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Mississippi Cotton Variety Tests, 1964

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Mississippi
Cotton Variety Tests,
1964

Mississippi State University
AGRICULTURAL EXPERIMENT STATION
HENRY H. LEVECK, Director

STATE COLLEGE

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Mississippi Cotton Variety Tests For 1964 IN THE DELTA

By JAMES B. DICK and ROBERT H. LOE¹

Testing of cotton varieties is a necessary function of State Experiment Stations in areas of cotton production to provide information on the relative value of varieties being offered for sale. As new varieties are developed the varietal situation requires continuous appraisal. Of 12 varieties included in the Delta variety tests in 1954, ten years ago, only four were in the 1964 tests. Seed of the other 8 varieties is no longer sold.

Cotton variety trials were conducted by the Delta Branch Experiment Station at four locations during the years 1962, 1963, and 1964. One location was the Delta Experiment Station at Stoneville. Co-operative trials were conducted on the Woolfolk Farms 6 miles north of Tunica, with the cooperation of Messrs. Scott Arnold Jr., Dunlap Rose, Jr., and County Agent Hayes Farish; on the Heaton Plantation at Clarksdale with the cooperation of Mr. W. S. Heaton, Jr., and County Agent R. P. Lewis; and on the Schaefer Plantation north of Yazoo City with the cooperation of Mr. Emile Schaefer.

The 1964 season was very favorable for cotton production over the Delta as a whole. An unfortunate local drought at Clarksdale destroyed the validity of the 1964 test and yields were not recorded. Excessive rainfall in July and August damaged the Yazoo City test.

Current strains of 16 commercial varieties were grown in the 1964 variety trials.

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Thirteen of these varieties were also grown in trials in 1962 and 1963. The Stoneville and Tunica trials are a part of a beltwide variety testing program.

Results are reported for the 1964 tests and for 2-year and 3-year averages for each location. In each case yield data were taken from solid plantings of replicated and randomized 2-row plots in each test. Other data were determined from samples taken at first harvests. Money value per acre was computed by adding the Commodity Credit Corporation loan value for the staple length of each variety for Strict Low Middling grade and the seed value at \$52.00 a ton. No allowance was made for ginning. Varieties are listed in each table in order of dollar value per acre. Classing was done by the Staple Cotton Cooperative Association in Greenwood, Mississippi. Fiber properties data were determined by the fiber laboratory of Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture, at Knoxville, Tennessee.

More attention is being given to fiber fineness than ever before. In 1964 Delta cotton had higher micronaire values than normal, with three of the 16 varieties in the variety tests averaging above 5.00. In the 3-year averages the micronaire indexes for all varieties fell between 4.03 and 4.86.

Many textile mills are now greatly interested in fiber strength as well as staple length. Most Delta varieties possess fairly good fiber strength, with T₁ values averaging 1.81 to 1.96. (Approximately 72,400 to 78,400 pounds per square inch.) All of these varieties have staple lengths of 1 1/16 to 1 3/32 inches.

Results of the 1964 trials and averages of previous years are shown in the accompanying tables.

Table 1a.—Yield, earliness, lint percent, boll size, fiber properties, and gross money value for the 1964 cotton variety test at Stoneville, Mississippi.

Variety	Yield pounds lint per acre		Percent at first pick		Number bolls per pound		Fiber properties			Gross value per acre (SLM) dollars		
	Total lbs.	First pick lbs.	pct.	pct.	Seed cotton no.	Lint no.	Staple length		Stren- gth (T _v) index		Elon- gation (E ₁) index	Micro- nair index
							Classer	UHM inch				
Stoneville 7A	1369	1006	74	38.6	76	198	1 1/16+	1.16	2.01	7.3	5.19	\$ 467
McNair 1032	1295	874	68	36.3	71	196	1 1/16—	1.05	2.09	9.2	5.01	447
Stoneville 213	1312	990	75	39.4	77	195	1 1/16	1.11	1.98	8.3	5.17	446
Deltapine 15	1293	888	69	39.3	75	190	1 1/16	1.11	2.18	9.0	4.57	440
Deltapine						180	1 3/32	1.11	2.03	10.5	5.02	435
Smooth Leaf	1263	910	72	39.7	72	188	1 1/16	1.12	1.91	9.2	4.67	432
Auburn 56	1236	878	71	34.4	65	161	1 1/16	1.12	2.05	7.4	5.21	426
Carolina Queen	1244	790	64	37.9	61	168	1 1/16	1.11	2.02	6.5	4.97	401
Dixie King II	1165	838	72	37.1	62	186	1 1/16	1.08	2.10	8.9	5.04	393
Deltapine 45	1149	895	78	38.4	72	190	1 1/16	1.17	1.99	6.6	4.63	379
Coker 100A	1086	750	69	34.8	66	179	1 3/32	1.18	1.99	7.7	4.42	378
Delfos 9169	1062	804	76	34.0	61	196	1 1/16	1.12	2.18	7.7	4.91	374
Stardel	1097	888	81	38.6	74	177	1 1/16	1.09	1.97	7.3	4.98	367
DeKalb 220	1069	797	75	37.4	66	153	1 1/16	1.13	1.98	6.8	4.19	357
Empire WR 61	1029	750	73	35.4	54	197	1 1/16	1.09	1.99	8.2	4.46	353
Auburn M	1018	864	85	35.4	70	175	1 1/16	1.09	1.81	8.8	4.39	343
Rex Smooth Leaf	994	812	82	36.5	64				2.02			
Averages	1168			31.1								
LSD at 5% level	215											
CV	13.0%											

Planted May 1; harvested September 22 and October 22. Soil: Deer Creek sandy loam.

Table 1b.—Yield and other data for cotton variety tests at Stoneville; 3-year averages, 1962-1964.

Variety	Yield		Lint percent	Fiber properties				Gross value per acre (SLM)
	pounds per acre	lbs.		Staple length		Strength		
				Classer	UHM	(T ₁)	Micronaire	
Stoneville 213	1259	38.6	34.7	1.14	1.92	5.13	454	
Stoneville 7A	1229	37.8	35.0	1.17	1.93	5.18	443	
Auburn 56	1142	34.3	34.3	1.12	1.96	4.66	420	
Deltapine Smooth Leaf	1150	38.4	34.7	1.14	2.04	4.96	415	
DeKalb 220	1112	36.6	34.3	1.12	1.88	4.81	406	
Deltapine 15	1106	38.9	34.7	1.14	2.06	4.75	396	
Dixie King	1084	36.0	34.7	1.13	1.97	4.85	395	
Stardel	1079	37.2	34.7	1.14	2.08	4.81	392	
Delfos 9169	1040	33.1	35.3	1.20	1.89	4.29	390	
Coker 100A	1044	35.1	34.7	1.17	1.92	4.71	383	
Auburn M	1028	35.2	34.0	1.11	1.96	4.34	376	
Rex Smoothleaf	1022	35.9	34.3	1.12	1.84	4.31	374	
Empire WR 61	985	34.8	34.3	1.13	1.89	4.19	361	

Table 3.—Yield and other data for cotton variety tests at Clarksdale; 2-year averages, 1961-1963.

Variety	Yield		Lint percent	Fiber properties				Gross value per acre (SLM)
	pounds per acre	lbs.		Staple length		Strength		
				Classer	UHM	(T ₁)	Micronaire	
Stoneville 213	843	37.1	35.0	1.12	1.88	4.58	315	
Stoneville 7A	774	37.2	34.5	1.12	1.82	4.40	288	
DeKalb 220	728	34.4	34.5	1.13	1.93	3.87	283	
Deltapine Smooth Leaf	750	36.0	35.0	1.13	1.98	4.10	281	
Auburn 56	724	33.2	35.0	1.10	1.90	3.85	277	
Dixie King	690	33.9	34.5	1.11	1.90	4.08	724	
Auburn M	709	33.0	34.5	1.08	1.95	3.60	271	
Stoneville 3202	720	35.6	34.5	1.04	1.70	4.02	270	
Fox 4	706	34.2	34.5	1.12	1.97	4.27	267	
Coker 1000	698	34.1	35.0	1.13	1.92	4.06	266	
DeKalb 108	694	33.1	35.0	1.13	1.87	3.90	266	
Deltapine 15	707	36.3	34.5	1.11	2.00	4.12	265	
Delta Queen	682	33.3	35.0	1.14	1.90	3.87	261	
Stardel	683	35.9	35.0	1.11	1.90	4.18	257	
Rex Smoothleaf	673	33.6	34.5	1.11	1.80	3.92	255	
Delfos 9169	615	31.8	36.0	1.16	1.88	3.70	239	
Empire WR 61	584	33.4	34.5	1.09	1.87	4.00	222	

Table 2a.—Yield, earliness, lint percent, fiber properties, and gross money value for the 1964 cotton variety test at Tunica, Mississippi.

Tunica		Yield pounds			Fiber properties					Gross value per acre (SLM)
		lint	per acre	% at first pick	Per cent lint	Staple length	Stren- gth (T ₁)	Elon- gation (E ₁)	Micro- naire	
Variety	Total	lbs. pick	lbs. acre	pct.	inch	inch	index	index	index	dollars
Stoneville 213	1413	934	66	40.0	1 1/16	1.07	1.69	7.7	5.24	479
Stoneville 7A	1367	890	65	40.4	1 1/16	1.08	1.82	7.7	5.06	462
Auburn 56	1323	865	65	36.6	1 1/16	1.09	1.82	7.8	4.55	456
DeKalb 220	1326	773	58	37.8	1 1/16	1.10	2.03	7.3	4.83	454
Carolina Qn.	1320	776	59	39.4	1 1/16	1.09	1.95	7.0	5.12	449
Deltapine 45	1312	884	67	39.7	1 1/16	1.06	1.94	8.0	4.97	446
Coker 100A	1301	810	62	38.5	1 1/16	1.09	1.79	7.2	4.84	444
Dixie King II	1285	700	54	38.4	1 1/16	1.06	1.86	6.8	4.85	439
McNair 1032	1282	796	62	38.1	1 1/16	1.03	1.98	7.1	4.88	439
Stardel	1271	694	55	39.7	1 1/16	1.08	2.03	6.2	5.02	431
Deltapine 15	1271	597	47	40.3	1 1/16	1.09	1.94	9.0	4.43	430
Deltapine SL	1252	680	54	39.7	1 1/16	1.10	1.87	8.5	4.47	425
Delfos 9169	1203	734	61	35.5	1 3/32	1.14	1.79	8.0	4.41	424
Auburn M	1168	718	62	36.1	1 1/16	1.07	1.91	7.9	4.38	404
Empire WR 61	1062	778	73	35.9	1 1/16	1.08	1.70	6.6	4.19	368
Rex Smlf.	1051	746	71	35.7	1 1/16	1.09	1.86	7.7	4.39	364
Averages	1263			32.2			1.87			
LSD										
at 5% level	147				Planted April 30; harvested September 15 and October 27.					
CV	8.2%				Soil: Sandy loam.					

Table 2b.—Yield and other data for cotton variety tests at Tunica; 3-year averages, 1962-1964.

Tunica		Yield pounds		Lint percent	Fiber properties			Gross value per acre (SLM)	
		lint	per acre		Staple length	Strength	Micronaire		
Variety		lbs.	acre	pct.	1/32 inch	inch	index	index	dollars
Stoneville 213		1316		39.2	34.7	1.11	1.79	4.94	471
DeKalb 220		1166		36.8	34.3	1.13	1.86	4.27	422
Delfos 9169		1130		34.4	35.3	1.17	1.80	4.19	420
Coker 100A		1151		37.2	34.7	1.15	1.80	4.66	417
Deltapine Smooth Leaf		1159		38.5	34.3	1.12	1.85	4.33	417
Stoneville 7A		1164		39.2	34.3	1.13	1.82	4.75	415
Auburn 56		1135		35.5	34.3	1.10	1.84	4.24	414
Dixie King		1101		36.8	34.7	1.11	1.81	4.37	398
Stardel		1108		38.2	34.3	1.12	1.94	4.68	398
Deltapine 15		1073		39.1	34.7	1.13	1.92	4.27	384
Auburn M		1040		35.5	34.3	1.11	1.88	4.05	379
Rex Smoothleaf		971		35.5	34.3	1.12	1.80	4.16	354
Empire WR 61		922		34.8	34.3	1.11	1.77	4.04	337

Table 4a.—Yield, lint percent, fiber properties, and gross money value for the 1964 cotton variety test at Yazoo City, Mississippi.

Variety		Fiber properties							Gross value per acre (SLM) dollars
		Yield pounds per acre	Percent lint	Staple length		Strength (T ₁) index	Elonga- tion (E ₁) index	Micronaire	
				Classer inch	UHM inch				
Stoneville 7A	1000	40.0	1 1/16+	1.09	1.92	7.3	4.85	341	
McNair 1032	986	38.0	1 1/16	1.05	2.03	7.2	4.82	338	
Delfos 9169	947	35.3	1 3/32	1.16	1.86	8.5	4.33	334	
Auburn 56	910	36.0	1 1/16	1.06	1.77	8.3	4.39	315	
Deltapine 15	931	41.0	1 1/16	1.09	1.82	9.2	4.51	314	
Dixie King II	905	39.2	1 1/16	1.07	1.88	7.0	4.78	308	
Rex Smlf.	894	38.0	1 1/16	1.07	1.81	7.9	4.25	306	
Deltapine Smlf.	892	40.3	1 1/16+	1.08	1.97	9.1	4.88	304	
Stoneville 213	896	40.0	1 1/16	1.10	1.73	7.7	5.06	404	
DeKalb 220	870	37.8	1 1/16+	1.11	1.78	8.2	4.57	300	
Coker 100A	840	37.4	1 3/32	1.12	1.86	7.6	4.68	293	
Caroline Qn.	852	39.8	1 1/16	1.12	1.78	7.4	5.08	289	
Deltapine 45	840	39.6	1 1/16	1.10	1.91	8.2	4.84	285	
Stardel	801	39.6	1 1/16	1.08	1.92	7.1	4.71	272	
Empire WR61	786	3.70	1 1/16	1.07	1.81	7.3	4.04	271	
Auburn M	720	36.0	1 1/16	1.07	1.82	8.0	4.04	249	
Averages	879	38.4			1.85		4.61		
LSD at 5 % level		145	Soil: Sandy loam.						
CV	11.5%		Planted April 21; harvested September 10 and October 20.						

Table 4b.—Yield and other data for cotton variety tests at Yazoo City; 3-year averages, 1962-1964.

Variety		Fiber properties							Gross value per acre (SLM) dollars
		Yield pounds per acre	Lint percent	Staple length		Strength (T ₁) index	Micronaire		
				Classer 1/32 inch	UHM inch				
Stoneville 7A	1686	39.8	34.7	1.11	1.87	4.92		390	
Stoneville 213	1074	39.3	34.7	1.10	1.83	4.78		388	
Auburn 56	1009	35.8	34.7	1.08	1.82	4.34		371	
Deltapine Smooth Leaf	1007	39.5	35.0	1.10	1.95	4.73		365	
DeKalb 220	975	37.2	34.7	1.11	1.84	4.43		355	
Rex Smoothleaf	947	37.3	34.3	1.09	1.78	4.20		343	
Deltapine 15	956	39.7	34.7	1.10	1.93	4.47		343	
Dixie King	931	37.3	34.7	1.07	1.84	4.62		339	
Delfos 9169	985	34.9	35.3	1.16	1.87	4.13		336	
Coker 100A	903	36.6	35.0	1.12	1.89	4.53		332	
Stardel	889	38.9	34.7	1.09	1.97	4.63		320	
Empire WR 61	874	37.0	34.3	1.08	1.84	4.20		319	

Table 5.—Average yield per acre, lint percent, staple length, fiber strength, and micronaire for 16 varieties grown at three Delta locations in 1964.

Variety	Yield pounds lint per acre	Lint percent	Fiber properties				Gross value per acre (SLM)
			Staple length		Strength (T ₁)	Micronaire	
			Classer	UHM			
	lbs.	pct.	1/32 inch	inch	index	index	dollars
Stoneville 7A	1245	39.7	34.3	1.11	1.92	5.03	423
Stoneville 213	1207	39.8	34.0	1.09	1.80	5.16	410
McNair 1032	1190	37.5	34.0—	1.04	2.03	4.90	408
Auburn 56	1156	35.7	34.0	1.09	1.83	4.54	401
Deltapine 15	1165	40.2	34.0	1.10	1.98	4.50	395
Deltapine Smf.	1136	39.9	34.5	1.10	1.96	4.80	388
Carolina Queen	1140	39.0	34.0	1.11	1.93	5.14	388
Dixie King II	1118	38.2	34.0	1.08	1.92	4.87	383
Delfos 9169	1070	34.9	35.0	1.16	1.88	4.40	379
Deltapine 45	1100	39.2	34.0	1.08	1.98	4.95	375
DeKalb 220	1088	37.7	34.2	1.10	1.93	4.80	374
Coker 100A	1076	36.9	34.3	1.13	1.88	4.72	372
Stardel	1056	39.3	34.0	1.09	2.04	4.88	359
Rex Smoothleaf	980	36.7	34.0	1.08	1.83	4.34	338
Auburn M	970	35.8	34.0	1.08	1.90	4.30	335
Empire WR 61	960	36.1	34.0	1.09	1.83	4.14	332

Table 6.—Average yield, money value, lint percent, and fiber properties for 13 cotton varieties grown in 11 yield trials in 4 Delta locations in 1962, 1963, and 1964.

Variety	Yield lbs. lint per acre	Gross value per acre (SLM)	Lint percent	Fiber properties			
				Staple length		Strength (T ₁)	Micro- nair
				Classer	UHM		
	lbs.	dollars	pct.	1/32 inch	inch	index	index
Stoneville 213	1123	407	38.6	34.8	1.12	1.86	4.86
Stoneville 7A	1063	384	38.5	34.6	1.13	1.86	4.81
Alburn 56	1002	370	34.7	34.6	1.10	1.88	4.27
Deltapine Smf.	1017	370	38.1	34.8	1.12	1.96	4.53
DeKalb 220	995	367	36.3	34.5	1.12	1.88	4.35
Dixie King	952	352	36.0	34.7	1.11	1.88	4.48
Coker 100A	949	349	35.8	34.9	1.14	1.88	4.49
Deltapine 15	961	347	38.5	34.7	1.12	1.98	4.40
Delfos 9169	943	346	33.6	35.5	1.17	1.86	4.08
Stardel	940	342	37.6	34.7	1.12	1.97	4.03
Auburn M	913	335	34.9	34.3	1.10	1.90	4.03
Rex Smoothleaf	903	332	35.6	34.4	1.10	1.81	4.15
Empire WR 61	841	310	35.0	34.4	1.10	1.84	4.11

COTTON TESTS IN HILL SECTION

By G. D. GREEN, R. C. ALBRITTON, R. E. COATS, S. P. CROCKETT,
W. J. GILL, B. C. HURT, JR., and B. E. WAGGONER

Sixteen varieties were included in these Experiment Station tests in 1964. All seed came from the breeder or sponsor of the variety. Four varieties previously tested which were not entered by their breeders this year were Deltapine 15, Fox 4, Delta Queen and Coker 124B. Pennington HY-BEE, a so-called strain cross, was the only new entry. DeKalb 108 and 220 are called strain crosses, also.

Tests were conducted at the Central Station, State College; the Black Belt Branch Station, Brooksville; the Coastal Plain Branch Station, Newton; the Brown Loam Branch Station, Raymond; one on flatwoods and one on Pontotoc Ridge soil at the Pontotoc Station, Pontotoc; one on hill land on the station and one on bottom land on the farm of Mr. C. C. Moore about $4\frac{1}{2}$ miles north of Holly

Summary Tables

Summary Table showing average yields of cotton varieties which have been in all the Hill Station tests for five or more years, in pounds of lint per acre for years indicated.

Variety	State College 60-64	Brooks-ville 60-64	New- ton 59-61 & 63-64	Ray- mond 60 & 62-64	Pontotoc		Holly Springs		Ver- ona 59 & 62-64	Aver- age
					Flat- woods 60-64	Ridge 60-64	Hill 60-64	Bottom 61-64		
Stoneville 3202	672	861	635	790	637	788	812	1014	879	788
Auburn 56	712	785	661	778	632	807	861	1001	813	783
Dixie King	670	798	638	685	659	774	818	944	853	760
Coker 100A, WR	665	826	636	645	644	794	811	1020	780	758
Deltapine SM Lf.	676	860	629	784	578	736	739	943	807	750
Delfos 9169	635	762	541	687	557	667	797	926	760	794

Summary Table showing average yields in Hill Station cotton variety tests in 1964, in pounds of lint per acre.

Variety	State College	Brooks-ville	New- ton	Ray- mond	Pontotoc		Holly Springs		Ver- ona	Aver- age
					Flat- woods	Ridge	Hill	Bottom		
Stoneville 213	728	928	762	942	708	831	1115	1317	773	900
Carolina Queen	574	901	780	885	760	803	1086	1442	779	890
Dixie King	466	819	737	740	755	826	1171	1207	898	847
Stoneville 3202	617	893	688	912	710	808	1084	1143	740	844
Auburn M	586	709	720	883	743	869	1108	1179	734	837
Pennington HY-BEE	553	827	726	801	739	800	1005	1236	791	831
Auburn 56	621	763	670	845	659	873	1094	1143	803	830
Stoneville 7A	629	965	738	820	630	786	1014	1208	674	829
DeKalb 220	562	761	643	934	643	857	974	1266	809	828
Deltapine 45	550	882	755	890	568	783	972	1207	718	814
Empire WR 61	566	716	710	868	734	815	975	1054	761	800
Rex Smoothleaf	564	762	785	814	628	747	1015	1104	775	799
Deltapine SM. Lf.	610	818	715	842	570	747	936	1108	803	794
Coker 100A, WR	515	768	716	691	738	799	1012	1174	722	793
DeKalb 108	488	764	703	734	633	766	990	1169	719	774
Delfos 9169	475	706	554	725	705	784	1089	1131	737	767

State College

Cotton Varieties, 1964, Central Station, State College, Mississippi

Variety	Yield per A., lbs.		Dollar val. per A. SLM	Lint pct.	Staple 32nds inch	Bolls per lb.	
	Seed cotton	Lint				Seed cotton	Lint
Stoneville 213	1799	728	243	40.4	34.0	70	173
Stoneville 7A	1580	629	211	39.8	34.0	75	190
Auburn 56	1723	621	212	36.0	34.0	70	194
Stoneville 3202	1604	617	208	38.5	34.0	72	187
Deltapine Sm. Lf.	1537	610	204	39.6	34.0	78	196
Auburn M	1573	586	199	37.3	34.0	69	186
Carolina Queen	1488	574	193	38.5	34.0	69	180
Empire WR 61	1497	566	191	37.8	34.5	57	151
Rex Smoothleaf	1513	564	191	37.2	34.5	66	177
DeKalb 220	1499	562	190	37.5	34.0	66	177
Pennington HY-BEE	1453	553	184	38.0	33.5	65	172
Deltapine 45	1436	550	185	38.3	34.0	78	203
Coker 100A, WR	1364	515	174	37.7	34.5	70	186
DeKalb 108	1339	488	164	36.4	33.5	69	191
Delfos 9169	1371	475	176	34.6	35.0	63	183
Dixie King	1193	466	157	39.1	34.0	59	152
LSD @ 5%		117					
Cv		18.0%					

Soil: Verona fine sandy loam; Fertilizer: 75-50-50; Planted May 1; Poisoned 13 times.

Cotton Variety Averages, Central Station, State College, Mississippi.

Variety	Yield lint, pounds per acre					Lint %	Averages			
	1960	1961	1962	1963	1964 Average		Percent first picking	Staple 32nd inch	Bolls per lb. seed cotton	
Auburn 56	713	561	866	801	621	712	36.4	81	34.0	68
Deltapine Sm. Lf.	772	499	824	676	610	676	39.0	73	34.5	75
DeKalb 108	748	576	826	727	488	673	37.0	76	34.2	63
Stoneville 3202	741	562	754	687	617	672	38.3	79	33.6	71
Dixie King	756	490	830	806	466	670	38.1	79	34.1	56
Coker 100A, WR	748	559	789	713	515	665	37.9	71	34.4	68
Delfos 9169	853	485	749	611	475	635	35.2	67	35.1	60
Stoneville 213	---	502	839	740	728	---	---	---	---	---
DeKalb 220	---	533	795	847	562	---	---	---	---	---
Stoneville 7A	---	549	830	722	629	---	---	---	---	---
Carolina Queen	---	---	840	807	574	---	---	---	---	---
Auburn M	---	---	---	836	586	---	---	---	---	---
Rex Smooth Leaf	---	---	---	786	564	---	---	---	---	---
Empire WR, 61	---	---	---	711	566	---	---	---	---	---
Deltapine 45	---	---	---	574	550	---	---	---	---	---

Springs by the personnel of the North Mississippi Branch Station, Holly Springs, and one on bottom land on the Northeast Mississippi Branch Station, Verona.

High Yields

Every variety produced at the rate of

more than two bales per acre in the bottom land test at Holly Springs and all but one produced more than two gross weight bales per acre in the test on the station farm at this location. Each of the 16 varieties produced essentially the same as the highest yielding one in at

Black Belt

Cotton Varieties, Black Belt Branch Station, Brooksville, Mississippi

Variety	Yield lint, pounds per acre					Averages				
	1960	1961	1962	1963	1964	Average	Lint %	Percent first picking	Staple 32nd inch	Bolls per lb. seed cotton
	Stoneville 3202	577	756	944	1136	893	861	39.6	61	33.4
Deltapine Sm. Lf.	590	600	1055	1238	818	860	40.3	60	34.2	85
Coker 100A, WR	616	710	961	1074	768	826	38.4	56	34.6	79
DeKalb 108	630	799	900	967	764	812	37.9	59	34.6	71
Dixie King	610	606	859	1094	819	798	39.6	62	34.1	65
Auburn 56	582	709	902	967	763	785	37.4	64	33.8	78
Delfos 9169	615	585	905	997	706	762	35.6	51	35.3	72
Stoneville 7A	---	588	1026	1185	965	---	---	---	---	---
DeKalb 220	---	745	1008	1132	761	---	---	---	---	---
Stoneville 213	---	---	1002	1227	928	---	---	---	---	---
Carolina Queen	---	---	999	1274	901	---	---	---	---	---
Deltapine 45	---	---	---	1166	882	---	---	---	---	---
Rex Smooth Leaf	---	---	---	845	762	---	---	---	---	---
Empire WR, 61	---	---	---	957	716	---	---	---	---	---
Auburn M	---	---	---	841	709	---	---	---	---	---

Cotton Varieties, 1964, Black Belt Branch Station, Brooksville, Mississippi.

Variety	Yield per A., lbs.		Dollar val. per A., SLM	Lint pct.	Staple 32nd inch	Bolls per pound		Pct. first picking
	Seed cotton	Lint				Seed cotton	Lint	
Stoneville 7A	2466	965	329	39.1	35.5	75	193	26
Stoneville 213	2346	928	316	39.5	35.0	73	186	32
Carolina Queen	2346	901	308	38.4	35.0	73	190	33
Stoneville 3202	2317	893	301	38.5	34.5	70	182	33
Deltapine 45	2248	882	300	39.2	35.0	76	193	35
Pennington HY-BEE	2210	827	289	37.4	36.0	69	186	37
Dixie King	2119	819	276	38.6	34.5	64	165	42
Deltapine Sm. Lf.	2142	818	280	38.2	35.0	78	204	36
Coker 100A, WR	2081	768	265	36.9	35.5	75	204	28
DeKalb 108	2063	764	263	37.0	35.5	68	184	34
Auburn 56	2117	763	260	36.0	34.5	72	201	42
Rex Smoothleaf	2090	762	263	36.4	35.5	62	172	43
DeKalb 220	2074	761	262	36.6	35.0	67	182	31
Empire WR 61	2032	716	253	35.2	36.0	60	170	43
Auburn M	1959	709	245	36.1	35.0	69	191	41
Delfos 9169	2105	706	252	33.5	36.0	69	206	21
LSD @ 5%		42.3						
Cv.		4.6%						

Soil: Houston Clay; Fertilizer: 90-60-60; Planted April 21; Poisoned 11 times.

least one test in 1964. These results indicate that all entries are good producers. However, some are better than others.

The ranking of varieties varied considerably from some stations to others. For this reason, the choice of a variety should be based largely on the test results at the station with conditions most nearly like your own. The averages tables

should have more influence than the yearly tables as the relative performance of the varieties varies from year to year even in the same field. This is due to differences in weather, growing season, etc. The yearly tables must be studied for information other than yield on new varieties.

Brown Loam

Cotton Variety Averages, Brown Loam Branch Station, Raymond, Mississippi.

Variety	Yield lint, pounds per acre					Averages		
	1960	1962	1963	1964	Averages	Lint %	Staple 32nds inch	Bolls per lb. seed cotton
Stoneville 3202	532	568	1150	912	790	39.5	32.2	78
Deltapine Sm. Lf.	575	543	1175	842	784	39.2	33.7	80
Auburn 56	474	650	1144	845	778	36.6	33.3	73
DeKalb 108	517	617	1143	734	753	37.2	33.4	68
Delfos 9169	465	451	1109	725	687	35.5	34.2	69
Dixie King	541	406	1053	740	685	37.3	33.5	60
Coker 100A, WR	490	511	888	691	645	37.6	33.7	77
Stoneville 213	---	698	1373	942	---	---	---	---
DeKalb 220	---	698	1182	934	---	---	---	---
Carolina Queen	---	587	1133	885	---	---	---	---
Stoneville 7A	---	692	1014	820	---	---	---	---
Empire WR, 61	---	---	1477	868	---	---	---	---
Deltapine 45	---	---	1120	890	---	---	---	---
Auburn M	---	---	1056	883	---	---	---	---
Rex Smooth Leaf	---	---	1052	814	---	---	---	---

Cotton Varieties, 1964, Brown Loam Branch Station, Raymond, Mississippi.

Variety	Yield per A., lbs.		Dollar val. per A. SLM	Lint pct.	Staple 32nds inch	Bolls per lb.	
	Seed cotton	Lint				Seed cotton	Lint
Stoneville 213	2540	942	324	37.0	35.0	70	191
DeKalb 220	2676	934	326	34.9	35.0	68	196
Stoneville 3202	2418	912	308	37.7	34.0	73	195
Deltapine 45	2406	890	302	37.0	34.5	72	196
Carolina Queen	2342	885	304	37.7	35.0	71	187
Auburn M	2532	883	308	34.8	35.0	67	192
Empire WR 61	2523	868	303	34.4	35.0	58	170
Auburn 56	2378	845	289	35.5	34.5	68	192
Deltapine Sm. Lf.	2329	842	287	36.1	34.0	78	217
Stoneville 7A	2244	820	279	36.5	34.5	70	192
Rex Smoothleaf	2318	814	283	35.1	35.0	65	185
Pennington							
HY-BEE	2251	801	274	35.6	34.5	70	196
Dixie King	2045	740	252	36.1	34.5	58	161
DeKalb 108	2115	734	256	34.6	35.0	64	186
Delfos 9169	2215	725	256	32.7	35.0	67	207
Coker 100A, WR	1953	691	240	35.3	35.0	74	211
LSD @ 5%		40.7					
Cv.		6.1%					

Soil: Grenada silt loam; Fertilizer: 98-65-65; Planted May 8; Poisoned 10 times.

Disease Resistance

Wilt resistant or tolerant varieties should be planted in fields where loss from wilt disease is considerable. Auburn 56, Auburn M, Coker 100A, and Carolina Queen have high resistance to

Fusarium wilt and Dixie King, Empire, Rex Smoothleaf and DeKalb 108 are resistant. Deltapine 45, Auburn M, Auburn 56, Coker 100A, Stoneville 7A, Dixie King and Rex Smoothleaf have some tolerance to Verticillium wilt but none are classed as resistant.

Coastal Plain

Cotton Variety Averages, Coastal Plain Branch Station, Newton, Mississippi.

Variety	Yield lint, pounds per acre						Averages			
	1959	1960	1961	1963	1964	Average	Lint %	Percent first picking	Staple 32nd inch	Bolls per lb. seed cotton
Auburn 56	623	545	496	970	670	661	37.4	67	33.6	72
Dixie King	589	549	432	884	737	638	38.4	69	33.7	59
Delfos 9169	528	502	364	759	554	541	36.5	61	35.4	66
Stoneville 3202	585	516	459	927	688	635	39.3	70	33.2	77
Deltapine Sm. Lf.	586	492	472	878	715	629	39.7	63	34.0	81
Coker 100A, WR	566	502	441	955	716	636	38.8	66	34.4	72
DeKalb 108	---	535	473	858	703	---	---	---	---	---
DeKalb 220	---	---	492	977	643	---	---	---	---	---
Stoneville 7A	---	---	468	866	738	---	---	---	---	---
Carolina Queen	---	---	---	1038	780	---	---	---	---	---
Rex Smooth Leaf	---	---	---	967	785	---	---	---	---	---
Stoneville 213	---	---	---	955	762	---	---	---	---	---
Auburn M	---	---	---	965	720	---	---	---	---	---
Empire WR, 61	---	---	---	911	710	---	---	---	---	---
Deltapine 45	---	---	---	710	755	---	---	---	---	---

Cotton Varieties, 1964, Coastal Plain Branch Station, Newton, Mississippi.

Variety	Yield per A., lbs.		Dollar val. per A., SLM	Lint pct.	Staple 32nd inch	Bolls per pound		Pct. first picking
	Seed cotton	Lint				Seed cotton	Lint	
Rex Smoothleaf	2131	785	267	36.8	34.5	62	170	55
Carolina Queen	1970	780	265	39.6	35.0	68	171	43
Stoneville 213	1963	762	256	38.8	34.5	69	178	47
Deltapine 45	1960	755	254	38.5	34.5	73	189	47
Stoneville 7A	1894	738	252	38.9	35.0	73	188	44
Dixie King	1882	737	247	39.1	34.0	60	153	53
Pennington HY-BEE	1899	726	248	38.2	35.5	66	174	43
Auburn M	1979	720	245	36.4	34.5	68	186	55
Coker 100A, WR	1831	716	244	39.1	35.0	70	179	45
Deltapine Sm. Lf.	1921	715	246	37.2	35.0	81	217	48
Empire WR 61	1904	710	244	37.2	35.0	59	158	56
DeKalb 108	1862	703	238	37.7	34.5	68	181	47
Stoneville 3202	1728	688	230	39.8	34.5	73	183	50
Auburn 56	1880	670	229	35.6	34.5	73	205	47
DeKalb 220	1716	643	221	37.5	35.0	70	189	37
Delfos 9169	1594	554	196	34.8	36.5	65	188	34
LSD @ 5%		107.4						
Cv.		13.3%						

Soil: Prentiss fine sandy loam; Fertilizer: 72-72-72; Planted May 7; Poisoned 4 times.

The growing season as a whole was highly favorable to cotton as indicated by the record high statewide yield per acre. Excessive rain during early July at State College caused the plants at that location to become large and sappy with poor root systems. This was followed by a period of drouth. This combination of

conditions plus the prolonged shading from the clouds accompanying the early July rains caused heavy shedding during the main boll setting period and consequently reduced yields.

Lint percentage, staple length, and boll size were not far from average.

North Mississippi, Bottom Land

Cotton Variety Averages, Bottom Land, North Mississippi Branch Station, Holly Springs, Mississippi.

Variety	Yield lint, pounds per acre					Averages			
	1961	1962	1963	1964	Average	Lint %	Percent first picking	Staple 32nds inch	Bolls per lb. seed cotton
	DeKalb 220	1102	864	1012	1266	1051	37.1	71	35.5
Coker 100A, WR	1124	792	990	1174	1020	37.5	67	35.4	67
Stoneville 3202	1153	838	924	1143	1014	38.5	76	33.6	65
DeKalb 108	1116	809	913	1169	1002	36.5	69	34.8	61
Auburn 56	1113	811	939	1143	1001	36.5	71	34.5	64
Stoneville 7A	974	774	1009	1208	986	38.6	63	35.1	70
Dixie King	983	753	833	1207	944	37.0	69	35.1	56
Deltapine Sm. Lf.	970	743	951	1108	943	38.6	68	35.1	71
Delfos 9169	1010	672	892	1131	926	34.4	68	36.1	58
Stoneville 213	-----	937	1087	1317	-----	-----	-----	-----	-----
Carolina Queen	-----	800	1067	1442	-----	-----	-----	-----	-----
Deltapine 45	-----	-----	920	1207	-----	-----	-----	-----	-----
Auburn M	-----	-----	918	1179	-----	-----	-----	-----	-----
Rex Smooth Leaf	-----	-----	857	1104	-----	-----	-----	-----	-----
Empire WR, 61	-----	-----	832	1054	-----	-----	-----	-----	-----

Cotton Varieties, 1964, North Miss. Branch Station, Bottom Land, Holly Springs, Miss.

Variety	Yield per A., lbs.		Dollar val. per A., SLM	Lint pct.	Staple 32nd inch	Bolls per pound		Pct. first picking
	Seed cotton	Lint				Seed cotton	Lint	
Carolina Queen	3331	1442	476	43.2	34.5	66	152	61
Stoneville 213	3251	1317	433	40.5	33.5	73	181	67
DeKalb 220	3180	1266	424	39.8	34.5	65	165	65
Pennington HY-BEE	3094	1236	414	39.9	34.0	64	162	63
Stoneville 7A	2975	1208	403	40.6	34.0	74	183	60
Deltapine 45	3021	1207	398	39.9	33.5	69	172	65
Dixie King	2990	1207	397	40.3	33.5	62	154	64
Auburn M	3051	1179	391	38.6	33.5	63	165	72
Coker 100A, WR	2987	1174	394	39.3	34.0	78	199	60
DeKalb 108	2990	1169	393	39.1	34.0	72	184	62
Auburn 56	3026	1143	381	37.7	33.5	65	173	66
Stoneville 3202	2785	1143	375	41.0	33.0	70	172	71
Delfos 9169	3130	1131	391	36.1	35.0	60	166	58
Deltapine Sm. Lf.	2668	1108	368	41.5	34.0	72	175	64
Rex Smoothleaf	2854	1104	372	38.6	34.0	62	161	67
Empire WR, 61	2786	1054	351	37.8	33.0	56	149	62
LSD @ 5%		130.7						
Cv.		10.9%						

Soil: Collins; Fertilizer: 68-43-43; Planted May 4; Poisoned 12 times.

Single Row Plots

The plots were single rows which varied from 65 to 200 feet long and from 40 to 42 inches wide, being 42 at Brooksville only. Staple length, lint percentage, and boll size were determined from 100 bolls samples. The staple length reported is the average of the determinations of two

professional cotton classers each representing a different organization and stapling samples from different replications.

The price of the lint used in calculating the value per acre was the Government loan price at Starkville, Mississippi for Strict Low Middling cotton of the staple length of that variety in that test. Seed was valued at \$49 per ton.

North Mississippi, Hill Land

Cotton Variety Averages, Hill Land, North Mississippi Branch Station, Holly Springs, Mississippi

Variety	Yield lint, pounds per acre					Averages				
	1960	1961	1962	1963	1964 Average	Lint %	Percent first picking	Staple 32nd inch	Bolls per lb. seed cotton	
Auburn 56	779	867	785	779	1094	861	37.5	75	34.2	70
Dixie King	811	771	633	705	1171	818	38.0	66	34.0	61
Stoneville 3202	711	827	694	745	1084	812	39.5	78	33.1	73
Coker 100A, WR	755	811	726	750	1012	811	38.8	68	34.7	71
DeKalb 108	803	805	639	800	990	807	37.9	73	34.2	66
Delfos 9169	747	786	669	692	1089	797	36.6	62	35.1	66
Deltapine Sm. Lf.	713	858	503	685	936	739	39.0	71	33.9	77
Stoneville 7A	---	827	713	820	1014	---	---	---	---	---
DeKalb 220	---	813	723	804	974	---	---	---	---	---
Stoneville 213	---	---	766	788	1115	---	---	---	---	---
Carolina Queen	---	---	677	797	1086	---	---	---	---	---
Auburn M	---	---	---	845	1108	---	---	---	---	---
Rex Smooth Leaf	---	---	---	797	1015	---	---	---	---	---
Empire WR, 61	---	---	---	661	975	---	---	---	---	---
Deltapine 45	---	---	---	651	972	---	---	---	---	---

Cotton Varieties, Hill Land, North Miss. Branch Station, Holly Springs, Mississippi, 1964.

Variety	Yield per A., lbs.		Dollar val. per A., \$	Lint per SLM	Staple 32nd inch	Bolls per pound		Pct. first picking
	Seed cotton	Lint				Seed cotton	Lint	
Dixie King	2761	1171	382	42.4	33.5	74	175	42
Stoneville 213	2615	1115	348	42.6	31.5	78	183	50
Auburn M	2633	1108	362	42.1	33.5	72	171	53
Auburn 56	2725	1094	366	40.1	34.0	70	174	49
Delfos 9169	2673	1089	363	40.7	34.0	71	176	34
Carolina Queen	2579	1086	355	42.1	33.0	77	184	37
Stoneville 3202	2670	1084	356	40.6	33.0	67	165	55
Rex Smoothleaf	2446	1015	332	41.4	33.0	72	173	46
Stoneville 7A	2524	1014	334	40.1	33.0	69	173	41
Coker 100A, WR	2414	1012	336	41.9	34.0	70	167	40
Pennington HY-BEE	2634	1005	339	38.1	34.0	74	195	40
DeKalb 108	2446	990	326	40.4	33.5	70	174	41
Deltapine Sm. Lf.	2291	936	307	40.8	33.0	71	174	45
Empire WR 61	2326	975	323	41.9	34.0	74	177	42
DeKalb 220	2449	974	326	39.7	34.0	67	170	45
Deltapine 45	2374	972	319	40.9	33.0	68	168	41
LSD @ 5%	110.1							
Cv.	8.5%							

Soil: Grenada silt loam; Fertilizer: 72-48-48; Planted May 6; Poisoned 14 times.

The term LSD @ 5% means least significant difference. A difference in yield between varieties in a test of less than the figure indicated is not considered as a real difference but due to something

other than the yielding ability of the varieties. Cv means coefficient of variation and the smaller it is the more reliable the test.

Northeast Mississippi

Cotton Variety Averages, Northeast Mississippi Branch Station, Verona, Mississippi

Variety	Averages						Staple 32nds inch	Bolls per lb. seed cotton
	Yield lint, pounds per acre					Lint %		
	1959	1962	1963	1964	Averages			
Stoneville 3202	1255	927	596	740	879	38.2	33.9	72
Dixie King	1162	912	439	898	853	37.1	34.7	55
Auburn 56	1164	736	551	803	813	36.3	34.7	68
Deltapine Sm. Lf.	1059	878	489	803	807	39.9	34.6	74
Coker 100A, WR	1156	810	434	722	780	37.1	35.6	68
Delfos 9169	1129	807	368	737	760	34.9	36.3	63
Stoneville 213	-----	966	499	773	-----	-----	-----	-----
DeKalb 220	-----	848	554	809	-----	-----	-----	-----
Stoneville 7A	-----	946	587	674	-----	-----	-----	-----
Carolina Queen	-----	900	430	779	-----	-----	-----	-----
DeKalb 108	-----	825	453	719	-----	-----	-----	-----
Empire WR, 61	-----	-----	489	761	-----	-----	-----	-----
Deltapine 45	-----	-----	503	718	-----	-----	-----	-----
Rex Smooth Leaf	-----	-----	389	775	-----	-----	-----	-----
Auburn M	-----	-----	403	734	-----	-----	-----	-----

Cotton Varieties, 1964, Northeast Mississippi Branch Station, Verona, Mississippi

Variety	Yield per A., lbs.		Dollar val. per A. SLM	Lint pct.	Staple 32nds inch	Bolls per lb.	
	Seed cotton	Lint				Seed cotton	Lint
Dixie King	2417	898	305	37.1	34.0	53	144
DeKalb 220	2248	809	280	35.9	35.0	62	172
Auburn 56	2242	803	274	35.8	34.0	64	180
Deltapine Sm. Lf.	1982	803	268	40.5	34.0	71	176
Pennington HY-BEE	2143	791	269	36.9	34.5	62	169
Carolina Queen	2059	779	267	37.8	35.0	63	169
Rex Smooth Leaf	2207	775	266	35.1	34.0	61	174
Stoneville 213	2130	773	263	36.2	34.0	70	194
Empire WR 61	2199	761	266	34.6	35.0	56	152
Stoneville 3202	1989	740	247	37.2	33.5	67	181
Delfos 9169	2216	737	263	33.2	36.0	61	184
Auburn M	1919	734	247	38.2	34.5	61	161
Coker 100A, WR	2004	722	250	36.0	35.5	66	184
DeKalb 108	2035	719	250	35.3	35.5	62	176
Deltapine 45	1953	718	244	36.7	34.0	68	185
Stoneville 7A	1814	674	229	37.2	34.5	68	182
LSD @ 5%		52.2					
Cv		6.0%					

Soil: Bottom; Fertilizer: 66-92-60; Planted May 14; Poisoned 5 times.

Pontotoc, Flatwoods

Cotton Variety Averages, Flatwoods, Pontotoc Ridge-Flatwoods Branch Station, Pontotoc Mississippi.

Variety	Lint yield, pounds per acre						Averages		
	1960	1961	1962	1963	1964	Average	Lint %	Staple 32nds inch	Bolls per lb. seed cotton
	Dixie King	505	738	512	787	755	659	38.1	33.4
Coker 100A, WR	466	853	470	691	738	644	38.3	33.8	72
Stoneville 3202	448	818	513	697	710	637	39.7	32.5	77
Auburn 56	491	766	535	710	659	632	37.3	33.5	72
DeKalb 108	499	790	527	695	633	629	37.7	34.0	66
Deltapine Sm. Lf.	495	721	436	668	570	578	39.4	33.3	80
Delfos 9169	408	627	449	597	705	557	36.1	35.0	64
DeKalb 220	—	784	487	799	643	—	—	—	—
Stoneville 7A	—	701	494	693	630	—	—	—	—
Carolina Queen	—	—	528	789	760	—	—	—	—
Stoneville 213	—	—	526	777	708	—	—	—	—
Auburn M	—	—	—	752	743	—	—	—	—
Empire WR, 61	—	—	—	727	734	—	—	—	—
Rex Smooth Leaf	—	—	—	718	628	—	—	—	—
Deltapine 45	—	—	—	719	568	—	—	—	—

Cotton Varieties, 1964, Flatwoods, Pontotoc-Ridge-Flatwoods Br. Station, Pontotoc, Miss.

Variety	Yield per A., lbs.		Dollar val. per A. SLM	Lint pct.	Staple 32nds inch	Bolls per lb.	
	Seed cotton	Lint				Seed cotton	Lint
Carolina Queen	1920	760	255	39.5	34.5	69	175
Dixie King	1976	755	251	38.2	33.5	64	167
Auburn M	1970	743	248	37.7	33.5	68	181
Pennington							
HY-BEE	1933	739	249	38.2	34.5	66	173
Coker 100A, WR	1941	738	245	38.0	33.5	74	195
Empire WR 61	1927	734	244	38.0	33.5	59	157
Stoneville 3202	1821	710	235	38.9	33.0	76	196
Stoneville 213	1879	708	236	37.6	33.5	78	207
Delfos 9169	1990	705	241	35.4	34.5	65	183
Auburn 56	1758	659	223	37.5	34.0	73	196
DeKalb 220	1723	643	215	37.3	33.5	68	182
DeKalb 108	1702	633	211	37.2	33.5	71	190
Stoneville 7A	1667	630	210	37.8	33.5	76	201
Rex Smoothleaf	1711	628	210	36.7	33.5	64	174
Deltapine Sm. Lf.	1471	570	189	38.7	33.0	82	212
Deltapine 45	1539	568	193	36.9	34.5	77	210
LSD @ 5%		120.6					
Cv.		14.1%					

Soil: Bude; Fertilizer: 76-60-60; Planted May 11; Poisoned 6 times.

Pontotoc, Ridge

Cotton Variety Averages, Pontotoc Ridge, Pontotoc Ridge-Flatwoods Branch Station, Pontotoc, Mississippi.

Variety	Lint yield, pounds per acre						Averages		
	1960	1961	1962	1963	1964	Average	Lint %	Staple 32nds inch	Bolls per lb. seed cotton
Auburn 56	566	1010	648	939	873	807	36.8	34.2	68
Coker 100A, WR	534	1066	578	991	799	794	38.5	34.5	70
Stoneville 3202	603	986	553	988	808	788	38.7	33.3	75
DeKalb 108	530	1014	667	939	766	783	37.8	34.3	63
Dixie King	549	959	590	944	826	774	38.0	34.2	57
Deltapine Sm. Lf.	569	928	593	843	747	736	39.4	34.3	78
Delfos 9169	449	742	574	784	784	667	35.9	35.1	63
DeKalb 220	-----	994	681	888	857	-----	-----	-----	-----
Stoneville 7A	-----	1007	639	894	786	-----	-----	-----	-----
Carolina Queen	-----	-----	700	1056	803	-----	-----	-----	-----
Stoneville 213	-----	-----	695	919	831	-----	-----	-----	-----
Auburn M	-----	-----	-----	1039	869	-----	-----	-----	-----
Deltapine 45	-----	-----	-----	913	783	-----	-----	-----	-----
Rex Smooth Leaf	-----	-----	-----	949	747	-----	-----	-----	-----
Empire WR, 61	-----	-----	-----	854	815	-----	-----	-----	-----

Cotton Varieties, 1964, Pontotoc Ridge, Pontotoc Ridge-Flatwoods Br. Station, Pontotoc, Miss.

Variety	Yield per A., lbs.		Dollar val. per A. SLM	Lint pct.	Staple 32nds inch	Bolls per lb.	
	Seed cotton	Lint				Seed cotton	Lint
Auburn 56	2392	873	293	36.5	33.5	68	188
Auburn M	2286	869	289	38.0	33.5	70	184
DeKalb 220	2297	857	291	37.3	34.0	66	178
Stoneville 213	2154	831	276	38.5	33.5	77	202
Dixie King	2123	826	278	38.9	34.5	60	154
Empire WR 61	2167	815	276	37.6	34.0	58	155
Stoneville 3202	2073	808	268	38.9	33.5	79	203
Carolina Queen	2092	803	271	38.3	34.5	70	183
Pennington							
HY-BEE	2123	800	267	37.6	33.5	69	184
Coker 100A, WR	2065	799	269	38.7	34.5	75	195
Stoneville 7A	2014	786	264	39.0	34.5	75	192
Delfos 9669	2228	784	269	35.2	34.5	61	175
Deltapine 45	2077	783	265	37.6	34.0	74	198
DeKalb 108	2056	766	263	37.2	35.0	67	182
Deltapine Sm. Lf.	1925	747	251	38.8	34.0	80	207
Rex Smoothleaf	2048	747	254	36.5	34.5	64	176
LSD @ 5%		65.0					
Cv.		6.1%					

Soil: Atwood sand loam; Fertilizer: 76-60-60; Planted May 4; Poisoned 9 times.

ORIGINAL SOURCE OF SEED

Auburn 56—Alabama Agricultural Experiment Station, Auburn, Alabama.

Auburn M—Foundation Seed Stocks, Columbia, Missouri.

Coker 100A, WR and Carolina Queen—Coker's Pedigreed Seed Co., Hartsville, S. C.

DeKalb 108 and 220—DeKalb Agricultural Assn., Inc., Bogart, Georgia.

Deltapine 45 and Smooth Leaf—Delta & Pine Land Co., Scott, Mississippi.

Empire WR 61—Empire Pedigreed Seed Co., Haralson, Georgia.

Rex Smoothleaf—Cotton Branch Experiment Station, Marianna, Arkansas.

Stoneville 213; 7A; Delfos 9169 and Dixie King—Stoneville Pedigreed Seed Co., Stoneville, Mississippi.

Pennington HY-BEE—Cotton Hybrid Research, Inc., Athens, Georgia.