78	648	551
Coker 304	639	40	79	635	636
Stoneville 603	629	42	74	523	557
Coker 310	612	40	67	610	629
McNair 220	602	40	73	581	627
Deltapine 61	600	40	64	599	583
Stoneville 506	597	41	82		
Deltapine 26	592	42	71	562	548
GaCot 79	580	41	58		
Deltapine 41	577	45	73	527	583
Coker 3113	576	43	60		
GP 3755	560	39	82		
Delcot 311	525	40	87		
Coker 3114	519	43	68	585	506
DES 56	516	39	65	591	607
Deltapine 55	512	43	78	523	539
Hancock	502	41	73	497	505
Coker 315	493	40	70	626	618
Rex 713	483	37	83	491	508
Coker 420	432	38	65	452	416
GP 3774	429	39	86		
L.S.D. .05	162				
C.V. = 20.1%					

Table 6. Performance of Cotton Varieties at Shorter, Alabama, 1980

Variety	1980		2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint percent Pct.	Lint/acre Lb.	Lint/acre Lb.
Stoneville 825	261	42	322	360
McNair 235	220	41	322	366
McNair 220	220	41	345	364
Coker 3113	218	44		
Deltapine 26	217	43	273	294
GP 3774	212	40		
Delcot 311	210	41		
DES 56	201	40	317	337
Deltapine 55	199	42	291	302
Deltapine 41	197	43	274	291
Stoneville 213	197	41	296	339
Deltapine 61	176	40	259	284
Hancock	175	40	269	322
Coker 304	169	41	262	316
GP 3755	169	39		
Vail 7	163	42	281	321
Coker 315	162	40	246	290
Coker 420	161	39	222	271
Coker 3114	161	42	223	277
Stoneville 603	159	40	290	337
Rex 713	157	37	254	320
Stoneville 506	152	40		
GaCot 79	151	39	294	
Coker 310	150	40	243	289
Paymaster 303	136	39	199	271
Acala SJ-5	90	40	166	213
L.S.D..05	61			
C.V. = 24.0%				

Table 7. Performance of Cotton Varieties at Monroeville, Alabama, 1980

Variety	1980		2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint percent Pct.	Lint/acre Lb.	Lint/acre Lb.
Stoneville 825	532	40	605	597
Stoneville 213	524	39	590	591
Deltapine 61	512	38	598	588
Coker 3113	510	39		
DES 56	509	37	564	570
Delcot 311	492	37		
Coker 3114	491	39	538	563
Deltapine 26	475	41	533	566
Hancock	474	38	578	574
Coker 304	470	37	553	562
Deltapine 55	460	39	529	529
Stoneville 506	460	36		
Deltapine 41	454	41	550	545
Coker 315	435	38	539	551
Vail 7	423	39	582	586
McNair 235	422	38	449	499
Coker 310	416	37	540	548
GP 3774	405	35		
Coker 420	403	36	571	540
McNair 220	398	38	574	569
Stoneville 602	395	37	536	583
GaCot 79	380	38		
GP 3755	379	35		
Rex 713	367	35	525	505
L.S.D. .05	54			
C.V. = 8.5%				

Table 8. Performance of Cotton Varieties at Brewton, Alabama, 1980

Variety	1980			2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint % Pct.	% Earliness Pct.	Lint/acre Lb.	Lint/acre Lb.
Coker 304	1,076	39	86	851	883
Delcot 311	1,036	39	94		
Coker 315	1,026	43	90	849	857
Coker 3114	1,015	44	87	874	896
Coker 420	1,004	39	91	817	822
McNair 235	994	41	92	795	857
Coker 3113	978	42	91		
Deltapine 26	964	41	90	815	892
DES 56	959	40	94	809	857
Stoneville 213	947	40	92	822	870
GP 3774	930	37	92		
Vail 7	924	40	94	822	880
Stoneville 825	922	41	94	827	850
Stoneville 506	917	39	97		
Deltapine 55	910	42	93	756	773
Coker 310	898	39	90	784	813
Deltapine 41	884	42	93	766	740
McNair 220	881	39	93	691	750
Deltapine 61	862	39	95	816	808
Stoneville 603	857	41	95	733	808
Hancock	840	39	92	751	827
GP 3755	832	39	91		
GaCot 79	767	41	83		
Rex 713	671	38	92	616	655
L.S.D. .05	149				
C.V. = 11.5%					

Table 9. Performance of Cotton Varieties at Headland, Alabama, 1980

Variety	1980			2 yr. av.	3 yr. av.
	Lint/acre Lb.	Lint % Pct.	% Earliness Pct.	Lint/acre Lb.	Lint/acre Lb.
Deltapine 55	1,528	42	41	963	785
Coker 3113	1,512	41	48		
Deltapine 41	1,492	41	43	1,058	884
Stoneville 213	1,464	39	48	1,016	803
Stoneville 825	1,428	40	47	992	803
Deltapine 26	1,427	40	39	951	726
DES 56	1,426	38	52	1,004	801
McNair 220	1,425	39	47	896	726
McNair 235	1,406	41	49	1,033	916
Coker 3114	1,393	41	44	888	704
Coker 304	1,385	40	55	959	772
Stoneville 506	1,382	38	44		
Coker 310	1,365	38	46	1,052	805
Deltapine 61	1,364	38	38	921	717
Coker 420	1,340	38	47	951	783
GP 3774	1,330	39	64		
Coker 315	1,288	39	49	875	804
Hancock	1,285	38	44	860	696
Delcot 311	1,283	38	48		
Stoneville 603	1,278	37	45	928	774
Vail 7	1,273	38	41	838	667
Rex 713	1,186	35	46	926	755
GP 3755	1,159	39	54		
GaCot 79	1,047	35	25		

L.S.D. .05 191

C.V. = 10.0%

Table 10. Performance of Cotton Varieties in Alabama, average all locations

Variety	No. locations	Yield lint/acre			Lint percent			Percent earliness		
		1980	1979-80	1978-80	1980	1979-80	1978-80	1980	1979-80	1978-80
		Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
McNair 235	9	663	675	672	41	41	40	69	71	75
Stoneville 213	9	648	646	631	40	39	39	75	73	73
Coker 304	9	632	638	630	40	39	39	76	75	74
Coker 315	9	580	631	630	40	40	40	73	73	75
Deltapine 41	9	623	647	625	42	42	42	74	73	72
Stoneville 603	9	588	615	624	39	39	39	75	74	76
Hancock	9	569	610	617	40	40	39	72	74	74
Coker 310	9	589	629	617	39	39	39	74	73	74
Deltapine 55	9	632	621	611	42	41	41	76	74	73
Deltapine 61	9	606	626	606	39	39	39	71	70	71
Vail 7	9	601	599	605	40	40	39	75	70	69
McNair 220	9	628	596	596	40	40	39	72	71	73
Coker 3114	9	612	599	591	42	42	42	72	71	73
Rex 713	9	516	572	576	37	36	36	76	75	75
Coker 420	9	563	596	572	38	39	38	72	72	73
DES 56	9	629	649	619	39	39	39	74	75	74
Stoneville 825	9	674	668	612	41	40	40	78	76	75
Deltapine 26	6	687	618	612	41	40	41	72	71	68
Paymaster 303	2	332	440	521	40	38	38			
Acala SJ-5	2	247	277	392	40	39	39			
GaCot 79	7	496	348		39	38		61		
GP 3774	9	577			38			80		
Stoneville 506	9	642			39					
GP 3755	9	544			38			78		
Delcot 311	9	624			39			77		
Coker 3113	9	621			42			80		
Deltapine 7148	4	528			42			69		

Table 11. Percentage of Plants Showing Symptoms of Fusarium Wilt^{1/}

Variety	Average wilt percentage								
	1980	2-yr. 1979-80	3-yr. 1978-80	4-yr. 1977-80	5-yr. 1976-80	8-yr. 1973-80	9-yr. 1972-80	12-yr. 1969-80	14-yr. 1967-80
Auburn 56	34.4	31.2	24.4	22.3	18.5	22.6	21.2	21.8	20.0
Stoneville 213	68.8	66.7	50.2	48.7	42.2	47.1	45.3	53.3	55.6
Coker 310	35.2	35.1	27.4	25.6	22.8	26.3	24.5	25.2	
Stoneville 603	29.8	25.1	20.5	21.8	18.4	19.2	19.4	23.3	
Coker 304	38.0	30.3	23.7	22.3	19.4	23.4	23.0		
Deltapine 55	26.4	22.2	16.4	19.4	17.2	22.0	21.5		
Hancock	81.8	67.9	58.7	57.7	52.4	55.3			
Deltapine 26	41.6	34.4	25.3	20.0	16.4				
Deltapine 61	29.8	28.4	20.7	19.3	19.2				
McNair 220	32.9	23.7	18.0	17.6	15.1				
Vail 7	54.4	49.8	41.7	40.8	38.6				
Coker 315	44.2	35.1	25.9	26.1					
Coker 420	36.8	26.7	20.1	21.1					
Coker 3114	39.6	27.8	22.9	23.8					
Rex 713	23.9	21.1	16.9	18.7					
McNair 235	24.6	20.8	16.1						
Deltapine 41	52.3	39.2	28.6						
DES 56	35.5	30.7							
Stoneville 825	82.8	67.0							
Coker 3113	36.0								
Delcot 311	25.2								
Deltapine 7148	34.4								
GaCot 79	31.8								
GP3755	35.1								
GP 3774	45.4								
Stoneville 506	33.8								

^{1/}Data were taken from a field severely infested with the fusarium wilt fungus and root-knot nematodes, Plant Breeding Unit, Tallassee, Alabama.

Table 12. Fiber properties of Cotton Varieties at Belle Mina, Alabama, 1979

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T1 cN/tex	E1 Pct.	
Brycot 4	1.06	17.61	8.35	4.40
Coker 304	1.13	18.46	7.30	4.30
Coker 310	1.17	18.43	7.80	4.47
Coker 315	1.17	18.95	7.34	4.35
Coker 420	1.11	18.23	8.43	4.40
Delcot 277	1.11	18.01	9.57	4.25
Deltapine 26	1.09	18.22	8.76	4.40
Deltapine 41	1.10	19.24	8.29	4.35
Deltapine 55	1.12	17.78	8.87	4.05
Deltapine 61	1.10	18.26	10.37	4.25
Deltapine 70	1.07	18.86	8.19	4.20
DES 24	1.10	18.48	8.79	4.60
DES 56	1.08	17.30	9.10	4.52
Dixie King III	1.07	17.66	8.08	4.15
Hancock	1.05	17.79	8.71	4.22
McNair 220	1.10	18.60	7.62	4.38
McNair 235	1.13	18.74	7.51	4.65
Rex 713	1.08	16.11	9.04	4.20
Stoneville 213	1.09	17.38	8.17	4.75
Stoneville 603	1.04	17.94	7.95	4.25
Stoneville 825	1.07	17.44	7.91	4.47
Vail 7	1.09	18.13	7.85	4.63

Table 13. Fiber Properties of Cotton Varieties at Winfield, Alabama, 1979

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T ₁ cN/tex	E ₁ Pct.	
Brycot 4	1.09	18.90	7.70	4.93
Coker 304	1.16	20.13	8.97	4.65
Coker 310	1.13	19.50	8.94	4.95
Coker 315	1.17	19.29	9.10	4.65
Coker 420	1.13	21.30	8.67	4.70
Coker 3114	1.17	20.98	8.91	4.55
Delcot 277	1.17	21.17	10.94	4.25
Deltapine 26	1.11	20.41	8.60	4.67
Deltapine 41	1.11	21.08	6.19	4.90
Deltapine 55	1.12	18.75	9.87	4.55
Deltapine 61	1.15	19.27	9.90	5.00
Deltapine 70	1.12	20.44	9.73	4.60
DES 24	1.15	20.15	10.39	4.60
DES 56	1.08	18.72	9.80	4.75
Dixie King III	1.06	18.81	9.10	4.95
Hancock	1.02	18.38	9.26	4.75
McNair 220	1.08	20.86	8.08	4.85
McNair 235	1.12	18.96	9.04	4.85
Rex 713	1.06	18.34	9.74	4.50
Stoneville 213	1.10	18.90	9.67	5.05
Stoneville 603	1.09	19.31	8.60	4.95
Stoneville 825	1.13	18.55	7.43	5.10
Vail 7	1.12	18.68	8.12	4.73

Table 14. Fiber Properties of Cotton Varieties at Brewton, Alabama, 1979

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T ₁ cN/tex	E ₁ Pct.	
Brycot 4	1.02	16.96	7.64	4.55
Coker 304	1.11	17.63	8.47	4.00
Coker 310	1.09	17.56	8.15	4.10
Coker 315	1.05	16.56	8.74	4.05
Coker 420	1.07	17.84	8.50	4.22
Coker 3114	1.11	20.49	7.65	3.85
Delcot 277	1.08	18.47	9.58	3.85
Deltapine 26	1.03	17.71	8.42	4.25
Deltapine 41	1.04	17.84	8.28	4.10
Deltapine 55	1.09	17.48	8.77	3.65
Deltapine 61	1.10	18.34	9.79	4.20
Deltapine 70	1.05	17.90	9.50	3.70
DES 24	1.06	17.70	9.85	4.40
DES 56	1.07	18.77	8.95	4.40
Dixie King III	1.04	17.54	8.64	4.35
Hancock	0.99	16.97	7.60	4.55
McNair 220	1.05	18.24	7.44	4.25
McNair 235	1.02	16.95	8.88	4.35
Rex 713	0.99	15.38	8.18	4.15
Stoneville 213	1.04	18.37	7.60	4.55
Stoneville 603	1.04	16.95	8.47	4.10
Stoneville 825	1.05	17.29	8.40	4.75
Vail 7	1.01	16.70	7.37	4.40

Table 15. Fiber Properties of Cotton Varieties at Monroeville, Alabama, 1979

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T ₁ cN/tex	E ₁ Pct.	
Brycot 4	1.04	17.30	9.05	4.10
Coker 304	1.07	17.69	10.43	3.65
Coker 310	1.05	16.75	8.08	4.15
Coker 315	1.13	17.37	9.26	3.95
Coker 420	1.07	17.90	9.43	3.63
Coker 3114	1.05	19.39	9.72	4.00
Delcot 277	1.02	17.29	8.63	3.75
Deltapine 26	1.06	17.24	9.46	4.22
Deltapine 41	1.09	18.24	9.82	3.55
Deltapine 55	1.08	17.00	9.17	3.95
Deltapine 61	1.07	18.87	9.69	4.20
Deltapine 70	1.06	17.50	11.40	4.05
DES 24	1.09	17.84	10.30	3.80
DES 56	1.05	19.01	8.56	4.35
Dixie King III	1.17	18.38	8.43	3.85
Hancock	1.12	18.24	9.43	3.82
McNair 220	1.07	18.82	8.60	4.20
McNair 235	1.12	20.40	8.98	4.40
Rex 713	1.08	16.61	9.39	4.15
Stoneville 213	1.09	15.58	9.57	4.20
Stoneville 603	1.02	16.41	8.47	3.90
Stoneville 825	1.10	17.77	8.89	3.85
Vail 7	1.07	16.88	9.56	4.35

Table 16. Fiber Properties of Cotton Varieties at Prattville, Alabama, 1979

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T1 cN/tex	E1 Pct.	
Brycot 4	1.03	15.64	6.93	4.63
Coker 304	1.10	18.85	7.69	4.10
Coker 310	1.11	18.29	7.13	3.82
Coker 315	1.11	19.60	6.83	4.30
Coker 420	1.16	20.15	7.43	4.35
Coker 3114	1.09	21.24	7.22	4.20
Delcot 277	1.10	19.28	9.90	3.63
Deltapine 26	1.05	18.48	7.46	4.50
Deltapine 41	1.03	18.76	6.71	4.52
Deltapine 55	1.06	17.90	7.78	4.47
Deltapine 61	1.05	19.55	8.22	4.55
Deltapine 70	1.07	18.88	7.38	4.22
DES 24	1.10	19.22	8.04	4.65
DES 56	1.04	19.31	8.46	4.22
Dixie King III	1.03	18.33	7.46	4.35
Hancock	1.01	17.89	6.55	4.15
McNair 220	1.07	19.19	7.17	4.35
McNair 235	1.04	19.91	7.07	4.60
Rex 713	1.08	16.49	8.13	3.95
Stoneville 213	1.04	17.12	8.22	4.57
Stoneville 603	1.03	18.78	7.12	4.30
Stoneville 825	1.02	17.28	6.83	4.57
Vail 7	1.06	17.05	6.86	4.52

Table 17. Fiber Properties of Cotton Varieties at Tallassee, Alabama, 1979

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T1 cN/tex	E1 Pct.	
Brycot 4	1.09	20.14	7.50	4.65
Coker 304	1.10	20.20	7.33	4.33
Coker 310	1.12	21.64	8.33	4.52
Coker 315	1.15	20.00	8.75	4.45
Coker 420	1.15	22.01	8.36	4.75
Coker 3114	1.08	21.14	8.19	4.60
Delcot 277	1.17	20.78	10.44	4.40
Deltapine 26	1.06	21.54	8.57	5.15
Deltapine 41	1.05	20.27	7.66	4.80
Deltapine 55	1.10	19.68	8.26	4.45
Deltapine 61	1.12	10.01	10.06	4.85
Deltapine 70	1.06	19.86	8.62	5.15
DES 24	1.12	19.54	9.49	4.75
DES 56	1.07	20.26	8.70	5.00
Dixie King III	1.06	20.22	8.75	4.95
Hancock	1.02	19.54	8.01	4.57
McNair 220	1.08	21.35	7.40	4.80
McNair 235	1.11	19.67	7.23	4.40
Rex 713	1.09	17.63	10.09	4.60
Stoneville 213	1.07	17.71	9.26	5.00
Stoneville 603	1.04	19.74	7.84	4.25
Stoneville 825	1.11	20.13	6.66	5.05
Vail 7	1.11	19.09	7.44	4.55

Source of Seed for the 1980 Cotton Variety Tests

Deltapine 55 Deltapine 26 Deltapine 61 Deltapine 41 Deltapine 7148	Delta and Pine Land Co. Scott, MS 38772
Stoneville 213 Stoneville 603 Stoneville 825 Stoneville 506	Stoneville Pedigreed Seed Co. Stoneville, MS 38776
Coker 310 Coker 304 Coker 315 Coker 420 Coker 3114 Coker 3113	Coker's Pedigreed Seed Co. Hartsville, SC 29550
Delcot 311	Delta Center Portageville, MO 63873
McNair 235 McNair 220	Northrup King Co. Leland, MS 38756
Hancock	West Tennessee Experiment Station Jackson, TN 38301
Vail 7	Bryco Jonesboro, AR 72401
DES 56	Delta Branch Experiment Station Stoneville, MS 38776
Rex 713	Cotton Branch Experiment Station Marianna, AR 72360
GP 3755 GP 3774	G and P Seed Co., Inc. Aquilla, TX 76622
GaCot 79	College Experiment Station Univ. Georgia, Athens, GA 30602

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