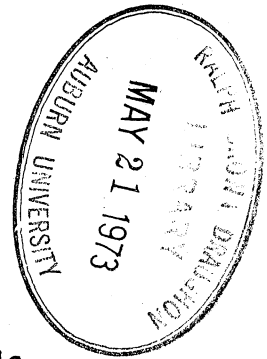


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04

ALABAMA  
COTTON VARIETY TESTS  
1971

Wiley C. Johnson, Jr.  
January 1972



Department of Agronomy and Soils  
Departmental Series No. 2

A report of the performance of cotton varieties  
tested at nine locations in Alabama during 1971.

Agricultural Experiment Station  
AUBURN UNIVERSITY  
E. V. Smith, Director Auburn, Alabama



## EXPERIMENTAL PROCEDURE

### Design and Location

A randomized block design in four replications was used at each of the nine locations. All locations are on units of the Agricultural Experiment Station. Length of plots varied from 40 to 143 feet depending upon available space. All plots were single-row except at Prattville where 2-row plots were used.

### Seasonal Conditions

Early weather throughout the State was unusually cold and wet resulting in late planting, considerable replanting and often poor stands. The damage of a poor start was largely alleviated by near ideal conditions that prevailed from mid-summer through harvest. It was necessary to replant most variety tests. The test at Tallassee was not harvested because of poor stands. Insect populations were not excessive and were adequately controlled. Variety performance at Headland was extremely variable and not consistent with previous years or with performance at other locations in 1971.

### Explanation of Data

Yield of Seed Cotton: Tests at Prattville, Belle Mina, and Crossville were harvested with mechanical pickers. Tests at other locations were hand picked. Average weight of seed cotton per acre was determined for each variety.

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

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

Fusarium Wilt Percentage: Wilt percentage was determined by removing and counting wilt infected plants three times at 3 to 4-week intervals.

Observations were made at the Plant Breeding Unit, Tallassee, on fields known to be highly infested with Fusarium wilt and root-knot nematodes.

On areas where wilt is known to be a problem, susceptible varieties should not be planted.

Earliness: Earliness percentage is calculated by dividing the first harvest yield by the total yield.

Fiber Properties: Measurements of fiber properties are not available at this time. A supplement to this report will be made when this information is available.

#### Approved Varieties

Many factors are taken into account in approving varieties. Amount of lint per acre is one of the most important but certainly not the only factor of importance. Resistance to prevalent diseases, adaptability to mechanical harvesting, storm resistance, and seedling vigor are among other factors considered. The potential for producing a quality fiber in demand by the market is becoming increasingly important.

The following varieties have been tested at least 3 years and are approved for use in Alabama. Those starred are resistant to Fusarium wilt. The unstarred varieties are either highly susceptible or have only moderate tolerance to wilt and should not be used on fields where this disease is a problem. The varieties are listed alphabetically and indicate no order of preference.

\*Auburn 56

\*Auburn M

Coker 201

Coker 310

Coker 417

Deltapine 16

Deltapine 45A

\*Dixie King II

Hancock

\*McNair 1032B

\*MoDel

Stoneville 7A

Stoneville 213

Note: Stoneville 603 has been tested 3 years and has performed well.

At this date it has not been officially released because most available seed were destroyed in a warehouse fire. Stoneville 603 will be approved when it is released by its originators.

The following varieties have been tested less than 3 years and are therefore approved on a trial basis only.

Delcot 277. A new release from Missouri which has been tested under the experimental number Mo 63-277D. It is a high quality variety with some tolerance to Fusarium wilt.

Hy-Bee 100A. A selection from Hy-Bee 100. Apparently this variety is basically the same as the parent variety with selection made to improve its fiber characteristics.

Hy-Bee 200A. A selection from Hy-Bee 200. Like the previous variety, the new selection is probably not radically different from the original material from which it was selected.

Rex Smoothleaf 66. A new variety closely related to and quite similar to the older Rex Smoothleaf.

#### New and Experimental Varieties

Acala SJ-1 and Paymaster 111. These varieties are not grown in the Southeast. They are standard check varieties for the Regional Variety Test which is national in scope and in which Alabama participates. Acala SJ-1 is grown in California and Paymaster 111 is grown in Texas and Oklahoma.

Coker 310-70903. This is not a variety but an advanced selection from the variety Coker 310.

Coker 711. This is a Coker breeding line of glandless cotton. It is not a commercial variety and was in the variety tests for observation only. Glandless cotton is of interest because normal cotton has numerous glands, especially in the seed, that contain a toxin, gossypol.

Deltapine 6225. A new selection from the cross of Deltapine 45 X Stoneville 7A. Selected for high yield, high lint per cent and lodging resistance. It appears to have some Fusarium wilt resistance. It will be called Deltapine 25 and should be available in 1973.

Frego Bract: This designates a type of cotton in which the floral bracts are distorted so that they are narrow and arch away from the floral bud. This characteristic has been found to be unattractive to boll weevils. The strain of Frego Bract tested by Auburn was in the variety Deltapine Smoothleaf. Thus Frego Bract and regular Deltapine Smoothleaf were included at several test sites to see if Frego Bract affected yield or maturity. Frego Bract is reported to reduce yield and cause lateness.

Lockett BXL and Lockett 4289A. These varieties are grown in the Plains area of the Southwest. They are being used in some narrow-row experiments. They are included in the variety tests at several locations to observe their performance with standard practices in comparison to local varieties.

McNair 210. An early, semi-determinate type that was developed especially for the northern part of the cotton belt or other areas where earliness was desirable. Seed will be in extremely short supply for 1972.

McNair 511. This variety is similar in appearance to the familiar McNair 1032 and 1032B. The main difference is that McNair 511 has a slightly longer fiber. It appears to have a high level of Fusarium wilt resistance. Few seed are available for 1972.

#### Acknowledgement

The author wishes to express appreciation to Dr. A. J. Kappelman, Jr., for Fusarium wilt ratings, and to superintendents J. K. Boseck, S. E. Gissendanner, Robert Moore, C. A. Brogden, F. T. Glaze, Emmett Carden, and J. W. Langford for growing and harvesting the variety tests.

Table 1. Performance of Cotton Varieties in Northern Alabama, 1971

Variety	Yield of lint per acre			
	Belle Mina	Crossville	Winfield	Av
	Lb.	Lb.	Lb.	Lb.
Hy-Bee 100A	1508	1081	1387	1325
Stoneville 213	1484	1028	1356	1290
Coker 201	1480	1034	1324	1279
Coker 310 -70903	1532	1071	1176	1259
Stoneville 7A	1527	1032	1205	1254
Coker 310	1450	1086	1225	1253
Hancock	1422	987	1343	1250
Dixie King II	1514	1067	1156	1245
McNair 511	1465	1159	1099	1241
Deltapine 6225	1491	950	1262	1234
Hy-Bee 200A	1403	1091	1209	1234
Coker 417	1546	1037	1104	1229
Stoneville 603	1387	1092	1202	1227
Deltapine 45A	1417	923	1222	1187
Deltapine 16	1359	1006	1097	1154
Rex Smoothleaf 66	1155	993	1223	1124
McNair 210	1198	1004	1033	1078
Auburn 56	1182	1034	987	1068
MoDel	1043	993	1167	1068
Auburn M	996	995	1108	1032
Delcot 277	797	939	1183	973
Acala SJ-1		821		
Coker 711		851		
Deltapine Smoothleaf			1103	
Empire WR 61	1228			
Frego Bract			835	
McNair 512		1133		
Lockett BXL	1074			
Lockett 4789A	1143			
Paymaster 111	905	786		



Table 2. Performance of Cotton Varieties in Northern Alabama, Two-year Average, 1970-1971

Variety	Yield of lint per acre				Lint percentage			
	Belle	Cross-	Win-	Av	Belle	Cross-	Win-	Av
	Mina	ville	field		Mina	ville	field	
Lb.	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	
Stoneville 7A	1266	1102	1107	1159	42.2	41.6	41.5	41.7
Hy-Bee 200A	1196	1106	1141	1148	41.1	41.9	40.5	41.1
Stoneville 603	1218	1061	1132	1137	39.2	40.5	39.2	39.6
Stoneville 213	1197	1053	1115	1121	41.3	40.7	40.6	40.9
Deltapine 45A	1228	1016	1078	1107	41.6	41.3	40.7	41.2
Hy-Bee 100A	1095	1039	1162	1099	42.3	41.9	40.7	41.6
Deltapine 16	1174	994	1122	1097	40.4	40.9	39.8	41.3
Coker 310	1168	1061	1055	1095	42.4	42.3	40.4	41.7
Coker 417	1197	1044	998	1080	40.8	40.7	39.6	40.3
Hancock	1085	1036	1110	1076	41.5	41.7	41.5	41.5
Coker 201	1093	992	1107	1064	43.1	41.6	41.2	41.9
Dixie King II	1116	1036	1025	1059	41.0	41.6	40.1	40.9
Delcot 277	920	1008	1082	1004	41.5	39.6	39.3	40.1
Auburn M	823	1011	1044	959	39.2	39.7	38.2	39.0
Rex Smoothleaf 66	935	1002	936	958	39.1	40.2	39.5	39.5
Auburn 56	938	1007	902	949	39.6	39.7	38.1	39.1
MoDel	803	969	952	908	38.9	39.4	38.4	38.9
Paymaster 111		851				39.0		

Table 3. Performance of Cotton Varieties in Northern Alabama, Three-year Average, 1969-1970-1971

Variety	Yield of lint per acre				Lint percentage			
	Belle Mina	Cross- ville	Win- field	Av	Belle Mina	Cross- ville	Win- field	Av
	Lb.	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.
Stoneville 603	1019	1045	988	1017	39.1	39.5	39.4	39.3
Stoneville 213	1027	1041	983	1017	42.0	40.1	40.9	41.0
Stoneville 7A	1028	1050	972	1017	41.5	40.5	41.4	41.2
Hancock	948	1058	958	988	41.5	41.8	42.0	41.8
Dixie King II	951	1085	906	981	40.9	41.3	40.6	41.0
Deltapine 16	947	997	977	974	40.0	40.2	40.2	40.1
Coker 201	934	988	972	965	42.8	41.5	41.8	42.0
Deltapine 45A	968	990	933	964	40.1	40.7	41.2	40.7
Coker 417	975	1035	877	962	40.5	40.5	39.7	40.2
Coker 310	911	1048	927	962	41.0	42.0	41.2	41.4
Auburn 56	807	1030	831	889	38.9	39.1	38.9	39.0
Auburn M	748	1004	904	885	39.4	39.2	38.6	39.1
MoDel	713	969	847	843	38.5	39.1	38.8	38.8

Table 4. Lint Per Cent and Earliness of Cotton Varieties in Northern Alabama, 1971

Variety	Lint percentage				Earliness*		
	Belle Mina	Cross-ville	Win-field	Av.	Belle Mina	Cross-ville	Win-field
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Hy-Bee 100A	43.4	42.5	41.4	42.4	89	84	71
Stoneville 213	42.7	40.1	41.6	41.5	86	80	71
Coker 201	43.2	42.1	43.1	42.7	88	87	74
Coker 310-70903	43.9	44.0	44.4	44.1	88	87	72
Stoneville 7A	43.2	41.1	42.1	42.1	78	78	65
Coker 310	44.0	43.4	43.3	43.6	91	87	71
Hancock	42.2	41.6	42.7	42.1	88	89	84
Dixie King II	41.3	42.9	42.0	42.1	87	86	69
McNair 511	41.5	41.1	40.0	40.9	82	85	72
Deltapine 6225	44.8	41.7	42.4	43.0	81	77	73
Hy-Bee 200A	41.5	42.7	41.0	41.7	86	80	75
Coker 417	42.2	41.7	41.6	41.8	90	87	71
Stoneville 603	40.3	41.1	39.8	40.4	90	84	74
Deltapine 45A	42.4	41.5	41.3	41.7	85	82	75
Deltapine 16	40.5	41.1	40.4	40.7	87	81	64
Rex Smoothleaf 66	39.5	41.3	41.4	40.7	87	86	79
McNair 210	39.3	40.3	37.5	39.0	87	90	75
Auburn 56	40.5	41.0	39.1	40.2	85	80	72
MoDel	39.6	40.4	39.0	39.7	84	81	74
Auburn M	39.9	38.7	40.1	39.6	88	84	76
Delcot 277	42.3	39.1	40.4	40.6	88	90	80
Acala SJ-1		39.8				86	
Coker 711		42.1				80	
Deltapine Smoothleaf			41.4				61
Empire WR61	43.9				85		
Frego Bract			39.2				44
McNair 512		41.9				88	
Lockett BXL	37.5				85		
Lockett 4789-A	38.7				86		
Paymaster 111	40.1	39.1			82	80	

\* Per cent of yield at first harvest.

Table 5. Performance of Cotton Varieties in Southern Alabama, 1971

Variety	Yield of lint per acre						Lint percentage					
	Auburn	Brew-	Head-	Monroe-	Pratt-	Av	Auburn	Brew-	Head-	Monroe-	Pratt-	Av
	Lb.	ton	land	ville	ville	Lb.	Pct.	ton	land	ville	ville	Pct.
McNair 511	748	1490	293	967	1205	940	38.2	39.9	36.4	39.9	40.7	39.0
Coker 417	722	1394	449	869	1205	928	39.9	41.8	36.8	40.9	41.9	40.3
Deltapine 6225	862	1383	342	806	1223	923	42.1	43.2	34.7	43.6	44.9	41.7
Coker 201	791	1381	449	869	1123	923	42.3	43.0	33.8	43.2	44.7	41.4
Hy-Bee 200A	765	1395	415	739	1271	917	40.0	41.4	35.6	41.2	43.3	40.3
Hy-Bee 100A	676	1533	307	755	1280	910	39.7	43.1	34.7	42.1	44.0	40.7
Coker 310	732	1403	318	834	1258	909	42.1	44.5	34.4	43.9	45.2	42.0
Deltapine 45A	799	1368	355	856	1131	902	39.3	42.0	35.7	42.1	43.0	40.4
Deltapine 16	919	1268	391	813	1113	901	40.6	40.9	36.6	40.0	41.9	40.0
Coker 310-70903	848	1270	377	773	1148	883	43.0	44.0	36.4	43.8	45.8	42.6
Stoneville 7A	835	1361	219	740	1206	872	41.9	42.2	38.4	41.4	43.0	41.4
Stoneville 603	699	1138	517	861	1091	861	37.9	41.4	36.6	39.2	41.8	39.4
Stoneville 213	834	1303	274	726	1146	857	40.5	42.2	35.6	39.7	43.0	40.2
Dixie King II	786	1243	306	801	1139	855	41.1	41.2	35.4	40.7	42.7	40.2
Delcot 277	672	1323	312	789	991	817	38.7	41.1	36.8	39.4	41.8	39.6
Auburn 56	712	1179	429	637	1057	803	37.6	39.7	34.7	38.3	39.2	37.9
Hancock	775	1041	323	785	1064	797	41.9	43.0	35.7	43.1	42.4	41.2
McNair 210	661	1165	408	683	1034	790	37.6	38.9	36.6	40.1	39.0	38.4
MoDel	726	1222	254	657	1064	785	37.8	40.3	35.5	38.6	40.0	38.4
Auburn M	641	1032	442	613	931	732	38.3	39.9	35.0	39.7	39.6	38.3
Rex Smoothleaf 66	679	952	381	598	877	697	37.2	39.2	35.3	38.6	38.6	37.8
(Following varieties were not tested at all locations)												
Acala SJ-1	623						38.2					
Coker 711	737						41.9					
Deltapine Smoothleaf	712		435	740	1038	731	39.9		37.2	40.2	43.2	40.1
Empire WR 61	710	1147				929	39.9	40.7				40.3
Frego Bract	895		386	539		607	38.2		37.0	37.9		37.7
Lockett BXL	680	956				818	38.5	38.7				38.6
Lockett 4789A	603	827				715	38.6	39.5				39.0
McNair 1032B	832		351			592	39.7		37.2			38.5
McNair 512	823						38.8					
Paymaster 111	502	821				662	36.7	39.5				38.1
TH 149	697						38.6					

Table 6. Performance of Cotton Varieties in Southern Alabama, Two-year Average, 1970-1971

Variety	Yield of lint per acre					Lint percentage				
	Auburn	Brewton	Head- land	Pratt- ville	Av	Auburn	Brewton	Head- land	Pratt- ville	Av
	Lb.	Lb.	Lb.	Lb.	Lb.	Pct.	Pct.	Pct.	Pct.	Pct.
Coker 201	701	1088	764	984	884	41.7	42.8	36.9	43.8	41.3
Deltapine 16	740	1009	727	1055	883	39.9	41.4	38.5	41.6	40.4
Deltapine 45A	705	1092	648	1058	876	39.1	42.1	37.3	42.5	40.2
Coker 417	631	1066	710	1067	869	39.3	40.9	36.1	40.5	39.2
Hy-Bee 100A	824	1134	641	1068	867	39.9	42.5	37.4	42.5	40.6
Hy-Bee 200A	677	1035	591	1128	858	39.0	41.3	37.0	41.9	39.8
Coker 310	647	1051	633	1078	852	41.1	43.3	36.1	43.5	41.0
Stoneville 213	718	1015	640	1016	847	39.5	41.9	38.1	41.2	40.2
Stoneville 7A	733	1026	519	1099	844	40.9	42.3	39.7	42.4	41.3
Dixie King II	679	994	640	1014	832	40.6	41.7	35.9	42.1	40.1
Stoneville 603	672	878	706	1028	821	37.5	41.1	36.7	40.9	39.1
MoDel	591	947	666	950	788	37.5	39.9	39.0	38.9	38.9
Auburn 56	600	958	649	932	785	37.7	39.3	35.1	38.8	37.7
Delcot 277	611	939	574	884	752	39.1	41.4	37.1	41.0	39.7
Hancock	672	794	540	970	744	41.6	42.3	36.9	41.7	40.6
Auburn M	581	760	708	820	717	38.3	40.5	36.6	38.8	38.5
Rex Smoothleaf 66	614	714	685	798	703	37.9	39.4	36.1	37.9	37.9
(The following varieties were not tested at all locations)										
Acala SJ-1	545					37.9				
McNair 1032B	684		555		620	39.3		37.3		38.3
Lockett BXL	601					39.1				
Paymaster 111	498					37.3				

Table 7. Performance of Cotton Varieties in Southern Alabama, Three-year Average, 1969-1970-1971

Variety	Yield of lint per acre					Lint percentage				
	Auburn Lb.	Brewton Lb.	Head- land Lb.	Pratt- ville Lb.	Av. Lb.	Auburn Pct.	Brewton Pct.	Head- land Pct.	Pratt- ville Pct.	Av. Pct.
Coker 201	808	1063	776	977	906	40.9	41.7	37.4	43.3	40.8
Coker 417	754	1009	835	1021	905	39.2	39.7	36.8	40.1	39.0
Stoneville 7A	862	984	671	1102	905	40.9	40.5	39.0	42.1	40.6
Dixie King II	812	1015	746	1024	899	39.9	40.2	37.1	41.8	39.7
Stoneville 213	813	997	748	1033	898	39.8	40.6	38.3	41.3	40.0
Deltapine 45A	801	1039	680	1056	894	38.7	40.7	37.3	42.1	39.7
Deltapine 16	830	960	734	1051	894	39.0	40.1	38.0	41.4	39.6
Stoneville 603	819	863	843	1027	888	37.6	39.7	37.3	40.2	38.7
Coker 310	741	1018	638	1041	859	39.9	42.0	37.0	42.8	40.4
MoDel	744	962	745	956	852	37.6	38.7	38.4	39.0	38.4
Auburn 56	702	956	677	956	823	37.1	38.2	35.6	39.1	37.5
Hancock	791	787	632	946	789	40.8	41.3	37.4	42.1	40.4
Auburn M	704	756	720	880	765	37.3	39.2	36.4	38.8	37.9
(These varieties were not tested at all locations)										
Acala SJ-1	558						37.4			
McNair 1032B			693					37.6		
Paymaster 111	623						37.0			

Table 8. Percentage of Plants Showing Symptoms of Fusarium Wilt\*

Variety	Per cent infected plants	
	1971	1969-70-71 Av
Auburn 56	18.3	23.8
Auburn M	39.3	20.2
Coker 201	51.9	54.3
Coker 310	70.8	44.3
Coker 310-70903	73.8	
Coker 417	49.0	50.6
Delcot 277	37.7	
Deltapine Smoothleaf	96.1	
Deltapine 16	57.6	57.5
Deltapine 45A	72.3	65.7
Deltapine 6225	33.2	
Dixie King II	45.4	23.2
Empire WR 61	22.5	
Frego Bract	67.9	
Hancock	94.4	94.0
Hy-Bee 100A	57.5	
Hy-Bee 200A	82.1	
McNair 210	27.0	
McNair 511	37.4	
McNair 1032B	46.5	40.7
MoDel	65.1	38.2
Rex Smoothleaf 66	46.8	
Stoneville 7A	75.9	88.1
Stoneville 213	52.2	77.5
Stoneville 603	49.5	34.8

\* Data were taken from a field severely infested with the Fusarium fungus and root-knot nematodes, Plant Breeding Unit, Tallassee, Alabama.

CALCULATIONS FROM DATA

FEED. NO.	NO.	SAMP. NO.	50 SL.	2.5 SL.	T1	E1	STIL. NO.	WGT
11	McNair	1032B	0.51	1.12	16.21	7.85	2	4.50
11	"	" 32	0.49	1.04	17.23	8.25	3	4.75
11	Rex SL	-66 33	0.53	1.11	16.68	8.50	3	4.15
11	"	34	0.53	1.14	16.43	8.22	3	4.10
11	Coker	310 35	0.53	1.14	17.59	8.69	2	4.92
11	"	-78903 36	0.54	1.14	16.87	7.85	3	4.92
11	Hancock	37	0.48	1.01	14.99	8.31	2	4.52
11	"	38	0.48	1.03	15.09	7.50	3	4.50
11	DPL	45-A 39	0.54	1.11	16.64	9.12	2	4.77
11	"	40	0.50	1.10	16.93	9.10	3	4.57
11	DPL SL	41	0.54	1.11	16.91	9.38	2	4.75
11	"	42	0.51	1.10	16.96	9.52	3	4.55
11	Frego Br.	43	0.51	1.12	17.72	8.97	3	4.45
11	"	44	0.50	1.10	17.29	8.45	3	4.12
11	MoDel	45	0.53	1.11	17.91	9.81	2	4.50
11	"	46	0.53	1.10	16.92	8.28	2	4.20
11	Auburn M	47	0.50	1.09	16.41	7.75	3	4.15
11	"	48	0.54	1.07	17.84	7.97	2	4.85
11	Auburn S6	49	0.50	1.06	15.64	8.15	3	4.62
11	Auburn S6	50	0.52	1.08	14.09	11.24	2	4.62
11	St. 7A	51	0.51	1.07	16.87	7.56	3	5.02
11	"	52	0.51	1.11	17.22	7.51	3	4.85
11	HiBee	100A 53	0.52	1.16	17.43	8.37	3	4.62
11	"	54	0.53	1.10	16.70	8.10	3	4.75
11	HiBee	200A 55	0.50	1.09	14.38	10.27	2	3.95
11	"	56	0.54	1.18	17.23	8.55	3	4.62
11	Lockett Br L	57	0.50	1.08	16.97	7.83	3	4.15
11	"	58	0.51	1.08	16.75	7.52	2	4.62
11	Lockett	4789A 59	0.49	1.07	16.34	7.73	3	4.42
11	"	60	0.49	1.06	14.88	8.05	3	4.40
11	DPL	6225 61	0.52	1.11	18.00	8.41	2	4.70
11	"	62	0.54	1.14	18.17	8.25	3	4.50
11	Empire	WR61 63	0.52	1.09	16.27	7.98	3	4.30
11	"	64	0.50	1.09	16.66	8.20	3	4.25



Sand Mountain  
CROSSVILLE, ALA., 1971 REGIONAL VARIETY TESTS

	SAMPLE	50	2.5	UI	MIC	RD	B	T	YS	TEX	XBAR	SD	CV	R	YTEN
Acala Sd 1	65	0.50	1.14	44	4.10	72	8.0	3	113	27.9	63.8	3.2	5.1	14	13.0
"	66	0.46	1.09	42	4.00	75	9.5	3	112	27.3	62.3	3.4	5.4	14	12.9
Paymaster III	67	0.49	1.08	45	4.40	76	9.0	2	101	27.6	57.0	2.4	4.3	8	11.7
"	68	0.45	1.01	45	4.30	76	9.0	3	106	28.0	60.1	3.5	5.8	12	12.2
Coker 201	69	0.52	1.17	44	3.90	76	8.0	3	120	27.3	66.7	4.3	6.4	16	13.8
"	70	0.48	1.09	44	4.40	75	9.0	3	94	27.2	52.3	2.5	4.8	10	10.9
DPL 16	71	0.48	1.11	43	4.00	77	8.5	3	99	27.4	55.1	2.9	5.3	9	11.4
"	72	0.50	1.10	45	4.50	77	8.0	3	98	27.2	54.0	2.5	4.7	12	11.3
Coker 417	73	0.49	1.12	43	4.00	78	8.0	3	111	26.7	57.1	3.1	5.4	11	12.1
"	74	0.47	1.13	42	3.70	76	8.5	2	114	27.3	63.3	3.6	5.6	13	13.1
Coker 310	75	0.44	1.12	39	3.70	77	8.0	2	104	27.1	57.3	3.4	5.9	11	12.0
"	76	0.52	1.15	45	4.20	75	8.0	3	102	27.2	56.5	4.4	7.8	17	11.8
Coker 711	77	0.49	1.12	44	3.90	76	7.5	3	105	27.9	59.7	2.8	4.7	12	12.1
"	78	0.50	1.10	45	4.40	75	9.5	2	106	27.4	59.1	2.4	4.1	11	12.2
Dixie King II	79	0.47	1.05	44	4.00	81	8.5	1	99	27.2	54.9	2.2	4.1	7	11.4
"	80	0.45	1.04	43	4.50	74	8.5	2	92	27.4	51.3	3.6	7.0	13	10.6
St. 603	81	0.49	1.11	44	3.40	77	8.0	3	109	27.2	60.5	4.1	6.8	14	12.6
"	82	0.46	1.05	44	4.00	76	8.5	2	97	27.4	54.1	2.0	3.8	8	11.2
McNair 210	83	0.48	1.10	43	4.10	76	8.0	2	106	27.2	59.0	2.0	3.4	7	12.3
"	84	0.45	1.04	43	4.50	75	8.0	4	118	27.1	64.8	3.0	4.6	12	13.5
McNair 9511	85	0.46	1.05	43	4.40	74	9.0	3	118	27.8	67.0	2.3	3.4	10	13.6
"	86	0.46	1.07	42	4.30	78	8.0	2	104	27.6	58.3	2.9	5.0	10	12.0
McNair 9512	87	0.46	1.01	45	4.40	74	9.0	2	109	28.3	62.8	3.3	5.2	11	12.6
"	98	0.49	1.09	44	4.00	76	8.0	2	99	27.4	55.3	2.9	5.3	12	11.4
St. 213	113	0.51	1.10	46	4.50	78	8.5	2	106	27.5	59.1	2.4	4.1	11	12.2
"	114	0.49	1.10	44	4.00	77	8.0	2	101	27.3	56.1	2.0	3.6	6	11.6

AUBURN, ALA., 1971 REGIONAL VARIETY TESTS

	SAMPLE	50	2.5	UI	MIC	RD	B	T	YS	TEX	XBAR	SD	CV	R	YTEN
<i>Acola S11</i>	1	0.50	1.12	44	4.50	72	7.5	3	121	27.5	67.7	3.5	5.1	12	14.0
"	2	0.52	1.10	47	4.50	73	7.0	3	118	27.3	65.2	3.1	4.8	12	13.5
<i>Paymaster III</i>	3	0.47	1.04	45	4.60	74	7.5	3	110	27.9	62.5	3.6	5.7	15	12.7
"	4	0.47	1.02	45	4.30	74	8.0	3	102	28.1	58.5	2.9	5.0	14	11.8
<i>Coker 201</i>	5	0.50	1.09	45	4.60	74	7.5	3	103	27.2	57.1	2.3	4.0	8	11.9
"	6	0.51	1.11	45	4.70	73	7.5	3	108	27.3	60.0	3.0	5.1	13	12.5
<i>DPL 14</i>	7	0.46	1.09	42	4.70	76	7.5	3	107	27.7	60.4	3.0	5.0	12	12.4
"	8	0.50	1.14	43	4.50	75	7.0	3	105	28.0	59.4	3.2	5.4	13	12.0
<i>Coker 411</i>	9	0.48	1.13	42	4.60	76	7.5	3	107	27.7	60.4	2.7	4.4	10	12.3
"	10	0.50	1.14	44	4.30	77	8.0	3	116	27.8	65.5	4.1	6.3	15	13.3
<i>Coker 310</i>	11	0.50	1.18	42	4.50	73	7.5	3	113	27.1	62.3	3.4	5.4	12	13.1
"	12	0.49	1.15	42	4.50	76	8.0	3	112	27.4	62.2	2.9	4.6	12	12.9
<i>Coker 711</i>	13	0.48	1.09	43	4.50	75	8.0	3	104	27.2	57.8	3.4	5.9	12	12.0
"	14	0.48	1.07	44	5.00	73	7.5	3	106	27.3	58.8	2.6	4.5	9	12.2
<i>Divic King II</i>	15	0.45	1.03	43	4.70	73	7.5	3	94	27.5	52.5	3.3	6.4	15	10.8
"	16	0.43	1.03	41	4.30	74	7.5	3	97	28.3	55.7	3.1	5.5	12	11.1
<i>St. 213</i>	17	0.48	1.10	43	5.00	74	8.0	3	102	27.1	56.1	4.0	7.1	16	11.7
"	18	0.48	1.08	44	5.00	72	8.0	3	99	27.4	55.0	2.7	5.0	10	11.4
<i>St. 603</i>	19	0.49	1.09	44	4.50	76	7.5	3	104	28.0	59.3	2.9	4.9	11	12.0
"	20	0.53	1.15	46	4.50	73	7.0	3	109	27.8	61.8	2.6	4.2	10	12.6
<i>MSNair 210</i>	21	0.51	1.12	45	4.50	73	7.0	5	108	27.4	60.5	2.3	3.8	9	12.5
"	22	0.50	1.10	45	4.70	73	7.5	5	107	27.6	60.1	3.7	6.1	12	12.3
<i>MSNair 9511</i>	23	0.49	1.09	45	4.80	71	7.5	5	108	27.9	61.4	2.9	4.7	13	12.5
"	24	0.47	1.04	44	4.70	74	7.5	4	105	27.5	58.6	4.4	7.5	15	12.1
<i>MSNair 9512</i>	25	0.50	1.08	46	4.30	72	8.5	3	107	27.6	60.3	3.4	5.7	14	12.4
"	26	0.50	1.09	45	4.60	73	8.0	3	104	26.9	57.1	3.2	5.7	13	12.0
<i>Delcot 277</i>	27	0.53	1.16	45	4.20	73	7.5	5	118	28.0	67.1	3.3	5.0	13	13.6
"	28	0.52	1.16	45	3.90	71	8.0	5	119	27.6	66.8	3.2	4.8	11	13.7
<i>TH 149</i>	29	0.53	1.15	45	4.70	74	7.0	5	110	27.9	62.4	2.7	4.3	10	12.7
"	30	0.52	1.16	45	4.50	76	7.5	4	114	27.9	64.8	3.3	5.1	14	13.1

CALCULATIONS FROM DATA

EED. NO.	SAMP. NO.	50 SL	2.5 SL	T1	E1	STIL. NO.	MIC
11 DPL 6225	249	0.50	1.05	18.17	8.79	3	4.65
11 DPL 16	250	0.53	1.12	17.88	10.06	3	4.12
11 McNair 1032B	251	0.50	1.11	16.20	9.44	5	4.25
11 HyBee 200A	252	0.49	1.06	15.89	9.03	5	4.45
11 McNair S11	253	0.50	1.10	16.56	8.21	3	4.45
11 Coker 310-70903	254	0.52	1.17	17.53	8.16	5	4.35
11 St. 7A	255	0.51	1.11	16.36	7.34	3	4.28
11 Coker 417	256	0.51	1.14	17.81	7.70	3	3.85
11 Dixie King II	257	0.50	1.05	16.29	8.57	5	4.22
11 St. 213	258	0.47	1.03	15.54	8.70	5	4.20
11 Auburn 56	259	0.49	1.07	15.66	8.45	3	4.25
11 Rex SL 66	260	0.50	1.10	15.69	8.76	5	4.05
11 Coker 201	261	0.50	1.09	16.08	7.70	3	4.40
11 Coker 310	262	0.52	1.16	17.04	7.80	5	4.15
11 DPL 45A	263	0.52	1.07	15.33	8.86	3	4.40
11 MoDel	264	0.51	1.06	15.52	8.95	5	4.15
11 Coker 310	265	0.52	1.18	16.39	8.69	3	4.20
11 Lockett 4789A	266	0.50	1.07	16.72	7.86	5	4.20
11 Coker 417	267	0.51	1.14	17.15	7.96	3	4.27
11 Auburn M	268	0.52	1.08	16.86	8.62	5	4.25
11 St. 603	269	0.51	1.11	16.96	9.08	3	4.25
11 Delcot 277	270	0.56	1.15	17.58	9.25	5	3.85
11 Paymaster III	271	0.50	1.06	15.80	7.65	3	4.35
11 DPL 6225	272	0.51	1.12	17.36	8.40	5	4.72
11 HyBee 100A	273	0.51	1.14	16.97	7.99	3	4.47
11 St. 7A	274	0.51	1.12	15.92	7.15	5	4.92
11 DPL 45A	275	0.50	1.09	16.15	9.25	5	4.30
11 HyBee 200A	276	0.49	1.12	16.93	8.35	3	4.35
11 Lockett BxL	277	0.52	1.12	16.95	7.89	5	4.17
11 McNair S11	278	0.52	1.10	18.69	7.89	3	4.57
11 Coker 310-70903	279	0.49	1.15	17.74	7.56	5	4.43
11 McNair 210	280	0.50	1.13	17.78	7.23	5	4.15
11 Auburn 56	281	0.47	1.03	16.28	8.52	3	4.37
11 <del>Dixie King II</del> Coker 201 →	282	0.49	1.13	16.20	7.61	5	4.32
11 Dixie King II	283	0.49	1.07	15.74	7.94	3	4.40
11 St. 213	284	0.49	1.08	15.61	8.81	5	4.80
11 Hancock	285	0.53	1.10	17.24	7.14	3	4.47
11 Rex SL 66	286	0.49	1.12	16.07	8.02	5	4.17
11 MoDel	287	0.53	1.12	17.00	9.06	5	4.42
11 Empire WR61	288	0.50	1.11	16.23	8.30	3	4.42
11 DPL 16	289	0.51	1.14	15.89	9.84	5	4.17

Attville

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TVSS

Belle Mine

CALCULATIONS FROM DATA

REED. NO.	NO.	SAMP. NO.	50 SL	2.5 SL	T1	E1	STIL. NO.	MIC
11	Delcot 277	233	0.53	1.17	17.44	9.39	3	3.92
11	Dixie King II	234	0.46	1.07	15.67	7.55	5	4.55
11	DPL 16	235	0.51	1.19	16.31	9.85	3	3.93
11	Coker 310-10903	236	0.52	1.21	17.38	7.36	5	4.45
11	DPL SL	237	0.50	1.16	16.51	9.82	3	4.05
11	Coker 201	238	0.50	1.12	16.20	7.99	3	4.42
11	HyBee 100A	239	0.55	1.19	16.18	8.21	5	4.40
11	St. 7A	240	0.50	1.14	15.42	7.60	3	4.35
11	St. 603	241	0.50	1.09	16.36	8.45	5	4.15
11	Frego Broct	242	0.52	1.11	16.24	8.70	5	4.35
11	DPL SL	243	0.51	1.10	16.44	9.71	3	4.02
11	McNair 210	244	0.55	1.14	16.51	8.01	5	4.45
11	Auburn M	245	0.53	1.11	15.71	8.93	3	4.35
11	Hancock	246	0.54	1.09	16.01	8.18	5	4.27
11	HyBee 100A	247	0.54	1.14	16.30	7.52	5	4.35
11	Delcot 277	248	0.55	1.16	17.30	9.18	3	3.75

Monroeville

Prattville

CALCULATIONS FROM DATA

REED. NO.	SAMP. NO.	50 SL	2.5 SL	T1	F1	STIL. NO.	NIC
11 DPL 16	189	0.47	1.12	15.40	9.68	5	3.85
11 McNair 511	190	0.49	1.07	17.10	8.29	3	4.35
11 Coker 310	191	0.49	1.16	16.25	8.48	5	3.80
11 Auburn 56	192	0.48	1.06	14.51	8.73	5	4.15
11 McNair 511	193	0.50	1.10	18.61	8.84	3	3.85
11 Auburn M	194	0.52	1.12	17.01	8.64	5	3.87
11 Coker 417	195	0.49	1.09	18.03	6.87	3	4.20
11 Delcot 277	196	0.50	1.09	17.70	8.78	5	3.85
11 McDel	197	0.54	1.14	19.26	7.30	3	4.00
11 St. 603	198	0.51	1.09	17.50	7.58	5	4.27
11 Auburn 56	199	0.53	1.09	17.29	8.36	3	4.55
11 St. 213	200	0.53	1.13	17.67	8.08	3	4.45
11 Coker 201	201	0.55	1.18	18.32	9.46	5	3.40
11 DPL 45A	202	0.53	1.16	17.28	7.97	3	3.60
11 Coker 310-70903	203	0.54	1.18	18.28	7.52	5	3.42
11 DPL 6225	204	0.52	1.14	17.82	9.89	3	3.82
11 DPL 16	205	0.50	1.09	16.98	8.21	5	3.85
11 Coker 310	206	0.50	1.15	18.10	8.22	3	3.47
11 Frego Bract	207	0.54	1.13	17.98	7.36	5	4.15
11 DPL SL	208	0.51	1.09	17.61	7.17	5	4.17
11 Hancock	209	0.51	1.06	18.19	8.17	3	3.85
11 HyBee 200A	210	0.52	1.10	17.30	8.62	5	4.15
11 McNair 1032B	211	0.52	1.12	17.54	8.04	3	4.50
11 McNair 210	212	0.52	1.12	17.31	8.23	5	4.40
11 St. 7A	213	0.53	1.11	18.21	8.33	3	4.35
11 HyBee 100A	214	0.52	1.08	17.84	7.47	5	4.02
11 Dixie King II	215	0.52	1.08	16.84	8.45	3	3.75
11 Rex SL 166	216	0.49	1.09	18.00	7.88	5	4.05
11 McNair 210	217	0.51	1.12	16.76	7.60	3	4.55
11 McNair 511	218	0.53	1.12	15.94	7.77	5	4.60
11 Rex SL 66	219	0.50	1.11	14.99	7.90	3	4.20
11 Coker 310	220	0.52	1.18	16.15	7.90	5	4.32
11 McDel	221	0.54	1.15	16.86	9.57	3	4.20
11 Auburn M	222	0.50	1.11	15.44	8.04	5	4.30
11 Hancock	223	0.52	1.11	15.41	8.38	3	4.40
11 St. 213	224	0.51	1.13	15.53	8.42	5	4.45
11 DPL 45A	225	0.51	1.12	16.06	9.32	3	4.20
11 Coker 417	226	0.52	1.21	<del>19.47</del> 18.19	<del>7.55</del> 7.75	5	4.05
11 St. 603	227	0.51	1.14	16.62	9.32	3	4.27
11 Auburn M	228	0.50	1.11	15.15	8.10	5	4.40
11 HyBee 200A	229	0.52	1.15	15.83	10.07	3	4.42
11 Auburn 56	230	0.50	1.07	15.03	8.34	5	4.45
11 DPL 6225	231	0.52	1.14	16.67	8.70	3	4.55
11 Frego Bract	232	0.48	1.13	16.23	8.73	5	3.85

Brewston

Headland

Monroeville

CALCULATIONS FROM DATA

ELD. NO.	SAMP. NO.	50 SL	2.5 SL	T1	E1	STIL. NO.	STIL. NO.
11	McNair 1032B 145	0.52	1.03	17.14	7.82	5	5.15
11	McNair 511 146	0.50	1.05	18.03	8.20	3	5.15
11	McNair 210 147	0.53	1.05	17.03	7.66	5	4.75
11	Rex SL 66 148	0.50	1.06	16.07	7.78	3	4.45
11	Coker 201 149	0.52	1.07	17.78	7.47	5	4.95
11	Coker 310 150	0.50	1.10	19.40	7.42	3	5.15
11	Coker 417 151	0.54	1.12	19.50	7.65	3	4.75
11	Coker 310-70903 152	0.53	1.13	17.98	7.58	5	4.75
11	Hancock 153	0.52	1.05	18.35	7.33	3	4.75
11	DPL 16 154	0.54	1.12	17.12	9.14	5	4.75
11	DPL 6225 155	0.53	1.11	18.68	8.68	3	5.15
11	DPL 45A 156	0.52	1.06	17.61	8.78	5	4.75
11	Delcot 277 157	0.53	1.13	18.94	9.55	3	4.35
11	MoDel 158	0.54	1.09	17.99	8.83	5	4.35
11	Auburn M 159	0.49	1.05	16.92	8.04	3	4.35
11	Auburn 56 160	0.51	1.08	17.59	8.75	3	4.75
11	St. 213 161	0.52	1.06	16.71	8.81	5	5.15
11	St. 603 162	0.51	1.07	17.29	8.97	5	4.55
11	St. 7A 163	0.52	1.09	16.88	6.81	5	5.15
11	Dixie King II 164	0.51	1.05	16.84	7.51	3	5.15
11	HiBee 100A 165	0.55	1.17	18.13	7.85	5	4.75
11	HiBee 200A 166	<del>0.56</del> 0.57	<del>1.13</del> 1.14	17.84	9.07	3	5.15
11	DPL SL 167	0.52	1.10	16.85	9.52	5	4.55
11	Frego Braet 168	0.53	1.11	17.64	8.56	5	4.55
11	Lockett 4789A 169	0.48	1.04	15.27	7.88	3	4.15
11	Coker 201 170	0.48	1.07	14.30	7.90	5	4.15
11	Auburn M 171	0.47	1.06	14.67	8.59	3	3.55
11	St. 213 172	0.49	1.05	14.80	8.67	5	4.25
11	HiBee 200A 173	0.50	1.13	16.13	8.75	3	4.15
11	Empire WR61 174	0.50	1.07	15.59	7.58	5	4.15
11	HiBee 100A 175	0.50	1.12	16.25	7.95	3	4.55
11	DPL 45A 176	0.47	1.08	<del>17.39</del> *1637	<del>8.70</del> 8.93	5	4.05
11	St. 603 177	0.49	1.07	15.33	8.75	3	4.15
11	Coker 301-70903 178	0.47	1.13	15.32	7.96	5	4.05
11	DPL 6225 179	0.52	1.12	18.84	8.84	3	4.35
11	Paymaster III 180	0.48	1.02	16.06	8.42	5	4.35
11	McNair 210 181	0.51	1.07	16.12	8.31	3	4.05
11	Coker 417 182	0.52	1.12	16.36	8.27	3	3.85
11	Hancock 183	0.48	1.07	15.42	7.85	5	4.05
11	MoDel 184	0.47	1.07	15.60	9.80	3	4.15
11	Rex SL 66 185	0.48	1.07	14.17	8.26	5	3.85
11	Lockett BxL 186	0.47	1.04	15.22	8.20	3	4.15
11	Delcot 277 187	0.51	1.13	17.25	9.73	3	3.85
11	St. 7A 188	0.48	1.07	15.99	7.97	3	4.15

Winfield, UCA

Brewton Field

Sand Mountain  
CALCULATIONS FROM DATA

SEED. NO.	SAMP. NO.	50 SL	2.5 SL	T1	E1	STIL. NO.	VIC	
11	Delcot 277	89	0.51	1.11	16.67	8.25	3	4.05
11	"	90	0.54	1.19	16.05	10.11	5	3.25
11	Rex SL 66	91	0.52	1.13	15.43	9.06	3	4.05
11	"	92	0.51	1.08	17.34	9.81	5	4.30
11	Coker 310-70903	93	0.50	1.16	17.20	8.59	3	3.97
11	"	94	0.51	1.09	17.61	8.96	5	4.15
11	Hancock	95	0.53	1.09	16.00	9.06	3	3.95
11	"	96	0.53	1.19	16.85	9.42	5	3.45
11	DPL 45A	97	0.52	1.11	16.56	9.80	3	4.17
11	"	98	0.51	1.04	14.90	8.50	5	4.77
11	McDel	99	0.52	1.10	15.26	10.30	3	4.45
11	"	100	0.47	1.07	15.53	8.50	3	3.75
11	Auburn M	101	0.53	1.14	15.24	8.09	5	4.25
11	"	102	0.50	1.08	15.85	8.47	3	3.65
11	Auburn 56	103	0.53	1.13	15.68	8.35	5	4.45
11	"	104	0.51	1.12	16.85	9.14	3	3.95
11	St. 7A	105	0.50	1.12	15.54	8.09	5	4.25
11	"	106	0.53	1.11	16.81	10.64	3	4.45
11	HijBee 100A	107	0.55	1.18	18.11	8.50	3	3.77
11	"	108	0.55	1.19	16.84	10.70	5	3.65
11	HijBee 200A	109	0.53	1.15	16.48	10.40	3	4.05
11	"	110	0.53	1.09	16.15	8.42	5	4.15
11	DPL 6225	111	0.53	1.12	18.04	9.14	3	4.45
11	"	112	0.50	1.05	17.46	9.04	5	4.25

