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Mississippi cotton variety test for 1972

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Mississippi Cotton Variety Test For 1972



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Bulletin 800

Mississippi Cotton Variety Tests For 1972

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July 1973

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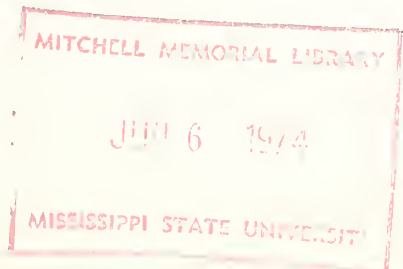


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Mississippi Cotton Variety Tests For 1972

in the Delta

Testing of cotton varieties is needed in areas of cotton production to provide information on the relative merits of varieties offered for sale. The cotton variety test results are useful guides to farmers in the selection of varieties possessing the best balance of productivity and fiber quality characteristics.

Cotton variety tests were conducted by the Delta Branch Experiment Station in 1972 at the Delta Station at Stoneville; Schaefer Plantation near Yazoo City; Mitchener Plantation near Sumner; and Arnold Farms near Tunica. Variety tests were conducted on two test sites at Stoneville. One was on a Bosket very fine sandy loam, and another was on a Sharkey clay type soil.

Thirteen varieties were grown on three of the test sites and two additional varieties were grown at Stoneville and Tunica. Varieties grown at Stoneville and Tunica are included in a cooperative Belt-wide variety testing program. Five varieties were tested for the first time at all locations. These were Deltapine 5916-65, Deltapine 652-679, McNair 511, Coker 5110, and Coker 103.

Results are reported at each location for the 1972 variety tests. Yield data were based on the weight of cotton harvested from two-row plots. Each entry was randomized and replicated six times.

Lint percentages and fiber property determinations were obtained from

hand-picked samples. Fiber property data were determined by the U. S. Cotton Fiber Laboratory of the Agricultural Research Service, U. S. Department of Agriculture, Knoxville, Tennessee.

Performance data of varieties tested in 1972 are shown in Tables 1 through 7. Table 6 gives the average performance of 13 varieties grown at five locations in 1972. Table 7 gives the average performance of eight cotton varieties grown at five locations over a 3-year period (1970-72).

Table 1 gives results of the variety test conducted on a Bosket very fine sandy loam soil at Stoneville. This test was planted on April 19 and good stands were obtained. A prolonged summer drought at Stoneville reduced yields but caused the crop to mature early, and first harvest was made on September 13. Yields ranged from 685 to 1,043 pounds of lint per acre.

Table 2 gives the results of the variety tests conducted on a Dundee silty loam soil at Sumner. Rains throughout the summer caused later crop maturity, and the first harvest was made on October 18.

Very wet conditions during the later part of October and November delayed the final harvest until December 7. Yields at Sumner were high and ranged from 1,193 to 1,563 pounds of lint per acre.

Results at Stoneville on a Sharkey

clay soil are presented in Table 3. Yields on this site were higher than usual, which was probably caused by very timely rains during the growing season. Lint yields ranged from 723 to 1,014 pounds per acre. Fiber quality was better on this site than on the sandy soil site at Stoneville.

Table 4 gives the results of the variety test at Yazoo City. The total lint yield ranged from 785 to 1,114 pounds of lint per acre. This test was planted on April 21. It was harvested only once due to the early maturity caused by dry weather. Micronaire values were relatively high and fiber length was short at this location.

Results at Tunica are presented in Table 5. Lint yields ranged from 583 to 886 pounds per acre. This test was harvested only once because of the heavy rains during November and December. About 95% of the crop was harvested in the October 10 picking.

Table 6 gives the average performance of 13 varieties grown at five locations in 1972. Deltapine 5916-65 and Deltapine 25 were the highest-yielding varieties when averaged over all test environments.

The yield of these varieties was fairly consistent from one location to another, as neither variety ever ranked below fifth at any location. Deltapine 652-679, Stoneville 7A, Stoneville 213, Deltapine 16, and Coker 310 also had high average yields.

The average lint yield of eight cotton varieties grown at five locations for a 3-year period (1970-72) are presented in Table 7. The 3-year average shows Deltapine 25 to have the highest lint yields, followed very closely by Deltapine 16, Coker 310, Deltapine 45A, Stoneville 213, and Stoneville 7A.

These data show that varieties play an important part in determining the yield and quality of cotton. Yield is usually the primary consideration in the selection of a variety, but other characteristics such as maturity, fiber quality, disease resistance, and performance consistency should also be considered.

Table 1. Results of 1972 Cotton Variety Test - Stoneville, Mississippi*

	LINT PER ACRE				FIBER PROPERTIES						
	Total	First pick	Percent first pick	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms/tex)	Elongation	Micro-naire
							2.5%	50%			
	(lb.)	(b.)									
Deltapine 652-679	1,043	854	82	40.9	9.6	5.63	1.09	.52	19.30	7.25	4.42
Deltapine 25	1,000	748	75	40.9	10.4	5.68	1.10	.52	20.50	6.82	4.79
Deltapine 5916-65	999	773	77	38.9	10.4	6.03	1.12	.55	20.51	8.44	4.85
Deltapine 16	973	763	78	38.9	10.8	6.29	1.13	.54	20.30	8.20	4.57
Stoneville 213	965	787	82	38.8	10.5	5.59	1.09	.50	19.40	6.52	4.78
Coker 310	959	792	83	39.3	10.8	6.20	1.16	.54	20.36	6.84	4.46
Stoneville 7A	951	708	74	39.6	10.1	5.50	1.11	.51	18.61	6.08	4.61
Coker 5110	947	775	82	37.9	11.1	6.65	1.14	.53	20.59	6.66	4.21
Stoneville 603	941	788	84	37.4	10.6	5.54	1.08	.51	19.77	7.09	4.15
Coker 8103	916	754	82	37.4	11.1	6.63	1.12	.54	20.65	6.41	4.12
Deltapine 45A	916	737	80	38.6	11.0	6.09	1.08	.53	19.72	7.13	4.67
Delcot 277	899	783	87	36.9	12.8	6.82	1.18	.56	22.62	8.22	3.74
McNair 511	808	603	75	35.7	11.1	5.58	1.09	.53	21.56	5.80	4.46
Acala 1517-70	735	546	74	35.8	11.4	5.58	1.14	.55	25.39	5.78	4.53
Lockett 4789A	685	502	73	34.3	12.1	6.36	1.08	.51	20.50	6.39	4.08
C.V.	8.1										
LSD .05	68										

Planted: April 19, 1972

Harvested: September 13 and October 24, 1972

*Soil: Bosket very fine sandy loam

Table 2. Results of 1972 Cotton Variety Test - Summer, Mississippi*

	LINT PER ACRE				FIBER PROPERTIES						
	Total	Firs: pick	Percent first pick	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms/tex)	Elongation	Micronaire
							2.5%	50%			
Deltapine 5916-65	(lb.) 1,563	1,422	91	29.5	11.2	6.33	1.17	.58	19.80	8.51	5.08
Deltapine 25	1,515	1,318	87	40.0	11.9	6.07	1.18	.57	20.64	6.56	4.99
Stoneville 7A	1,515	1,369	90	38.1	12.0	6.03	1.18	.55	19.82	6.20	5.05
Coker 5110	1,501	1,347	90	37.9	13.0	6.77	1.24	.58	19.48	6.91	4.51
Deltapine 652-679	1,494	1,396	93	40.3	11.2	5.98	1.18	.57	18.87	7.42	4.81
Stoneville 213	1,483	1,366	92	37.2	12.5	6.39	1.16	.56	19.58	7.26	5.00
Delcot 277	1,469	1,367	93	36.3	14.5	6.37	1.23	.61	20.70	8.61	4.04
Coker 310	1,464	1,347	92	38.9	12.6	5.90	1.23	.56	20.05	6.07	4.81
Deltapine 45A	1,446	1,296	90	38.9	12.0	5.78	1.14	.57	19.80	7.24	4.83
Deltapine 16	1,441	1,297	90	38.4	12.0	6.59	1.21	.58	19.62	8.09	4.77
Coker 8103	1,426	1,265	89	37.2	13.0	6.42	1.23	.60	21.98	6.11	4.45
Stoneville 603	1,423	1,306	92	36.2	12.7	5.86	1.16	.54	19.13	7.17	4.42
McNair 511	1,193	976	82	35.2	13.7	5.59	1.16	.59	20.90	6.12	4.93
C.V.	7.36										
LSD .05	123										

Planted: April 25, 1972

Harvested: October 18 and December 7, 1972

*Soil: Dundee silty loam

Table 3. Results of 1972 Cotton Variety Test - Stoneville, Mississippi*

LINT PER ACRE				FIBER PROPERTIES						
Total	First pick	Percent first pick	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms/tex)	Elongation	Micro-naire
						2.5%	50%			
(lb.)	(lb.)									
1,014	948	93	38.5	10.5	5.45	1.16	.56	21.01	8.73	4.82
	889	91	39.9	10.4	5.29	1.15	.56	19.86	6.99	4.67
	894	93	39.0	11.3	5.38	1.20	.56	19.71	6.28	4.56
	876	93	38.3	10.8	5.20	1.16	.55	19.65	8.50	4.66
	873	93	39.0	10.0	4.84	1.16	.55	18.18	6.04	4.86
	880	94	40.3	9.7	4.94	1.14	.54	19.13	6.82	4.32
	877	93	38.0	10.9	5.40	1.14	.55	18.96	7.12	4.77
	841	94	37.8	11.1	5.33	1.14	.56	20.44	9.09	4.53
	820	97	37.1	11.1	5.80	1.22	.58	20.36	7.00	4.15
	780	91	37.9	10.8	5.56	1.19	.56	20.28	6.20	4.11
	787	95	36.9	12.6	5.91	1.21	.57	21.50	8.41	3.86
	684	91	36.7	11.0	4.78	1.12	.52	19.70	6.53	4.32
	655	91	35.1	11.4	4.87	1.15	.56	22.35	6.58	4.77
	9.58									
	LDS .05									

Planted: April 11, 1972

Harvested: October 3 and November 6, 1972

*Soil: Sharkey clay

Table 4. Results of 1972 Cotton Variety Test - Yazoo City, Mississippi*

	LINT PER ACRE			FIBER PROPERTIES						
	Total	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms/tex)	Elongation	Micro-naire	
					2.5%	50%				
Deltapine 25	1,114	43.3	10.7	5.41	1.07	.54	18.85	6.76	5.38	
Deltapine 5916-65	1,103	41.1	10.4	5.51	1.09	.55	20.64	8.61	5.25	
Stoneville 213	1,093	40.6	10.5	5.37	1.08	.54	18.80	7.06	4.92	
Stoneville 7A	1,086	41.5	10.5	5.37	1.10	.51	16.95	6.24	5.19	
Stoneville 603	1,057	38.7	11.0	5.13	1.10	.53	20.00	7.68	4.39	
Deltapine 16	1,051	41.3	10.6	5.78	1.09	.52	19.53	8.27	5.02	
Coker 310	1,009	40.6	11.7	5.69	1.17	.56	19.80	6.72	4.83	
Deltapine 652-679	1,006	43.3	9.8	5.26	1.08	.53	18.75	6.82	4.86	
Coker 8103	973	38.7	11.1	5.41	1.16	.55	22.61	6.03	4.48	
Coker 5110	971	40.0	10.9	6.03	1.12	.54	19.70	7.01	4.53	
Deltapine 277	968	39.1	12.5	5.89	1.17	.59	20.81	8.75	4.26	
Deltapine 45A	930	40.6	10.9	5.33	1.05	.53	20.35	7.55	5.11	
McNair 511	785	36.8	12.1	5.33	1.10	.55	19.73	5.96	4.87	
C.V.	10.37									
LSD .05	121									

Planted: April 21, 1972

Harvested: October 5, 1972

*Soil: Sandy loam

Table 5. Results of 1972 Cotton Variety Test - Tunica, Mississippi*

	LINT PER ACRE			FIBER PROPERTIES					
	Total	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms/tex)	Elongation	Micro-naire
					2.5%	50%			
Deltapine 652-679	(lb.) 886	39.8	10.4	5.20	1.12	.53	19.19	6.16	4.63
Deltapine 16	865	38.3	11.5	6.00	1.14	.55	20.37	7.87	4.67
Deltapine 25	860	39.2	11.0	5.49	1.14	.54	19.26	6.22	4.95
Stoneville 7A	859	37.5	11.4	5.53	1.16	.54	18.50	6.15	4.53
Deltapine 5916-65	856	38.5	10.8	5.86	1.15	.57	21.07	7.90	5.12
Stoneville 213	854	37.7	11.6	5.82	1.15	.54	19.68	6.30	4.81
Coker 310	839	40.6	11.2	5.81	1.15	.55	19.50	7.48	4.82
Deltapine 45A	815	38.5	11.3	5.47	1.07	.50	19.35	7.57	5.07
Coker 5110	799	37.6	12.0	6.12	1.17	.56	19.20	7.28	4.57
Stoneville 603	783	36.4	11.3	6.09	1.09	.51	19.62	6.65	4.54
Coker 8103	773	36.7	11.9	5.97	1.20	.58	21.78	6.47	4.26
Delcott 277	731	38.2	12.3	6.44	1.16	.55	21.75	8.01	4.32
Acala 1517-70	710	34.9	13.0	5.85	1.19	.56	25.47	5.56	4.00
McNair 511	680	36.0	11.5	5.15	1.09	.52	20.48	6.09	4.84
Lockett 4789A	583	35.1	12.7	6.61	1.09	.52	18.31	6.18	4.39
C.V.	12.54								
LSD .05	114								

Planted: April 27, 1972

Harvested: October 10, 1972

*Soil: Sandy loam

Table 6. Average Performance of 13 Cotton Varieties at Five Locations in 1972

	LINT PER ACRE			FIBER PROPERTIES					
	Total	Lint percent	Seed index	Boll size (grams)	Length		Strength (gms./tex)	Elongation	Micro-naire
					2.5%	50%			
	(lb.)								
Deltapine 5916-65	1,107	39.3	10.7	5.84	1.14	.56	20.61	8.44	5.02
Deltapine 25	1,093	40.7	10.9	5.59	1.13	.55	19.82	6.67	4.96
Deltapine 652-679	1,074	40.9	10.1	5.40	1.12	.54	19.05	6.89	4.61
Stoneville 7A	1,071	39.1	10.8	5.45	1.14	.53	18.41	6.14	4.85
Stoneville 213	1,067	38.5	11.2	5.71	1.12	.54	19.28	6.85	4.86
Deltapine 16	1,054	39.0	11.1	5.97	1.15	.55	19.89	8.19	4.74
Coker 310	1,047	39.7	11.5	5.80	1.18	.55	19.88	6.68	4.70
Coker 5110	1,019	38.1	11.6	6.27	1.18	.56	19.87	6.97	4.39
Deltapine 45A	1,001	38.9	11.3	5.60	1.10	.54	19.93	7.72	4.84
Stoneville 603	992	37.1	11.3	5.48	1.11	.52	19.64	7.02	4.36
Coker 8103	989	37.6	11.6	6.00	1.18	.57	21.46	6.24	4.28
Delcott 277	979	37.5	12.9	6.29	1.19	.58	21.48	8.40	4.04
McNair 511	838	35.8	12.0	5.30	1.12	.55	21.00	6.11	4.77

Table 7. Average Lint Yield of 8 Cotton Varieties at 5 Locations for a 3-Year Period (1970-72)

VARIETY TEST LOCATION	YEAR	Stoneville 213	Deltapine 16	Deltapine 45A	Stoneville 7A	Stoneville 603	Delcott 277	Coker 310	Deltapine 25
Stoneville (sand)	1970	1305	1308	1285	1304	1127	1122	1187	1411
Stoneville (sand)	1971	1132	1183	1178	1079	1102	1198	1133	1186
Stoneville (sand)	1972	965	973	916	951	941	899	959	1000
Average	--	1134	1155	1126	1111	1057	1073	1093	1199
Stoneville (clay)	1970	311	427	466	346	391	311	403	438
Stoneville (clay)	1971	585	557	551	627	490	611	581	621
Stoneville (clay)	1972	938	942	898	942	754	830	966	975
Average	--	611	642	638	638	545	584	650	678
Yazoo City	1970	1004	997	1011	932	854	780	955	984
Yazoo City	1971	660	654	711	625	620	576	795	752
Yazoo City	1972	1093	1051	930	1086	1057	968	1009	1114
Average	--	919	901	884	881	844	775	920	950
Tunica	1970	789	902	843	778	861	764	824	835
Tunica	1971	932	960	1014	970	890	1022	975	998
Tunica	1972	854	865	815	859	783	731	839	860
Average	--	858	909	891	869	845	839	879	898
Sumner	1970	1356	1357	1339	1329	1259	1142	1345	1359
Sumner	1971	1467	1404	1515	1462	1409	1480	1533	1519
Sumner	1972	1483	1441	1446	1515	1423	1469	1464	1515
Average	--	1435	1401	1433	1435	1364	1364	1447	1464
3-Yr Ave 5 Locations	--	992	1001	995	987	931	927	998	1038

Cotton Variety Performance

in the Hill Section in 1972

Cotton variety tests were planted at six locations in the Hill Section of Mississippi in 1972. The test at Verona was lost because of early fall rains which prevented harvesting. A list of the five locations from which data were obtained, along with soil type and pertinent cultural practices, is given in Table 1.

Twenty varieties were uniformly included in the test at each location. Of these, five were being tested at these locations for the first time. These were: Deltapine 652-67972, Delcotton 277, Coker 5110, Stoneville 7A Nectariless, and Frego Smooth Nectariless.

A list of the varieties tested, lint yields obtained at each location, and average yield in the Hill Section tests in 1972 are given in Table 2, and three-year averages for eleven varieties are given in Table 3.

Yield and yield components that are reported include lint per acre, lint percentage, and bolls per pound of seed cotton. Percent of the total yield obtained at first harvest is also included for the Brooksville location, and may be useful as an indication of earliness of maturity.

Classer's staple length in 32nds inch and micronaire were provided for each variety by the U. S. D. A. Cotton Classing Office, Jackson. Fiber strength, 2.5% span length, and uniformity ratio were obtained from a commercial testing company.

Data for each location in 1972 and three-year averages are given in Tables 3-12.

Table 1. Cultural practices used at cotton variety test locations in 1972.

Location	Soil Type	N-P ₂ O ₅ -K ₂ O Fertilizer	Plot Size		Planting Date
			Length	Width	
State College	Leeper fine sandy loam	70-52-52	ft. 30	no. rows 1	mo./day 5/19
Brooksville	Houston clay	65-65-65	150	1	5/2
Raymond	Grenada silt loam	75-60-60	28	1	5/18
Pontotoc	Atwood silt loam	100-52-52	30	1	4/25
Holly Springs	Grenada silt loam	60-60-60	70	1	5/12

Table 2. Lint yield, in pounds per acre, of 20 cotton varieties tested at 5 locations in the Hill Section in 1972.

Variety	State College	Brooks- ville	Raymond	Pontotoc	Holly Springs	Ave.
Hybee 200A	740	702	964	595	988	797.8
Stoneville 213	642	649	970	630	763	730.8
DES 67-213	630	648	964	597	811	730.0
Stoneville 7A	609	540	994	569	819	706.2
Hybee 100A	654	680	897	546	697	694.8
Deltapine 6225	552	642	960	584	731	693.8
Hancock	489	597	1029	563	773	690.2
Deltapine 16	759	622	892	540	672	687.0
Deltapine 652-67972	469	677	1019	589	640	678.8
Coker 310	675	592	1067	547	497	675.6
Coker 417	713	720	888	489	552	672.4
Dixie King II	333	673	1082	512	694	658.8
Delcort 277	436	568	1015	584	647	650.0
Coker 5110	523	571	989	600	557	648.0
Deltapine 45A	592	560	904	460	617	626.6
Stoneville 7A						
Nectariless	524	446	792	444	882	617.6
La. Frego 2	574	536	818	427	696	610.2
Stoneville 603	377	547	885	534	701	608.8
Coker 201	562	525	809	459	575	586.0
Frego Smooth						
Nectariless	501	712	753	378	347	538.2
Average	567.7	610.3	934.5	532.3	680.4	665.1

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Delta and Pine Land Company, Scott, Mississippi: *Deltapine 6225*, *Deltapine 16*, *Deltapine 652-67972*, *Deltapine 45A*.

Stoneville Pedigreed Seed Company, Stoneville, Mississippi: *Stoneville 213*, *Stoneville 7A*, *Stoneville 603*, *Dixie King II*.

Coker Pedigreed Seed Company, Hartsville, South Carolina: *Coker 310*,

Coker 417, *Coker 5110*, *Coker 201*. Pennington Grain and Seed, Inc., Madison, Georgia: *Hybee 100A*, *Hybee 200A*.

Delta Branch Experiment Station, Stoneville, Mississippi: *DES67-213*.

West Tennessee Experiment Station, Jackson, Tennessee: *Hancock*.

Delta Center, Portageville, Missouri: *Delcot 277*.

Boll Weevil Research Laboratory, Mississippi State, Mississippi: *Stoneville 7A Nectariless*, *La Frego*, *Frego Smooth Nectariless*.

Table 3. Three-year average lint yield of 11 cotton varieties tested at 6 locations in the Hill Section in 1970-1972.

Variety	State College	Brooks-ville	Raymond*	Ponto-toc	Holly Springs	Verona**	Average
Stoneville 213	685	669	1021	873	748	904	816
Coker 310	679	664	1020	613	755	828	759
Deltapine 6225	648	698	975	583	809	829	757
Deltapine 16	738	627	981	617	767	774	750
Hancock	685	685	912	590	801	812	747
Stoneville 7A	611	623	948	575	868	800	737
Coker 417	690	657	920	578	748	814	734
Dixie King II	506	707	977	611	767	814	730
Coker 201	697	609	899	597	708	795	717
Stoneville 603	587	521	904	588	806	822	704
Deltapine 45A	689	631	868	543	703	756	698
Average	654.0	644.6	947.7	615.2	770.9	813.0	741

* Two-year average, 1970 and 1972.

** Two-year average, 1970 and 1971.

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Table 4. Cotton variety performance at the Black Belt Branch Experiment Station, Brooksville, in 1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.	% 1st Picking	Fiber Properties	
	lbs.	%	no.	%	1/32 in.	Index
Coker 417	720	36.0	68	89	35	4.8
Frego Smooth						
Nectariless	712	34.6	71	83	35	4.9
Stoneville 200A	702	38.3	70	89	35	4.8
Stoneville 100A	680	35.3	73	90	35	4.8
Deltapine 652-67972	677	36.5	68	90	35	4.7
Dixie King II	673	39.3	68	88	35	5.1
Stoneville 213	649	37.6	73	88	35	4.8
DES 67-213	648	36.6	67	90	35	4.3
Deltapine 6225	642	36.0	70	91	35	4.6
Deltapine 16	622	34.3	68	90	36	4.5
Hancock	597	35.3	66	93	35	4.4
Coker 310	592	36.6	68	87	36	4.5
Coker 5110	571	35.3	69	88	36	4.5
McCott 277	568	36.3	68	91	36	4.3
Deltapine 45A	560	34.0	73	91	34	4.8
Stoneville 603	547	34.6	66	88	36	4.3
Stoneville 7A	540	36.0	66	88	35	5.1
Stoneville 2	536	31.0	64	86	35	5.0
Coker 201	525	35.3	68	90	36	4.6
Stoneville						
7A Nectariless	446	35.3	71	90	35	4.6
Average	610	35.7	69	89	35	4.7
S.D. at .05	123					
.01	163					

Table 5. Three-year averages, Black Belt Branch Experiment Station, Brooksville, in 1970-1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.	Fiber Properties	
	lbs.	%	no.	1/32 in.	Index
Dixie King II	707	38.3	62	34	4.8
Deltapine 6225	698	39.1	78	35	4.8
Hancock	685	37.3	63	34	4.7
Stoneville 213	669	38.1	74	35	5.0
Coker 310	664	38.7	75	36	4.7
Coker 417	657	36.4	70	35	4.6
Deltapine 45A	631	37.0	76	34	4.9
Deltapine 16	627	36.1	73	35	4.5
Stoneville 7A	623	38.0	72	35	5.1
Coker 201	609	38.2	71	35	4.6
Stoneville 603	521	35.0	73	35	4.5
Average	644	37.4	71	35	4.8

Table 6. Cotton variety performance at the Pontotoc Branch Experiment Station, Pontotoc, 1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.	Fiber Properties	
	lbs.	%	no.	Staple 1/32 in.	Mike Index
Stoneville 213	630	39.1	84	34	5.0
Coker 5110	600	39.2	78	34	4.3
DES 67-213	597	39.3	83	33	4.5
Hybee 200A	595	40.2	82	33	5.1
Deltapine 652-67972	589	42.6	82	34	4.6
Delcote 277	584	39.5	74	35	4.1
Deltapine 6225	584	40.5	81	34	5.1
Stoneville 7A	569	39.4	86	34	4.9
Hancock	563	39.2	70	33	4.8
Coker 310	547	40.1	79	34	4.9
Hybee 100A	546	38.2	76	34	4.7
Deltapine 16	540	38.2	75	34	4.8
Stoneville 603	534	37.4	82	33	4.6
Dixie King II	512	38.6	66	33	4.8
Coker 417	489	38.1	78	34	4.2
Deltapine 45A	460	38.9	86	34	4.3
Coker 201	459	40.6	78	34	4.8
Stoneville 7A Nectariless	444	37.8	82	34	4.8
La Frego 2	427	37.0	79	33	5.3
Frego Smooth Nectariless	378	36.0	95	32	5.3
Average	532	38.9	80	34	4.7
L.S.D. at .05	113				
at .01	150				

Table 7. Three-year averages, Pontotoc Branch Experiment Station, Pontotoc, 1970-1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.	Fiber Properties	
	lbs.	%	no.	Staple 1/32 in.	Mike Index
Deltapine 16	617	39.5	81	34	5.0
Coker 310	613	40.6	74	35	5.0
Stoneville 213	611	39.5	80	34	5.2
Dixie King II	611	39.5	66	33	4.9
Coker 201	597	41.0	76	34	4.9
Hancock	590	40.2	71	33	4.8
Stoneville 603	588	37.8	80	34	4.9
Deltapine 6225	583	41.3	85	34	5.2
Coker 417	578	39.1	77	34	4.5
Stoneville 7A	575	40.1	83	34	5.1
Deltapine 45A	543	49.5	83	34	4.9
Average	591	39.8	78	34	4.9

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Table 8. Cotton variety performance at North Mississippi Branch Experiment Station, Holly Springs, in 1972.

Variety	Fiber Properties							
	Lint/ Acre lbs.	Lint % %	Bolls/ Lbs. no.	Staple Length 1/32 in.	Mike Index	Strength M.P.S.I.	2.5% Span In.	UR %
	Blue 200A	988	43	83	34	4.8	86	1.00
Geneville 7A Nectariless	882	40	82	34	5.2	90	.98	45
Geneville 7A	819	42	83	34	4.9	91	1.02	46
MS 67-213	811	41	83	34	4.8	86	1.03	47
Geneville 213	763	41	82	33	5.2	80	1.00	46
Utlapine 6225	731	44	86	34	5.2	91	1.02	48
Geneville 603	701	39	83	34	4.7	88	1.05	47
Blue 100A	697	40	80	35	4.8	89	1.05	46
El Frego 2	696	40	76	34	5.2	87	1.03	48
ixie King II	694	40	63	33	4.7	90	1.02	46
Mcot 277	647	40	73	34	4.5	90	1.07	48
Utlapine 652-67972	640	43	93	33	4.9	90	1.07	48
Utlapine 16	622	41	81	34	4.8	85	1.03	49
Utlapine 45A	617	41	85	33	5.1	84	1.04	49
oker 201	575	42	80	34	4.8	93	1.03	48
oker 5110	557	40	74	34	4.9	89	1.07	47
oker 417	552	40	85	34	4.5	94	1.07	48
oker 310	497	42	80	34	5.0	94	1.11	47
lego Smooth Nectariless	347	38	95	33	5.4	87	1.01	46
Average	680	41.0	80	34	4.9	89	1.03	47
S.D. at .05	115							
at .01	152							

Table 9. Three-year averages North Mississippi Branch Experiment Station, Holly Springs, 1970-1972.

Variety	Fiber Properties							
	Lint/ Acre lbs.	Lint % %	Bolls/ Lbs. no.	Staple Length 1/32 in.	Mike Index	Strength* M.P.S.I.	2.5%* Span In.	UR* %
	Geneville 7A	868	40.4	74	34	5.2	87	1.08
Utlapine 6225	809	41.8	82	34	5.2	90	1.09	49
Geneville 603	806	39.2	79	34	4.8	85	1.09	47
Antcock	801	40.4	69	33	4.9	87	1.06	47
Utlapine 16	767	39.9	76	34	5.0	82	1.10	49
ixie King II	767	40.0	62	34	5.0	87	1.07	48
oker 310	755	42.4	80	35	5.1	88	1.18	48
oker 417	748	40.4	79	35	4.6	90	1.12	48
Geneville 213	748	40.0	80	34	5.4	79	1.08	48
oker 201	708	41.0	79	34	5.0	90	1.09	49
Utlapine 45A	703	40.6	82	34	5.1	82	1.08	49
Average	770	40.5	76	34	5.0	86	1.09	48

Two-year averages 1971 and 1972.

Table 10. Cotton variety performance at the Brown Loam Branch Experiment Station, Raymond, in 1972.

Variety	Lint/ Acre lbs.	Lint % %	Bolls/ Lbs. no.	Fiber Properties				U %
				Staple Length 1/32 in.	Mike Index	Strength M.P.S.I.	2.5% Span In.	
Dixie King II	1082	39.6	63	34	4.7	84	1.05	4
Coker 310	1067	41.6	77	35	4.7	87	1.15	4
Hancock	1029	40.3	72	33	4.8	93	1.02	4
Deltapine 652-67972	1019	42.3	81	34	4.8	85	1.08	4
Delcot 277	1015	42.3	76	36	4.3	85	1.13	4
Stoneville 7A	994	41.3	95	34	5.0	90	1.08	4
Coker 5110	989	42.3	76	36	4.6	86	1.13	4
Stoneville 213	970	40.0	79	34	5.0	90	1.07	4
DES 67-213	964	40.3	93	34	4.4	87	1.07	4
Hybee 200A	964	39.3	83	35	4.8	89	1.11	4
Deltapine 6225	960	42.0	85	34	5.4	87	1.07	4
Deltapine 45A	904	40.3	80	34	5.0	82	1.05	4
Hybee 100A	897	39.3	78	34	4.7	87	1.12	4
Deltapine 16	892	40.0	72	35	5.0	85	1.08	4
Coker 417	888	39.0	77	35	4.4	93	1.09	4
Stoneville 603	885	38.6	88	35	4.5	89	1.06	4
La. Frego 2	818	40.0	88	33	4.8	91	1.02	4
Coker 201	809	41.0	81	35	4.6	87	1.06	4
Stoneville 7A Nectariless	792	38.3	83	35	4.8	89	1.04	4
Frego Smooth Nectariless	792	35.6	103	32	5.1	88	1.01	4
Average	936	40.4	81	34	4.8	88	1.07	4
L. S. D. at .05	NS							
at .01	NS							

Table 11. Two-year averages Brown Loam Branch Experiment Station, Raymond, 1970 and 1972.

Variety	Lint/ Acre lbs.	Lint % %	Bolls/ Lb. no.	Fiber Properties				U %
				Staple Length 1/32 in.	Mike Index	Strength M.P.S.I.	2.5% Span In.	
Stoneville 213	1021	40.4	79	34	5.2	88	1.08	4
Coker 310	1020	41.3	75	35	4.9	88	1.13	4
Deltapine 16	981	41.7	74	35	5.2	83	1.09	4
Dixie King II	977	38.3	65	34	5.1	84	1.05	4
Deltapine 6225	975	41.6	81	34	5.3	86	1.08	4
Stoneville 7A	948	40.7	87	34	5.3	89	1.09	4
Coker 417	920	38.8	74	34	4.8	90	1.07	4
Hancock	912	40.6	74	34	4.9	90	1.06	4
Stoneville 603	904	38.6	84	35	5.0	87	1.08	4
Coker 201	899	40.6	79	35	5.0	88	1.06	4
Deltapine 45A	868	40.1	77	34	5.3	82	1.08	4
Average	947	40.2	77	34	5.1	87	1.07	4

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Table 12. Cotton variety performance at Central Station, State College, in 1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.
	lbs.	%	no.
Uttapine 16	759	38.2	74
Uttapine 200A	740	40.2	79
Uttapine 417	713	38.1	77
Uttapine 310	675	40.1	76
Uttapine 100A	654	38.2	76
Uttapine 213	642	39.1	79
Uttapine 67-213	630	39.3	81
Uttapine 7A	609	39.4	82
Uttapine 45A	592	38.9	81
Uttapine Frego 2	574	37.0	76
Uttapine 201	562	40.6	76
Uttapine 6225	552	40.5	80
Uttapine 7A			
Uttapine lectariless	524	37.8	79
Uttapine 5110	523	39.2	74
Uttapine Frego Smooth			
Uttapine lectariless	501	36.0	91
Uttapine Hancock	489	39.2	69
Uttapine 652-67972	469	42.6	81
Uttapine Cott 277	436	39.5	72
Uttapine Sneville 603	377	37.4	79
Uttapine King II	333	38.6	65
Uttapine Average	568	38.9	77
Uttapine D. at .05	NS		
Uttapine at .01	NS		

Table 13. Three-year averages, Central Station, State College, 1970-1972.

Variety	Lint/ Acre	Lint %	Bolls/ Lb.
	lbs.	%	no.
Uttapine 16	738	38.3	77
Uttapine 201	697	39.2	78
Uttapine 417	690	38.3	76
Uttapine 45A	689	39.2	81
Uttapine Hancock	685	38.8	69
Uttapine Sneville 213	685	38.7	79
Uttapine 310	679	38.2	79
Uttapine 6225	648	40.4	80
Uttapine Sneville 7A	611	38.8	83
Uttapine Sneville 603	587	38.3	81
Uttapine King II	506	37.8	61
Uttapine Average	655	38.7	77

Table 14. Two-year averages, Northeast Mississippi Branch Experiment Station Verona, in 1970-1971.

<i>Variety</i>	<i>Lint/ Acre</i>	<i>Lint %</i>	<i>Bolls/ Lb.</i>	<i>Fiber Properties</i>	
	lbs.	%	no.	<i>Staple</i> 1/32 in.	<i>Mike</i> Inde
Dixie King II	814	36.4	59	35	4.6
Deltapine 6225	829	39.4	81	35	4.7
Hancock	812	38.5	70	34	4.5
Stoneville 213	904	38.0	79	35	4.9
Coker 310	828	37.9	84	36	4.2
Coker 417	814	36.1	75	36	4.2
Deltapine 45A	756	37.1	80	35	4.8
Deltapine 16	774	37.1	79	35	4.5
Stoneville 7A	800	39.1	81	34	4.8
Coker 201	795	39.1	76	35	4.6
Stoneville 603	822	36.0	80	35	4.7
Average	818	37.7	77	35	4.5