



1984 Alabama Cotton Variety Report



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

1984 Alabama Cotton Variety Report

A Report of the Performance of Cotton Varieties Tested in Alabama

W. C. Johnson and Darrell Williams¹

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 Auburn University to farmers. Every effort is made to test the varieties and present the results 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 40 to 120 feet. Plots were two-row at Prattville, Headland, Belle Mina, and Crossville. Single-row plots were used at the other locations. Climatic conditions were near ideal for cotton production as indicated by an average yield of 1,130 pounds lint per acre for all 1984 variety tests in Alabama.

EXPLANATION OF DATA

Harvest of Seed Cotton

Tests at Prattville, Brewton, Monroeville, Tallassee, Belle Mina, and Shorter were harvested by a mechanical spindle picker. Tests at Headland

¹Respectively, Professor and Research Associate of Agronomy and Soils.

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. Lint percentage may be higher than that obtained at commercial gins because the 10-saw gin has no cleaning equipment.

Yield of Lint

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

Fiber Properties

Fiber qualities of all varieties from selected locations were determined by Starlab, a commercial fiber testing laboratory in Knoxville, Tennessee.

Span Length. This is the fiber length measured with the digital fibrograph. The 2.5 percent length is the average length of the longest 2.5 percent of the fibers and the 50 percent length is the average length of the longest 50 percent of the fibers. Their ratio is an expression of the fiber length uniformity. The 2.5 percent length is about the same as the classer's staple.

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 measurement similar to Pressley strength except the figures are in grams per tex. Tex is a size measurement of the fiber bundle. The larger the T_1 , the stronger the fibers. E_1 measures the percentage stretch before the fibers break.

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 to 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 oxysporum f. vasinfectum (fusarium wilt) was evaluated at the Plant Breeding Unit, Tallahassee. The varieties were grown in a field with a high natural incidence of the fusarium wilt disease. 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 and Stoneville 825 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

PD 4548 is an experimental line from the Pee Dee Experiment Station, Florence, South Carolina, that has just been released as a variety and named PD-1. Breeder seed are available from the Pee Dee Experiment Station. Deltapine 50 is a new variety, released in 1985, which we have tested several years. Deltapine 69, previously designated Deltapine 733, has been released but seed are not yet generally available. Deltapine 102 is an advanced experimental strain. Coker 81-102 is a high quality advanced strain which has not been released and for which seed are not yet available. GAT 72-56 is an experimental strain from Tifton, Georgia, and

Acala SJ C-1 and Paymaster 145 are varieties adapted to the Western United States. These are included in certain Alabama tests as part of a national variety testing program.

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

LOCATIONS OF EXPERIMENTS

Tennessee Valley Substation, Belle Mina - W. R. Webster, Superintendent
Sand Mountain Substation, Crossville - J. T. Eason, Superintendent
Prattville Experiment Field - D. P. Moore, Superintendent
E. V. Smith Research Center, Shorter - W.B. Gordon, Superintendent
Plant Breeding Unit, Tallassee - S.P. Nightengale, Superintendent
Brewton Experiment Field - J. R. Akridge, Superintendent
Monroeville Experiment Field - J. R. Akridge, Superintendent
Wiregrass Substation, Headland - H.W. Ivey, Superintendent

TABLE 1. PERFORMANCE OF COTTON VARIETIES AT BELLE MINA, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LINTZACRE	LINT	EARLINESS	LINTZACRE	LINTZACRE
	LB.	PCI.	PCI.	LB.	LB.
DELTAPINE 50	1233	40	82	822	969
DELCOT 311	1159	40	77	738	918
DELTAPINE 102	1140	42	82	765	-
STONEVILLE 506	1122	40	79	730	887
DELTAPINE 90	1122	43	67	738	903
PD 4548	1119	41	75	727	858
COKER 304	1118	42	77	727	875
COKER 208	1094	42	68	716	890
DELTAPINE 69	1090	39	69	740	-
DELTAPINE NSL	1083	41	77	732	-
GAT 72-56	1080	41	81	-	-
STONEVILLE 213	1074	41	71	747	876
DES 422	1060	42	76	737	-
COKER 3131	1058	44	79	694	877
COKER 315	1051	45	74	687	875
DELTAPINE 61	1040	41	74	675	795
COKER 81-102	1039	43	76	-	-
MCNAIR 235	1024	40	73	707	873
MCNAIR 220	1024	41	78	698	849
STONEVILLE 825	1015	41	78	720	885
STONEVILLE 112	1012	40	73	-	-
COKER 310	1011	41	77	679	843
PAYMASTER 145	915	39	82	-	-
DELTAPINE 41	823	43	71	574	761
ACALA SJC-1	802	41	69	-	-
TEST MEAN	1052				
L.S.D. (.05)	232				
C.V.	163				

TABLE 2. PERFORMANCE OF COTTON VARIETIES AT CROSSVILLE, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LIN/ACRE	LIN	EARLINESS	LIN/ACRE	LIN/ACRE
	LB _a	PCI _a	PCI _a	LB _a	LB _a
DES 422	1151	40	63	808	-
DELTAPINE NSL	1136	40	50	795	-
COKER 315	1127	42	57	745	787
COKER 3131	1126	42	52	850	802
MCNAIR 220	1086	38	68	810	841
STONEVILLE 825	1085	39	61	753	760
COKER 304	1059	39	58	717	723
DELTAPINE 61	1054	39	62	698	731
DELTAPINE 50	1052	38	67	764	828
STONEVILLE 506	1033	38	60	759	778
MCNAIR 235	1031	40	53	765	844
DELTAPINE 69	990	40	61	674	-
DELTAPINE 102	975	39	58	721	-
DELTAPINE 41	963	40	59	650	764
DELTAPINE 90	949	40	46	682	782
COKER 310	947	40	55	682	785
STONEVILLE 213	901	38	45	654	723
COKER 81-102	901	40	54	-	-
STONEVILLE 112	895	38	46	-	-
COKER 208	885	39	56	647	738
DELCOT 311	785	39	54	650	778
TEST MEAN	1006				
L. S. D. (.05)	205				
C. V.	14%				

TABLE 3. PERFORMANCE OF COTTON VARIETIES AT PRATTVILLE, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LINIZACRE	LINI	EARLINESS	LINIZACRE	LINIZACRE
	LB.	PCI.	PCI.	LB.	LB.
DELTAPINE 90	1564	41	85	1307	1255
COKER 315	1512	42	90	1177	1171
COKER 81-102	1512	41	90	-	-
COKER 208	1494	40	93	1211	1182
STONEVILLE 213	1457	40	91	1175	1201
COKER 304	1452	39	91	1100	1089
STONEVILLE 112	1433	39	94	-	-
DES 422	1430	38	90	1237	-
STONEVILLE 825	1428	39	90	1186	1135
DELTAPINE 69	1425	37	88	1172	-
DELTAPINE 50	1421	38	90	1190	1169
COKER 3131	1414	41	90	1132	1143
DELTAPINE 102	1378	38	92	1174	-
DELTAPINE 41	1374	43	88	1200	1211
DELTAPINE 61	1373	38	86	1139	1119
STONEVILLE 506	1369	37	93	1152	1107
COKER 310	1354	40	91	1127	1129
DELTAPINE NSL	1351	40	91	1106	-
MCNAIR 220	1338	40	93	1136	1121
DELCOT 311	1241	39	89	1075	1058
MCNAIR 235	1127	33	91	1034	1077
TEST MEAN	1402				
L.S.D. (.05)	147				
C.V.	7%				

TABLE 4. PERFORMANCE OF COTTON VARIETIES AT TALLASSEE, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LINT/ACRE	LINT	EARLINESS	LINT/ACRE	LINT/ACRE
	LB.	PCT.	PCT.	LB.	LB.
STONEVILLE 213	1223	41	-	1176	1165
COKER 3131	1172	40	-	1108	1102
COKER 81-102	1169	41	-	-	-
STONEVILLE 825	1145	42	-	1140	1110
DELTAPINE 102	1143	42	-	1142	-
STONEVILLE 506	1127	41	-	1113	1032
DELTAPINE 69	1092	41	-	1215	-
COKER 310	1090	42	-	1143	1185
DELTAPINE 50	1088	41	-	1144	1091
DELTAPINE 61	1068	39	-	1149	1121
COKER 208	1067	37	-	1165	1245
MCNAIR 220	1061	42	-	1132	1131
DELTAPINE 41	1060	41	-	1196	1177
STONEVILLE 112	1050	38	-	-	-
DELTAPINE 90	1028	38	-	1111	1088
DELCOT 311	1002	41	-	1031	1004
DES 422	932	39	-	1017	-
MCNAIR 235	929	39	-	1110	1122
COKER 304	907	40	-	1047	1023
COKER 315	846	39	-	1049	1024
DELTAPINE NSL	716	40	-	979	-
TEST MEAN	1044				
L.S.D. (.05)	299				
C.V.	20%				

TABLE 5. PERFORMANCE OF COTTON VARIETIES AT SHORTER, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LINI/ACRE	EARLINESS	EARLINESS	LIN/ACRE	LIN/ACRE
	LB.	PCI.	PCI.	LB.	LB.
GAT 72-56	1205	40	-	-	-
COKER 315	1111	42	-	777	682
COKER 208	1091	40	-	751	665
DES 422	1085	43	-	877	-
STONEVILLE 112	1078	39	-	-	-
COKER 304	1074	40	-	772	658
DELTAPINE 90	1044	40	-	833	726
COKER 310	1043	40	-	769	670
COKER 81-102	1026	42	-	-	-
MCNAIR 220	1020	40	-	770	678
DELCOT 311	993	39	-	756	655
COKER 3131	991	42	-	778	658
PD 454B	991	41	-	729	619
DELTAPINE 69	971	40	-	721	-
DELTAPINE 50	957	38	-	779	670
PAYMASTER 145	955	39	-	-	-
MCNAIR 235	933	40	-	737	657
STONEVILLE 506	932	40	-	715	607
STONEVILLE 213	930	42	-	757	643
DELTAPINE 102	906	40	-	677	-
DELTAPINE 61	901	39	-	751	640
DELTAPINE 41	898	44	-	654	572
STONEVILLE 825	895	42	-	728	623
ACALA SJC-1	890	41	-	-	-
DELTAPINE NSL	860	41	-	688	592
TEST MEAN	991				
L. S. D. (.05)	203				
C. V.	15%				

TABLE 6. PERFORMANCE OF COTTON VARIETIES AT MONROEVILLE, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LN/ACRE	LN/	EARLINESS	LN/ACRE	LN/ACRE
	LB.	PCT.	PCT.	LB.	LB.
DELTAPINE 69	1480	42	80	1096	-
DELTAPINE 90	1462	44	75	1215	1121
COKER 81-102	1446	44	79	-	-
STONEVILLE 213	1382	42	79	1088	1009
COKER 208	1268	42	84	1043	975
COKER 310	1262	43	83	1028	985
MCNAIR 235	1253	43	90	1064	1028
MCNAIR 220	1249	42	90	970	955
DELTAPINE 61	1229	43	80	965	951
COKER 304	1226	41	85	979	943
DELTAPINE 41	1184	44	85	1021	990
DES 422	1178	43	85	988	-
DELTAPINE 50	1131	39	83	969	970
STONEVILLE 825	1127	43	86	945	984
STONEVILLE 506	1125	41	83	931	907
COKER 315	1081	42	82	916	874
DELCOT 311	1047	42	85	866	881
STONEVILLE 112	1039	42	83	-	-
DELTAPINE 102	1014	41	80	968	-
DELTAPINE NSL	959	41	84	880	-
COKER 3131	900	38	85	840	842
TEST MEAN	1192				
L.S.D. (.05)	278				
C.V.	16%				

TABLE 7. PERFORMANCE OF COTTON VARIETIES AT BREWTON, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LN/ACRE	LN/	EARLINESS	LN/ACRE	LN/ACRE
	LB ₂	PCI ₂	PCI ₂	LB ₂	LB ₂
COKER 208	1248	43	87	1050	1003
DELTAPINE 90	1240	43	85	1115	1036
COKER 315	1163	44	89	1075	998
DELTAPINE 50	1141	39	82	1048	962
COKER 304	1127	42	90	977	941
COKER 81-102	1100	44	88	-	-
STONEVILLE 213	1054	40	87	988	943
DELTAPINE 61	1046	39	83	882	956
COKER 310	1027	42	89	1010	927
COKER 3131	1021	43	92	835	813
STONEVILLE 825	1020	42	89	992	939
DELCOT 311	1017	40	89	930	874
DELTAPINE 69	1004	41	89	971	-
MCNAIR 220	983	42	93	982	942
DELTAPINE 41	972	44	88	874	857
DELTAPINE NSL	969	42	88	927	-
STONEVILLE 506	918	41	91	889	945
MCNAIR 235	889	44	91	959	897
DELTAPINE 102	880	41	90	863	-
DES 422	880	41	87	934	-
STONEVILLE 112	833	41	88	-	-
TEST MEAN	1025				
L.S.D. (.05)	215				
C.V.	15%				

TABLE 8. PERFORMANCE OF COTTON VARIETIES AT HEADLAND, ALABAMA, 1984

VARIETY	1984			2-YR. AV.	3-YR. AV.
	LN/ACRE	LN/	EARLINESS	LN/ACRE	LN/ACRE
	LB _s	PCT _s	PCT _s	LB _s	LB _s
DELTAPINE 69	1451	42	-	1083	-
COKER 3131	1439	44	-	1066	1095
DES 422	1435	43	-	1036	-
DELTAPINE 41	1406	46	-	1062	1183
COKER 315	1391	45	-	1045	1144
STONEVILLE 825	1388	43	-	1009	1118
DELTAPINE 102	1374	41	-	972	-
STONEVILLE 213	1353	43	-	1062	1118
COKER 81-102	1343	43	-	-	-
COKER 208	1336	40	-	1015	1074
DELTAPINE 50	1313	39	-	994	1062
STONEVILLE 112	1304	42	-	-	-
DELTAPINE 90	1271	41	-	973	1047
STONEVILLE 506	1266	41	-	937	1016
MCNAIR 235	1244	41	-	899	1068
COKER 310	1239	43	-	963	1123
MCNAIR 220	1232	41	-	927	1060
DELTAPINE NSL	1213	44	-	926	-
DELCOT 311	1193	42	-	965	1038
DELTAPINE 61	1183	42	-	876	947
COKER 304	1180	41	-	948	1047
TEST MEAN	1312				
L.S.D. (.05)	136				
C.V.	7%				

TABLE 9. PERFORMANCE OF COTTON VARIETIES IN ALABAMA, AVERAGE OF ALL LOCATIONS

VARIETY	YIELD, LBS./ACRE			LINT			EARLINESS		
	1984	1984-83	1984-82	1984	1984-83	1984-82	1984	1984-83	1984-82
	LB.	LB.	LB.	PCI.	PCI.	PCI.	PCI.	PCI.	PCI.
DELTAPINE 90	1210	997	995	41	41	41	72	80	77
COKER 208	1185	950	972	40	40	41	78	83	82
DELTAPINE 50	1167	964	965	39	39	39	81	85	82
STONEVILLE 213	1172	956	960	41	41	41	75	82	79
COKER 310	1122	925	956	41	41	40	79	84	81
MCNAIR 220	1124	928	947	41	40	40	84	87	86
MCNAIR 235	1054	909	946	40	40	40	80	84	84
COKER 315	1160	934	944	43	42	42	78	83	81
STONEVILLE 825	1138	934	944	41	41	40	81	85	83
DELTAPINE 41	1085	904	939	43	43	43	78	83	81
COKER 3131	1140	913	926	42	42	42	80	84	82
COKER 304	1143	908	913	40	40	40	80	84	82
STONEVILLE 506	1111	903	910	40	39	39	81	87	84
DELTAPINE 61	1112	892	907	40	40	40	77	82	79
DELCOT 311	1054	876	901	40	40	40	79	85	83
DELTAPINE NS1	1036	879	719	41	41	39	78	84	-
DELTAPINE 69	1188	959	-	40	40	-	77	83	-
DES 422	1144	954	-	41	41	-	80	85	-
DELTAPINE 102	1101	910	-	40	40	-	80	86	-
STONEVILLE 112	1081	-	-	40	-	-	77	-	-
COKER 81-102	1192	-	-	42	-	-	77	-	-

THESE VARIETIES AT 2 LOCATIONS ONLY.

PD 4540	1055	728	739	41	40	40	75	80	77
GAT 72-56	1143	-	-	40	-	-	81	-	-
ACALA SJC-1	846	-	-	41	-	-	69	-	-
PAYMASTER 145	935	-	-	39	-	-	82	-	-

Table 10. Percentage of Plants Showing Symptoms of Fusarium Wilt¹

Variety	Average wilt percentage									
	1984	2-yr. 1983-84	3-yr. 1982-84	4-yr. 1981-84	5-yr. 1980-84	6-yr. 1979-84	7-yr. 1978-84	8-yr. 1977-84	9-yr. 1976-84	12-yr. 1973-84
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Stoneville 213	13.4	18.2	20.7	18.4	28.4	34.5	32.1	33.5	31.6	37.5
Coker 310	12.0	19.8	19.2	14.9	18.9	21.6	20.2	20.1	19.3	22.5
Coker 304	26.1	21.1	24.7	18.8	22.7	22.6	20.9	20.5	19.1	21.9
Deltapine 61	6.1	10.1	14.2	12.4	15.9	17.8	16.0	15.9	16.1	
McNair 220	2.0	10.2	14.7	10.3	15.5	15.3	14.1	14.4	13.4	
Coker 315	5.5	16.5	17.1	14.0	20.1	21.0	19.1	20.0		
Deltapine 41	29.2	19.2	19.0	16.7	23.8	24.2	21.7			
McNair 235	7.2	8.1	11.4	9.6	13.1	13.4	12.4			
Stoneville 825	38.9	34.8	35.6	30.4	40.8	42.5				
Coker 3131	15.0	16.7	18.1	16.5	20.4					
Delcot 311	4.8	7.9	8.3	6.5	10.3					
Stoneville 506	4.6	8.8	9.7	8.5	13.6					
Coker 208	8.1	16.4	18.5	14.4						
Deltapine 90	7.8	8.6	9.4	9.5						
Deltapine 50	13.8	14.6	14.0							
Deltapine NSL	14.9	16.1								
DES 422	9.6	12.4								
Deltapine 102	4.3	20.2								
Coker 81-102	15.8									
Deltapine 69	55.4									
Stoneville 112	7.8									

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

Table 11. Fiber Properties of Cotton Varieties at Crossville, Alabama, 1984

Variety	Micronaire Reading	Fibrograph		Stelometer	
		50% In.	2.5% In.	E1 Pct.	T1 g/tex
Coker 208	3.6	0.56	1.15	7.0	18.90
Coker 304	3.4	.58	1.22	6.0	22.29
Coker 310	3.5	.61	1.28	7.0	22.18
Coker 315	3.4	.60	1.24	6.0	23.93
Coker 3131	4.1	.60	1.18	8.0	20.13
Coker 81-102	3.0	.58	1.22	7.0	23.83
Delcot 311	3.6	.58	1.20	9.0	22.08
DES 422	3.6	.57	1.19	8.0	20.13
Deltapine 41	3.3	.55	1.18	8.0	22.80
Deltapine 50	3.2	.57	1.19	9.0	19.62
Deltapine 61	3.4	.59	1.21	8.0	19.82
Deltapine 69	3.7	.58	1.23	8.0	22.08
Deltapine 90	3.3	.61	1.25	6.0	22.59
Deltapine 102	3.1	.55	1.16	9.0	20.33
Deltapine NSL	3.7	.56	1.17	8.0	19.10
McNair 220	3.8	.56	1.18	6.0	19.72
McNair 235	3.7	.57	1.15	7.0	20.03
Stoneville 112	2.8	.56	1.15	8.0	21.36
Stoneville 213	3.8	.58	1.17	8.0	20.33
Stoneville 506	3.4	.59	1.19	8.0	22.70
Stoneville 825	3.4	.55	1.14	8.0	21.05

Table 12. Fiber Properties of Cotton Varieties at Prattville, Alabama, 1984

Variety	Micronaire Reading	Fibrograph		Stelometer	
		50% In.	2.5% In.	E1 Pct.	T1 g/tex
Coker 208	4.2	0.50	1.07	7.5	19.57
Coker 304	3.8	.56	1.16	7.0	21.26
Coker 310	3.8	.55	1.20	7.0	21.30
Coker 315	3.8	.57	1.22	6.5	22.81
Coker 3131	4.4	.51	1.12	8.5	18.92
Coker 81-102	4.3	.54	1.18	6.0	21.40
Delcot 311	3.4	.58	1.13	9.0	20.75
DES 422	4.1	.54	1.16	8.0	19.24
Deltapine 41	3.6	.53	1.13	7.0	20.76
Deltapine 50	4.3	.55	1.19	9.5	19.67
Deltapine 61	4.2	.56	1.18	6.5	21.30
Deltapine 69	3.8	.57	1.20	8.5	20.65
Deltapine 90	4.4	.54	1.13	7.5	22.92
Deltapine 102	3.9	.54	1.13	9.0	19.82
Deltapine NSL	4.1	.54	1.13	9.0	18.59
McNair 220	3.9	.56	1.14	8.0	18.79
McNair 235	4.2	.52	1.19	8.0	20.32
Stoneville 112	3.9	.57	1.16	8.0	20.13
Stoneville 213	4.2	.54	1.14	8.0	18.38
Stoneville 506	4.2	.55	1.18	8.5	21.08
Stoneville 825	4.0	.52	1.12	6.5	20.54

Table 13. Fiber Properties of Cotton Varieties at Brewton, Alabama, 1984

Variety	Micronaire Reading	Fibrograph		Stelometer	
		50% In.	2.5% In.	E1 Pct.	T1 g/tex
Coker 208	4.8	0.52	1.11	5.5	21.30
Coker 304	4.1	.55	1.18	6.0	22.81
Coker 310	4.1	.57	1.17	6.5	20.00
Coker 315	4.5	.57	1.17	7.0	21.51
Coker 3131	3.8	.55	1.17	8.0	18.92
Coker 81-102	4.2	.55	1.17	6.5	23.03
Delcot 311	4.0	.56	1.13	10.0	22.27
DES 422	4.4	.55	1.17	8.5	19.35
Deltapine 41	4.6	.55	1.13	6.5	21.08
Deltapine 50	4.6	.57	1.14	8.5	18.05
Deltapine 61	4.4	.57	1.16	7.5	20.54
Deltapine 69	4.4	.57	1.16	7.5	21.94
Deltapine 90	4.5	.55	1.11	7.0	22.27
Deltapine 102	4.3	.55	1.12	8.5	18.92
Deltapine NSL	4.5	.51	1.08	9.5	19.13
McNair 220	4.2	.52	1.12	7.0	20.65
McNair 235	4.3	.53	1.13	5.5	20.97
Stoneville 112	4.1	.55	1.13	8.5	20.32
Stoneville 213	4.1	.53	1.08	8.5	18.92
Stoneville 506	4.8	.56	1.16	7.0	20.76
Stoneville 825	4.6	.53	1.11	6.5	19.24

Table 14. Sources of Seed for the 1984 Cotton Variety Tests

Deltapine NSL	
Deltapine 61	
Deltapine 41	
Deltapine 10	Delta and Pine Land Co.
Deltapine 90	Scott, Mississippi
Deltapine 50	
Deltapine 69	
Deltapine 102	

Stoneville 213	
Stoneville 825	Stoneville Pedigreed Seed Co.
Stoneville 506	Stoneville, Mississippi
Stoneville 112	

Coker 310	
Coker 304	
Coker 315	Coker's Pedigreed Seed Co.
Coker 3131	Hartsville, South Carolina
Coker 208	
Coker 81-102	

Delcot 311	Delta Center
	Portageville, Missouri

McNair 235	Northrup King Co.
McNair 220	Leland, Mississippi

DES 422	Delta Branch Experiment Station
	Stoneville, Mississippi

RECOMMENDED COTTON VARIETIES FOR ALABAMA

The list of recommended varieties given below was prepared by a committee composed of the authors of this report and Dr. Louie J. Chapman, Head of Extension Agronomy, Alabama Cooperative Extension Service, based on variety test performance for at least 3 years. Varieties differ in performance at individual locations, so selection should be based largely on variety performance at a site that most nearly represents the grower's local situation. The recommended varieties are listed in order of 3-year average lint yield.

Deltapine 90

McNair 235

McNair 220

Deltapine 50

Deltapine 41

Coker 310

Coker 208

Stoneville 825¹

Coker 3131

Coker 315

Stoneville 213¹

Delcot 311

Stoneville 506

Coker 304

Deltapine 61

¹Not suited for soils where fusarium wilt has been a problem.

