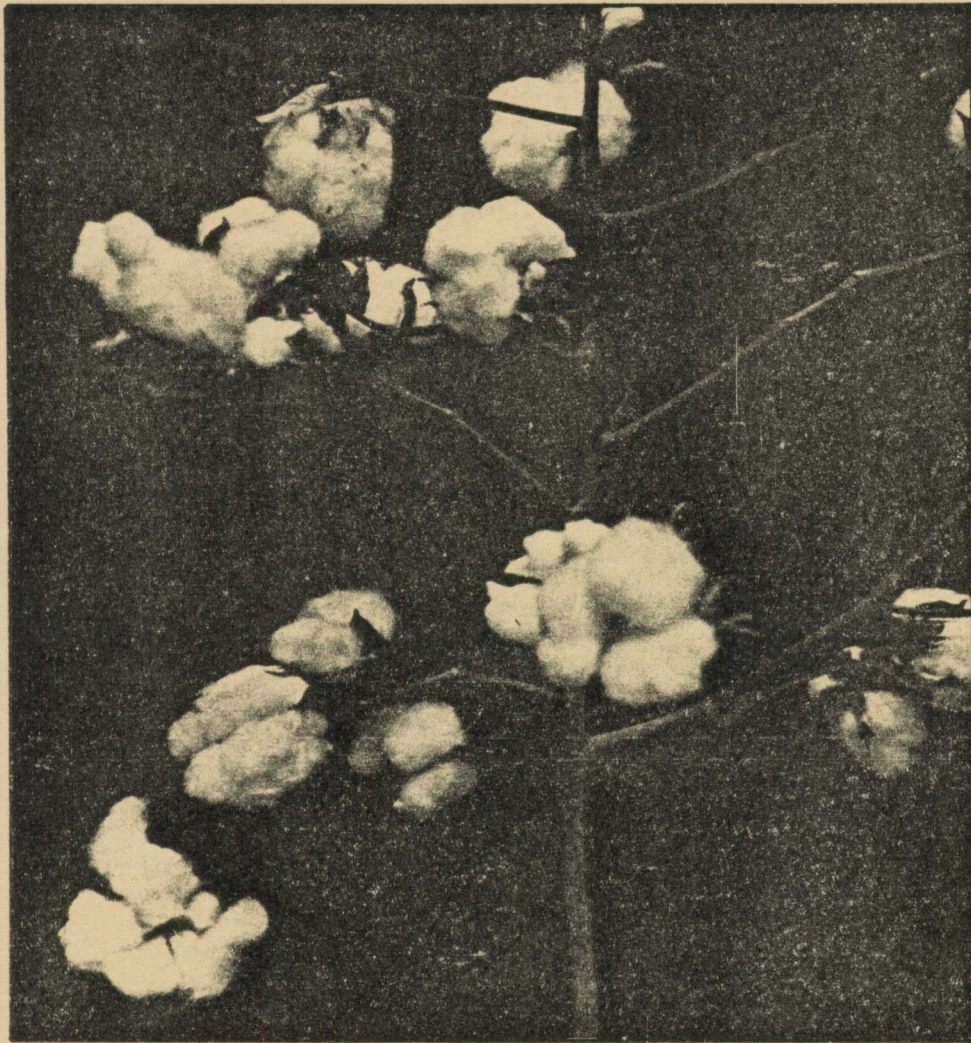


Department of Agronomy and Soils  
Departmental Series No. 55  
Agricultural Experiment Station Auburn University  
R. Dennis Rouse, Director Auburn, Alabama



# Alabama Cotton Variety Report 1979

March 1980



## 1979 ALABAMA COTTON VARIETY REPORT<sup>1/</sup>

A Report of the Performance of Cotton Varieties  
Tested at Nine Locations in Alabama During 1979

Wiley C. Johnson<sup>2/</sup>

The Alabama Cotton Variety Test is a continuing evaluation of available cotton varieties from private companies and state 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 design in four replications was used at each location. Plot row length at different locations varied from 40 to 120 feet. Plots were two-row at Prattville, Headland, Belle Mina, and Crossville. Single row plots were used at the other locations. All tests were planted within the optimum planting period. Most varieties had acceptable stands but several rows were not harvested for record or yields were adjusted to account for skips. Insect control was generally adequate.

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<sup>1/</sup> March 1980

<sup>2/</sup> Professor, Department of Agronomy and Soils

### Explanation of Data

Harvest of Seed Cotton: Tests at Prattville, Brewton, Monroeville, Shorter, Tallassee, and Belle Mina were harvested by a mechanical spindle picker. Tests at Winfield, Headland, and Crossville were harvested by hand. Average weight of seed cotton per acre 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 samples of the previous year. 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 731N, Vail 7, and Brycot 4 have consistently shown a high incidence of wilt. All other varieties that have been tested for at least 3 years have acceptable tolerance to fusarium wilt.

#### New and Experimental Varieties

Coker 3114 is an experimental variety and has not been released for planting in 1980. It is the policy of the Auburn University Agricultural Experiment Station to evaluate a limited number of such experimental varieties as a service to plant breeders and also to enable the testing of 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. Neither variety is adapted to Alabama conditions. Deltapine 70 and Deltapine 41 are recently

released varieties. Deltapine 41 was previously tested as Deltapine 7141 and will have some seed available for planting in 1980. Deltapine 70 is primarily intended for the irrigated areas of the western United States and will not be tested further in Alabama.

### 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, Least Significant Difference (L.S.D..05).

### Locations of Experiments

#### Northern Alabama

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

#### Central and Southern Alabama

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 in Northern Alabama, 1979

Variety	Yield of lint per acre				Av. lint percentage Pct.	Av. percent earliness Pct.
	Crossville Lb.	Belle Mina Lb.	Winfield Lb.	Av. Lb.		
Dixie King III	939	1055	644	879	40	70
McNair 235	1029	1151	373	851	40	66
Delcot 277	1006	1112	430	849	39	69
Deltapine 41	859	1097	582	846	43	66
Stoneville 603	980	1052	450	827	39	68
Coker 315	937	1120	348	802	40	68
DES 24	896	1098	388	794	40	67
Hancock	943	1039	382	788	40	70
Coker 310	970	1030	348	783	39	66
Stoneville 825	818	1119	405	781	39	70
Coker 304	1046	990	301	779	40	69
Coker 420	972	1018	320	770	40	66
DES 56	817	1109	371	765	39	70
Deltapine 61	851	1058	351	753	39	61
Deltapine 55	886	991	360	746	41	67
Rex 713	846	1007	371	741	36	68
Stoneville 213	819	1030	336	728	38	65
Deltapine 70	867	980	320	723	40	70
Vail 7	577	917	497	663	39	58
Coker 3114	788	944	232	655	42	64
Deltapine 26	725	886	276	629	41	63
Brycot 4	512	932	364	603	38	63
McNair 220	359	1034	316	570	39	58
Paymaster 303	834			834	37	
Acala SJ-5	372			372	38	
L.S.D. .05	150	116	216			
C.V.%	13%	8%	40%			

Table 2. Performance of Cotton Varieties in Northern Alabama,  
Two-year Average, 1978-79

Variety	Yield of lint per acre				Av. lint percentage Pct.	Av. percent earliness Pct.
	Crossville	Belle Mina	Winfield	Av.		
	Lb.	Lb.	Lb.	Lb.		
McNair 235	1091	926	306	774	39	73
Dixie King III	985	874	441	767	39	68
Hancock	1044	842	347	744	40	70
Coker 315	1000	889	330	740	40	72
Stoneville 603	971	882	346	733	39	72
Deltapine 41	865	866	399	710	41	62
Rex 713	926	811	392	710	37	67
Delcot 277	926	860	334	707	38	68
Coker 304	1075	785	241	700	40	69
Stoneville 213	914	854	332	700	38	64
Coker 310	1025	762	279	688	38	71
Deltapine 55	919	829	310	686	40	63
Deltapine 61	907	803	280	663	38	64
Coker 420	1006	727	257	663	39	69
Coker 3114	924	780	242	649	42	70
Vail 7	780	782	353	639	39	58
Brycot 4	745	786	335	622	38	59
Deltapine 26	840	728	292	620	41	54
McNair 220	642	802	293	579	39	64
DES 24	1010		320	665	40	
DES 56	977		341	659	39	
Stoneville 825	951		301	626	39	
Paymaster 303	891			891	38	
Acala SJ-5	654			654	39	



Table 3. Performance of Cotton Varieties in Northern Alabama,  
Three-Year Average, 1977-79

Variety	Yield of lint per acre			Av. Lb.	Av. lint percentage Pct.	Av. percent earliness Pct.
	Crossville Lb.	Belle Mina Lb.	Winfield Lb.			
Hancock	823	738	453	671	39	77
Stoneville 603	762	817	397	659	39	78
Dixie King III	766	763	431	653	38	74
Coker 315	813	764	381	653	40	75
Rex 713	757	775	404	645	38	73
Delcot 277	750	795	362	636	39	74
Stoneville 213	717	797	379	631	38	74
Coker 310	814	719	351	628	39	77
Coker 304	837	707	303	616	40	74
Deltapine 55	731	755	323	603	40	69
Deltapine 61	751	738	314	601	39	70
Coker 3114	737	723	334	598	41	76
Vail 7	637	722	409	590	39	67
Deltapine 26	659	730	351	580	41	66
McNair 220	583	706	370	553	38	72
DES 24	818		351	584	40	
Brycot 4		735	356	545	38	69

Table 4. Performance of Cotton Varieties in Central and Southern Alabama, 1979

Variety	Yield of lint per acre							Av. lint percentage Pct.	Av. percent earliness Pct.
	Brewton Lb.	Head- land Lb.	Monroe- ville Lb.	Pratt- ville Lb.	Tallasse Lb.	Shorter Lb.	Av. Lb.		
Coker 315	672	661	644	665	759	330	622	40	78
DES 56	662	583	619	762	665	434	621	38	80
Coker 310	669	740	664	655	609	336	612	39	77
Stoneville 825	733	556	677	749	528	383	604	39	78
McNair 235	597	661	476	815	653	423	604	40	81
Stoneville 213	696	569	656	679	624	395	603	38	77
Dixie King III	813	460	782	686	531	312	597	39	70
Deltapine 61	770	479	684	684	598	343	593	38	76
DES 24	691	626	677	541	596	397	588	38	79
Deltapine 41	649	625	645	763	477	352	585	42	78
Hancock	662	435	682	860	491	364	583	39	80
Coker 304	626	434	636	676	631	354	576	39	77
Delcot 277	686	527	669	711	470	388	575	38	80
Rex 713	560	666	682	677	499	352	573	36	80
Deltapine 70	596	537	736	650	567	298	564	40	79
Vail 7	721	403	740	619	498	398	563	39	72
McNair 220	501	368	750	720	560	469	561	39	82
Coker 420	629	563	739	663	472	283	558	39	76
Coker 3114	732	383	585	668	652	285	551	41	77
Deltapine 26	665	476	791	704	532	329	549	40	75
Stoneville 603	609	577	676	587	417	420	548	38	81
Brycot 4	680	375	707	654	467	401	547	39	74
Deltapine 55	602	399	598	728	533	383	541	40	77
Gacot 79						437	437	36	
Paymaster 303						262	262	35	
Acala SJ-5						243	243	36	
L.S.D..05	109	97	179	163	67	157			
C.V. %	22%	10%	24%	17%	7%	20%			

Table 5. Performance of Cotton Varieties in Central and Southern Alabama

Two-year Average, 1978-79

Variety	Yield of lint per acre							Av. lint percentage Pct.	Av. percent earliness Pct.
	Brewton Lb.	Head- land Lb.	Monroe- ville Lb.	Pratt- ville Lb.	Tallassee Lb.	Shorter Lb.	Av. Lb.		
McNair 235	789	671	538	795	529	439	627	39	83
DES 56	807	489	601	731	653	405	614	38	81
Coker 315	773	562	610	691	680	354	612	40	79
DES 24	860	539	644	600	592	408	607	39	80
Coker 310	771	525	614	704	638	359	602	39	78
Stoneville 603	776	522	677	655	522	426	596	39	82
Dixie King III	894	413	733	687	472	370	595	38	73
Coker 304	786	466	608	679	634	390	594	39	78
Vail 7	859	364	667	680	581	400	592	39	74
Hancock	820	401	624	785	506	396	589	39	81
Stoneville 825	814	491	629	749	431	410	587	39	80
Deltapine 41	668	581	590	750	585	338	585	41	80
Stoneville 213	832	472	624	676	490	410	584	38	79
McNair 220	685	377	654	686	640	436	580	39	83
Deltapine 61	781	394	626	741	583	338	577	38	77
Deltapine 26	855	375	611	747	525	332	574	41	77
Brycot 4	806	354	677	710	466	411	571	39	76
Deltapine 55	705	413	563	754	552	353	557	40	79
Rex 713	647	540	574	637	521	402	554	36	81
Coker 3114	836	359	599	655	500	335	547	41	78
Coker 420	730	505	608	623	407	326	533	38	77
Delcot 277	782		599	698	535	400	603	38	80
Paymaster 303						339	339	36	
Acala SJ-5						275	275	37	

Table 6. Performance of Cotton Varieties in Central and Southern Alabama

Three-year Average, 1977-79

Variety	Yield of lint per acre				Av. lint percentage	Av. percent earliness
	Brewton	Monroe-ville	Pratt-ville	Av.*		
	Lb.	Lb.	Lb.	Lb.	Pct.	Pct.
Hancock	851	690	743	761	40	81
Dixie King III	774	747	708	743	40	72
Deltapine 26	750	695	759	734	41	76
Deltapine 61	705	703	753	720	38	76
Vail 7	782	695	681	719	39	74
Brycot 4	704	688	716	703	39	75
DES 24	756	636	655	699	39	79
Stoneville 603	731	694	670	698	39	82
Delcot 277	753	638	690	693	38	81
Stoneville 213	718	670	675	688	38	78
McNair 220	629	706	709	681	39	82
Coker 315	662	681	697	680	40	79
Coker 310	709	643	679	677	38	79
Coker 304	666	658	672	666	41	77
Deltapine 55	659	591	740	663	39	79
Coker 3114	683	613	658	651	41	77
Rex 713	635	560	615	603	35	81

\*Tests in Shorter, Headland, and Tallassee were not harvested in 1977, therefore at these locations comparable 3-year averages are not available.

Table 7. Percentage of Plants Showing Symptoms of Fusarium Wilt<sup>1/</sup>

Variety	Average wilt percentage								
	1979	<u>2-yr</u> 1978-79	<u>3-yr</u> 1977-79	<u>4-yr</u> 1976-79	<u>7-yr</u> 1973-79	<u>8-yr</u> 1972-79	<u>10-yr</u> 1970-79	<u>11-yr</u> 1969-79	<u>13-yr</u> 1967-79
Auburn 56	27.9	19.4	18.2	14.5	20.9	19.5	22.0	20.6	18.9
Stoneville 213	64.5	40.9	42.0	35.6	44.0	42.4	48.7	51.9	54.6
Coker 310	34.9	23.5	22.4	19.7	25.0	23.2	25.5	24.3	
Stoneville 603	20.4	15.8	19.1	15.5	17.7	18.1	23.3	22.7	
Delcot 277	45.2	23.9	21.2	19.2	19.7	18.6	25.5		
Coker 304	22.5	16.5	17.0	14.8	21.3	21.1			
Deltapine 55	18.0	11.4	17.1	14.9	21.4	20.9			
Dixie King III	23.3	16.1	18.2	15.4	20.3				
Hancock	54.0	47.2	49.7	45.0	51.5				
Brycot 4	59.8	49.4	44.1	40.8					
Deltapine 26	27.1	17.2	12.8	10.1					
Deltapine 61	26.9	16.2	15.8	16.6					
McNair 220	14.4	10.5	12.5	10.7					
Vail 7	45.1	35.4	36.2	34.6					
Coker 315	25.9	16.8	20.0						
Coker 420	16.6	11.8	15.9						
Coker 3114	15.9	14.6	18.5						
Rex 713	18.2	13.4	16.9						
McNair 235	16.9	11.8							
Deltapine 41	26.0	16.8							
DES 24	30.0								
DES 56	25.9								
Deltapine 70	33.3								
Stoneville 825	51.2								

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

Table 8. Fiber Properties of Cotton Varieties at Belle Mina, Alabama, 1978

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Auburn 56	1.07	18.32	8.93	4.35
Brycot 4	1.12	19.42	7.10	3.97
Coker 304	1.17	21.39	7.13	3.67
Coker 310	1.16	20.52	7.17	3.77
Coker 315	1.18	20.76	7.35	3.82
Coker 420	1.18	22.60	7.93	3.97
Coker 3114	1.15	21.76	8.68	3.60
Coker 4601	1.08	21.26	7.10	3.60
Coker 6118	1.09	18.38	7.85	4.35
Delcot 277	1.18	22.10	9.12	3.32
Deltapine 26	1.10	20.57	8.03	4.00
Deltapine 55	1.14	20.36	8.03	3.50
Deltapine 61	1.14	20.01	9.95	4.12
Deltapine 41	1.14	22.06	8.21	3.90
Deltapine 7031	1.13	19.98	8.12	3.90
Dixie King III	1.10	19.60	8.24	3.75
Hancock	1.09	17.91	7.11	3.90
McNair 220	1.13	20.52	7.61	3.82
McNair 235	1.12	20.08	7.68	3.87
Rex 713	1.11	27.46	8.09	3.85
Stoneville 213	1.12	19.75	8.71	4.00
Stoneville 603	1.09	19.41	7.55	3.82
Vail 7	1.07	18.86	7.36	4.12

Table 9. Fiber Properties of Cotton Varieties at Winfield, Alabama, 1978

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Auburn 56	1.06	19.24	6.04	4.35
Brycot 4	1.07	17.86	6.76	4.17
Coker 304	1.12	20.44	5.85	4.25
Coker 310	1.11	20.81	5.99	4.27
Coker 315	1.13	20.64	6.42	4.37
Coker 420	1.07	19.97	7.00	4.60
Coker 3114	1.03	20.06	8.00	4.45
Coker 4601	1.11	19.98	7.14	4.12
Coker 6118	1.04	18.28	6.90	4.67
Delcot 277	1.14	20.84	9.68	3.80
Deltapine 26	0.95	17.80	8.34	4.42
Deltapine 55	1.01	18.08	7.67	4.30
Deltapine 61	1.02	17.92	8.63	4.02
Deltapine 41	1.03	18.00	6.95	4.37
DES 24	1.04	19.04	8.05	4.50
DES 56	0.97	19.61	8.63	4.65
Dixie King III	1.06	19.41	8.48	3.90
Hancock	1.00	18.41	7.52	4.00
McNair 220	1.07	21.70	6.18	4.27
McNair 235	1.02	19.46	7.48	4.52
Rex 713	1.01	16.26	8.34	4.15
Stoneville 213	1.04	19.41	8.58	4.32
Stoneville 603	1.06	18.66	6.71	4.22
Stoneville 825	1.09	18.52	8.67	4.57
Vail 7	1.07	17.79	6.85	3.82

Table 10. Fiber Properties of Cotton Varieties at Tallassee, Alabama, 1978

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Auburn 56	1.01	18.04	8.34	3.92
Brycot 4	1.08	17.64	7.36	4.07
Coker 304	1.13	19.85	7.78	4.20
Coker 310	1.06	15.98	8.57	3.75
Coker 315	1.04	17.61	9.17	4.17
Coker 420	1.12	18.60	7.64	4.30
Coker 3114	1.05	16.40	6.47	4.25
Coker 4601	1.14	18.92	9.69	4.12
Coker 6118	1.04	17.85	7.03	3.80
Delcot 277	1.10	19.51	8.10	4.20
Deltapine 26	1.06	20.24	7.22	4.22
Deltapine 55	1.04	18.40	7.36	4.10
Deltapine 61	1.11	20.79	7.26	4.37
Deltapine 41	1.14	19.74	7.96	3.70
DES 24	1.06	18.99	7.78	4.27
DES 56	1.07	20.24	8.99	4.07
Dixie King III	1.07	20.02	7.45	4.25
Hancock	1.14	21.30	9.97	3.80
McNair 220	1.08	18.95	9.36	3.92
McNair 235	1.17	21.16	9.22	4.15
Rex 713	1.13	21.34	7.64	3.77
Stoneville 213	1.12	18.06	9.83	4.10
Stoneville 603	1.05	17.60	8.20	4.22
Stoneville 825	1.11	20.11	7.22	4.27
Vail 7	1.19	21.45	7.73	4.25



Table 11. Fiber Properties of Cotton Varieties at Prattville, Alabama, 1978

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Auburn 56	1.03	18.07	7.78	4.17
Brycot 4	1.06	17.63	6.06	4.55
Coker 304	1.11	19.65	6.46	4.30
Coker 310	1.13	21.13	7.36	4.40
Coker 315	1.18	20.22	7.89	4.35
Coker 420	1.07	15.63	9.24	4.05
Coker 4114	1.12	20.64	7.92	4.27
Coker 4601	1.14	20.92	6.90	3.72
Coker 6118	1.08	18.61	7.24	4.10
Delcot 277	1.16	21.38	10.59	3.47
Deltapine 26	1.06	19.08	8.00	4.50
Deltapine 55	1.10	19.27	7.14	4.07
Deltapine 61	1.12	19.05	9.91	4.37
Deltapine 41	1.12	18.95	8.67	4.15
DES 24	1.10	20.87	7.61	4.10
DES 56	1.09	20.25	8.43	4.45
Dixie King III	1.10	19.97	8.46	4.45
Hancock	1.05	19.08	7.88	3.85
McNair 220	1.09	21.55	6.54	3.62
McNair 235	1.12	20.34	6.16	4.35
Rex 713	1.08	17.21	8.12	3.70
Stoneville 213	1.07	19.79	8.07	4.05
Stoneville 603	1.06	17.67	6.57	3.87
Stoneville 825	1.09	18.32	6.29	4.35
Vail 7	1.09	17.98	6.54	4.35

Table 12. Fiber Properties of Cotton Varieties at Headland, Alabama, 1978

Variety	Span length 2.5% In.	Stelometer		Micronaire Units
		T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Brycot 4	1.06	16.84	6.43	4.10
Coker 304	1.05	17.97	7.11	4.10
Coker 310	1.05	18.54	6.77	4.12
Coker 315	1.07	18.33	7.28	4.20
Coker 420	1.07	19.75	6.60	4.15
Coker 3114	1.06	18.90	6.77	4.45
Coker 4601	1.11	19.28	8.03	3.55
Coker 6118	0.98	17.73	7.31	4.27
Delcot 277	1.12	19.76	9.74	4.05
Deltapine 26	0.99	17.05	7.46	3.82
Deltapine 55	1.04	17.32	8.17	4.25
Deltapine 61	1.04	18.62	8.98	4.75
Deltapine 41	1.05	18.23	7.19	4.45
DES 24	1.05	17.54	9.02	4.27
DES 56	1.06	17.53	7.69	4.73
Dixie King III	1.04	17.87	7.76	4.47
Hancock	0.94	16.09	6.77	4.12
McNair 220	0.99	17.88	6.77	3.95
McNair 235	0.96	17.11	6.73	3.85
Rex 713	1.03	15.49	8.17	4.28
Stoneville 213	1.03	17.31	8.52	4.63
Stoneville 603	1.03	18.33	6.87	4.57
Stoneville 825	1.07	17.61	5.93	4.60
Vail 7	1.03	16.53	7.19	4.22

Table 13. Fiber Properties of Cotton Varieties at Monroeville, Alabama, 1978

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T1 cN/tex	E1 Pct.	
Auburn 56	1.01	18.02	7.52	3.97
Brycot 4	1.05	15.58	7.61	4.07
Coker 304	1.11	19.12	6.70	3.97
Coker 310	1.08	18.95	7.61	3.82
Coker 315	1.10	17.79	8.22	3.95
Coker 420	1.09	20.83	8.23	3.97
Coker 3114	1.05	19.79	8.00	4.28
Coker 4601	1.10	19.01	8.79	3.45
Coker 6118	1.07	17.89	8.79	3.80
Delcot 277	1.10	19.57	7.84	3.67
Deltapine 26	1.03	18.99	7.32	4.57
Deltapine 55	1.05	17.79	7.55	4.22
Deltapine 61	1.06	18.79	10.81	4.25
Deltapine 41	1.05	17.39	9.02	3.97
DES 24	1.07	19.50	8.23	4.22
DES 56	1.05	17.21	8.68	3.80
Dixie King III	1.01	18.09	7.08	3.95
Hancock	0.97	15.84	9.40	3.92
McNair 220	1.04	18.49	7.35	3.80
McNair 235	1.04	16.27	9.09	3.85
Rex 713	1.02	14.98	7.76	3.65
Stoneville 213	0.91	18.06	7.83	4.47
Stoneville 603	1.05	16.76	8.29	4.20
Stoneville 825	1.03	16.48	6.57	4.12
Vail 7	1.04	15.51	8.33	4.50

Table 14. Fiber Properties of Cotton Varieties at Brewton, Alabama, 1978

Variety	Span length	Stelometer		Micronaire Units
	2.5% In.	T <sub>1</sub> cN/tex	E <sub>1</sub> Pct.	
Auburn 56	1.04	16.73	9.11	4.15
Brycot 4	1.04	17.31	8.58	4.17
Coker 304	1.10	18.26	7.57	3.97
Coker 310	1.09	20.15	7.24	3.60
Coker 315	1.13	19.63	8.63	4.05
Coker 420	1.14	20.22	8.44	4.07
Coker 3114	1.14	20.16	9.01	3.95
Coker 4601	1.12	18.83	8.53	3.80
Coker 6118	1.05	17.79	7.96	4.10
Delcot 277	1.13	20.84	10.98	3.72
Deltapine 26	1.07	18.55	9.30	4.27
Deltapine 55	1.06	18.21	9.59	3.67
Deltapine 61	1.07	17.95	10.30	3.92
Deltapine 41	1.07	18.01	9.11	3.75
DES 24	1.08	18.77	10.06	3.97
DES 56	1.07	17.45	9.82	3.95
Dixie King III	1.04	17.91	9.15	3.85
Hancock	1.02	16.95	8.44	4.47
McNair 220	1.06	17.98	7.57	4.08
McNair 235	1.05	18.97	8.15	4.17
Rex 713	0.98	16.83	9.54	4.02
Stoneville 213	1.05	17.63	10.11	4.32
Stoneville 603	0.98	16.61	9.20	4.00
Stoneville 825	1.03	15.80	7.57	3.92
Vail 7	1.07	16.43	7.81	4.20

## Source of Seed for the 1979 Cotton Variety Tests

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Deltapine 55 Deltapine 26 Deltapine 61 Deltapine 41 Deltapine 70	Delta and Pine Land Co. Scott, MS 38772
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Stoneville 213 Stoneville 603 Stoneville 825 Dixie King III	Stoneville Pedigreed Seed Co. Stoneville, MS 38776
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Coker 310 Coker 304 Coker 315 Coker 420 Coker 3114.	Coker's Pedigreed Seed Co. Hartsville, SC 29550
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Delcot 277	Delta Center Portageville, MO 63873
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McNair 235 McNair 220	Northrup King Co. Laurinburg, NC 28325
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Hancock	West Tennessee Experiment Station Jackson, TN 38301
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Brycot 4 Vail 7	Bryco Jonesboro, AR 72401
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DES 24 DES 56	Delta Branch Experiment Station Stoneville, MS 38776
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Rex 713	Cotton Branch Experiment Station Marianna, AR 72360
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Information contained herein is available to all  
regardless of race, color, or national origin