



1982

ALABAMA COTTON VARIETY REPORT

DEPARTMENT OF AGRONOMY AND SOILS
ALABAMA AGRICULTURAL EXPERIMENT STATION
GALE A. BUCHANAN, DIRECTOR FEBRUARY 1983

DEPARTMENTAL SERIES No. 82
AUBURN UNIVERSITY
AUBURN UNIVERSITY, ALABAMA

1982 ALABAMA COTTON VARIETY REPORT
A REPORT OF THE PERFORMANCE OF COTTON VARIETIES TESTED IN ALABAMA

by

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February 1983

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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 usually conducted on units of the 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. Rainfall was abundant early in the season but less during August at most locations in 1982. September and October were dry throughout Alabama, giving near ideal harvest conditions. Climatic conditions were excellent for cotton production as indicated by a record high estimated state average yield of 736 pounds of lint per acre.

The data from the tests at Winfield and Shorter were not suitable for inclusion in this report.

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 Headland 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

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 on the digital fibrograph. The figures given are the distance spanned by 2.5 percent and/or 50 percent of the fibers, where the initial point of scanning is 100 percent. The 2.5 percent length, in inches, approximates classer's staple. The ratio of the 2.5 and 50 percent span lengths is a measure of fiber length uniformity.

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 by Dr. A. J. Kappelman, Jr., at the Plant Breeding Unit, Tallassee. The varieties were grown in a field 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, 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

Deltapine 90 has been developed for the San Joaquin Valley area of California. However, preliminary testing indicates it is a high quality, smoothleaf variety with broad adaptation. Deltapine 62 is a new variety that appears to be susceptible to fusarium wilt, but otherwise is similar to the widely grown Deltapine 61. Deltapine 150 is

a newly released variety previously tested as D.P. 7537-6150 and D.P. 6150. Coker 208 has been released and will be available in limited quantities in 1983. It is quite similar to Coker 201, a reliable favorite in Alabama that has been discontinued. Coker 80903 is a high quality line that has not been released. Acala SJ-5 and Lockett 77 are varieties adapted to the western areas of cotton production and are included in certain Alabama variety tests as national standard varieties. GaT 72-56 and PD 4548 are experimental lines from the Georgia Coastal Plain Experiment Station, Tifton and the Pee Dee Experiment Station, Florence, South Carolina, respectively.

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, 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, 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, Jr., Superintendent
Prattville Experiment Field - D. P. Moore, Superintendent
E. V. Smith Research Center, Shorter - J. R. Akridge, Superintendent
Plant Breeding Unit, Tallassee - L. L. Walker, Superintendent
Brewton Experiment Field - J. A. Pitts, Superintendent
Monroeville Experiment Field - J. A. Pitts, Superintendent
Wiregrass Substation, Headland - J. G. Starling, Superintendent

Table 1. Performance of Cotton Varieties at Crossville, Alabama, 1982

Variety	1982			2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %	Earliness		
	Lb.	Pct.	Pct.		
Delcot 311	1,033	42	51	1,034	869
Stoneville 825	1,006	43	65	846	754
McNair 235	1,003	42	76	980	863
Deltapine 41	993	44	54	867	767
Coker 310	992	42	52	922	801
Deltapine 90	982	43	48	930	--
Coker 80903	968	43	65	943	--
DES 56	964	40	59	958	852
Deltapine 150	955	39	56	990	--
Coker 3131	945	45	67	1,022	859
Hancock	922	41	63	963	824
Coker 208	920	42	61	896	--
Deltapine 62	911	39	41	807	--
McNair 220	904	42	75	938	814
Deltapine 55	879	43	60	801	740
Coker 315	871	43	69	817	713
Stoneville 213	862	41	48	713	656
Stoneville 506	814	39	50	793	727
Deltapine 61	797	40	50	774	684
Deltapine 26	762	43	46	693	--
Coker 304	736	42	59	819	724

Test Mean	904
L.S.D. (.05)	190
C.V.	15%

Table 2. Performance of Cotton Varieties at Belle Mina, Alabama, 1982

Variety	1982			2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %	Earliness		
	Lb.	Pct.	Pct.		
Delcot 311	1,278	40	86	985	965
Deltapine 150	1,263	40	83	1,044	--
Coker 315	1,253	42	78	978	907
Coker 3131	1,242	42	83	1,017	935
Coker 208	1,238	41	87	956	--
Deltapine 90	1,234	42	73	1,004	--
Stoneville 825	1,215	41	84	1,049	1,011
McNair 235	1,205	41	87	1,004	979
Stoneville 506	1,202	40	81	993	956
GaT 72-56	1,193	41	85	--	--
Coker 304	1,171	41	82	940	909
Coker 310	1,169	41	78	960	905
Deltapine 26	1,160	44	74	961	--
McNair 220	1,151	40	84	975	982
Deltapine 41	1,137	44	86	913	909
Stoneville 213	1,134	40	76	934	920
PD 4548	1,121	41	71	--	--
DES 56	1,093	39	81	946	899
Hancock	1,081	40	82	937	886
Deltapine 62	1,079	39	78	913	--
Coker 80903	1,039	41	80	916	--
Deltapine 55	1,036	42	83	912	870
Deltapine 61	1,035	40	74	884	--
Lockett 77	939	38	83	--	--
Acala SJ-5	360	38	64	--	--

Test Mean	1,121
L.S.D. (.05)	130
C.V.	8%

Table 3. Performance of Cotton Varieties at Brewton, Alabama, 1982

Variety	1982		2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %		
	Lb.	Pct.	Lb.	Lb.
Stoneville 506	919	44	914	915
Deltapine 61	901	42	926	904
Deltapine 55	898	41	848	869
Deltapine 26	895	40	912	929
Coker 208	880	45	908	--
Deltapine 90	880	41	994	--
DES 56	873	43	1,002	986
Coker 304	868	39	903	961
McNair 220	863	41	928	912
Stoneville 213	852	38	896	913
Coker 315	842	40	982	997
Hancock	839	42	824	830
Coker 80903	837	39	1,043	--
Stoneville 825	833	41	956	945
Deltapine 41	823	40	941	922
Deltapine 150	792	40	878	--
McNair 235	774	41	859	904
Coker 3131	769	41	877	911
Deltapine 62	765	38	838	--
Coker 310	762	40	950	933
Delcot 311	761	40	797	876

Test Mean 839
 No significant difference (P = .05)
 C.V. 17%

Table 4. Performance of Cotton Varieties at Headland, Alabama, 1982

Variety	1982		2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %		
	Lb.	Pct.		
Coker 310	1,442	41	1,246	1,286
Deltapine 41	1,426	44	1,313	1,373
McNair 235	1,405	42	1,312	1,343
Deltapine 55	1,402	41	1,321	1,390
Coker 315	1,341	41	1,264	1,272
Coker 80903	1,339	41	1,256	--
Stoneville 825	1,336	39	1,260	1,316
McNair 220	1,328	39	1,328	1,360
Deltapine 26	1,293	42	1,253	1,311
Coker 304	1,245	39	1,233	1,284
Stoneville 213	1,230	40	1,187	1,279
Hancock	1,219	38	1,160	1,202
Deltapine 150	1,197	37	1,153	--
Deltapine 90	1,195	40	1,236	--
Coker 208	1,193	39	1,217	--
Delcot 311	1,184	38	1,181	1,215
Stoneville 506	1,172	38	1,146	1,224
Coker 3131	1,153	39	1,219	1,317
Deltapine 62	1,116	38	1,122	--
DES 56	1,102	38	1,114	1,218
Deltapine 61	1,089	39	1,111	1,195
Test Mean	1,258			
L.S.D. (.05)	188			
C.V.	11%			

Table 5. Performance of Cotton Varieties at Monroeville, Alabama, 1982

Variety	1982			2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %	Earliness		
	Lb.	Pct.	Pct.		
Stoneville 825	1,064	39	74	954	813
Deltapine 150	972	36	72	966	--
McNair 235	955	38	80	941	768
Deltapine 90	933	39	65	997	--
Deltapine 41	930	39	72	959	791
McNair 220	924	40	80	941	760
Deltapine 55	922	39	74	946	784
Deltapine 61	922	38	69	890	764
Delcot 311	910	39	79	868	743
Deltapine 62	903	38	68	917	--
Coker 310	900	40	74	915	748
Coker 304	872	38	75	873	739
DES 56	866	36	70	857	741
Stoneville 506	857	36	78	887	744
Stoneville 213	850	38	69	831	729
Coker 3131	846	39	76	877	755
Coker 208	840	38	73	933	--
Coker 80903	834	38	75	825	--
Deltapine 26	790	41	62	835	715
Coker 315	789	39	72	884	734
Hancock	770	38	74	749	657
Test Mean	888				
L.S.D. (.05)	177				
C.V.	14%				

Table 6. Performance of Cotton Varieties at Prattville, Alabama, 1982

Variety	1982			2-yr. av. lint/acre	3-yr. av. lint/acre
	Lint/acre	Lint %	Earliness		
	Lb.	Pct.	Pct.		
Stoneville 213	1,253	41	85	1,013	798
Deltapine 41	1,234	42	86	1,031	813
Coker 3131	1,167	41	89	964	767
McNair 235	1,161	40	90	966	797
Coker 315	1,158	41	84	925	737
Deltapine 55	1,152	42	85	949	778
Deltapine 90	1,152	39	86	995	--
Coker 310	1,132	38	87	897	727
DES 56	1,130	39	86	920	753
Deltapine 150	1,127	37	88	978	--
Coker 208	1,124	38	88	898	--
Deltapine 62	1,104	38	86	895	--
McNair 220	1,093	39	85	897	730
Deltapine 61	1,078	40	87	902	739
Deltapine 26	1,073	43	81	931	770
Coker 304	1,066	39	88	855	695
Stoneville 825	1,033	38	85	928	789
Delcot 311	1,023	39	86	926	774
Stoneville 506	1,018	38	91	897	767
Hancock	1,018	39	80	798	659
Coker 80903	982	37	88	866	--
Test Mean	1,108				
L.S.D. (.05)	127				
C.V.	8%				

Table 7. Performance of Cotton Varieties at Tallassee, Alabama, 1982

Variety	1982			2-yr. av. lint/acre Lb.	3-yr. av. lint/acre Lb.
	Lint/acre	Lint %	Earliness		
	Lb.	Pct.	Pct.		
Coker 310	1,269	39	83	1,114	946
Coker 80903	1,210	39	86	1,054	--
Coker 208	1,170	38	84	1,072	--
McNair 235	1,148	39	80	1,128	977
Stoneville 213	1,145	43	82	1,099	957
Deltapine 41	1,138	43	86	1,032	880
McNair 220	1,130	40	88	1,125	950
Deltapine 26	1,114	42	79	1,053	899
Coker 3131	1,089	40	84	1,071	906
Deltapine 61	1,064	39	82	1,031	887
Stoneville 825	1,050	40	84	1,010	920
Deltapine 90	1,041	39	84	1,089	--
Deltapine 55	1,005	41	86	1,026	855
Deltapine 150	984	38	80	1,001	--
Hancock	979	38	88	911	775
Coker 304	977	39	84	937	837
Coker 315	973	41	84	1,006	835
Deltapine 62	967	38	82	943	--
DES 56	956	37	78	995	836
Delcot 311	949	37	92	917	786
Stoneville 506	871	39	89	867	777
Test Mean	1,059				
L.S.D. (.05)	222				
C.V.	15%				

Table 8. Performance of Cotton Varieties in Alabama, Average of All Locations

Variety	Yield, lint/acre			Lint %			Earliness		
	1982	1981-82	1980-82	1982	1981-82	1980-82	1982	1981-82	1980-82
	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
McNair 235	1,093	944	843	41	40	41	83	80	76
Stoneville 825	1,077	912	830	40	40	40	78	78	78
McNair 220	1,056	935	824	40	40	40	82	80	77
Deltapine 41	1,097	923	815	42	42	42	77	75	75
Coker 3131	1,030	920	813	41	42	42	80	79	79
Deltapine 26 ¹	1,013	870	804	42	41	41	68	71	71
Coker 310	1,095	917	799	40	39	39	75	73	74
Deltapine 55	1,042	888	796	41	41	41	78	77	76
DES 56	998	891	796	39	39	39	75	76	75
Stoneville 213	1,047	874	792	40	40	40	72	73	74
Delcot 311	1,020	882	789	39	39	39	79	79	78
Coker 315	1,033	897	783	41	40	40	77	73	73
Coker 304	991	864	780	40	40	40	78	75	75
Stoneville 506	979	848	774	39	39	39	78	75	75
Deltapine 61	984	856	766	40	41	40	72	73	73
Hancock	975	834	739	40	40	40	77	77	76
Deltapine 90	1,059	954	--	40	40	--	71	73	--
Deltapine 150	1,041	919	--	38	39	--	76	76	--
Coker 80903	1,030	905	--	40	40	--	79	77	--
Coker 208	1,052	902	--	40	40	--	79	77	--
Deltapine 62	978	842	--	38	38	--	71	73	--

These varieties at 2 locations only.

Acala SJ-5	360	431	365	38	37	38	64	69	59
GaT 72-56	1,193	939	--	41	40	--	--	--	--
PD 4548	1,121	814	--	41	40	--	--	--	--
Lockett 77	939	781	--	38	38	--	--	--	--

¹1980 this variety at 6 locations only.

Table 9. Percentage of Plants Showing Symptoms of Fusarium Wilt¹

Variety	Average wilt percentage							
	1982	2-yr. 1981-82	3-yr. 1980-82	4-yr. 1979-82	5-yr. 1978-82	6-yr. 1977-82	7-yr. 1976-82	10-yr. 1973-82
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Stoneville 213	25.8	18.6	35.3	42.7	37.6	38.6	35.5	41.4
Coker 310	18.0	9.9	18.3	22.5	20.4	20.3	19.1	23.0
Coker 304	19.7	10.3	19.6	20.3	18.3	18.3	16.8	20.8
Deltapine 55	15.3	11.2	16.3	16.7	14.3	16.6	15.5	19.8
Hancock	41.7	29.0	46.6	48.5	46.8	48.1	45.7	50.1
Deltapine 26	8.8	5.1	17.3	19.8	14.8	18.5	13.2	--
Deltapine 61	22.3	14.8	19.8	21.6	18.4	17.8	17.9	--
McNair 220	23.7	12.1	19.0	17.9	15.6	15.8	14.3	--
Coker 315	18.4	11.5	22.4	23.3	20.2	21.2	--	--
Deltapine 41	18.5	14.2	26.9	26.7	22.8	--	--	--
McNair 235	18.0	11.1	15.6	16.0	14.1	--	--	--
DES 56	18.1	13.3	20.7	22.0	--	--	--	--
Stoneville 825	37.4	25.9	44.9	46.4	--	--	--	--
Coker 3131	21.0	16.4	22.9	--	--	--	--	--
Delcot 311	9.3	5.4	12.0	--	--	--	--	--
Stoneville 506	11.5	8.2	16.7	--	--	--	--	--
Coker 208	22.8	12.4	--	--	--	--	--	--
Coker 80903	7.7	7.7	--	--	--	--	--	--
Deltapine 62	47.2	37.1	--	--	--	--	--	--
Deltapine 90	10.9	10.4	--	--	--	--	--	--
Deltapine 150	12.0	--	--	--	--	--	--	--

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

Table 10. Fiber Properties of Cotton Varieties at Crossville, Alabama, 1982

Variety	Micronaire	Fibrograph			Stelometer	
		50%	2.5%	Uniformity ratio	T1	E1
	Units	In.	In.	Pct.	g/tex	Pct.
Coker 208	4.0	0.55	1.10	50	21.5	7.5
Coker 304	3.9	.55	1.16	48	21.3	8.5
Coker 310	3.8	.56	1.19	47	22.9	8.5
Coker 315	3.7	.53	1.15	47	21.8	7.3
Coker 3131	3.8	.52	1.09	47	20.5	10.3
Coker 80903	3.6	.52	1.14	46	22.9	7.7
Delcot 311	3.3	.54	1.06	51	22.8	7.3
DES 56	4.1	.59	1.20	48	21.7	9.0
Deltapine 26	4.6	.50	1.09	46	21.8	7.3
Deltapine 41	3.5	.53	1.11	47	21.0	7.7
Deltapine 55	3.4	.50	1.11	45	20.7	7.3
Deltapine 61	4.0	.55	1.14	48	22.0	8.5
Deltapine 62	4.4	.59	1.19	49	20.9	7.0
Deltapine 90	3.7	.53	1.14	47	23.5	7.7
Deltapine 150	3.9	.56	1.16	48	19.9	7.7
Hancock	4.0	.53	1.05	51	18.9	8.5
McNair 220	4.4	.51	1.10	47	22.2	6.3
McNair 235	3.4	.55	1.13	49	21.5	7.3
Stoneville 213	4.7	.54	1.11	48	19.3	8.5
Stoneville 506	3.8	.57	1.19	47	21.7	8.7
Stoneville 825	3.4	.55	1.13	48	20.6	7.5

Table 11. Fiber Properties of Cotton Varieties at Prattville, Alabama, 1982

Variety	Micronaire	Fibrograph			Stelometer	
		50%	2.5%	Uniformity ratio	T1	E1
		<u>In.</u>	<u>In.</u>		<u>Pct.</u>	<u>g/tex</u>
	<u>Units</u>					
Coker 208	4.3	0.50	1.09	46	19.4	6.3
Coker 304	4.2	.57	1.23	47	22.3	6.0
Coker 310	3.9	.57	1.23	46	21.9	7.0
Coker 315	3.8	.55	1.21	46	21.6	7.3
Coker 3131	3.5	.55	1.15	48	19.9	7.3
Coker 80903	3.4	.54	1.18	46	22.0	5.5
Delcot 311	3.4	.59	1.17	50	23.1	7.5
DES 56	3.8	.56	1.17	48	20.9	6.0
Deltapine 26	4.4	.55	1.16	48	21.1	8.0
Deltapine 41	4.0	.53	1.17	46	21.5	7.3
Deltapine 55	3.7	.53	1.15	46	19.3	7.0
Deltapine 61	4.0	.57	1.19	48	21.7	7.5
Deltapine 62	3.8	.54	1.19	45	22.3	6.3
Deltapine 90	4.0	.55	1.17	47	25.3	6.7
Deltapine 150	4.4	.52	1.15	45	19.3	7.0
Hancock	3.7	.53	1.13	47	18.7	5.7
McNair 220	3.8	.57	1.19	48	21.5	6.5
McNair 235	4.0	.57	1.17	48	20.7	6.0
Stoneville 213	4.0	.53	1.15	46	20.3	7.3
Stoneville 506	4.0	.51	1.13	45	20.1	7.3
Stoneville 825	4.6	.53	1.16	46	19.7	6.3

Table 12. Fiber Properties of Cotton Varieties at Headland, Alabama, 1982

Variety	Micronaire	Fibrograph			Stelometer	
		50%	2.5%	Uniformity ratio	T1	E1
		<u>Units</u>	<u>In.</u>		<u>In.</u>	<u>Pct.</u>
Coker 208	4.1	0.55	1.11	49	17.0	7.2
Coker 304	4.3	.50	1.07	47	19.3	7.3
Coker 310	3.8	.52	1.14	45	19.0	7.2
Coker 315	3.7	.54	1.15	47	19.0	7.3
Coker 3131	4.2	.50	1.09	46	18.2	7.5
Coker 80903	3.8	.53	1.15	46	18.6	6.8
Delcot 311	3.7	.55	1.09	50	21.9	9.0
DES 56	3.5	.55	1.13	48	17.7	8.0
Deltapine 26	4.4	.51	1.11	47	18.3	7.3
Deltapine 41	4.2	.54	1.13	48	18.5	7.5
Deltapine 55	4.0	.53	1.13	46	17.1	8.3
Deltapine 61	4.2	.49	1.09	45	18.3	9.0
Deltapine 62	3.9	.54	1.15	47	20.9	7.5
Deltapine 90	4.3	.49	1.07	46	20.0	7.5
Deltapine 150	3.7	.50	1.09	46	17.1	9.0
Hancock	3.7	.53	1.07	50	17.8	8.2
McNair 220	4.0	.52	1.09	48	18.7	6.8
McNair 235	4.0	.53	1.12	48	17.0	7.5
Stoneville 213	4.5	.47	1.05	45	16.0	8.7
Stoneville 506	3.2	.52	1.11	47	17.0	8.5
Stoneville 825	4.0	.49	1.06	45	17.8	7.0

Sources of Seed for the 1982 Cotton Variety Tests

Variety	Source
Deltapine 55	
Deltapine 26	
Deltapine 61	Delta and Pine Land Co.
Deltapine 41	Scott, Mississippi
Deltapine 62	
Deltapine 90	
Deltapine 150	

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

Coker 310	
Coker 304	
Coker 315	Coker's Pedigreed Seed Co.
Coker 3131	Hartsville, South Carolina
Coker 80903	
Coker 208	

Delcot 311	Delta Center Portageville, Missouri

McNair 235	Northrup King Co.
McNair 220	Leland, Mississippi

Hancock	West Tennessee Experiment Station Jackson, Tennessee

DES 56	Delta Branch Experiment Station Stoneville, Mississippi

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