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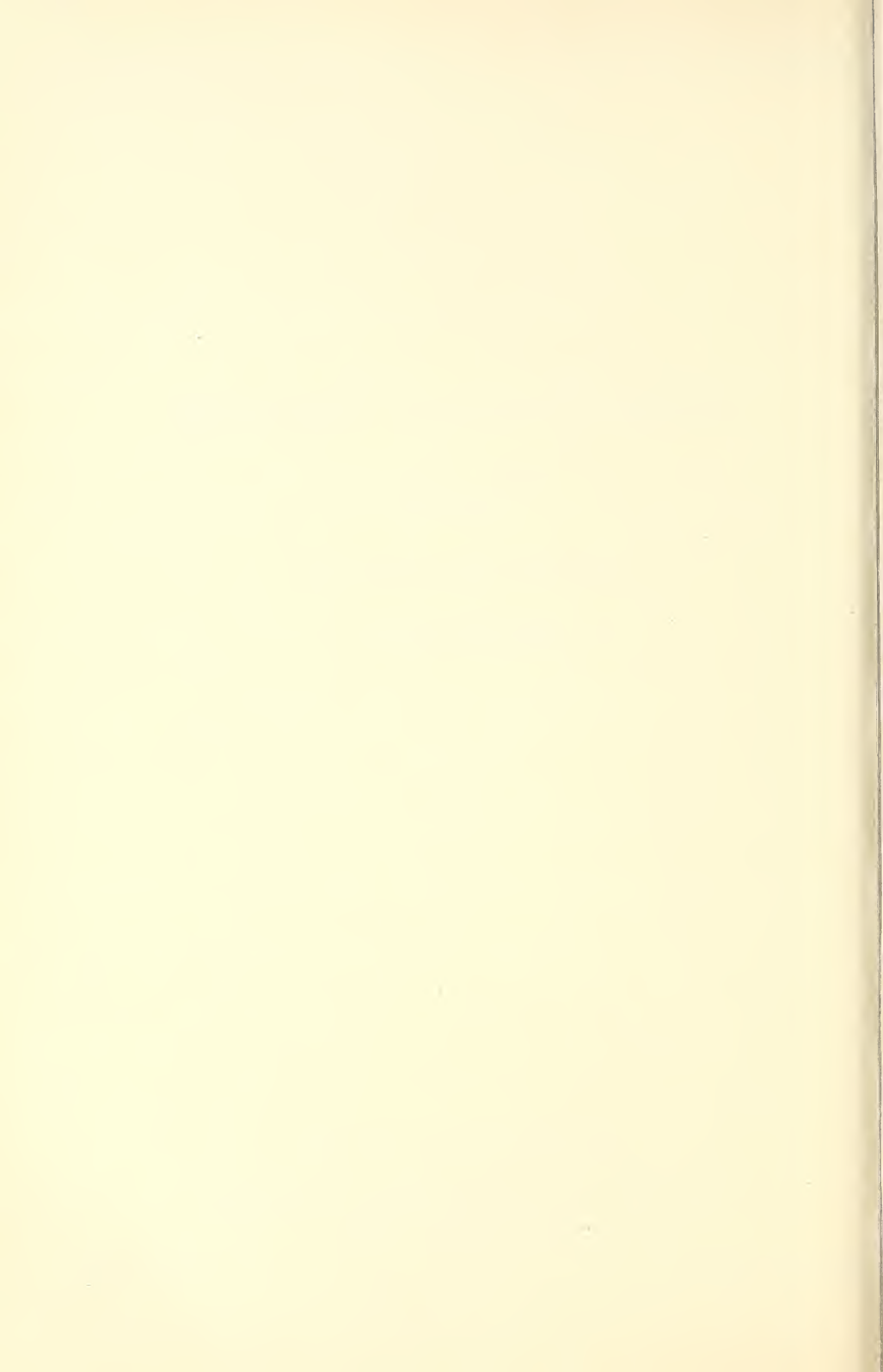
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**1950 Cotton Variety  
Tests  
In Hill Sections of  
Mississippi**

MISSISSIPPI STATE COLLEGE  
AGRICULTURAL EXPERIMENT STATION

FRANK J. WELCH, Director



# 1950 COTTON VARIETY TESTS

## HILL SECTIONS

By J. F. O'Kelly, S. P. Crockett, Louie Walton, and B. C. Hurt, Jr.

In 1950, the cotton producer in Mississippi had a harder fight than usual. Rainfall was at record or near record levels in most of the state from July to mid-September. An initially heavy weevil infestation increased as the season advanced. In some areas there was more boll worm (the corn earworm) than in many years. Damage from insects combined with the weather caused very heavy damage from the boll rots.

Under such handicaps the production of a fair to good yield was possible only through the judicious use of fertilizers and the persistent use of the better insecticides in addition to other good cotton production practices. Under such unusual environment a poor showing was made by some varieties which usually perform quite satisfactorily.

The test at Holly Springs was fertilized before planting with 1000 pounds of 6-8-4 to the acre and was planted May 9. The test was treated twelve times for weevil control. Several varieties which have performed quite well in the past did not yield so well this year.

The fertilizer treatment at State College was 600 pounds 6-8-4 to the acre applied at planting time April 25. During the fruiting season the test area was sprayed five times with toxaphene for weevil control and DDT was added to one spraying for boll worm control. The boll rots were so severe that an estimated 10 to 25 percent of the bolls were unfit to be harvested. It could not be determined if boll rot damage was responsible

for the poor performance of some ordinarily high producing varieties.

The Brooksville test was fertilized before planting with 400 pounds 5-10-5 to the acre and was planted late in April. It was sprayed six times with benzene hexachloride for weevil control.

The tests at Newton have been planted in the same location each year on a soil which has relatively poor internal drainage. Plantings have been made each year on or about the middle of April and fair to good stands have been obtained each year. The fertility practice consists of 600 pounds 6-8-8 applied prior to planting and side dressing with about 30 pounds of nitrogen from ammonium nitrate.

The relatively new varieties in these tests include Fox, Plains, Arkot 2-1, and Pandora. Fox was developed by the Delta and Pine Land Company and has been tried enough to show that it is an excellent cotton for non-wilt soils which need an early and rapid fruiting variety. Plains has considerable wilt resistance and appears to be an excellent general purpose cotton. It was developed by workers at the Alabama Experiment Station. Arkot 2-1 was developed by workers at the Arkansas Experiment Station and appears to be in about the same class as some of the Stoneville strains, but possibly, a little earlier maturing. Pandora is a large leafed wilt resistant variety developed for South Georgia conditions. It is too early to determine if it may find a place in Mississippi.

## STATE COLLEGE

Average results from cotton varieties, State College

	Pounds lint per acre					Averages 1946-1950				
	1946	1947	1948	1949	1950	Lint	Acres value	Staple inches	Lint per cent.	Bolls per lb. lint
Deltapine 15 .....	433.9	398.2	743.4	345.0	555.6	495.2	200.48	1 1/16	39.9	186
Miller ..	418.4	480.1	729.6	308.1	465.3	480.3	190.59	1	38.0	170
Coker, Staple .....	394.2	458.1	708.7	346.7	435.9	468.7	194.89	1 3/32	37.0	194
Bobshaw 1 .....	435.4	422.7	722.6	380.9	344.2	461.2	186.06	1 1/16	36.1	197
Delfos 651 .....	411.9	385.5	699.8	338.9	431.2	453.5	189.32	1 3/32	35.3	208
Coker, Wilt .....	423.0	357.1	707.2	343.0	411.2	448.3	182.76	1 3/32	37.0	187
Delfos 9169 .....	453.4	370.4	693.9	361.3	360.1	447.8	182.30	1 3/32	36.4	186
Hi-Bred ..	379.3	438.8	685.3	340.5	336.3	436.0	161.30	29/32	42.1	149
Stoneville 2B .....	411.6	390.0	726.7	299.7	346.9	435.0	176.80	1 1/16	36.7	182
Empire ..	411.6	364.0	677.9	386.9	307.2	429.5	171.75	1 1/16	37.4	161

Cotton varieties, State College, 1950

	Pounds lint per acre	Acres value seed and lint			Lint percentage	Staple inches	Bolls per lb. lint
		Middling	Strict low middling	Low middling			
Deltapine 15 ..	555.6	266.56	249.61	234.61	40.6	1 3/32	173
Fox ..	490.5	237.59	223.12	210.37	37.6	1 1/16	193
Plains ..	468.6	226.32	212.50	200.32	38.1	1 1/16	168
Miller ..	465.3	221.90	209.33	197.00	37.6	1	167
Coker, Staple ..	435.9	213.29	200.00	188.23	37.1	1 3/32	183
Delfos 651 ..	431.2	217.81	202.93	188.06	36.0	1 1/8	191
Pandora ..	412.1	201.18	189.02	178.31	36.3	1 1/16	169
Coker, Wilt ..	411.2	201.09	188.55	177.45	37.2	1 3/32	176
Bobshaw 1A ..	395.8	189.85	178.18	168.88	38.4	1 1/32	182
Arkot 2-1 ..	375.9	183.98	172.89	163.11	35.9	1 1/16	172
Delfos 9169 ..	360.1	177.50	166.52	156.80	35.9	1 3/32	172
Stoneville 2492 ..	357.4	173.42	162.88	153.59	37.3	1 1/16	164
Stoneville 2B ..	346.9	168.83	158.60	149.58	36.8	1 1/16	169
Bobshaw 1 ..	344.2	169.01	158.85	149.90	35.4	1 1/16	190
Hi-Bred ..	336.3	149.35	143.63	136.90	41.2	7/8	152
Empire ..	307.2	149.52	140.46	132.47	36.8	1 1/16	163

## HOLLY SPRINGS

Average results from cotton varieties, Holly Springs

	Pounds lint per acre					Averages 1946-1950				
	1946	1947	1948	1949	1950	Lint	Acre value	Staple inches	Lint percent.	Bolls per lb. lint
Delfos 9169 .....	395.5	639.2	731.9	562.8	567.7	579.4	237.46	1 1/16	36.5	187
Coker, Staple .....	428.5	621.4	730.8	546.7	565.9	578.7	235.97	1 1/16	37.0	201
Coker, Wilt .....	432.2	622.8	703.1	513.8	573.2	569.0	231.23	1 1/16	37.3	192
Empire ..	444.8	620.0	707.9	564.6	502.2	567.9	227.61	1 1/16	37.8	169
Stoneville 2B .....	414.6	664.9	755.6	456.7	517.9	561.9	228.24	1 1/16	36.6	180
Deltapine 15 .....	421.4	607.7	689.7	551.1	526.1	559.2	221.64	1 1/32	39.9	196
Miller ..	384.2	672.8	741.7	497.8	484.5	556.2	218.11	31/32	38.0	181
Hi-Bred ..	409.8	667.5	745.9	528.2	426.0	555.5	205.49	29/32	41.9	157
Delfos 651 .....	353.0	639.8	675.1	496.3	478.1	528.5	216.68	1 1/16	35.6	212
Bobshaw 1 .....	375.4	624.2	657.3	447.4	471.5	515.2	208.77	1 1/32	36.2	205

Cotton Varieties, Holly Springs, 1950

	Pounds lint per acre	Acre value seed and lint			Lint percentage	Staple inches	Bolls per lb. lint
		Middling	Strict low middling	Low middling			
Plains ..	592.9	278.10	261.80	247.27	39.0	31/32	171
Coker, Wilt .....	573.2	275.25	258.35	244.87	38.2	1 1/32	167
Fox ..	572.0	276.13	259.25	245.81	37.3	1 1/32	198
Delfos 9169 .....	567.7	276.81	260.06	245.30	36.5	1 1/16	179
Coker, Staple ..	565.9	274.28	257.58	242.87	37.5	1 1/16	183
Bobshaw 1A .....	534.5	251.86	237.17	224.07	38.2	31/32	192
Stoneville 2492..	534.5	256.67	240.91	228.35	38.2	1 1/32	161
Arkot 2-1 .....	528.2	257.39	241.81	228.07	36.6	1 1/16	180
Deltapine 15 .....	526.1	248.60	234.40	220.46	39.2	1	185
Stoneville 2B .....	517.9	251.91	236.63	223.17	36.9	1 1/16	174
Pandora ..	502.4	242.25	227.43	215.62	37.5	1 1/32	176
Empire ..	502.2	242.28	227.46	214.41	38.3	1 1/16	153
Miller ..	484.5	226.21	213.13	202.23	38.5	15/16	169
Delfos 651 .....	478.1	234.14	220.83	207.60	35.8	1 1/16	195
Bobshaw 1 .....	471.5	229.15	215.24	204.16	36.2	1 1/32	191
Hi-Bred ..	426.0	187.48	180.88	172.57	41.2	27/32	147

## BROOKSVILLE

Average results from cotton varieties, Brooksville

	Pounds lint per acre			Average	Averages, 1948-1950			Bolls per lb. lint
	1948	1949	1950		Acres value	Staple inches	Lint percentage	
Deltapine 15	229.9	669.9	357.8	41 2	162.24	1 1/16	40.4	202
Empire	196.8	654.7	335.5	395.7	154.97	1 1/16	37.7	174
Stoneville 2B	178.0	653.9	350.6	394.2	156.64	1 3/32	36.5	193
Delfos 651	179.8	592.8	360.0	377.5	151.86	1 3/32	35.8	222
Delfos 9169	181.7	640.8	301.5	374.7	147.93	1 3/32	36.1	207
Coker, Wilt	173.1	614.1	297.1	361.4	141.45	1 1/16	36.9	207
Miller	195.1	549.1	315.3	353.2	136.69	1	38.2	187
Hi-Bred	221.7	620.3	213.7	351.9	125.92	15/16	41.9	165
Coker, Staple	212.1	548.2	274.2	344.8	139.27	1 1/8	36.5	220
Bobshaw 1	176.2	529.7	327.6	344.5	137.97	1 1/16	36.2	208

Cotton varieties, Brooksville, 1950

	Pounds lint per acre	Acres value seed and lint			Lint percentage	Staple inches	Bolls per lb. lint
		Middling	Strict low middling	Low middling			
Fox	391.7	190.23	178.28	167.71	38.4	1 3/32	214
Plains	362.1	176.07	165.02	155.24	38.2	1 3/32	196
Delfos 651	360.0	176.80	165.82	156.10	36.5	1 3/32	214
Deltapine 15	357.8	171.92	161.01	151.35	40.4	1 3/32	207
Bobshaw 1A	355.7	170.62	160.13	151.77	38.4	1 1/32	207
Stoneville 2B	350.6	171.96	161.26	151.80	36.7	1 3/32	192
Arkot 2-1	343.1	168.91	158.44	149.18	36.1	1 3/32	190
Empire	335.5	160.92	151.02	143.14	38.4	1 1/32	173
Stoneville 2492	328.5	159.31	149.62	141.08	37.4	1 1/16	182
Bobshaw 1	327.6	160.88	150.89	142.05	36.5	1 3/32	201
Miller	315.3	149.75	141.24	132.88	38.3	1	187
Delfos 9169	301.5	148.33	139.14	131.00	36.2	1 3/32	198
Coker, Wilt	297.1	144.08	135.31	127.59	37.4	1 1/16	192
Coker, Staple	274.2	138.08	128.62	119.16	36.5	1 1/8	230
Pandora	269.6	130.90	122.95	115.94	37.2	1 1/16	189
Hi-Bred	213.7	97.83	92.06	87.25	42.2	15/16	161

## NEWTON

Average results from cotton varieties, Newton, 1948-1950

	Pounds lint per acre			Average	Averages, 1948-1950			Bolls per lb. lint
	1948	1949	1950		Acres value	Staple inches	Lint percentage	
Empire .. .. .	459.4	283.2	576.6	439.7	182.23	1 1/16	39.0	177
Deltapine 15 ..	459.7	308.2	528.9	432.3	175.63	1 1/16	41.3	205
Stoneville 2B ..	498.8	267.3	518.3	428.1	179.71	1 1/16	38.0	189
Coker, Wilt ..	489.8	258.0	510.2	419.3	173.52	1 1/16	37.6	205
Bobshaw 1 .. .	471.9	245.1	532.6	416.5	174.77	1 1/16	37.0	204
Hi-Bred .. . .	515.4	273.6	420.3	403.1	145.75	7/8	43.0	162
Miller .. . . .	501.6	191.4	495.5	396.2	162.09	1	38.5	192
Delfos 9169 ..	450.8	232.7	474.3	385.9	163.52	1 3/32	37.6	201
Coker, Staple ..	450.4	180.6	463.9	365.0	155.48	1 3/32	37.6	216
Delfos 651 .. .	432.8	223.1	413.9	356.6	148.38	1 1/16	36.8	217

Cotton varieties, Newton, 1950

	Pounds lint per acre	Acres value seed and lint			Lint percentage	Staple inches	Bolls per lb. lint
		Middling	Strict low middling	Low middling			
Stoneville 2492 ..	586.9	285.68	267.78	251.93	38.0	1 3/32	176
Empire .. . . .	576.6	279.88	262.29	246.72	38.5	1 3/32	170
Bobshaw 1A .. .	555.7	267.94	251.55	237.10	38.4	1 1/16	206
Bobshaw 1 .. . .	532.6	261.07	244.83	230.45	36.8	1 3/32	189
Deltapine 15 ..	528.9	255.20	239.07	224.79	39.6	1 3/32	207
Stoneville 2B ..	518.3	259.79	241.91	224.03	37.3	1 1/8	183
Plains .. . . .	518.3	251.65	236.36	222.88	37.2	1 1/16	187
Fox .. . . . .	516.9	250.97	235.73	222.29	37.2	1 1/16	204
Arkot 2-1 .. . .	516.5	259.95	242.13	224.31	36.6	1 1/8	180
Coker, Wilt .. .	510.2	249.51	233.95	220.17	37.2	1 3/32	180
Miller .. . . .	495.5	237.00	223.62	210.49	37.1	1	196
Delfos 9169 .. .	474.3	238.57	222.20	205.84	36.7	1 1/8	195
Coker, Staple ..	463.9	233.89	217.89	201.88	36.3	1 1/8	217
Pandora .. . . .	463.9	226.33	212.65	200.58	36.4	1 1/16	191
Hi-Bred .. . . .	420.3	186.17	179.02	170.61	41.7	7/8	156
Delfos 651 .. .	413.9	203.26	190.63	179.46	36.5	1 3/32	196