



VARIETY TRIALS, 1999



Experiment Station
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Mississippi Agricultural & Forestry Experiment Station
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NOTICE TO USER

This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted under project number MIS-2160 at the Delta Research and Extension Center in Stoneville, MS, and several other locations shown on the map on page 32. It is intended for the use of colleagues, cooperators, and sponsors. The interpretation of data presented herein may change after additional experimentation. Information included herein is not to be construed either as a recommendation for use or as an endorsement of a specific product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station. Trade names of commercial products used in this report are included only for clarity and understanding. All available names (trade names, chemical names, experimental product code names or numbers, etc.) of products used in this research project are listed in the tables contained in this report.

1999 Mississippi Cotton Variety Trials

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Acknowledgment

Most of the variety trial locations are on research stations throughout the state; trials that are planted on commercial farms give an added dimension to the results. While on-farm trials present logistical obstacles to researchers and to producer-cooperators, data from these trials give an important indication of how varieties will perform in “real world” situations. The authors wish to express their appreciation to the Mississippi cotton producers who allowed us to grow these variety trials on their farms and often put up with the aggravation of farming around small-plot research:

Brad Cobb, Tunica
Cliff Heaton, Clarksdale
Steve Skelton, Choctaw
Clark Carter, Rolling Fork
John Henry Miller, Nesbit
Joe Morgan, Petal

Appreciation is also expressed to W. E. Clark, and Luis Ruiz, of the Cotton Improvement Program at Delta Research and Extension Center for their technical assistance.

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This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted under project number, MIS-2160, at the Delta Research and Extension Center in Stoneville, Mississippi, along with several other locations shown on the map. It is intended for the use of colleagues, cooperators, and sponsors. The interpretation of data presented herein may change after additional experimentation. Information included is not to be construed as a recommendation for use or as an endorsement of a specific product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station.

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names or numbers, etc.) of products used in this research project are listed in the tables and footnotes contained in this report.

Abstract

Variety selection is one of the first and perhaps the single most important decisions a cotton producer makes each season. This research is intended to be an aid in making this crucial decision. Certain data will also be of interest to ginner, miller, and other sectors of the cotton industry. The varieties reported on in this publication were submitted by the cottonseed companies.

All varieties, regardless of transgenes present, were evaluated in these tests under standard management practices, including chemical control of tobacco budworm and cotton bollworm with conventional insecticides. The potential advantage of transgenes is not the subject of these tests and was not evaluated.

Varieties submitted for testing were divided into two groups based on maturity classifications determined by the companies submitting each variety. Deltapine NuCotn 33B, Stoneville 474, and Sure-Grow 747 were used as check varieties in tests of both maturity groups. In the “New Varieties” Test, Deltapine NuCotn 33B, Stoneville 474, and Sure Grow 125.

Introduction

The Early Maturing and Mid-Maturity Variety Tests were conducted at six locations in the Delta: Stoneville, Tunica, Clarksdale, Rolling Fork, Choctaw and Tribbett. The Early Maturing and Mid-Maturity Tests were conducted at six Hill locations: Mississippi State, Brooksville (planted on 30-inch rows), Raymond, Holly Springs(no-till), Desoto Co., and Verona. A location was also planted in Petal, MS, but no data is provided.

All tests, with the exception of Brooksville and Choctaw, were planted solid in 38 or 40-inch rows. Each variety was replicated six times at each location (with the exception of only four replications at Verona and Raymond due to land space). Yield determinations were based on the weight of seed cotton mechanically harvested from two-row plots 40 feet in length. Determination of lint fraction, boll size, seed index (weight in grams of 100 fuzzy seed), and fiber properties were made from hand-picked 100-boll samples or from machine-harvested grab samples from three replications at each location. Samples were ginned on a 10-saw laboratory gin. HVI fiber property determinations were made by the Cotton Fiber Laboratory of Louisiana State University, Baton Rouge, LA.

In all tests, seed of each variety were supplied by the company that submitted the variety for testing. Recommended management practices were followed in each test. The on-farm cooperators decided planting dates, fertilizer rates, amount of supplemental irrigation, defoliation date, insect and weed control strategies, and harvest dates. These tests do not encompass all growing and environmental conditions in the state, but they provide a guide to producers in selecting among varieties best suited

for their area or growing conditions. A summary of weather data from three locations in the Mississippi Delta is included in this publication.

At the bottom of each table are summary statistics that are very important in interpreting the test results. Despite efforts to provide a uniform test environment, all experiments are subject to a certain degree of error due to variation between plots arising from differences in soil type, fertility, insect damage, weed pressure, etc. Therefore, yield potential (and performance with respect to other characteristics) cannot be measured with complete accuracy. By conducting replicated trials we can account for or remove some, but not all, of the effect of non-uniform conditions among plots. As a result, the mean performance of some varieties may be numerically different due to natural variation in the data but not statistically different when variability in the test is taken into account. The least significant difference (LSD) is a statistic that estimates the smallest difference between two varieties that should be considered something other than natural variation. For example, if the LSD for lint yield in a given trial is 80 lbs/A, varieties that differ by less than 80 lbs/A should be considered equal in yield. Values in the trials are shown in bold type and shaded background are not significantly different from the variety with the highest value in the same column.

The coefficient of variation (CV) is a measure of relative precision of a given trial and is generally considered to be an estimate of the amount of unexplained variation in that trial. In general, the higher the CV, the less precise a given trial will be. The R-squared value is another measure of relative precision. The higher the R-squared value, the more precise a trial is.

In any single year or location, a given variety may perform extremely well or extremely poor due either to chance variation or to its response to environmental conditions in that particular site and year. In order to avoid being misled by performance in a single year and location, it is wise to base variety selection decisions on as many environments as possible. For this reason we have provided tables that summarize the average lint yields over 2 and 3-year periods at each location and across all locations. While it is hoped that newer varieties will perform better than older varieties, this is not always the case. Greater confidence can be put in varieties that have performed well over 2 or more years than can be put in varieties that are in their first year of testing.

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Table 1. Lint Yield of Entries in the Early Maturing and Mid-Maturity Cotton Variety Trials in Mississippi Delta Environments During 1997-99.

Variety Name Early Maturing Varieties	1999 Lint Yield	1998 Lint Yield	1997 Lint Yield	3 Year	
	(#/A)	(#/A)	(#/A)	Mean	Rank
Sure-Grow 747	1373	1140	1563	1359	1
Sure-Grow 501	1213	1163	1510	1295	2
Stoneville ST 474	1229	1098	1522	1283	3
Paymaster PM 1220 BG/RR	1349	994	1453	1265	4
Paymaster PM 1560 BG	1265	1103	1425	1264	5
Stoneville BXN 47	1254	1060	1474	1263	6
Deltapine DP 20 B	1247	1113	1380	1247	7
Sure-Grow 125	1302	1063	1358	1241	8
Paymaster PM 1220 RR	1363	922	1390	1225	9
Deltapine NuCotn 33 B	1195	1096	1337	1209	10
Terra 292	1177	930	1183	1097	11
Test Mean	1248	1062	1418	1250	

By Location Means	Stoneville	Tunica	Choctaw 30"	Rolling Fork
Sure-Grow 747	1268	1139	1544	1389
Sure-Grow 501	1225	996	1320	1497
Stoneville ST 474	1248	951	1340	1393
Paymaster PM 1220 BG/RR	1175	1049	-----	1326
Paymaster PM 1560 BG	1195	1052	1422	1345
Stoneville BXN 47	1189	929	1419	1308
Deltapine DP 20 B	1291	1038	1288	1388
Sure-Grow 125	1183	1055	1403	1332
Paymaster PM 1220 RR	1252	909	-----	1224
Deltapine NuCotn 33 B	1210	879	1237	1256
Terra 292	1043	-----	1281	1059
Test Mean	1207	1000	1362	1320

Mid-Maturity Varieties	1999 Lint Yield	1998 Lint Yield	1997 Lint Yield	3 Year	
	(#/A)	(#/A)	(#/A)	Mean	Rank
Stoneville ST 474*	1113	1241	1460	1271	1
Paymaster 1560 BG	1160	1189	1425	1258	2
Deltapine NuCotn 33 B*	1104	1156	1230	1163	3
ACSI Fibermax 832	1135	1004	1201	1113	4
Deltapine DP 5415 RR	1032	990	1121	1048	5
ACSI Fibermax 989	885	854	1204	981	6
Test Mean	1087	1093	1274	1139	

By Location Means	Stoneville	Choctaw 30"	Rolling Fork	Tribbett
Stoneville ST 474*	1223	1436	1304	1028
Paymaster 1560 BG	1149	1498	1356	964
Deltapine NuCotn 33B*	1171	1276	1286	966
ACSI Fibermax 832	995	1425	1071	843
Deltapine DP 5415 RR	1006	-----	1158	850
ACSI Fibermax 989	896	1248	928	771
Test Mean	1073	1377	1184	904

*Early Maturity Checks

Table 2a. Lint Yield of Entries in the Early Maturing and Mid-Maturity Cotton Variety Trials Across Mississippi Delta Environments During 1998-99.

Name	1999 Lint Yield	1998 Lint Yield	2 Year	
	(#/A)	(#/A)	Mean	Rank
Paymaster PM 1218 BG/RR	1467	1185	1326	1
PhytoGen PSC 355	1502	1044	1273	2
Sure-Grow 747	1373	1140	1257	3
PhytoGen PSC 952	1340	1165	1253	4
Sure-Grow 105	1345	1134	1240	5
Sure-Grow 501	1213	1163	1188	6
AgriPro AP 7115	1236	1137	1187	7
Paymaster PM 1560 BG	1265	1103	1184	8
Sure-Grow 125	1302	1063	1183	9
Deltapine DP 20 B	1247	1113	1180	10
Deltapine DP 388	1331	1022	1177	11
PhytoGen PSC 636	1295	1052	1174	12
Paymaster PM 1220 BG/RR	1349	994	1172	13
Stoneville ST 474	1229	1098	1164	14
Deltapine DP 428 B	1301	1024	1163	15
Stoneville BXN 47	1254	1060	1157	16
Deltapine NuCotn 33 B	1195	1096	1146	17
Paymaster PM 1220 RR	1363	922	1143	18
Deltapine DP 436 RR	1221	962	1092	19
PhytoGen PSC 569	1097	1074	1086	20
Fibermax 819	1182	963	1073	21
Paymaster PM 1330 BG	1142	983	1063	22
Terra 292	1177	930	1054	23
Deltapine DP 425 RR	1146	923	1035	24
SS 9801	1080	866	973	25
GRAND MEAN	1248	1049	1157	

Table 2b. Lint Yield (lbs/A) of Entries in the Early Maturing and Mid-Maturity Cotton Variety Trials By Location in Mississippi Delta Environments During 1998-99.

Variety Name	Location						
	5 Loc Mean	4 Loc Mean	Stoneville	Tunica	Choctaw 30"	Rolling Fork	Clarksdale
Early Maturing Varieties							
				#/A			
Paymaster PM 1218 BG/RR	-----	1378	1362	925	-----	1603	1624
PhytoGen PSC 355	1286	-----	1229	745	1352	1402	1702
Sure-Grow 747	1303	-----	1120	953	1470	1398	1576
PhytoGen PSC 952	-----	-----	1185	-----	-----	1286	1645
Sure-Grow 105	-----	1212	1086	873	-----	1486	1405
Sure-Grow 501	1200	-----	1097	753	1146	1554	1451
AgriPro AP 7115	1224	-----	1175	879	1215	1457	1393
Paymaster PM 1560 BG	1188	-----	1172	797	1191	1442	1339
Sure-Grow 125	1226	-----	1083	879	1342	1393	1431
Deltapine DP 20 B	1197	-----	1218	851	1231	1496	1188
Deltapine DP 388	-----	1177	1118	869	-----	1337	1385
PhytoGen PSC 636	-----	1258	1025	-----	1269	1275	1465
Paymaster PM 1220 BG/RR	-----	1198	991	838	-----	1373	1590
Stoneville ST 474	1172	-----	1070	733	1207	1401	1452
Deltapine DP 428 B	-----	1173	1057	863	-----	1345	1429
Stoneville BXN 47	1180	-----	1005	722	1283	1349	1541
Deltapine NuCotn 33 B	1152	-----	1158	676	1178	1313	1434
Paymaster PM 1220 RR	-----	1159	1166	703	-----	1222	1545
Deltapine DP 436 RR	-----	1102	1049	749	-----	1229	1380
PhytoGen PSC 569	-----	-----	1004	-----	-----	1143	1476
Fibermax 819	1051	-----	1122	579	980	1157	1421
Paymaster PM 1330 BG	-----	1034	1018	734	-----	1196	1190
Terra 292	-----	1162	1008	-----	1181	1111	1349
Deltapine DP 425 RR	-----	1071	1042	750	-----	1152	1339
SS 9801	-----	939	936	617	-----	1091	1115
Test Mean	1198	1155	1100	785	1234	1328	1434

Mid-Maturity Varieties	5 Loc Mean	4 Loc Mean	Stoneville	Tunica	Choctaw 30"	Rolling Fork	Clarksdale	Tribbett
Sure-Grow 747	1303	-----	1174	-----	1541	1535	1308	959
ACSI Fibermax FM 966	-----	1208	1147	-----	-----	1221	1591	872
Stoneville ST 474	1223	1223	1149	-----	1272	1323	1469	900
Paymaster 1560 BG	1195	1195	1102	-----	1306	1458	1308	803
Paymaster 1440	-----	1121	1066	-----	-----	1365	1282	773
Deltapine NuCotn 33B	1176	-----	1155	-----	1266	1371	1235	854
AgriPro HS 46	-----	1107	986	-----	-----	1182	1497	765
ACSI Fibermax 832	1123	-----	972	-----	1298	1179	1460	705
Deltapine DP 458B/RR	-----	1072	1022	-----	-----	1290	1219	757
Deltapine DP 5415 RR	-----	1055	983	-----	-----	1195	1266	779
AgriPro AP 6101	-----	1048	1022	-----	-----	1134	1278	759
ACSI Fibermax 989	914	-----	805	-----	1099	940	1089	638
Test Mean	1156	1129	1048	-----	1297	1266	1333	797

Table 3. Lint yield of Entries in the Early Maturing Cotton Variety Trials at Mississippi Delta Locations in 1999.

Variety Name	Location											
	Delta Mean		Stoneville		Tunica		Clarksdale		Rolling Fork		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
MISCOT 8806-3-2-19	1545	1	1461	1	1034	2	2085	3	1538	4	1606	2
PhytoGen PSC 355	1513	2	1410	3	898	10	2113	2	1589	3	1567	3
MISCOT 8839-3-10-2	1485	3	1318	9	1033	3	2271	1	1403	16	1387	7
Paymaster PM 1218 BG/RR	1476	4	1458	2	1042	1	2056	4	1692	1	1263	18
ACSI Fibermax FM 958	1405	5	1364	6	873	14	1877	7	1263	25	1622	1
Sure-Grow 747	1398	6	1243	13	1012	4	1867	8	1458	8	1422	5
Paymaster PM 1220 RR	1376	7	1377	5	797	19	1981	6	1344	21	1374	9
Paymaster PM 1220 BG/RR	1361	8	1328	8	838	17	1982	5	1424	15	1245	20
Sure-Grow 105	1349	9	1235	14	938	6	1552	27	1528	5	1522	4
PhytoGen PSC 952	1346	10	1380	4	933	7	1852	9	1345	20	1219	21
Deltapine DP 388	1343	11	1188	23	972	5	1723	13	1378	18	1337	10
Sure-Grow 125	1312	12	1214	18	875	13	1611	22	1513	6	1379	8
Deltapine DP 428 B	1312	13	1197	21	919	8	1778	11	1431	14	1254	19
PhytoGen PSC 636	1301	14	1104	29	917	9	1749	12	1440	12	1317	14
Paymaster PM 1560 BG	1272	15	1227	15	830	18	1519	28	1497	7	1328	11
Stoneville BXN 47	1262	16	1139	27	717	30	1811	10	1352	19	1305	15
AgriPro AP 7115	1246	17	1271	12	771	21	1589	23	1448	10	1187	24
Stoneville ST 474	1239	18	1205	20	797	20	1631	19	1448	9	1149	25
Deltapine DP 20B	1235	19	1283	10	863	15	1355	32	1440	11	1267	17
Deltapine DP 436 RR	1231	20	1219	16	733	26	1586	25	1332	22	1303	16
Sure-Grow 501	1224	21	1210	19	722	29	1614	21	1607	2	1030	31
Deltapine DP 5111	1202	22	1128	28	722	28	1631	18	1213	28	1317	13
Deltapine NuCotn 33 B	1202	23	1190	22	680	32	1649	17	1380	17	1140	26
ACSI Fibermax 819	1192	24	1341	7	737	25	1704	14	1094	31	1069	28
HCR 9220	1189	25	1275	11	861	16	1445	30	1315	23	1070	27
RGC 9811	1185	26	1149	25	591	33	1587	24	1212	29	1388	6
Terra 292	1182	27	1149	26	728	27	1629	20	1222	27	1190	22
SS 9806	1161	28	968	33	883	12	1507	29	1434	13	1060	29
Deltapine DP 425 RR	1157	29	1219	17	746	23	1569	26	1234	26	1031	30
Paymaster PM 1330 BG	1155	30	1039	32	743	24	1389	31	1300	24	1327	12
PhytoGen PSC 569	1110	31	1074	30	885	11	1650	16	1157	30	883	32
SS 9801	1081	32	1065	31	767	22	1298	33	1092	32	1187	23
HCR 7114-46	1070	33	1174	24	690	31	1685	15	918	33	858	33
Test Mean	1276		1230		835		1706		1365		1261	
CV (%)	15		8		19		17		10		14	
LSD (0.10)	63		74		120		216		116		130	
R-squared	0.81		0.66		0.49		0.47		0.68		0.68	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 4. Lint Percent, Seed Index, and Fiber Properties of Entries in the Early Maturing Cotton Variety Trials, Averaged Across Mississippi Delta Locations in 1999.

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
MISCOT 8806-3-2-19	1545	1	36.4	4.8	1.11	84.4	31.7	6.8
PhytoGen PSC 355	1513	2	37.9	5.1	1.10	84.1	32.2	8.1
MISCOT 8839-3-10-2	1485	3	35.5	4.8	1.14	84.2	29.3	6.6
Paymaster PM 1218 BG/RR	1476	4	38.3	4.9	1.09	83.9	28.4	6.9
ACSI Fibermax FM 958	1405	5	38.7	5.0	1.15	84.5	31.9	5.4
Sure-Grow 747	1398	6	38.7	5.2	1.10	84.3	29.2	8.0
Paymaster PM 1220 RR	1376	7	37.7	5.0	1.12	84.3	31.3	7.6
Paymaster PM 1220 BG/RR	1361	8	36.7	5.0	1.11	83.7	29.7	7.1
Sure-Grow 105	1349	9	37.3	5.1	1.11	84.4	30.2	7.0
PhytoGen PSC 952	1346	10	37.4	5.0	1.11	84.0	31.0	7.6
Deltapine DP 388	1343	11	37.2	4.8	1.09	83.5	30.8	7.8
Sure-Grow 125	1312	12	37.3	5.1	1.11	84.5	28.9	7.7
Deltapine DP 428 B	1312	13	34.8	4.8	1.11	83.6	28.3	7.1
PhytoGen PSC 636	1301	14	35.4	4.8	1.11	83.8	29.7	6.5
Paymaster PM 1560 BG	1272	15	37.3	5.1	1.10	83.7	31.6	7.3
Stoneville BXN 47	1262	16	37.9	4.9	1.11	83.9	29.6	6.8
AgriPro AP 7115	1246	17	36.9	4.8	1.11	83.5	29.8	6.8
Stoneville ST 474	1239	18	38.9	5.2	1.10	84.4	29.9	7.0
Deltapine DP 20B	1235	19	36.5	4.4	1.10	83.4	28.6	8.0
Deltapine DP 436 RR	1231	20	34.1	5.0	1.10	84.1	29.0	7.6
Sure-Grow 501	1224	21	38.0	5.0	1.13	84.7	33.2	7.4
Deltapine DP 5111	1202	22	35.0	5.2	1.09	84.2	31.7	6.5
Deltapine NuCotn 33 B	1202	23	34.8	4.8	1.12	83.6	29.9	7.1
ACSI Fibermax 819	1192	24	38.6	4.9	1.15	84.5	32.4	5.8
HCR 9220	1189	25	36.7	4.8	1.08	83.2	28.5	7.5
RGC 9811	1185	26	35.8	4.9	1.11	83.6	30.8	6.7
Terra 292	1182	27	33.2	4.7	1.12	83.7	29.1	7.1
SS 9806	1161	28	35.7	4.8	1.11	83.8	28.7	6.5
Deltapine DP 425 RR	1157	29	34.7	5.0	1.10	83.7	29.0	7.3
Paymaster PM 1330 BG	1155	30	35.0	4.6	1.13	84.5	30.9	6.7
PhytoGen PSC 569	1110	31	36.6	5.1	1.11	84.2	33.8	7.1
SS 9801	1081	32	35.1	5.0	1.14	84.5	32.5	6.4
HCR 7114-46	1070	33	38.1	4.5	1.08	82.9	27.8	7.5
Test Mean	1276		36.6	4.9	1.11	84.0	30.3	7.1
CV (%)	15		2.59	4.53	1.73	0.79	3.51	4.59
LSD (0.10)	63		0.46	0.11	0.01	0.32	0.52	0.16
R-Squared	0.81		0.85	0.76	0.79	0.70	0.84	0.88

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 5. Performance and Lint Yields of Entries in the Early-Maturing Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil at Stoneville, MS, in 1999.

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Variety Name
MISCOT 8806-3-2-19	1461	1	37.9	4.9	1.11	84.0	31.2	6.6	10.8
Paymaster PM 1218 BG/RR	1458	2	40.5	4.7	1.08	83.7	27.9	6.8	9.9
PhytoGen PSC 355	1410	3	39.4	5.2	1.10	83.9	32.3	8.1	10.1
PhytoGen PSC 952	1380	4	38.4	4.9	1.09	83.5	30.9	7.4	10.7
Paymaster PM 1220 RR	1377	5	39.0	4.9	1.10	84.2	31.1	7.6	10.8
ACSI Fibermax FM 958	1364	6	39.3	4.9	1.15	84.5	32.4	4.9	11.5
ACSI Fibermax 819	1341	7	40.0	4.9	1.16	84.8	33.0	5.6	9.8
Paymaster PM 1220 BG/RR	1328	8	38.9	4.9	1.08	83.2	29.2	6.9	10.4
MISCOT 8839-3-10-2	1318	9	36.0	4.7	1.13	83.6	29.6	6.5	10.2
Deltapine DP 20B	1283	10	36.4	4.7	1.09	83.4	28.8	8.1	10.0
HCR 9220	1275	11	36.7	4.8	1.07	82.8	28.5	7.5	10.3
AgriPro AP 7115	1271	12	37.0	4.8	1.09	83.2	29.4	7.0	10.2
Sure-Grow 747	1243	13	38.8	5.1	1.11	84.2	29.6	8.0	10.1
Sure-Grow 105	1235	14	37.4	5.2	1.10	84.3	31.2	7.0	10.3
Paymaster PM 1560 BG	1227	15	38.2	4.7	1.09	83.3	30.9	7.2	9.8
Deltapine DP 436 RR	1219	16	33.5	5.0	1.10	84.3	28.7	7.8	10.8
Deltapine DP 425 RR	1219	17	34.9	5.0	1.08	83.5	28.2	7.4	10.4
Sure-Grow 125	1214	18	37.4	4.8	1.11	84.0	29.7	6.8	10.4
Sure-Grow 501	1210	19	38.2	4.9	1.10	84.1	31.8	7.4	10.1
Stoneville ST 474	1205	20	40.2	5.1	1.08	84.2	29.9	7.0	9.8
Deltapine DP 428 B	1197	21	35.3	4.9	1.10	83.4	28.5	7.0	10.4
Deltapine NuCotn 33 B	1190	22	35.3	5.0	1.09	83.0	28.2	7.0	9.7
Deltapine DP 388	1188	23	36.8	4.7	1.08	83.5	31.0	7.6	10.0
HCR 7114-46	1174	24	39.1	4.2	1.09	82.9	27.2	7.2	9.2
RGC 9811	1149	25	36.0	4.7	1.06	82.8	30.2	6.6	10.8
Terra 292	1149	26	36.1	4.8	1.09	83.0	29.9	7.1	11.7
Stoneville BXN 47	1139	27	37.8	4.8	1.09	82.9	29.3	6.6	10.1
Deltapine DP 5111	1128	28	35.8	5.0	1.08	84.2	31.6	6.3	10.6
PhytoGen PSC 636	1104	29	33.6	4.5	1.10	82.9	29.6	6.7	9.7
PhytoGen PSC 569	1074	30	37.5	5.4	1.10	84.2	34.3	6.9	10.9
SS 9801	1065	31	35.7	5.1	1.11	83.9	33.1	6.6	11.6
Paymaster PM 1330 BG	1039	32	36.1	4.6	1.11	84.6	31.8	6.7	9.8
SS 9806	968	33	34.0	4.9	1.08	83.9	28.9	6.9	10.4

Test Mean	1230		37.2	4.9	1.10	83.7	30.2	7.0	10.4
CV (%)	8		2.87	4.33	1.70	0.77	2.53	4.35	7.7
LSD (0.10)	74		1.13	0.22	0.02	0.68	0.81	0.32	0.9
R-Squared	0.66		0.83	0.62	0.66	0.55	0.88	0.87	0.5

Planted: 10 May; Harvested: 30 Sept. - 8 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 6. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Dundee Sandy Loam at Tunica, MS, in 1999

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Paymaster PM 1218 BG/RR	1042	1	39.4	5.4	1.06	82.9	28.1	6.7
MISCOT 8806-3-2-19	1034	2	36.7	5.1	1.08	83.5	31.6	6.8
MISCOT 8839-3-10-2	1033	3	36.4	5.0	1.12	84.1	29.2	6.2
Sure-Grow 747	1012	4	38.9	5.0	1.06	83.2	28.6	7.8
Deltapine DP 388	972	5	38.5	4.9	1.06	82.6	31.0	7.4
Sure-Grow 105	938	6	37.3	5.1	1.08	83.1	29.7	6.6
PhytoGen PSC 952	933	7	36.7	5.1	1.10	84.0	31.8	7.4
Deltapine DP 428 B	919	8	35.9	4.8	1.08	82.7	27.2	6.8
PhytoGen PSC 636	917	9	37.0	5.1	1.08	83.3	29.7	6.7
PhytoGen PSC 355	898	10	38.6	5.3	1.07	82.7	33.0	7.9
PhytoGen PSC 569	885	11	37.2	5.3	1.08	83.7	36.1	6.8
SS 9806	883	12	37.0	5.2	1.08	82.1	27.9	6.3
Sure-Grow 125	875	13	37.5	5.1	1.09	83.7	29.4	7.7
ACSI Fibermax FM 958	873	14	39.1	5.1	1.11	83.2	31.7	6.0
Deltapine DP 20B	863	15	37.5	4.5	1.05	81.9	27.5	7.5
HCR 9220	861	16	37.0	5.1	1.09	82.2	29.4	7.0
Paymaster PM 1220 BG/RR	838	17	37.3	5.2	1.10	83.2	30.4	6.6
Paymaster PM 1560 BG	830	18	36.6	5.3	1.06	82.9	31.9	7.3
Paymaster PM 1220 RR	797	19	37.8	5.1	1.12	83.8	33.1	6.9
Stoneville ST 474	797	20	39.0	5.2	1.08	83.3	29.5	6.6
AgriPro AP 7115	771	21	37.8	4.9	1.08	83.2	29.6	6.6
SS 9801	767	22	35.5	5.0	1.12	84.1	32.4	6.0
Deltapine DP 425 RR	746	23	35.0	5.0	1.10	83.6	29.7	6.7
Paymaster PM 1330 BG	743	24	35.4	4.5	1.11	83.7	31.0	6.5
ACSI Fibermax 819	737	25	37.0	5.0	1.12	83.7	32.8	6.0
Deltapine DP 436 RR	733	26	34.1	5.1	1.07	83.1	29.9	7.3
Terra 292	728	27	32.9	4.7	1.08	82.2	29.1	6.8
Deltapine DP 5111	722	28	36.5	5.4	1.06	82.7	30.2	6.3
Sure-Grow 501	722	29	37.8	5.1	1.13	83.6	34.6	7.4
Stoneville BXN 47	717	30	38.8	5.2	1.07	83.3	29.2	6.6
HCR 7114-46	690	31	38.4	4.6	1.07	82.5	27.9	7.1
Deltapine NuCotn 33 B	680	32	34.3	5.0	1.12	83.6	31.3	7.0
RGC 9811	591	33	36.8	5.2	1.12	83.7	32.8	6.4

Test Mean	835		37.0	5.0	1.09	83.2	30.5	6.8
CV (%)	19		2.59	4.82	2.42	0.97	5.10	6.07
LSD (0.10)	120		1.02	0.26	0.03	0.86	1.65	0.44
R-Squared	0.49		0.80	0.60	0.54	0.51	0.73	0.70

Planted: 13 May; Harvested: 23 & 24 Sept.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 7. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil at Clarksdale, MS, in 1999.

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
MISCOT 8839-3-10-2	2271	1	35.1	5.2	1.15	84.7	29.7	6.9
PhytoGen PSC 355	2113	2	36.6	5.5	1.11	85.5	34.1	8.3
MISCOT 8806-3-2-19	2085	3	36.2	4.9	1.13	84.5	32.1	6.9
Paymaster PM 1218 BG/RR	2056	4	37.2	5.1	1.10	84.3	29.5	7.2
Paymaster PM 1220 BG/RR	1982	5	36.1	5.2	1.12	84.7	30.6	7.5
Paymaster PM 1220 RR	1981	6	36.6	5.1	1.11	84.5	31.4	7.9
ACSI Fibermax FM 958	1877	7	38.5	5.3	1.14	84.6	31.7	5.3
Sure-Grow 747	1867	8	38.8	5.6	1.11	84.2	29.7	8.1
PhytoGen PSC 952	1852	9	36.9	5.4	1.13	83.9	31.0	7.5
Stoneville BXN 47	1811	10	38.0	5.2	1.12	84.3	30.5	6.9
Deltapine DP 428 B	1778	11	34.1	4.7	1.12	83.3	28.6	7.4
PhytoGen PSC 636	1749	12	35.9	5.1	1.11	83.9	30.0	6.4
Deltapine DP 388	1723	13	36.2	4.8	1.11	83.6	31.6	7.8
ACSI Fibermax 819	1704	14	38.2	5.2	1.15	84.7	33.4	5.7
HCR 7114-46	1685	15	37.5	4.7	1.07	83.4	28.0	8.0
PhytoGen PSC 569	1650	16	35.9	5.1	1.12	84.3	30.8	7.2
Deltapine NuCotn 33 B	1649	17	35.1	4.9	1.12	83.5	30.7	7.3
Deltapine DP 5111	1631	18	34.0	5.4	1.12	84.4	32.9	6.6
Stoneville ST 474	1631	19	39.2	5.7	1.10	84.8	31.0	6.9
Terra 292	1629	20	31.1	4.5	1.14	84.5	29.3	7.2
Sure-Grow 501	1614	21	37.8	5.0	1.13	85.2	33.3	7.5
Sure-Grow 125	1611	22	37.1	5.5	1.09	84.6	29.0	8.0
AgriPro AP 7115	1589	23	35.8	4.8	1.11	83.6	29.9	7.4
RGC 9811	1587	24	35.6	5.1	1.12	83.4	31.0	6.8
Deltapine DP 436 RR	1586	25	33.1	5.1	1.11	84.2	30.4	7.8
Deltapine DP 425 RR	1569	26	34.2	5.2	1.10	84.1	29.6	7.6
Sure-Grow 105	1552	27	36.9	5.6	1.12	84.5	30.4	7.1
Paymaster PM 1560 BG	1519	28	36.7	5.3	1.12	84.1	32.9	7.6
SS 9806	1507	29	34.9	4.4	1.15	84.4	30.5	6.5
HCR 9220	1445	30	36.1	5.1	1.06	83.4	28.0	7.8
Paymaster PM 1330 BG	1389	31	34.2	5.0	1.14	84.7	30.8	6.6
Deltapine DP 20B	1355	32	36.3	3.7	1.12	83.3	30.1	8.0
SS 9801	1298	33	34.0	5.3	1.15	84.5	32.4	6.3

Test Mean	1706		36.1	5.1	1.12	84.2	30.8	7.2
CV (%)	17		2.00	4.34	1.19	0.61	2.31	3.68
LSD (0.10)	216		0.76	0.23	0.01	0.54	0.75	0.28
R-Squared	0.47		0.90	0.84	0.80	0.64	0.87	0.91

Planted: 12 May; Harvested: 4 & 5 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 8. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Commerce Very Fine Sandy Loam Soil at Rolling Fork, MS, in 1999.

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Paymaster PM 1218 BG/RR	1692	1	36.7	4.5	1.09	84.1	26.0	6.8
Sure-Grow 501	1607	2	37.5	5.2	1.13	85.2	32.8	7.1
PhytoGen PSC 355	1589	3	37.0	5.0	1.09	83.8	28.2	7.5
MISCOT 8806-3-2-19	1538	4	34.9	4.7	1.12	85.1	30.9	6.3
Sure-Grow 105	1528	5	36.1	5.1	1.11	85.5	28.2	6.7
Sure-Grow 125	1513	6	36.7	5.1	1.10	86.0	26.7	7.5
Paymaster PM 1560 BG	1497	7	36.1	4.9	1.12	83.1	28.6	6.6
Sure-Grow 747	1458	8	37.3	5.4	1.09	85.7	28.3	7.7
Stoneville ST 474	1448	9	38.3	5.0	1.09	84.5	27.5	6.7
AgriPro AP 7115	1448	10	37.4	5.0	1.10	83.3	27.9	6.5
Deltapine DP 20B	1440	11	35.1	4.8	1.07	83.9	26.4	8.0
PhytoGen PSC 636	1440	12	35.1	4.8	1.13	85.0	28.0	6.2
SS 9806	1434	13	36.7	5.2	1.08	84.8	25.7	6.2
Deltapine DP 428 B	1431	14	33.8	5.0	1.11	83.5	26.4	6.8
Paymaster PM 1220 BG/RR	1424	15	36.2	5.0	1.12	84.2	28.0	6.7
MISCOT 8839-3-10-2	1403	16	33.8	4.8	1.11	84.2	27.5	6.3
Deltapine NuCotn 33 B	1380	17	34.4	4.9	1.11	84.0	28.9	6.7
Deltapine DP 388	1378	18	35.9	4.8	1.05	84.2	29.1	7.7
Stoneville BXN 47	1352	19	37.8	5.0	1.09	84.7	27.7	6.4
PhytoGen PSC 952	1345	20	37.1	5.0	1.08	83.9	29.5	7.4
Paymaster PM 1220 RR	1344	21	36.2	4.8	1.12	84.8	28.8	7.2
Deltapine DP 436 RR	1332	22	32.6	5.0	1.08	84.0	25.9	7.1
HCR 9220	1315	23	36.5	4.9	1.07	83.5	26.7	7.3
Paymaster PM 1330 BG	1300	24	33.9	4.5	1.12	84.3	28.6	6.3
ACSI Fibermax FM 958	1263	25	36.3	4.9	1.16	84.6	29.9	4.9
Deltapine DP 425 RR	1234	26	35.7	5.3	1.09	84.1	26.9	6.9
Terra 292	1222	27	32.3	5.1	1.12	84.1	27.6	6.5
Deltapine DP 5111	1213	28	33.8	5.3	1.07	85.2	30.8	6.1
RGC 9811	1212	29	34.6	5.1	1.09	84.6	28.5	6.4
PhytoGen PSC 569	1157	30	35.5	4.9	1.10	83.9	33.8	6.6
ACSI Fibermax 819	1094	31	38.4	4.9	1.12	83.6	29.9	5.4
SS 9801	1092	32	33.9	5.0	1.14	85.0	31.0	6.2
HCR 7114-46	918	33	36.6	4.8	1.07	82.5	27.0	6.9

Test Mean	1365		35.8	4.9	1.10	84.3	28.4	6.7
CV (%)	10		2.43	5.08	1.96	0.90	4.37	3.67
LSD (0.10)	116		1.14	0.33	0.03	0.99	1.62	0.32
R-Squared	0.68		0.87	0.57	0.73	0.67	0.82	0.93

Planted: 29 Apr.; Harvested: 7 & 12 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 9. Performance of Entries in the Early Maturing Cotton Variety Trial Grown in 30-inch Rows on a Pearson Silt Loam Soil at Choctaw, MS, in 1999.

Variety Name	Lint yield 1999 #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
ACSI Fibermax FM 958	1622	1	39.4	4.6	1.18	85.5	33.4	5.8
MISCOT 8806-3-2-19	1606	2	35.9	4.6	1.14	85.0	32.5	7.2
PhytoGen PSC 355	1567	3	37.5	4.6	1.13	84.7	32.0	8.6
Sure-Grow 105	1522	4	38.3	4.8	1.16	85.2	30.7	7.5
Sure-Grow 747	1422	5	39.1	5.0	1.13	84.7	29.6	8.5
RGC 9811	1388	6	35.7	4.7	1.13	83.8	30.9	7.0
MISCOT 8839-3-10-2	1387	7	35.7	4.5	1.16	84.3	30.2	7.2
Sure-Grow 125	1379	8	37.6	5.0	1.15	84.7	29.0	8.2
Paymaster PM 1220 RR	1374	9	38.6	4.8	1.13	84.5	31.2	8.1
Deltapine DP 388	1337	10	37.9	4.6	1.12	83.9	30.9	8.3
Paymaster PM 1560 BG	1328	11	38.5	5.0	1.14	85.1	32.8	7.6
Paymaster PM 1330 BG	1327	12	35.2	4.5	1.15	85.3	31.6	7.2
Deltapine DP 5111	1317	13	34.6	4.9	1.12	85.0	32.8	6.8
PhytoGen PSC 636	1317	14	35.3	4.4	1.15	84.3	30.5	6.6
Stoneville BXN 47	1305	15	36.9	4.5	1.16	84.8	30.6	7.2
Deltapine DP 436 RR	1303	16	36.7	4.6	1.14	85.1	29.3	7.8
Deltapine DP 20B	1267	17	36.6	4.5	1.13	84.5	29.5	8.5
Paymaster PM 1218 BG/RR	1263	18	37.2	4.6	1.11	84.4	29.9	6.8
Deltapine DP 428 B	1254	19	34.6	4.5	1.15	84.9	30.2	7.4
Paymaster PM 1220 BG/RR	1245	20	35.0	4.7	1.13	83.5	29.9	7.6
PhytoGen PSC 952	1219	21	37.6	4.6	1.13	84.6	31.2	8.1
Terra 292	1190	22	33.1	4.5	1.16	84.7	29.3	7.7
SS 9801	1187	23	35.9	4.7	1.17	85.2	33.3	6.8
AgriPro AP 7115	1187	24	36.8	4.4	1.17	84.3	31.9	6.5
Stoneville ST 474	1149	25	37.4	4.8	1.14	85.2	30.8	7.5
Deltapine NuCotn 33 B	1140	26	35.0	4.5	1.16	84.0	29.9	7.3
HCR 9220	1070	27	36.9	4.4	1.12	84.1	29.2	7.9
ACSI Fibermax 819	1069	28	39.3	4.5	1.21	85.3	32.4	6.2
SS 9806	1060	29	36.1	4.6	1.13	84.0	29.5	6.5
Deltapine DP 425 RR	1031	30	33.9	4.6	1.14	83.4	29.7	7.6
Sure-Grow 501	1030	31	38.3	4.8	1.15	85.4	33.1	7.6
PhytoGen PSC 569	883	32	36.6	4.6	1.13	84.8	34.0	7.7
HCR 7114-46	858	33	38.3	4.2	1.10	83.2	28.4	8.0

Test Mean	1261		36.7	4.6	1.14	84.6	30.9	7.4
CV (%)	14		2.83	4.29	1.28	0.73	2.88	4.39
LSD (0.10)	130		1.10	0.21	0.02	0.65	0.94	0.35
R-Squared	0.68		0.78	0.58	0.76	0.59	0.81	0.87

Planted: 17 May; Harvested: 13 & 14 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 10. Lint Yield of Entries in the Mid-Maturity Cotton Variety Trials at Mississippi Delta Locations in 1999.

Variety Name	Delta Mean		Location											
			Stoneville		Tunica		Clarksdale		Rolling Fork		Tribbett		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
ACSI Fibermax 966	1280	1	1296	2	856	7	1792	1	1242	17	807	3	1679	1
Sure-Grow 747	1223	2	1303	1	766	12	1291	12	1505	4	959	1	1565	2
Deltapine DP 448 B	1164	3	1168	9	852	8	1546	2	1523	2	690	11	1266	16
Paymaster PM 1560 BG	1160	4	1139	14	858	6	1378	7	1400	6	670	16	1557	3
Paymaster PM 1440	1158	5	1209	7	998	2	1236	17	1382	8	636	18	1524	4
OA-36	1149	6	1260	3	793	10	1163	21	1578	1	765	6	1405	8
SS 9815	1138	7	1149	12	937	3	1280	14	1389	7	719	8	1393	10
ACSI Fibermax 832	1135	8	1165	10	707	16	1518	4	1321	11	611	20	1520	5
OA-50	1114	9	1073	16	840	9	1225	18	1320	12	818	2	1442	7
Stoneville ST 474	1113	10	1229	4	702	17	1531	3	1254	15	703	10	1280	14
OA-66	1112	11	1228	5	869	5	1212	20	1141	20	781	4	1449	6
Deltapine DP 675	1108	12	1057	21	1045	1	1248	15	1279	14	774	5	1276	15
OA-77	1108	13	1118	15	935	4	1355	9	1204	18	674	15	1378	11
Deltapine NuCotn 33 B*	1104	14	1160	11	759	13	1314	11	1441	5	688	12	1316	13
Paymaster PM 1560 BG/RR	1092	15	1212	6	668	18			1517	3	678	14	1404	9
Deltapine DP 5415 RR	1032	16	1061	20	731	15	1321	10	1351	10	749	7	1031	22
OA-44	1029	17	1064	19	766	11	1238	16	1063	21	705	9	1345	12
AgriPro AP 6101	1029	18	1143	13	586	21	1437	5	1252	16	637	17	1157	19
HCR 9257	1020	19	1187	8	552	22	1363	8	1300	13	611	21	1153	20
AgriPro HS 46	1009	20	1068	18	588	20	1382	6	1201	19	632	19	1212	17
Deltapine DP 458 B/RR	972	21	1000	22	454	23	1214	19	1370	9	687	13	1175	18
ACSI Fibermax 989	885	22	918	23	668	19	1112	23	925	22	571	22	1123	21
HCR 7126	873	23	1070	17	742	14	1289	13	701	23	416	23	991	23

Test Mean	1087		1142		768		1330		1290		695		1332	
CV (%)	16		7		27		15		15		21		12	
LSD (0.10)	52		59		154		153		154		107		120	
R-squared	0.81		0.75		0.40		0.50		0.63		0.58		0.62	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 11. Lint Percent, Seed Index, and Fiber Properties of Entries in the Mid-Maturity Cotton Variety Trials, Averaged Across Mississippi Delta Locations in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
ACSI Fibermax 966	1280	1	38.0	4.8	1.12	84.3	33.3	5.2
Sure-Grow 747	1223	2	38.0	5.0	1.10	84.2	29.3	8.1
Deltapine DP 448 B	1164	3	35.8	4.7	1.10	83.3	29.4	6.7
Paymaster PM 1560 BG	1160	4	36.8	5.0	1.10	84.0	31.1	7.0
Paymaster PM 1440	1158	5	36.8	4.9	1.09	83.2	29.8	6.8
OA-36	1149	6	36.6	5.1	1.10	83.6	31.0	7.1
SS 9815	1138	7	36.2	4.9	1.10	83.4	31.2	7.0
ACSI Fibermax 832	1135	8	36.4	4.6	1.16	84.5	33.2	5.9
OA-50	1114	9	34.3	4.6	1.13	84.1	30.4	7.2
Stoneville ST 474	1113	10	38.7	5.1	1.10	84.2	30.1	6.9
OA-66	1112	11	35.4	4.7	1.10	83.8	30.2	7.1
Deltapine DP 675	1108	12	36.4	4.9	1.11	84.1	33.1	7.3
OA-77	1108	13	36.4	4.8	1.11	83.2	30.5	6.1
Deltapine NuCotn 33 B*	1104	14	35.4	4.7	1.10	83.3	29.9	7.2
Paymaster PM 1560 BG/RR	1092	15	36.5	4.6	1.10	83.5	29.9	7.0
Deltapine DP 5415 RR	1032	16	37.1	4.9	1.12	83.6	31.5	7.1
OA-44	1029	17	34.6	5.1	1.10	84.2	31.3	6.5
AgriPro AP 6101	1029	18	36.6	4.9	1.12	83.6	31.1	6.9
HCR 9257	1020	19	37.1	4.7	1.10	83.9	30.4	6.8
AgriPro HS 46	1009	20	35.5	4.7	1.12	83.8	32.4	6.5
Deltapine DP 458 B/RR	972	21	36.7	5.0	1.11	83.5	30.7	7.0
ACSI Fibermax 989	885	22	36.7	4.8	1.13	84.4	32.4	6.3
HCR 7126	873	23	37.4	4.8	1.14	83.9	30.2	6.9

Test Mean	1087		36.5	4.8	1.11	83.8	31.0	6.8
CV (%)	16		3.31	5.06	1.83	0.77	3.66	6.31
LSD (0.10)	52		0.53	0.11	0.01	0.28	0.50	0.19
R-Squared	0.81		0.66	0.73	0.77	0.69	0.77	0.83

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 12. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil at Stoneville, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Sure-Grow 747	1303	1	38.2	5.2	1.09	84.1	29.0	8.0	10.14
ACSI Fibermax 966	1296	2	39.0	4.9	1.12	84.3	33.2	4.8	11.64
OA-36	1260	3	36.5	5.3	1.11	83.6	30.5	7.5	10.67
Stoneville ST 474	1229	4	39.5	5.1	1.10	84.0	30.2	7.0	10.58
OA-66	1228	5	36.2	4.9	1.10	83.3	29.6	7.3	11.18
Paymaster 1560 BG/RR	1212	6	36.5	5.0	1.10	84.0	30.7	6.8	10.82
Paymaster 1440	1209	7	37.1	5.2	1.09	82.9	30.4	6.9	9.94
HCR 9257	1187	8	37.4	4.9	1.09	84.0	29.5	6.7	9.83
Deltapine DP 448 B	1168	9	35.6	4.8	1.10	82.9	29.7	6.5	10.53
ACSI Fibermax 832	1165	10	37.5	4.7	1.18	84.5	33.3	5.7	11.02
Deltapine NuCotn 33B	1160	11	34.9	4.9	1.10	82.9	29.4	7.3	10.08
SS 9815	1149	12	36.1	5.1	1.08	82.8	30.5	7.2	9.77
AgriPro AP 6101	1143	13	36.9	4.9	1.12	83.1	30.0	6.6	9.60
Paymaster 1560 BG	1139	14	35.9	4.9	1.10	84.2	30.5	7.2	10.58
OA-77	1118	15	36.8	4.9	1.10	83.0	29.8	6.0	10.58
OA50	1073	16	33.1	4.7	1.16	85.0	31.1	7.3	10.98
HCR 7126	1070	17	37.6	4.6	1.12	83.5	29.4	6.9	9.48
AgriPro HS 46	1068	18	36.0	4.9	1.12	83.5	32.4	6.1	10.53
OA44	1064	19	34.9	5.4	1.08	83.8	31.7	6.7	11.01
Deltapine DP 5415 RR	1061	20	36.7	5.1	1.11	84.0	31.6	6.8	10.19
Deltapine DP 675	1057	21	35.5	5.1	1.11	83.9	31.6	7.0	10.72
Deltapine DP 458B/RR	1000	22	36.5	5.2	1.10	83.0	29.2	7.0	9.18
ACSI Fibermax 989	918	23	37.5	5.0	1.13	84.5	31.8	6.3	11.70

Test Mean	1142		36.6	5.0	1.11	83.7	30.7	6.8	10.47
CV (%)	7		2.58	4.31	1.45	0.85	3.91	5.65	6.60
LSD (0.10)	59		1.00	0.23	0.02	0.75	1.27	0.41	0.74
R-Squared	0.75		0.76	0.56	0.76	0.56	0.63	0.82	0.61

Planted: 10 May; Harvested: 30 Sept. - 8 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 13. Performance of Entries in the Mid-Maturing Cotton Variety Trial Grown on a Dundee Sandy Loam at Tunica, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Deltapine DP 675	1045	1	38.4	5.1	1.10	84.9	34.7	7.2
Paymaster 1440	998	2	37.5	4.8	1.12	83.9	31.3	6.6
SS 9815	937	3	37.4	5.0	1.11	83.6	31.7	7.0
OA-77	935	4	37.0	4.9	1.12	83.8	31.0	5.9
OA-66	869	5	36.1	5.2	1.09	84.1	32.0	6.9
Paymaster 1560 BG	858	6	38.0	5.1	1.11	84.0	32.1	7.2
ACSI Fibermax 966	856	7	38.3	5.3	1.11	84.7	34.5	4.8
Deltapine DP 448 B	852	8	36.6	5.0	1.12	84.2	30.3	6.1
OA50	840	9	35.6	4.5	1.13	83.7	31.4	6.9
OA-36	793	10	37.0	5.2	1.10	84.5	33.3	6.5
OA44	766	11	35.1	5.2	1.11	84.4	31.4	6.2
Sure-Grow 747	766	12	37.8	5.1	1.10	84.4	29.7	8.2
Deltapine NuCotn 33B	759	13	37.1	4.9	1.13	84.5	32.0	6.7
HCR 7126	742	14	38.2	5.0	1.15	85.0	31.7	6.6
Deltapine DP 5415 RR	731	15	37.7	4.8	1.13	84.2	33.3	6.9
ACSI Fibermax 832	707	16	35.5	4.6	1.17	85.1	35.9	5.6
Stoneville ST 474	702	17	38.0	4.7	1.10	84.5	31.6	6.9
Paymaster 1560 BG/RR	668	18	37.4	4.4	1.11	83.6	30.5	6.7
ACSI Fibermax 989	668	19	36.8	4.8	1.12	85.1	33.2	6.2
AgriPro HS 46	588	20	33.2	4.6	1.14	84.9	34.8	6.2
AgriPro AP 6101	586	21	35.9	4.8	1.13	84.2	33.1	6.4
HCR 9257	552	22	37.3	4.8	1.12	84.3	32.4	6.4
Deltapine DP 458B/RR	454	23	35.1	5.1	1.13	84.0	33.0	6.7

Test Mean	768		36.8	4.9	1.12	84.3	32.4	6.6
CV (%)	27		5.30	6.20	2.26	0.83	3.63	5.99
LSD (0.10)	154		2.08	0.32	0.03	0.74	1.25	0.42
R-Squared	0.40		0.43	0.52	0.55	0.43	0.73	0.82

Planted: 13 May; Harvested: 23 & 24 Sept.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 14. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil in Clarksdale, MS in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
ACSI Fibermax 966	1792	1	36.8	5.0	1.11	84.2	33.4	6.1
Deltapine DP 448 B	1546	2	35.0	4.8	1.08	82.7	29.4	6.6
Stoneville ST 474	1531	3	39.4	5.4	1.12	84.8	31.3	6.8
ACSI Fibermax 832	1518	4	36.6	4.8	1.14	83.9	32.6	6.3
AgriPro AP 6101	1437	5	36.1	5.2	1.11	83.7	32.3	7.0
AgriPro HS 46	1382	6	36.0	4.9	1.11	83.4	31.6	7.0
Paymaster PM 1560 BG	1378	7	35.8	5.1	1.12	83.9	31.9	5.9
HCR 9257	1363	8	36.8	4.9	1.11	83.5	30.9	7.0
OA-77	1355	9	36.8	5.0	1.12	83.5	32.0	6.5
Deltapine DP 5415 RR	1321	10	36.3	4.8	1.13	83.7	32.4	6.9
Deltapine NuCotn 33 B*	1314	11	34.4	4.6	1.10	83.1	30.5	7.1
Sure-Grow 747	1291	12	36.6	4.6	1.10	83.7	30.1	7.7
HCR 7126	1289	13	36.7	4.8	1.13	84.7	31.1	7.3
SS 9815	1280	14	35.2	5.0	1.10	83.9	32.9	7.2
Deltapine DP 675	1248	15	35.3	4.7	1.11	83.5	33.4	7.7
OA-44	1238	16	33.8	5.1	1.10	84.8	32.2	6.5
Paymaster PM 1440	1236	17	36.0	5.1	1.09	83.4	30.9	7.0
OA-50	1225	18	33.7	4.8	1.12	84.2	30.7	7.3
Deltapine DP 458 B/RR	1214	19	36.5	5.2	1.08	83.5	31.6	7.4
OA-66	1212	20	33.3	4.8	1.09	83.9	31.5	6.5
OA-36	1163	21	36.2	5.2	1.10	83.1	31.0	7.1
ACSI Fibermax 989	1112	23	37.4	5.0	1.12	84.2	32.0	7.5
Test Mean	1330		35.9	4.9	1.11	83.8	31.6	6.9
CV (%)	15		3.29	4.45	2.25	0.78	4.02	9.71
LSD (0.10)	153		1.25	0.23	0.03	0.70	1.35	0.71
R-Squared	0.50		0.68	0.65	0.41	0.53	0.50	0.45

Planted: 12 May; Harvested: 4 & 5 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 15. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Commerce Very Fine Sandy Loam Soil at Rolling Fork, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
OA-36	1578	1	36.6	5.6	1.10	84.1	30.9	6.8
Deltapine DP 448 B	1523	2	35.7	4.8	1.11	83.8	29.8	6.4
Paymaster 1560 BG/RR	1517	3	36.1	4.8	1.09	83.0	29.0	6.6
Sure-Grow 747	1505	4	38.0	5.4	1.12	84.1	29.9	7.7
Deltapine NuCotn 33B	1441	5	34.8	4.9	1.12	84.1	30.4	6.9
Paymaster 1560 BG	1400	6	36.5	5.3	1.09	83.5	31.3	6.8
SS 9815	1389	7	35.9	5.1	1.10	83.3	30.2	6.5
Paymaster 1440	1382	8	35.8	5.3	1.08	83.1	28.3	6.0
Deltapine DP 458B/RR	1370	9	37.2	5.2	1.12	83.3	30.6	6.6
Deltapine DP 5415 RR	1351	10	36.5	5.2	1.13	83.9	31.4	6.7
ACSI Fibermax 832	1321	11	35.0	4.5	1.17	84.8	31.8	5.7
OA50	1320	12	33.6	4.9	1.14	83.9	29.9	6.9
HCR 9257	1300	13	36.4	5.0	1.09	83.6	30.2	6.2
Deltapine DP 675	1279	14	35.8	5.1	1.11	84.0	33.4	6.8
Stoneville ST 474	1254	15	38.1	5.2	1.09	83.8	28.6	6.4
AgriPro AP 6101	1252	16	37.2	5.5	1.13	83.7	31.7	6.2
ACSI Fibermax 966	1242	17	36.7	4.8	1.13	83.9	32.4	4.7
OA-77	1204	18	34.4	5.2	1.10	82.6	30.3	5.6
AgriPro HS 46	1201	19	35.5	4.8	1.10	82.9	31.7	6.1
OA-66	1141	20	35.3	4.8	1.09	83.5	28.5	7.4
OA44	1063	21	33.8	5.6	1.11	84.8	31.4	5.9
ACSI Fibermax 989	925	22	35.7	5.1	1.13	83.9	33.2	5.5
HCR 7126	701	23	36.8	5.3	1.13	82.9	29.6	6.3

Test Mean	1290		36.0	5.1	1.11	83.6	30.6	6.4
CV (%)	15		2.18	3.17	1.38	0.54	2.29	2.29
LSD (0.10)	154		1.04	0.21	0.02	0.60	0.93	0.19
R-Squared	0.63		0.82	0.87	0.80	0.75	0.89	0.98

Planted: 29 Apr.; Harvested: 7 & 12 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 16. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Forrestdale-like Silty Clay Loam Soil at Tribbett in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Sure-Grow 747	959	1	39.1	4.9	1.07	83.8	28.0	8.1
OA50	818	2	35.5	4.5	1.10	83.2	29.0	6.9
ACSI Fibermax 966	807	3	38.3	4.4	1.10	84.0	31.9	5.0
OA-66	781	4	35.3	4.1	1.08	82.6	28.0	7.0
Deltapine DP 675	774	5	37.0	4.9	1.06	83.0	32.6	6.6
OA-36	765	6	36.7	4.9	1.05	82.4	29.9	6.9
Deltapine DP 5415 RR	749	7	37.7	5.1	1.06	81.7	29.1	7.1
SS 9815	719	8	35.4	4.5	1.07	82.7	30.2	6.6
OA44	705	9	35.3	5.0	1.07	83.4	30.7	6.2
Stoneville ST 474	703	10	39.1	4.9	1.06	83.4	28.0	6.6
Deltapine DP 448 B	690	11	36.4	4.4	1.07	82.4	27.2	6.8
Deltapine NuCotn 33B	688	12	35.9	4.6	1.05	81.8	27.4	6.8
Deltapine DP 458B/RR	687	13	37.8	5.2	1.09	83.1	30.2	6.1
Paymaster 1560 BG/RR	678	14	37.5	4.6	1.06	82.6	28.6	6.9
OA-77	674	15	35.8	4.7	1.07	82.2	29.0	6.1
Paymaster 1560 BG	670	16	36.8	4.9	1.08	83.8	30.6	7.0
AgriPro AP 6101	637	17	36.4	4.8	1.08	82.7	29.8	6.7
Paymaster 1440	636	18	37.2	4.4	1.06	82.5	28.4	6.7
AgriPro HS 46	632	19	36.1	4.6	1.08	82.9	31.2	6.0
ACSI Fibermax 832	611	20	36.8	4.9	1.14	84.0	32.3	5.6
HCR 9257	611	21	36.7	4.6	1.07	82.8	28.5	6.7
ACSI Fibermax 989	571	22	36.0	4.4	1.11	83.4	31.7	6.0
HCR 7126	416	23	37.5	4.9	1.10	83.2	29.3	6.4

Test Mean	695		36.8	4.7	1.08	82.9	29.6	6.5
CV (%)	21		2.45	5.43	1.53	0.74	3.74	3.55
LSD (0.10)	107		0.96	0.27	0.02	0.65	1.18	0.25
R-Squared	0.58		0.74	0.63	0.74	0.63	0.75	0.91

Planted: 26 Apr.; Harvested: 22 Sept.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 17. Performance of Entries in the Mid-Maturing Cotton Variety Trial Grown in 30-inch Rows on a Pearson Silt Loam Soil at Choctaw, MS, in 1999 .

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
ACSI Fibermax 966	1679	1	38.4	4.4	1.14	84.2	33.9	5.4
Sure-Grow 747	1565	2	38.3	5.1	1.13	84.9	29.2	8.8
Paymaster 1560 BG	1557	3	37.9	4.9	1.12	84.4	30.4	8.0
Paymaster 1440	1524	4	36.5	4.7	1.12	83.3	29.1	7.4
ACSI Fibermax 832	1520	5	36.5	4.2	1.18	84.7	32.8	6.5
OA-66	1449	6	36.1	4.5	1.15	85.1	30.9	7.8
OA50	1442	7	33.8	4.5	1.16	84.4	29.8	8.0
OA-36	1405	8	36.8	4.5	1.12	84.0	30.7	7.7
Paymaster 1560 BG/RR	1404	9	36.8	4.3	1.14	84.4	29.7	7.8
SS 9815	1393	10	36.9	4.7	1.15	84.2	31.5	7.6
OA-77	1378	11	36.7	4.4	1.14	83.8	30.9	6.6
OA44	1345	12	34.4	4.6	1.14	84.3	30.7	7.4
Deltapine NuCotn 33B	1316	13	35.3	4.3	1.13	83.9	30.0	8.1
Stoneville ST 474	1280	14	37.8	5.0	1.15	84.5	30.2	7.7
Deltapine DP 675	1276	15	36.5	4.4	1.15	85.1	33.0	8.2
Deltapine DP 448 B	1266	16	35.5	4.3	1.13	84.2	30.2	7.5
AgriPro HS 46	1212	17	36.4	4.1	1.17	84.8	32.5	7.3
Deltapine DP 458B/RR	1175	18	37.1	4.3	1.14	83.7	29.7	7.9
AgriPro AP 6101	1157	19	37.0	4.4	1.13	84.4	29.8	8.4
HCR 9257	1153	20	37.6	4.3	1.13	84.9	31.0	7.3
ACSI Fibermax 989	1123	21	36.7	4.4	1.17	84.9	32.8	6.3
Deltapine DP 5415 RR	1031	22	37.3	4.4	1.15	84.1	30.8	8.0
HCR 7126	991	23	37.4	4.4	1.18	83.9	29.8	7.5
Test Mean	1332		36.7	4.5	1.14	84.4	30.8	7.5
CV (%)	12		2.41	5.66	1.70	0.74	3.47	5.90
LSD (0.10)	120		0.94	0.27	0.02	0.66	1.14	0.47
R-Squared	0.62		0.72	0.65	0.62	0.51	0.69	0.81

Planted: 17 May; Harvested: 13 & 14 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 18. Lint Yield of Entries in the New Varieties Cotton Variety Trials at Mississippi Delta locations in 1999.

Variety Name	Delta Mean		Location											
			Stoneville		Tunica		Clarksdale		Rolling Fork		Tribbett		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
Stoneville ST 4691B	1270	1	1391	1	916	7	1577	2	1713	1	670	17	1428	6
Paymaster PMX 0425	1253	2	1297	2	996	4	1465	6	1395	16	890	1	1498	1
Sure-Grow 125	1209	3	1216	8	1006	3	1439	7	1437	12	760	7	1432	5
Deltapine DP 420 RR	1192	4	1281	4	868	12	1289	11	1490	8	820	2	1455	4
Stoneville ST 4793R	1183	5	1216	7	873	11	1578	1	1604	5	681	15	1215	18
Sure-Grow 125 BR	1177	6	1077	19	903	10	1432	8	1675	4	744	10	1314	13
Deltapine DP 450 B/RR	1171	7	1108	15	840	15	1499	3	1484	9	768	4	1379	9
Sure-Grow 125 RR	1169	8	1142	12	912	8	1273	13	1506	7	767	6	1472	3
Sure-Grow 501BR	1164	9	1212	9	796	17	1270	14	1697	2	722	12	1373	10
Stoneville ST 4892BR	1163	10	1218	6	793	18	1405	10	1678	3	711	13	1257	16
Deltapine DP 409 B/RR	1150	11	1110	14	1009	2	1238	16	1423	15	759	8	1407	7
Deltapine DP 451 B/RR	1146	12	1178	11	932	6	1231	17	1545	6	777	3	1279	15
SS 9901	1146	13	1097	17	966	5	1481	5	1295	17	745	9	1316	12
ARK-8712	1144	14	1291	3	848	13	1241	15	1263	18	768	5	1473	2
Stoneville ST 474	1130	15	1222	5	822	16	1424	9	1463	11	603	18	1301	14
Deltapine DP 429 RR	1110	16	1096	18	1048	1	1282	12	1424	14	684	14	1177	19
Deltapine DP 422 B/RR	1100	17	1203	10	843	14	1201	19	1430	13	738	11	1238	17
HCR 7114	1096	18	1132	13	907	9	1498	4	1065	19	602	19	1367	11
Deltapine NuCotn 33B	1075	19	1099	16	667	19			1477	10	671	16	1382	8

Test Mean	1160		1189		892		1371		1477		730		1356	
CV (%)	14		9		20		17		9		13		12	
LSD (0.10)	49		77		133		174		104		69		126	
R-squared	0.82		0.59		0.27		0.44		0.68		0.70		0.49	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 19. Lint Percent, Seed Index, and Fiber Properties of Entries in the New Varieties Cotton Variety Trials, Averaged Across Mississippi Delta Locations in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Stoneville ST 4691B	1270	1	38.7	4.8	1.11	83.8	29.4	6.9
Paymaster PMX 0425	1253	2	35.9	4.8	1.11	83.8	30.4	7.4
Sure-Grow 125	1209	3	37.4	4.8	1.10	83.9	29.0	7.9
Deltapine DP 420RR	1192	4	36.8	4.7	1.08	83.1	28.5	7.6
Stoneville ST 4793R	1183	5	40.0	5.0	1.09	83.4	29.8	6.9
Sure-Grow 125 BR	1177	6	35.7	4.9	1.09	83.4	29.4	7.7
Deltapine DP 450 B/RR	1171	7	33.2	4.9	1.10	84.1	28.8	7.2
Sure-Grow 125 RR	1169	8	37.0	4.8	1.07	83.3	29.0	7.9
Sure-Grow 501BR	1164	9	36.5	5.1	1.09	84.2	31.8	7.6
Stoneville ST 4892BR	1163	10	39.8	4.9	1.09	83.8	30.3	6.9
Deltapine DP 409 B/RR	1150	11	36.2	4.7	1.09	82.8	29.5	7.0
Deltapine DP 451 B/RR	1146	12	34.2	5.0	1.11	83.6	29.0	6.8
SS 9901	1146	13	36.6	4.8	1.09	83.0	30.9	7.0
ARK-8712	1144	14	35.0	4.8	1.13	84.5	31.6	7.2
Stoneville ST 474	1130	15	38.8	5.1	1.10	83.5	29.4	6.9
Deltapine DP 429 RR	1110	16	35.9	4.7	1.09	83.1	29.6	6.9
Deltapine DP 422 B/RR	1100	17	35.3	4.6	1.08	83.1	28.5	8.0
HCR 7114	1096	18	38.2	4.5	1.08	83.0	27.8	7.5
Deltapine NuCotn 33B	1075	19	35.1	4.7	1.11	83.1	30.4	7.1

Test Mean	1160		36.6	4.8	1.10	83.5	29.6	7.3
CV (%)	14		2.07	4.94	1.56	0.74	3.11	3.43
LSD (0.10)	49		0.33	0.11	0.01	0.27	0.41	0.11
R-Squared	0.82		0.92	0.74	0.82	0.69	0.81	0.87

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 20. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil at Stoneville, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville ST 4691B	1391	1	38.9	5.0	1.12	83.7	29.7	6.5	11.40
Paymaster PMX 0425	1297	2	35.9	4.9	1.08	83.7	30.5	7.4	10.53
ARK-8712	1291	3	35.0	4.7	1.13	84.6	31.1	7.2	10.52
Deltapine DP 420RR	1281	4	36.4	4.7	1.07	83.0	29.0	7.7	10.25
Stoneville ST 474	1222	5	39.2	4.9	1.09	83.4	29.4	6.9	10.34
Stoneville ST 4892BR	1218	6	39.9	5.0	1.08	83.5	30.4	6.9	10.58
Stoneville ST 4793R	1216	7	40.1	4.8	1.10	83.7	30.4	6.4	10.54
Sure-Grow 125	1216	8	36.7	4.9	1.10	83.6	29.3	7.9	10.85
Sure-Grow 501 BR	1212	9	35.6	5.2	1.09	83.6	31.6	7.5	11.31
Deltapine DP 422 B/RR	1203	10	35.2	4.6	1.08	83.0	28.9	8.0	10.75
Deltapine DP 451 B/RR	1178	11	33.9	5.0	1.11	83.3	29.1	7.0	11.21
Sure-Grow 125 RR	1142	12	36.7	4.8	1.04	82.8	28.3	8.2	10.32
HCR 7114	1132	13	39.3	4.2	1.08	82.9	27.8	7.6	9.91
Deltapine DP 409 B/RR	1110	14	35.3	4.6	1.08	82.2	29.4	6.7	10.33
Deltapine DP 450 B/RR	1108	15	32.8	4.9	1.08	83.8	28.9	7.5	11.55
Deltapine NuCotn 33B	1099	16	34.4	4.8	1.11	83.4	30.3	7.0	9.68
SS 9901	1097	17	35.8	5.0	1.10	82.0	30.8	6.8	9.39
Deltapine DP 429 RR	1096	18	35.2	4.6	1.10	82.2	29.6	6.8	9.92
Sure-Grow 125 BR	1077	19	34.4	4.8	1.09	83.1	29.9	7.5	10.77

Test Mean	1189		36.3	4.8	1.09	83.2	29.7	7.2	10.54
CV (%)	9		1.76	4.66	1.35	0.59	2.89	3.41	5.89
LSD (0.10)	77		0.68	0.24	0.02	0.52	0.92	0.26	0.66
R-Squared	0.59		0.95	0.60	0.75	0.72	0.66	0.87	0.57

Planted: 10 May; Harvested: 30 Sept. - 8 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 21. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Dundee Sandy Loam at Tunica, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Deltapine DP 429 RR	1048	1	36.6	5.2	1.08	83.1	30.4	6.6
Deltapine DP 409 B/RR	1009	2	38.0	5.3	1.09	82.3	29.7	6.6
Sure-Grow 125	1006	3	38.4	5.0	1.10	84.1	29.3	8.0
Paymaster PMX 0425	996	4	36.8	5.1	1.12	84.2	32.4	7.2
SS 9901	966	5	37.8	5.2	1.08	83.4	31.9	7.0
Deltapine DP 451 B/RR	932	6	35.4	5.2	1.12	84.6	29.6	6.5
Stoneville ST 4691B	916	7	38.5	4.5	1.12	84.7	30.8	6.9
Sure-Grow 125 RR	912	8	37.4	5.0	1.07	83.8	30.9	7.3
HCR 7114	907	9	37.9	4.6	1.08	84.2	28.4	7.2
Sure-Grow 125 BR	903	10	36.6	5.1	1.07	83.8	29.9	7.5
Stoneville ST 4793R	873	11	40.0	5.1	1.09	83.5	30.9	7.2
Deltapine DP 420RR	868	12	36.6	4.9	1.05	83.0	27.9	7.1
ARK-8712	848	13	35.9	4.9	1.12	85.0	33.9	7.1
Deltapine DP 422 B/RR	843	14	35.9	4.7	1.08	83.0	28.6	7.5
Deltapine DP 450 B/RR	840	15	34.8	5.3	1.07	83.8	28.8	6.7
Stoneville ST 474	822	16	36.6	5.7	1.08	83.3	30.1	6.5
Sure-Grow 501 BR	796	17	36.5	5.2	1.08	84.1	32.8	7.4
Stoneville ST 4892BR	793	18	40.3	4.7	1.10	83.9	30.7	7.1
Deltapine NuCotn 33B	667	19	34.6	5.3	1.12	84.4	32.6	6.9

Test Mean	892		37.1	5.1	1.09	83.8	30.5	7.1
CV (%)	20		2.64	5.09	1.83	0.93	3.44	3.91
LSD (0.10)	133		1.05	0.27	0.02	0.83	1.12	0.29
R-Squared	0.27		0.79	0.68	0.71	0.59	0.80	0.76

Planted: 13 May; Harvested: 23 & 24 Sept.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 22. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Bosket Very Fine Sandy Loam Soil in Clarksdale, MS in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Stoneville ST 4793R	1578	1	39.9	5.5	1.10	84.1	30.5	7.4
Stoneville ST 4691B	1577	2	38.7	5.2	1.11	84.2	30.0	7.4
Deltapine DP 450 B/RR	1499	3	32.0	4.9	1.13	84.3	29.9	7.1
HCR 7114	1498	4	37.4	4.7	1.10	82.9	30.1	7.4
SS 9901	1481	5	37.2	5.0	1.09	82.7	31.3	7.5
Paymaster PMX 0425	1465	6	34.9	5.0	1.11	83.8	30.7	7.7
Sure-Grow 125	1439	7	36.4	5.0	1.10	83.9	30.0	7.9
Sure-Grow 125 BR	1432	8	34.9	5.0	1.08	84.2	30.5	7.8
Stoneville ST 474	1424	9	38.2	5.3	1.11	83.9	30.9	7.2
Stoneville ST 4892BR	1405	10	39.5	4.8	1.11	84.4	31.6	7.0
Deltapine DP 420RR	1289	11	35.9	4.7	1.08	83.3	29.1	7.5
Deltapine DP 429 RR	1282	12	35.5	4.9	1.07	83.2	30.7	7.1
Sure-Grow 125 RR	1273	13	35.8	5.0	1.09	83.4	30.7	7.9
Sure-Grow 501BR	1270	14	35.2	5.1	1.09	84.8	32.6	7.8
ARK-8712	1241	15	32.9	4.9	1.10	83.7	31.8	7.5
Deltapine DP 409 B/RR	1238	16	35.1	4.6	1.13	83.7	32.0	7.7
Deltapine DP 451 B/RR	1231	17	32.8	5.1	1.10	83.1	31.4	6.9
Deltapine DP 422 B/RR	1201	19	34.1	4.7	1.07	83.2	29.9	8.4

Test Mean	1371		35.9	4.9	1.10	83.7	30.7	7.5
CV (%)	17		1.81	5.66	1.76	0.49	3.91	3.12
LSD (0.10)	174		0.69	0.30	0.02	0.44	1.28	0.25
R-Squared	0.44		0.95	0.58	0.57	0.79	0.45	0.79

Planted: 12 May; Harvested: 4 & 5 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 23. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Commerce Very Fine Sandy Loam Soil at Rolling Fork, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Stoneville ST 4691B	1713	1	38.2	5.0	1.11	83.6	27.4	6.5
Sure-Grow 501 BR	1697	2	37.1	5.5	1.08	84.6	30.7	7.3
Stoneville ST 4892BR	1678	3	39.5	5.4	1.11	83.7	28.7	6.7
Sure-Grow 125 BR	1675	4	36.9	5.4	1.10	83.4	28.1	7.4
Stoneville ST 4793R	1604	5	40.1	5.1	1.09	83.1	28.6	6.5
Deltapine DP 451 B/RR	1545	6	34.5	5.3	1.12	83.4	27.0	6.5
Sure-Grow 125 RR	1506	7	37.2	5.1	1.07	83.4	27.1	7.8
Deltapine DP 420RR	1490	8	37.8	5.1	1.08	82.9	26.6	7.5
Deltapine DP 450 B/RR	1484	9	32.8	5.2	1.11	84.3	27.2	7.0
Deltapine NuCotn 33B	1477	10	36.0	4.7	1.10	82.4	28.9	6.9
Stoneville ST 474	1463	11	39.6	5.4	1.11	83.4	28.3	6.3
Sure-Grow 125	1437	12	37.9	5.1	1.11	83.8	27.7	7.7
Deltapine DP 422 B/RR	1430	13	36.2	4.8	1.09	83.3	26.5	7.9
Deltapine DP 429 RR	1424	14	36.2	4.9	1.11	83.9	28.2	6.7
Deltapine DP 409 B/RR	1423	15	35.9	5.2	1.08	83.3	27.8	6.6
Paymaster PMX 0425	1395	16	35.7	5.0	1.12	82.5	27.7	7.0
SS 9901	1295	17	35.3	4.7	1.11	83.4	30.0	6.4
ARK-8712	1263	18	35.0	5.1	1.14	84.5	31.0	6.8
HCR 7114	1065	19	38.8	4.6	1.08	82.5	25.0	7.3

Test Mean	1477		36.9	5.1	1.10	83.4	28.0	7.0
CV (%)	9		1.39	2.30	1.52	0.79	2.95	2.83
LSD (0.10)	104		0.68	0.16	0.02	0.88	1.10	0.26
R-Squared	0.68		0.96	0.91	0.68	0.64	0.86	0.93

Planted: 29 Apr.; Harvested: 7 & 12 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 24. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Forrestdale-like Silty Clay Loam Soil at Tribbett in 1999.

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Paymaster PMX 0425	890	1	36.7	4.3	1.09	83.7	30.3	7.1
Deltapine DP 420RR	820	2	37.5	4.4	1.07	83.0	28.4	7.5
Deltapine DP 451 B/RR	777	3	35.3	4.8	1.07	83.3	27.1	6.7
Deltapine DP 450 B/RR	768	4	33.6	4.7	1.08	83.8	28.5	7.0
ARK-8712	768	5	35.8	4.3	1.13	83.5	31.0	6.9
Sure-Grow 125 RR	767	6	37.4	4.6	1.03	83.1	28.1	7.8
Sure-Grow 125	760	7	37.2	4.3	1.06	83.7	27.8	7.7
Deltapine DP 409 B/RR	759	8	37.0	4.6	1.06	82.4	28.1	6.9
SS 9901	745	9	36.8	4.6	1.05	82.3	29.4	6.6
Sure-Grow 125 BR	744	10	35.3	4.5	1.07	82.5	28.5	7.6
Deltapine DP 422 B/RR	738	11	35.7	4.3	1.06	82.3	27.6	7.7
Sure-Grow 501 BR	722	12	36.9	4.7	1.05	82.9	31.2	7.6
Stoneville ST 4892BR	711	13	40.2	4.9	1.05	83.1	29.2	6.4
Deltapine DP 429 RR	684	14	35.7	4.5	1.06	83.0	29.3	6.5
Stoneville ST 4793R	681	15	40.2	5.0	1.05	82.6	28.7	6.5
Deltapine NuCotn 33B	671	16	35.7	4.7	1.08	82.4	29.2	6.8
Stoneville ST 4691B	670	17	38.7	4.9	1.07	82.9	28.5	6.6
Stoneville ST 474	603	18	39.4	4.8	1.06	83.3	28.2	6.9
HCR 7114	602	19	39.1	4.4	1.05	82.7	26.3	7.5

Test Mean	730		37.1	4.6	1.07	83.0	28.7	7.1
CV (%)	13		2.51	5.88	1.55	0.88	2.91	3.45
LSD (0.10)	69		0.99	0.29	0.02	0.78	0.89	0.26
R-Squared	0.70		0.86	0.53	0.71	0.46	0.78	0.85

Planted: 26 Apr.; Harvested: 22 Sept.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 25. Performance of Entries in the New Varieties Cotton Variety Trial Grown in 30-inch Rows on a Pearson Silt Loam Soil at Choctaw, MS, in 1999 .

Variety Name	Lint Yield #/A	Rank	Lint percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Paymaster PMX 0425	1498	1	35.4	4.7	1.13	84.2	30.2	7.6
ARK-8712	1473	2	35.2	4.7	1.18	85.5	30.8	7.4
Sure-Grow 125 RR	1472	3	37.6	4.6	1.11	83.2	28.4	8.3
Deltapine DP 420 RR	1455	4	37.1	4.6	1.12	83.5	29.1	8.2
Sure-Grow 125	1432	5	37.9	4.7	1.15	84.5	29.3	8.3
Stoneville ST 4691B	1428	6	39.3	4.4	1.15	83.9	29.6	7.2
Deltapine DP 409 B/RR	1407	7	36.0	4.2	1.13	83.4	29.4	7.4
Deltapine NuCotn 33B	1382	8	35.4	4.5	1.13	83.3	30.2	7.4
Deltapine DP 450 B/RR	1379	9	33.0	4.8	1.15	84.7	28.9	7.9
Sure-Grow 501 BR	1373	10	37.7	4.8	1.13	85.2	31.8	8.0
HCR 7114	1367	11	37.1	4.2	1.10	82.5	28.1	7.9
SS 9901	1316	12	36.3	4.5	1.14	84.5	31.6	7.4
Sure-Grow 125 BR	1314	13	36.5	4.8	1.12	83.7	29.1	8.1
Stoneville ST 474	1301	14	39.7	4.7	1.13	83.6	29.1	7.4
Deltapine DP 451 B/RR	1279	15	33.6	4.6	1.15	83.7	29.3	7.0
Stoneville ST 4892BR	1257	16	39.5	4.9	1.12	84.1	30.6	7.2
Deltapine DP 422 B/RR	1238	17	35.0	4.6	1.11	83.6	28.6	8.4
Stoneville ST 4793R	1215	18	39.7	4.7	1.12	83.4	29.5	7.4
Deltapine DP 429 RR	1177	19	36.0	4.2	1.13	83.3	29.3	7.5

Test Mean	1356		36.7	4.6	1.13	83.9	29.6	7.7
CV (%)	12		1.67	4.28	1.30	0.68	2.02	3.49
LSD (0.10)	126		0.65	0.21	0.02	0.61	0.64	0.29
R-Squared	0.49		0.94	0.70	0.70	0.71	0.82	0.79

Planted: 17 May; Harvested: 13 & 14 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 26. Lint Yields of Entries in the Delta By Transgenic Traits in the Early Maturing Cotton Variety Trials at Mississippi Delta Locations in 1999.

Variety Name	Delta Mean		Location									
			Stoneville		Tunica		Clarksdale		Rolling Fork		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL												
MISCOT 8806-3-2-19	1545	1	1461	1	1034	2	2085	3	1538	4	1606	2
PhytoGen PSC 355	1513	2	1410	3	898	10	2113	2	1589	3	1567	3
MISCOT 8839-3-10-2	1485	3	1318	9	1033	3	2271	1	1403	16	1387	7
ACSI Fibermax FM 958	1405	5	1364	6	873	14	1877	7	1263	25	1622	1
Sure-Grow 747	1398	6	1243	13	1012	4	1867	8	1458	8	1422	5
Sure-Grow 105	1349	9	1235	14	938	6	1552	27	1528	5	1522	4
PhytoGen PSC 952	1346	10	1380	4	933	7	1852	9	1345	20	1219	21
Deltapine DP 388	1343	11	1188	23	972	5	1723	13	1378	18	1337	10
Sure-Grow 125	1312	12	1214	18	875	13	1611	22	1513	6	1379	8
PhytoGen PSC 636	1301	14	1104	29	917	9	1749	12	1440	12	1317	14
AgriPro AP 7115	1246	17	1271	12	771	21	1589	23	1448	10	1187	24
Stoneville ST 474	1239	18	1205	20	797	20	1631	19	1448	9	1149	25
Sure-Grow 501	1224	21	1210	19	722	29	1614	21	1607	2	1030	31
Deltapine DP 5111	1202	22	1128	28	722	28	1631	18	1213	28	1317	13
ACSI Fibermax 819	1192	24	1341	7	737	25	1704	14	1094	31	1069	28
HCR 9220	1189	25	1275	11	861	16	1445	30	1315	23	1070	27
RGC 9811	1185	26	1149	25	591	33	1587	24	1212	29	1388	6
Terra 292	1182	27	1149	26	728	27	1629	20	1222	27	1190	22
SS 9806	1161	28	968	33	883	12	1507	29	1434	13	1060	29
PhytoGen PSC 569	1110	31	1074	30	885	11	1650	16	1157	30	883	32
SS 9801	1081	32	1065	31	767	22	1298	33	1092	32	1187	23
HCR 7114-46	1070	33	1174	24	690	31	1685	15	918	33	858	33
BOLLGARD (Bt)												
Deltapine DP 428 B	1312	13	1197	21	919	8	1778	11	1431	14	1254	19
Paymaster PM 1560 BG	1272	15	1227	15	830	18	1519	28	1497	7	1328	11
Deltapine DP 20B	1235	19	1283	10	863	15	1355	32	1440	11	1267	17
Deltapine NuCotn 33 B	1202	23	1190	22	680	32	1649	17	1380	17	1140	26
Paymaster PM 1330 BG	1155	30	1039	32	743	24	1389	31	1300	24	1327	12
HERBICIDE RESISTANT												
Paymaster PM 1220 RR	1376	7	1377	5	797	19	1981	6	1344	21	1374	9
Stoneville BXN 47	1262	16	1139	27	717	30	1811	10	1352	19	1305	15
Deltapine DP 436 RR	1231	20	1219	16	733	26	1586	25	1332	22	1303	16
Deltapine DP 425 RR	1157	29	1219	17	746	23	1569	26	1234	26	1031	30
BOLLGARD & ROUNDUP READY												
Paymaster PM 1218 BG/RR	1476	4	1458	2	1042	1	2056	4	1692	1	1263	18
Paymaster PM 1220 BG/RR	1361	8	1328	8	838	17	1982	5	1424	15	1245	20
Test Mean	1276		1230		835		1706		1365		1261	
CV (%)	15		8		19		17		10		14	
LSD (0.10)	63		74		120		216		116		130	
R-squared	0.81		0.66		0.49		0.47		0.68		0.68	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 27. Lint Yield of Entries in the Delta Transgenic Yields in the Mid-Maturity Cotton Variety Trials at Mississippi Delta Locations in 1999.

Variety Name	Delta Mean		Location											
			Stoneville		Tunica		Clarksdale		Rolling Fork		Tribbett		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL														
ACSI Fibermax 966	1280	1	1296	2	856	7	1792	1	1242	17	807	3	1679	1
Sure-Grow 747	1223	2	1303	1	766	12	1291	12	1505	4	959	1	1565	2
Paymaster PM 1440	1158	5	1209	7	998	2	1236	17	1382	8	636	18	1524	4
OA-36	1149	6	1260	3	793	10	1163	21	1578	1	765	6	1405	8
SS 9815	1138	7	1149	12	937	3	1531	3	1389	7	719	8	1393	10
ACSI Fibermax 832	1135	8	1165	10	707	16	1518	4	1321	11	611	20	1520	5
OA-50	1114	9	1073	16	840	9	1225	18	1320	12	818	2	1442	7
Stoneville ST 474	1113	10	1229	4	702	17	1291	12	1254	15	703	10	1280	14
OA-66	1112	11	1228	5	869	5	1212	20	1141	20	781	4	1449	6
Deltapine DP 675	1108	12	1057	21	1045	1	1248	15	1279	14	774	5	1276	15
OA-77	1108	13	1118	15	935	4	1355	9	1204	18	674	15	1378	11
OA-44	1029	17	1064	19	766	11	1238	16	1063	21	705	9	1345	12
AgriPro AP 6101	1029	18	1143	13	586	21	1437	5	1252	16	637	17	1157	19
HCR 9257	1020	19	1187	8	552	22	1363	8	1300	13	611	21	1153	20
AgriPro HS 46	1009	20	1068	18	588	20	1382	6	1201	19	632	19	1212	17
ACSI Fibermax 989	885	22	918	23	668	19	1112	23	925	22	571	22	1123	21
HCR 7126	873	23	1070	17	742	14	1289	13	701	23	416	23	991	23
BOLLGARD (Bt)														
Deltapine DP 448 B	1164	3	1168	9	852	8	1546	2	1523	2	690	11	1266	16
Paymaster PM 1560 BG	1160	4	1139	14	858	6	1378	7	1400	6	670	16	1557	3
Deltapine NuCotn 33 B	1104	14	1160	11	759	13	1314	11	1441	5	688	12	1316	13
HERBICIDE RESISTANT														
Deltapine DP 5415 RR	1032	16	1061	20	731	15	1321	10	1351	10	749	7	1031	22
BOLLGARD & ROUNDUP READY														
Deltapine DP 458 B/RR	972	21	1000	22	454	23	1214	19	1370	9	687	13	1175	18
Paymaster PM 1560 BG/RR	1092	15	1212	6	668	18	1280	14	1517	3	678	14	1404	9
Test Mean	1087		1142		768		1330		1290		695		1332	
CV (%)	16		7		27		15		15		21		12	
LSD (0.10)	52		59		154		153		154		107		120	
R-squared	0.81		0.75		0.40		0.50		0.63		0.58		0.62	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 28. Lint Yield of Entries in the Delta Transgenic Yields in the New Varieties Cotton Variety Trials at Mississippi Delta locations in 1999.

Variety Name	Delta Mean		Location											
			Stoneville		Tunica		Clarksdale		Rolling Fork		Tribbett		Choctaw 30"	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL														
Paymaster PMX 0425	1253	2	1297	2	996	4	1465	6	1395	16	890	1	1498	1
Sure-Grow 125	1209	3	1216	8	1006	3	1439	7	1437	12	760	7	1432	5
SS 9901	1146	13	1097	17	966	5	1481	5	1295	17	745	9	1316	12
ARK-8712	1144	14	1291	3	848	13	1241	15	1263	18	768	5	1473	2
Stoneville ST 474	1130	15	1222	5	822	16	1424	9	1463	11	603	18	1301	14
HCR 7114	1096	18	1132	13	907	9	1498	4	1065	19	602	19	1367	11
BOLLGARD (Bt)														
Stoneville ST 4691B	1270	1	1391	1	916	7	1577	2	1713	1	670	17	1428	6
Deltapine NuCotn 33B	1075	19	1099	16	667	19	-----		1477	10	671	16	1382	8
HERBICIDE RESISTANT														
Deltapine DP 420 RR	1192	4	1281	4	868	12	1289	11	1490	8	820	2	1455	4
Stoneville ST 4793R	1183	5	1216	7	873	11	1578	1	1604	5	681	15	1215	18
Sure-Grow 125 RR	1169	8	1142	12	912	8	1273	13	1506	7	767	6	1472	3
Deltapine DP 429 RR	1110	16	1096	18	1048	1	1282	12	1424	14	684	14	1177	19
BOLLGARD & ROUNDUP READY														
Sure-Grow 125 BR	1177	6	1077	19	903	10	1432	8	1675	4	744	10	1314	13
Deltapine DP 450 B/RR	1171	7	1108	15	840	15	1499	3	1484	9	768	4	1379	9
Sure-Grow 501BR	1164	9	1212	9	796	17	1270	14	1697	2	722	12	1373	10
Stoneville ST 4892BR	1163	10	1218	6	793	18	1405	10	1678	3	711	13	1257	16
Deltapine DP 409 B/RR	1150	11	1110	14	1009	2	1238	16	1423	15	759	8	1407	7
Deltapine DP 451 B/RR	1146	12	1178	11	932	6	1231	17	1545	6	777	3	1279	15
Deltapine DP 422 B/RR	1100	17	1203	10	843	14	1201	19	1430	13	738	11	1238	17
Test Mean	1160		1189		892		1371		1477		730		1356	
CV (%)	14		9		20		17		9		13		12	
LSD (0.10)	49		77		133		174		104		69		126	
R-squared	0.82		0.59		0.27		0.44		0.68		0.70		0.49	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 29. Lint yield of Entries in the Early Maturing and Mid-Maturity Cotton Variety Trials at Mississippi Hill Locations During 1997-99.

Variety Name	Mean	Locations				
		MSU #/A	Raymond #/A	Holly Springs #/A	Desoto Co. #/A	Verona #/A
Early Maturing Variety Trial						
Paymaster PM 1220 BG/RR	1055	1363	973	944	1031	966
Deltapine DP 20 B	1042	1163	977	817	1131	1121
Stoneville ST 474	1045	1308	1008	714	1109	1087
Stoneville BXN 47	1028	1264	958	701	1074	1142
Deltapine DP 5111	1013	1138	936	774	1090	1124
Paymaster PM 1220 RR	1002	1296	1007	870	893	944
Sure-Grow 501	977	1269	905	660	957	1092
Sure-Grow 125	969	1215	932	653	931	1116
Terra 292	864	1025	770	592	881	1054
Test Mean	999	1227	941	747	1011	1072
Mid-Maturity Variety Trial						
Paymaster PM 1560 BG	1057	1063	890		1199	1077
Deltapine NuCotn 33 B	1036	1115	958		1068	1005
ACSI Fibermax 989	974	1160	868		793	1073
ACSI Fibermax 832	940	1063	852		804	1042
Test Mean	1002	1100	892		966	1049

Table 30. Lint yield of Entries in the Early Maturing and Mid-Maturity Cotton Variety Trials at Mississippi Hill Locations during 1998-99.

Variety Name	Mean	Locations					
		MSU #/A	Raymond #/A	Holly Springs #/A	Desoto Co. #/A	Verona #/A	Brooksville #/A
Early Maturing Variety Trial							
Paymaster PM 1218 BG/RR	1040	1432	912	903	1099	958	937
Deltapine DP 20 B	970	1158	963	751	1043	1084	823
Deltapine DP 428 B	960	1297	880	674	1033	1014	865
Paymaster PM 1220 BG/RR	941	1324	915	882	897	783	849
Paymaster PM 1560 BG	942	1261	906	801	1005	905	776
Sure-Grow 105	949	1362	904	482	882	1135	933
Sure-Grow 747	948	1377	994	508	897	1098	817
PhytoGen PSC 355	945	1337	1003	583	773	1200	773
Paymaster PM 1330 BG	922	1245	885	675	924	1092	714
Paymaster PM 1440	919	1148	882	657	872	1070	888
Stoneville ST 474	914	1362	989	544	891	986	716
Stoneville BXN 47	916	1324	931	543	881	1091	727
Deltapine DP 5111	907	1179	898	697	896	1009	762
AgriPro AP 7115	916	1171	1086	595	808	1066	773
PhytoGen PSC 952	904	1244	978	491	788	1083	843
Paymaster PM 1220 RR	885	1292	991	790	778	754	703
Sure-Grow 125	894	1294	910	490	785	1082	801
ACSI Fibermax 819	892	1206	986	620	782	1066	696
PhytoGen PSC 636	885	1110	927	546	796	1053	879
Sure-Grow 501	882	1252	890	469	840	1057	784
PhytoGen PSC 569	887	1266	1016	481	644	1104	813
Deltapine DP 425 RR	821	1123	783	571	656	1041	752
Deltapine DP 436 RR	821	1117	838	521	673	1003	774
Terra 292	795	1034	727	481	675	1035	821
Test Mean	911	1246	925	615	846	1032	801
Mid-Maturity Variety Trial							
ACSI Fibermax FM 966	1033	1383	1021		761	1108	894
Deltapine NuCotn 33 B	930	1081	961		893	939	776
ACSI Fibermax 832	906	1140	870		651	1008	864
ACSI Fibermax 989	902	1189	865		571	1042	844
AgriPro HS 46	858	1093	840		548	993	816
AgriPro AP 6101	823	1099	811		471	928	809
Test Mean	909	1164	895		649	1003	834

Table 31. Lint yield of Entries in the Early Maturing Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations											
			Brooksville		MSU		Verona		Holly Springs		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
PaymasterPM 1218 BG/RR	1048	1	773	1	1652	1	1001	6	660	4	1194	3	963	10
PaymasterPM 1220 RR	996	2	679	11	1391	21	875	27	916	1	1059	11	1026	6
PhytoGenPSC 355	957	3	713	4	1609	3	1152	1	392	22	1069	8	833	27
MISCOT8806-3-2-19	949	4	670	13	1648	2	988	10	314	30	1226	2	815	29
PaymasterPM 1220 BG/RR	949	5	715	3	1477	11	851	30	707	3	1023	18	856	24
PaymasterPM 1440	947	6	690	9	1406	18	985	11	626	6	1048	14	940	14
StonevilleBXN 47	938	7	590	29	1526	7	993	9	404	21	1241	1	868	23
DeltapineDP 20 B	932	8	699	7	1328	26	901	23	538	14	1067	9	1103	2
DeltapineDP 451 B/RR	929	9	726	2	1308	29	904	21	817	2	1054	12	672	34
Sure-Grow747	927	10	639	24	1541	6	941	16	356	27	1142	6	960	11
PhytoGenPSC 952	918	11	612	27	1561	4	1014	5	376	24	1019	20	975	8
Deltapine DP 388	917	12	642	21	1469	13	944	14	561	12	979	22	917	16
AgriProAP 7115	913	13	685	10	1311	28	894	24	606	9	938	25	1097	3
StonevilleST 474	910	14	505	33	1520	9	833	31	381	23	1160	4	1093	4
DeltapineDP 5111	909	15	640	23	1380	22	910	19	576	10	1037	17	909	17
PaymasterPM 1330 BG	908	16	648	20	1357	24	940	17	567	11	1038	16	908	18
Sure-Grow105	905	17	659	16	1495	10	1016	4	315	29	1096	7	880	21
PhytoGenPSC 636	903	18	713	5	1328	25	908	20	517	15	1015	21	958	12
DeltapineDP 428 B	902	19	702	6	1377	23	800	32	492	16	1153	5	831	28
PaymasterPM 1560 BG	897	20	673	12	1393	20	628	34	608	8	1040	15	978	7
ACSI Fibermax 819	888	21	612	26	1421	16	943	15	488	17	961	23	934	15
ACSI Fibermax FM 958	888	22	659	15	1549	5	971	12	281	32	1020	19	869	22
MISCOT8839-3-10-2	888	23	642	22	1523	8	860	29	373	25	1059	10	847	26
Sure-Grow125	883	24	663	14	1467	14	1000	7	321	28	941	24	972	9
SS9806	878	25	698	8	1470	12	1016	3	266	34	829	30	1113	1
HCR 9220	871	26	580	31	1322	27	998	8	613	7	900	26	852	25
Sure-Grow501	851	27	583	30	1428	15	1028	2	295	31	1054	13	744	32
RGC 9811	840	28	652	18	1404	19	867	28	373	26	882	28	890	19
Deltapine DP 436 RR	830	29	658	17	1234	32	881	26	477	18	834	29	955	13
Deltapine DP 425 RR	822	30	649	19	1276	30	887	25	548	13	823	31	744	33
PhytoGenPSC 569	818	31	598	28	1414	17	919	18	439	19	593	33	1058	5
HCR 7114-46	817	32	538	32	1047	34	954	13	645	5	900	27	886	20
Terra 292	787	33	631	25	1234	31	903	22	421	20	800	32	762	31
Terra 366	592	34	464	34	1079	33	733	33	270	33	316	34	812	30
Test Mean	891		647		1410		925		486		985		912	
CV (%)	14		11		8		17		10		12		21	
LSD (0.10)	40		53		86		144		36		88		178	
R-squared	0.90		0.64		0.68		0.34		0.93		0.74		0.44	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 32. Lint Percent and Fiber Properties of Entries in the Early Maturing Cotton Variety Trials, Averaged Across Mississippi Hill Locations in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Paymaster PM 1218 BG/RR	1048	1	40.3	4.6	1.06	83.5	28.6	7.5
Paymaster PM 1220 RR	996	2	40.0	4.8	1.10	84.2	32.0	8.0
PhytoGen PSC 355	957	3	39.9	5.1	1.08	84.6	33.0	8.3
MISCOT 8806-3-2-19	949	4	38.5	4.6	1.10	84.7	32.2	7.1
Paymaster PM 1220 BG/RR	949	5	39.6	4.5	1.09	84.4	30.0	7.4
Paymaster PM 1440	947	6	38.6	5.0	1.10	83.9	30.1	7.0
Stoneville BXN 47	938	7	40.7	4.9	1.10	84.3	29.8	7.1
Deltapine DP 20 B	932	8	38.2	4.5	1.09	84.0	29.0	8.2
Deltapine DP 451 B/RR	929	9	36.1	4.7	1.11	84.5	28.4	7.1
Sure-Grow 747	927	10	40.2	5.1	1.10	84.7	30.2	8.4
PhytoGen PSC 952	918	11	39.4	4.7	1.08	84.0	31.1	7.8
Deltapine DP 388	917	12	39.0	4.6	1.09	83.7	31.2	7.9
AgriPro AP 7115	913	13	39.5	4.7	1.10	83.9	30.0	7.2
Stoneville ST 474	910	14	40.8	5.0	1.09	84.1	30.0	7.1
Deltapine DP 5111	909	15	37.4	5.0	1.09	84.3	32.3	6.6
Paymaster PM 1330 BG	908	16	37.7	4.5	1.11	84.7	30.5	7.1
Sure-Grow 105	905	17	38.8	5.0	1.11	85.4	31.2	7.2
PhytoGen PSC 636	903	18	37.4	4.7	1.11	84.1	29.9	6.8
Deltapine DP 428 B	902	19	37.2	4.8	1.09	84.1	28.2	7.4
Paymaster PM 1560 BG	897	20	39.2	4.8	1.09	84.4	31.5	7.4
ACSI Fibermax 819	888	21	40.0	4.6	1.14	85.2	33.7	6.1
ACSI Fibermax FM 958	888	22	39.9	4.7	1.13	84.5	31.5	5.9
MISCOT 8839-3-10-2	888	23	37.8	4.8	1.13	84.6	29.8	7.1
Sure-Grow 125	883	24	39.5	4.9	1.11	84.6	30.2	8.2
SS 9806	878	25	39.9	4.9	1.10	84.5	29.7	6.7
HCR 9220	871	26	38.8	4.7	1.08	83.7	29.4	7.7
Sure-Grow 501	851	27	40.1	4.9	1.11	85.0	34.8	7.7
RGC 9811	840	28	38.1	4.9	1.08	83.8	30.8	7.1
Deltapine DP 436 RR	830	29	35.7	4.8	1.11	84.8	29.8	7.9
Deltapine DP 425 RR	822	30	37.4	5.0	1.09	84.3	29.4	7.6
PhytoGen PSC 569	818	31	38.9	4.8	1.10	84.5	34.5	7.3
HCR 7114-46	817	32	40.0	4.5	1.08	83.0	28.1	7.8
Terra 292	787	33	35.1	4.7	1.12	84.6	29.6	7.5
Terra 366	592	34	36.4	4.8	1.12	84.7	29.9	7.1

Test Mean	891		38.7	4.8	1.10	84.3	30.6	7.4
CV (%)	14		2.35	4.19	1.99	1.01	3.58	4.65
LSD (0.10)	40		0.41	0.09	0.01	0.39	0.50	0.16
R-Squared	0.90		0.90	0.80	0.88	0.82	0.87	0.86

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 33. Performance of Entries in the Early Maturing Cotton Variety Trial Grown in 30-inch Rows on a Brooksville Silty Clay Soil at Brooksville, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Paymaster PM 1218 BG/RR	773	1	40.4	4.4	1.00	81.8	28.4	8.0	8.24
Deltapine DP 451 B/RR	726	2	36.1	4.3	1.05	83.0	28.2	6.9	8.45
Paymaster PM 1220 BG/RR	715	3	39.7	4.3	1.03	83.6	30.5	7.3	8.58
PhytoGen PSC 355	713	4	40.1	5.0	1.04	83.7	33.4	7.8	8.74
PhytoGen PSC 636	713	5	37.5	4.5	1.08	83.1	31.2	6.5	8.93
Deltapine DP 428 B	702	6	37.3	4.5	1.03	82.6	27.8	7.6	7.90
Deltapine DP 20 B	699	7	38.3	4.2	1.05	82.8	28.8	8.3	7.86
SS 9806	698	8	39.9	4.8	1.05	82.7	31.4	6.6	8.21
Paymaster PM 1440	690	9	38.6	4.8	1.07	82.7	32.5	6.6	8.55
AgriPro AP 7115	685	10	39.6	4.4	1.06	82.7	31.1	7.0	8.19
Paymaster PM 1220 RR	679	11	39.9	4.9	1.04	83.6	33.7	7.7	9.88
Paymaster PM 1560 BG	673	12	39.4	4.6	1.05	83.3	32.2	7.0	8.05
MISCOT 8806-3-2-19	670	13	38.6	4.6	1.04	83.5	31.9	6.9	8.18
Sure-Grow 125	663	14	39.6	4.7	1.07	83.5	32.3	7.9	8.57
ACSI Fibermax FM 958	659	15	40.0	4.8	1.08	83.4	32.1	5.8	9.78
Sure-Grow 105	659	16	38.8	4.8	1.06	84.0	32.2	7.0	8.49
Deltapine DP 436 RR	658	17	35.9	4.5	1.06	83.4	30.7	7.6	8.25
RGC 9811	652	18	38.1	4.8	1.02	82.3	32.0	7.1	7.79
Deltapine DP 425 RR	649	19	37.4	4.9	1.04	83.5	29.6	7.2	8.43
Paymaster PM 1330 BG	648	20	37.8	4.3	1.07	83.2	30.9	7.0	8.06
Deltapine DP 388	642	21	39.2	4.3	1.03	80.9	31.4	7.4	7.79
MISCOT 8839-3-10-2	642	22	38.0	4.9	1.08	83.5	30.8	7.0	8.98
Deltapine DP 5111	640	23	37.7	5.0	1.02	82.7	33.2	6.0	7.57
Sure-Grow 747	639	24	40.3	5.1	1.06	83.9	32.5	8.1	8.65
Terra 292	631	25	35.2	4.6	1.06	82.8	29.3	7.4	8.81
ACSI Fibermax 819	612	26	40.0	4.7	1.07	84.1	33.4	5.9	8.45
PhytoGen PSC 952	612	27	39.5	4.6	1.03	82.5	31.9	7.5	8.02
PhytoGen PSC 569	598	28	38.9	4.7	1.04	82.9	35.6	7.2	8.51
Stoneville BXN 47	590	29	41.1	4.9	1.04	83.0	30.8	6.7	7.41
Sure-Grow 501	583	30	40.1	4.8	1.08	83.6	36.2	7.2	8.64
HCR 9220	580	31	38.9	4.4	1.05	82.4	30.9	7.2	8.76
HCR 7114-46	538	32	39.9	4.7	1.04	81.5	29.8	7.5	8.44
Stoneville ST 474	505	33	40.8	5.0	1.05	83.1	31.7	6.8	8.63
Terra 366	464	34	36.5	4.7	1.08	83.5	30.3	6.8	8.39

Test Mean	647		38.8	4.7	1.05	83.0	31.4	7.1	8.42
CV (%)	11		4.87	3.86	1.65	0.82	3.07	4.32	7.48
LSD (0.10)	53		0.99	0.19	0.02	0.72	1.02	0.33	0.67
R-Squared	0.64		0.39	0.78	0.67	0.63	0.86	0.85	0.54

Planted: 13 May; Harvested: Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 34. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Marietta Silt Loam Soil at Mississippi State, MS, in 1999

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Paymaster PM 1218 BG/RR	1652	1	41.2	4.3	1.12	84.5	29.3	7.7	9.7
MISCOT 8806-3-2-19	1648	2	39.0	4.2	1.15	85.0	33.9	7.7	9.6
PhytoGen PSC 355	1609	3	40.1	5.1	1.13	85.1	33.7	8.7	8.8
PhytoGen PSC 952	1561	4	40.3	4.5	1.11	85.9	31.8	8.3	9.4
ACSI Fibermax FM 958	1549	5	40.3	4.5	1.18	84.7	31.9	5.9	10.5
Sure-Grow 747	1541	6	40.0	5.1	1.13	85.5	29.8	8.5	10.0
Stoneville BXN 47	1526	7	40.7	4.7	1.14	85.9	30.9	7.4	9.5
MISCOT 8839-3-10-2	1523	8	37.5	4.7	1.18	86.0	31.8	7.5	10.5
Stoneville ST 474	1520	9	41.0	5.0	1.14	84.9	30.5	7.4	9.4
Sure-Grow 105	1495	10	39.0	4.7	1.15	86.4	32.0	7.6	9.7
Paymaster PM 1220 BG/RR	1477	11	40.2	4.1	1.12	85.1	30.4	8.0	10.0
SS 9806	1470	12	40.0	4.7	1.13	85.8	30.2	7.3	9.3
Deltapine DP 388	1469	13	38.8	4.4	1.13	84.4	31.3	8.6	9.3
Sure-Grow 125	1467	14	39.9	4.8	1.15	84.7	29.9	8.5	9.3
Sure-Grow 501	1428	15	40.2	4.8	1.14	85.4	34.3	8.0	9.1
ACSI Fibermax 819	1421	16	40.6	4.4	1.18	85.9	34.9	6.5	9.1
PhytoGen PSC 569	1414	17	39.9	5.1	1.10	84.4	33.3	7.8	9.8
Paymaster PM 1440	1406	18	38.6	4.9	1.12	84.4	29.6	7.4	9.7
RGC 9811	1404	19	38.5	4.6	1.13	85.0	31.1	7.5	9.2
Paymaster PM 1560 BG	1393	20	38.7	4.4	1.13	85.7	32.7	7.9	8.6
Paymaster PM 1220 RR	1391	21	40.0	4.3	1.13	85.4	32.0	8.5	9.2
Deltapine DP 5111	1380	22	37.6	5.0	1.11	85.2	33.0	7.0	10.0
Deltapine DP 428 B	1377	23	36.1	4.6	1.10	84.9	28.7	7.8	8.8
Paymaster PM 1330 BG	1357	24	38.6	4.3	1.14	85.4	31.8	7.2	9.5
PhytoGen PSC 636	1328	25	37.1	4.5	1.14	85.2	30.8	7.0	10.6
Deltapine DP 20 B	1328	26	37.0	4.3	1.12	85.3	29.7	8.5	8.6
HCR 9220	1322	27	38.4	4.6	1.09	83.9	29.5	8.3	10.0
AgriPro AP 7115	1311	28	38.6	4.6	1.13	85.2	30.8	7.5	10.2
Deltapine DP 451 B/RR	1308	29	35.3	4.6	1.13	85.8	30.7	7.4	10.1
Deltapine DP 425 RR	1276	30	37.6	5.1	1.13	85.0	29.5	8.1	9.5
Terra 292	1234	31	35.0	4.5	1.14	85.2	30.4	8.0	9.1
Deltapine DP 436 RR	1234	32	35.9	4.9	1.12	85.0	30.7	8.5	10.0
Terra 366	1079	33	37.2	4.9	1.13	84.6	30.3	7.2	9.6
HCR 7114-46	1047	34	40.6	3.9	1.10	83.5	28.6	8.4	8.6

Test Mean	1410		38.8	4.6	1.13	85.1	31.2	7.8	9.5
CV (%)	8		2.24	3.88	1.77	0.89	3.12	3.66	8.06
LSD (0.10)	86		0.92	0.19	0.02	0.80	1.03	0.30	0.81
R-Squared	0.68		0.85	0.82	0.63	0.57	0.82	0.88	0.47

Planted: 10 May; Harvested: Sep.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 35. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Leeper Fine Sandy Loam Soil at Verona, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
PhytoGen PSC 355	1152	1	40.8	5.0	1.09	85.3	33.1	8.3	9.7
Sure-Grow 501	1028	2	40.3	5.0	1.14	86.2	36.9	7.5	9.2
SS 9806	1016	3	41.1	5.2	1.14	85.6	30.7	6.4	9.7
Sure-Grow 105	1016	4	40.1	5.0	1.13	85.6	31.4	6.9	10.2
PhytoGen PSC 952	1014	5	39.8	4.8	1.11	84.0	31.3	7.5	9.1
Paymaster PM 1218 BG/RR	1001	6	41.3	4.6	1.10	84.1	30.4	7.4	9.4
Sure-Grow 125	1000	7	39.9	4.9	1.14	84.7	30.4	7.9	9.2
HCR 9220	998	8	40.0	4.7	1.12	84.3	30.7	7.6	10.1
Stoneville BXN 47	993	9	42.3	4.9	1.15	85.5	30.8	6.8	10.1
MISCOT 8806-3-2-19	988	10	38.8	4.8	1.11	86.2	32.4	6.9	9.5
Paymaster PM 1440	985	11	40.1	5.0	1.13	84.6	30.3	6.5	9.9
ACSI Fibermax FM 958	971	12	38.8	4.5	1.16	85.8	31.8	5.6	10.3
HCR 7114-46	954	13	40.9	4.5	1.10	83.9	27.7	7.7	8.7
Deltapine DP 388	944	14	40.7	4.7	1.10	84.7	31.2	7.4	9.0
ACSI Fibermax 819	943	15	41.5	4.9	1.17	85.9	36.3	5.7	10.3
Sure-Grow 747	941	16	41.3	5.1	1.12	85.6	30.6	8.0	9.3
Paymaster PM 1330 BG	940	17	38.4	4.5	1.14	85.6	32.9	6.9	10.0
PhytoGen PSC 569	919	18	37.9	4.6	1.12	85.7	37.0	7.1	10.2
Deltapine DP 5111	910	19	38.5	5.2	1.10	85.1	33.0	6.2	9.3
PhytoGen PSC 636	908	20	39.4	4.7	1.13	83.7	30.0	6.3	10.2
Deltapine DP 451 B/RR	904	21	36.8	4.8	1.14	84.9	29.0	6.6	8.6
Terra 292	903	22	35.2	5.0	1.15	86.1	30.3	7.1	9.8
Deltapine DP 20 B	901	23	39.7	4.5	1.13	84.8	30.8	8.1	10.0
AgriPro AP 7115	894	24	40.6	4.9	1.11	84.9	30.9	7.0	9.8
Deltapine DP 425 RR	887	25	37.7	5.0	1.11	85.0	29.5	7.1	9.1
Deltapine DP 436 RR	881	26	36.5	4.8	1.15	85.7	31.8	7.4	9.6
Paymaster PM 1220 RR	875	27	40.1	4.5	1.09	84.8	31.0	8.0	10.3
RGC 9811	867	28	39.0	5.1	1.10	83.6	30.4	6.7	9.0
MISCOT 8839-3-10-2	860	29	38.4	4.6	1.17	85.0	30.1	6.7	10.3
Paymaster PM 1220 BG/RR	851	30	40.4	4.7	1.13	85.9	31.6	6.3	9.8
Stoneville ST 474	833	31	42.4	4.6	1.10	84.4	29.3	6.7	8.9
Deltapine DP 428 B	800	32	38.8	5.0	1.11	85.6	29.5	6.9	9.8
Terra 366	733	33	38.4	4.6	1.14	85.0	30.1	6.6	9.2
Paymaster PM 1560 BG	628	34	40.5	5.0	1.09	84.3	32.2	7.1	9.4

Test Mean	925		39.6	4.8	1.12	85.0	31.3	7.0	9.6
CV (%)	17		1.63	4.34	1.91	1.02	4.29	4.52	8.47
LSD (0.10)	144		0.84	0.27	0.03	1.13	1.76	0.41	0.86
R-Squared	0.34		0.93	0.70	0.79	0.75	0.83	0.90	0.45

Planted: 13 May; Harvested: 26 Sep.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 36. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Grenada Silt Loam Soil at Holly Springs, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Paymaster PM 1220 RR	916	1	39.1	5.2	1.07	83.8	33.4	7.4	10.6
Deltapine DP 451 B/RR	817	2	34.4	4.8	1.08	84.2	27.3	6.9	10.0
Paymaster PM 1220 BG/RR	707	3	38.9	4.8	1.05	84.3	28.8	7.0	10.6
Paymaster PM 1218 BG/RR	660	4	38.6	4.8	1.02	83.7	28.5	7.1	9.7
HCR 7114-46	645	5	38.0	5.1	1.04	83.3	27.9	7.6	10.0
Paymaster PM 1440	626	6	36.3	5.3	1.08	84.1	30.7	6.9	10.4
HCR 9220	613	7	37.0	5.0	1.06	83.8	29.4	7.4	9.8
Paymaster PM 1560 BG	608	8	38.7	5.3	1.04	83.6	30.9	7.3	10.2
AgriPro AP 7115	606	9	38.4	4.9	1.09	84.4	30.2	7.2	9.9
Deltapine DP 5111	576	10	36.0	5.2	1.08	83.8	32.6	6.3	9.7
Paymaster PM 1330 BG	567	11	36.8	5.1	1.06	84.3	30.1	7.0	9.7
Deltapine DP 388	561	12	38.4	4.9	1.09	83.9	32.2	7.5	9.0
Deltapine DP 425 RR	548	13	35.2	5.2	1.08	84.3	29.3	7.3	9.8
Deltapine DP 20 B	538	14	37.3	4.8	1.06	83.6	28.8	7.9	10.0
PhytoGen PSC 636	517	15	35.7	5.0	1.08	84.4	30.0	6.5	10.4
Deltapine DP 428 B	492	16	36.1	5.2	1.08	84.0	28.1	6.9	10.1
ACSI Fibermax 819	488	17	37.7	4.7	1.13	85.7	34.8	5.6	9.1
Deltapine DP 436 RR	477	18	32.9	5.0	1.10	85.4	29.2	7.6	10.5
PhytoGen PSC 569	439	19	37.8	5.1	1.11	85.1	36.5	6.9	10.2
Terra 292	421	20	34.0	5.0	1.10	85.0	30.3	7.1	10.1
Stoneville BXN 47	404	21	39.3	5.3	1.10	84.2	30.6	6.5	10.2
PhytoGen PSC 355	392	22	38.4	5.4	1.06	84.0	33.1	8.2	10.1
Stoneville ST 474	381	23	39.4	5.3	1.07	84.2	30.7	6.6	9.8
PhytoGen PSC 952	376	24	37.5	5.2	1.05	83.1	31.6	7.5	10.3
MISCOT 8839-3-10-2	373	25	37.0	4.9	1.10	84.5	29.2	6.8	10.4
RGC 9811	373	26	35.8	5.1	1.08	84.8	32.3	6.7	9.9
Sure-Grow 747	356	27	38.6	5.3	1.08	84.8	30.6	8.2	9.5
Sure-Grow 125	321	28	38.5	5.3	1.07	83.9	29.7	7.9	9.7
Sure-Grow 105	315	29	37.1	5.3	1.10	85.5	31.5	6.9	10.4
MISCOT 8806-3-2-19	314	30	36.8	4.8	1.05	84.2	31.9	7.0	9.9
Sure-Grow 501	295	31	38.9	5.1	1.10	85.1	35.4	7.7	9.3
ACSI Fibermax FM 958	281	32	39.6	5.0	1.10	84.9	33.2	5.6	10.9
Terra 366	270	33	33.5	4.6	1.13	85.6	30.7	7.0	9.9
SS 9806	266	34	37.9	4.8	1.09	84.7	30.1	6.5	10.0

Test Mean	486		37.2	5.1	1.08	84.4	30.9	7.1	10.0
CV (%)	10		3.05	3.56	1.82	0.92	3.79	4.05	7.45
LSD (0.10)	36		1.20	0.19	0.02	0.82	1.24	0.30	0.79
R-Squared	0.93		0.78	0.74	0.72	0.54	0.83	0.87	0.35

Planted: 2 May; Harvested: 11 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 37. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Collins Silt Loam Soil at Desoto County, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville BXN 47	1241	1	39.2	4.5	1.14	85.6	29.0	7.4	9.4
MISCOT 8806-3-2-19	1226	2	37.0	4.5	1.16	85.7	31.9	7.5	10.2
Paymaster PM 1218 BG/RR	1194	3	37.8	4.5	1.10	85.1	29.0	7.4	10.9
Stoneville ST 474	1160	4	38.6	4.6	1.15	85.3	29.7	7.5	9.8
Deltapine DP 428 B	1153	5	35.1	4.7	1.17	86.2	29.4	7.3	10.6
Sure-Grow 747	1142	6	39.1	5.0	1.16	86.3	30.1	8.7	9.9
Sure-Grow 105	1096	7	37.4	5.0	1.17	86.9	31.1	7.5	10.9
PhytoGen PSC 355	1069	8	37.4	4.8	1.14	86.4	33.6	8.8	10.4
Deltapine DP 20 B	1067	9	35.4	4.5	1.14	86.0	29.6	8.0	10.2
MISCOT 8839-3-10-2	1059	10	35.4	4.4	1.18	86.3	29.4	7.0	10.7
Paymaster PM 1220 RR	1059	11	37.4	4.7	1.16	85.8	31.9	8.6	12.0
Deltapine DP 451 B/RR	1054	12	33.6	4.5	1.17	85.7	29.3	7.2	10.5
Sure-Grow 501	1054	13	37.9	4.7	1.19	86.7	35.1	7.8	10.1
Paymaster PM 1440	1048	14	36.8	4.8	1.14	85.3	29.8	7.2	10.0
Paymaster PM 1560 BG	1040	15	36.4	4.6	1.16	85.7	31.7	7.7	11.0
Paymaster PM 1330 BG	1038	16	35.4	4.3	1.19	86.6	30.8	7.1	10.7
Deltapine DP 5111	1037	17	35.4	4.7	1.16	86.3	32.1	6.8	10.5
Paymaster PM 1220 BG/RR	1023	18	37.1	4.5	1.16	85.3	31.1	7.6	11.7
ACSI Fibermax FM 958	1020	19	38.3	4.5	1.17	85.3	30.2	6.4	11.0
PhytoGen PSC 952	1019	20	38.2	4.5	1.14	85.3	30.8	8.3	9.3
PhytoGen PSC 636	1015	21	35.4	4.4	1.17	85.3	29.8	7.0	11.2
Deltapine DP 388	979	22	37.3	4.4	1.14	85.7	31.7	8.2	9.8
ACSI Fibermax 819	961	23	38.0	4.3	1.21	86.9	33.1	6.2	10.0
Sure-Grow 125	941	24	37.5	4.5	1.17	87.0	30.2	8.4	10.3
AgriPro AP 7115	938	25	38.1	4.6	1.16	85.2	29.4	6.7	10.3
HCR 9220	900	26	37.4	4.6	1.13	85.4	28.9	7.7	10.3
HCR 7114-46	900	27	37.9	4.0	1.13	84.5	27.9	7.6	9.6
RGC 9811	882	28	35.8	4.6	1.13	84.8	30.4	7.1	9.9
Deltapine DP 436 RR	834	29	33.8	4.7	1.17	86.8	30.1	8.1	11.1
SS 9806	829	30	37.9	4.8	1.13	85.8	28.7	6.9	10.4
Deltapine DP 425 RR	823	31	35.0	4.8	1.14	85.5	30.0	7.6	10.1
Terra 292	800	32	33.1	4.7	1.17	86.3	30.2	7.5	11.2
PhytoGen PSC 569	593	33	36.1	4.4	1.15	86.0	34.7	7.4	10.6
Terra 366	316	34	34.6	4.9	1.17	86.2	30.0	7.3	11.2

Test Mean	985		36.7	4.6	1.16	85.9	30.6	7.5	10.5
CV (%)	12		2.02	4.39	1.64	0.92	2.92	4.78	4.49
LSD (0.10)	88		0.78	0.21	0.02	0.84	0.95	0.38	0.50
R-Squared	0.74		0.87	0.61	0.65	0.53	0.84	0.82	0.73

Planted: 9 May; Harvested: 7 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 38. Performance of Entries in the Early Maturing Cotton Variety Trial Grown on a Loring Silt Loam Soil at Raymond, MS, in 1999

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
SS 9806	1113	1	40.1	5.1	1.07	82.1	26.3	6.6	9.22
Deltapine DP 20 B	1103	2	40.7	4.7	1.03	80.8	25.6	8.9	8.51
AgriPro AP 7115	1097	3	40.6	4.8	1.03	80.5	27.1	8.0	9.52
Stoneville ST 474	1093	4	41.9	5.2	1.02	82.6	26.6	8.0	8.99
PhytoGen PSC 569	1058	5	40.5	5.2	1.05	82.2	28.6	7.0	9.09
Paymaster PM 1220 RR	1026	6	40.8	5.0	1.09	81.1	28.8	7.6	9.95
Paymaster PM 1560 BG	978	7	40.7	5.3	1.04	83.3	28.8	7.4	9.14
PhytoGen PSC 952	975	8	39.9	5.0	1.05	82.7	28.3	7.6	8.44
Sure-Grow 125	972	9	39.6	5.0	1.04	83.3	27.8	8.3	9.08
Paymaster PM 1218 BG/RR	963	10	41.4	5.0	1.02	81.4	25.6	7.7	9.61
Sure-Grow 747	960	11	40.8	5.0	1.04	81.5	26.8	8.5	8.55
PhytoGen PSC 636	958	12	37.3	5.1	1.08	82.3	26.6	7.3	9.22
Deltapine DP 436 RR	955	13	38.4	5.0	1.08	81.9	25.9	8.0	9.38
Paymaster PM 1440	940	14	39.3	5.2	1.04	82.0	26.8	7.3	8.49
ACSI Fibermax 819	934	15	39.4	4.8	1.06	81.7	28.8	6.7	9.12
Deltapine DP 388	917	16	38.8	4.8	1.03	82.6	28.6	8.5	8.51
Deltapine DP 5111	909	17	38.4	5.0	1.04	82.6	29.4	7.1	8.90
Paymaster PM 1330 BG	908	18	38.1	5.0	1.05	82.8	25.9	8.0	8.99
RGC 9811	890	19	40.1	5.2	1.03	81.8	27.3	7.3	9.19
HCR 7114-46	886	20	40.1	4.7	1.06	81.3	25.9	7.9	8.98
Sure-Grow 105	880	21	38.3	5.1	1.07	83.2	27.8	7.2	9.43
ACSI Fibermax FM 958	869	22	39.9	4.8	1.09	83.0	29.0	6.2	9.96
Stoneville BXN 47	868	23	41.4	5.3	1.01	81.2	25.7	7.7	8.77
Paymaster PM 1220 BG/RR	856	24	40.6	5.1	1.03	82.3	27.3	7.8	9.92
HCR 9220	852	25	40.3	5.0	1.04	81.7	26.4	7.8	9.51
MISCOT 8839-3-10-2	847	26	40.0	5.1	1.03	81.8	26.2	7.7	9.75
PhytoGen PSC 355	833	27	41.1	5.2	1.04	82.9	30.0	8.1	8.92
Deltapine DP 428 B	831	28	38.9	5.0	1.04	80.9	24.9	7.7	8.92
MISCOT 8806-3-2-19	815	29	38.7	4.9	1.09	84.3	31.1	6.7	9.23
Terra 366	812	30	36.9	5.0	1.08	82.5	26.7	7.4	10.40
Terra 292	762	31	35.4	4.4	1.10	81.5	26.0	7.5	9.44
Sure-Grow 501	744	32	40.0	5.2	1.02	82.4	30.3	7.8	8.45
Deltapine DP 425 RR	744	33	40.1	5.2	1.05	82.4	28.0	8.1	9.74
Deltapine DP 451 B/RR	672	34	37.4	5.1	1.07	82.7	25.0	7.4	9.49

Test Mean	912		39.6	5.0	1.05	82.1	27.3	7.6	9.20
CV (%)	21		3.19	4.66	2.66	1.17	4.21	6.42	5.67
LSD (0.10)	178		1.65	0.30	0.04	1.25	1.50	0.64	0.55
R-Squared	0.44		0.73	0.65	0.60	0.61	0.81	0.76	0.60

Planted: 6 May; Harvested: 15 Oct.

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 39. Lint yield of Entries in the Mid-Maturity Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations									
			Brooksville		MSU		Verona		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
ACSI Fibermax FM 966	981	1	564	13	1587	1	835	3	915	5	944	6
Stoneville ST 474*	974	2	584	10	1462	2	828	4	939	3	1026	2
HCR 9257	967	3	650	3	1340	7	709	12	798	7	906	7
Sure-Grow 747*	954	4	709	1	1458	3	865	1	732	9	988	3
Deltapine DP 448 B	947	5	621	6	1392	4	805	5	976	2	864	8
ACSI Fibermax 832	926	6	633	4	1344	6	793	7	933	4	861	10
Paymaster PM 1560 BG/RR	904	7	583	11	1301	10	759	9	897	6	947	5
Paymaster PM 1560 BG	892	8	652	2	1277	12	795	6	1082	1	975	4
ACSI Fibermax 989	882	9	585	9	1362	5	836	2	758	8	839	11
Deltapine NuCotn 33 B*	874	10	597	8	1293	11	729	11	727	10	1026	1
AgriPro HS 46	833	11	580	12	1310	9	791	8	615	11	864	9
AgriPro AP 6101	819	12	606	7	1339	8	732	10	565	12	826	13
HCR 7126	769	13	626	5	1223	13	693	13	467	13	834	12
Test Mean	902		615		1361		782		800		915	
CV (%)	11		11		6.19		14		13		12	
LSD (0.10)	35		52		63		102		78		98	
R-squared	0.92		0.68		0.65		0.37		0.78		0.52	

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 40. Lint Percent and Fiber Properties of Entries in the Mid-Maturity Cotton Variety Trials, Averaged Across Mississippi Hill Locations in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
ACSI Fibermax FM 966	981	1	39.6	4.6	1.11	84.9	33.3	5.5
Stoneville ST 474*	974	2	41.0	5.0	1.09	84.2	30.4	7.0
HCR 9257	967	3	39.1	4.6	1.08	84.3	31.2	6.9
Sure-Grow 747*	954	4	40.4	5.0	1.10	85.2	30.4	8.2
Deltapine DP 448 B	947	5	37.6	4.5	1.08	83.6	28.9	7.1
ACSI Fibermax 832	926	6	38.6	4.2	1.17	85.4	33.9	6.1
Paymaster PM 1560 BG/RR	904	7	38.3	4.3	1.09	83.9	30.2	7.4
Paymaster PM 1560 BG	892	8	39.0	4.6	1.09	84.7	32.1	7.5
ACSI Fibermax 989	882	9	39.0	4.5	1.12	84.9	34.0	6.2
Deltapine NuCotn 33 B*	874	10	36.7	4.5	1.09	83.6	30.7	7.5
AgriPro HS 46	833	11	38.2	4.6	1.11	84.2	33.5	6.8
AgriPro AP 6101	819	12	37.5	4.8	1.13	84.5	32.3	6.9
HCR 7126	769	13	38.5	4.7	1.14	84.7	31.8	7.1
Test Mean	902		38.7	4.6	1.11	84.5	31.7	6.9
CV (%)	11		2.04	4.80	1.70	0.93	3.39	4.38
LSD (0.10)	35		0.40	0.11	0.01	0.40	0.54	0.15
R-Squared	0.92		0.89	0.75	0.89	0.76	0.88	0.92

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

* Early maturity check

Table 41. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown in 30-inch Rows on a Brooksville Silty Clay Soil at Brooksville, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Sure-Grow 747*	709	1	41.3	4.8	1.05	84.3	32.6	8.1	8.54
Paymaster PM 1560 BG	652	2	40.6	4.3	1.07	83.9	33.0	7.0	8.13
HCR 9257	650	3	40.2	4.3	1.06	83.5	33.1	6.8	8.30
ACSI Fibermax 832	633	4	39.3	4.3	1.13	84.9	35.9	6.2	9.23
HCR 7126	626	5	39.9	4.6	1.08	83.9	32.3	6.9	7.63
Deltapine DP 448 B	621	6	38.5	4.0	1.05	82.9	28.7	7.1	7.29
AgriPro AP 6101	606	7	38.9	4.8	1.07	83.5	32.7	6.7	7.91
Deltapine NuCotn 33 B*	597	8	38.0	4.0	1.03	82.4	30.1	7.4	7.39
ACSI Fibermax 989	585	9	40.4	4.4	1.09	84.6	37.0	6.3	8.83
Stoneville ST 474*	584	10	41.3	4.8	1.06	83.3	31.3	6.4	8.74
Paymaster PM 1560 BG/RR	583	11	39.4	4.2	1.05	83.2	30.9	6.8	8.33
AgriPro HS 46	580	12	39.4	4.5	1.08	83.4	35.2	6.7	8.47
ACSI Fibermax FM 966	564	13	39.7	4.6	1.09	84.5	36.0	5.2	10.38

Test Mean	615		39.8	4.4	1.07	83.7	33.0	6.7	8.40
CV (%)	11		1.71	2.93	1.71	0.71	2.24	3.84	3.69
LSD (0.10)	52		0.73	0.14	0.02	0.64	0.80	0.28	0.33
R-Squared	0.68		0.79	0.92	0.75	0.70	0.95	0.92	0.92

Planted: 13 May; Harvested: Oct.

* Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 42: Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Marietta Silt Loam Soil at Mississippi State, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
ACSI Fibermax FM 966	1587	1	39.4	4.6	1.15	86.3	32.3	6.6	10.49
Stoneville ST 474*	1462	2	40.5	5.0	1.12	85.3	30.1	7.8	9.81
Sure-Grow 747*	1458	3	39.3	5.2	1.13	86.0	28.9	8.9	9.84
Deltapine DP 448 B	1392	4	37.4	4.7	1.09	83.7	28.8	7.9	9.15
ACSI Fibermax 989	1362	5	38.5	4.5	1.16	85.1	32.1	6.7	9.28
ACSI Fibermax 832	1344	6	38.8	3.9	1.23	86.2	33.3	6.9	9.51
HCR 9257	1340	7	38.7	4.8	1.11	85.3	31.3	7.2	9.54
AgriPro AP 6101	1339	8	37.2	4.7	1.18	85.0	32.0	7.7	8.87
AgriPro HS 46	1310	9	38.8	4.7	1.12	84.0	31.1	7.4	9.27
Paymaster PM 1560 BG/RR	1301	10	37.4	4.5	1.14	84.8	29.5	8.1	9.92
Deltapine NuCotn 33 B*	1293	11	36.5	4.7	1.13	84.3	30.4	8.2	9.04
Paymaster PM 1560 BG	1277	12	37.9	4.4	1.11	85.3	30.6	8.2	9.44
HCR 7126	1223	13	38.7	4.6	1.18	85.2	31.0	7.9	8.60

Test Mean	1361		38.4	4.6	1.14	85.1	30.9	7.7	9.44
CV (%)	6		2.15	5.07	1.85	1.05	4.58	5.33	5.34
LSD (0.10)	63		0.89	0.25	0.02	0.96	1.52	0.44	0.54
R-Squared	0.65		0.73	0.74	0.81	0.54	0.58	0.80	0.63

Planted: 10 May; Harvested: Sep.

*Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 43. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Leeper Fine Sandy Loam Soil at Verona, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Sure-Grow 747*	865	1	42.1	5.2	1.13	86.3	30.7	8.1	8.78
ACSI Fibermax 989	836	2	39.0	4.4	1.12	84.9	32.9	6.1	8.86
ACSI Fibermax FM 966	835	3	40.3	4.4	1.12	85.5	32.8	5.4	10.46
Stoneville ST 474*	828	4	41.8	5.2	1.11	84.5	29.6	6.7	9.14
Deltapine DP 448 B	805	5	37.5	4.6	1.13	85.0	29.7	6.7	8.21
Paymaster PM 1560 BG	795	6	41.2	5.1	1.11	85.3	32.4	7.5	9.02
ACSI Fibermax 832	793	7	38.6	4.4	1.19	86.8	34.2	5.8	9.75
AgriPro HS 46	791	8	38.9	4.7	1.13	85.1	33.1	6.5	10.01
Paymaster PM 1560 BG/RR	759	9	38.7	4.5	1.10	85.2	30.9	7.3	9.14
AgriPro AP 6101	732	10	37.7	4.7	1.13	85.6	31.3	6.7	8.18
Deltapine NuCotn 33 B*	729	11	36.7	4.7	1.13	85.1	31.3	6.9	8.66
HCR 9257	709	12	39.4	4.8	1.09	84.7	29.4	6.7	8.67
HCR 7126	693	13	38.5	5.0	1.17	86.4	32.9	6.5	8.74

Test Mean	782		39.2	4.7	1.13	85.4	31.6	6.7	9.05
CV (%)	14		1.32	3.73	1.43	0.69	2.92	4.11	6.36
LSD (0.10)	102		0.70	0.24	0.02	0.81	1.26	0.37	0.62
R-Squared	0.37		0.96	0.86	0.85	0.76	0.87	0.94	0.70

Planted: 13 May; Harvested: 26 Sep.

*Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 44. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Collins Silt Loam Soil at Desoto County, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Paymaster PM 1560 BG	1082	1	36.5	4.8	1.09	85.3	33.4	7.4	9.97
Deltapine DP 448 B	976	2	36.4	4.6	1.09	84.1	29.8	6.6	8.40
Stoneville ST 474*	939	3	39.5	4.9	1.10	84.4	31.7	6.6	9.00
ACSI Fibermax 832	933	4	36.4	3.9	1.17	84.8	34.3	5.7	9.26
ACSI Fibermax FM 966	915	5	38.3	4.7	1.11	84.3	33.9	5.0	10.28
Paymaster PM 1560 BG/RR	897	6	36.1	4.0	1.09	83.8	31.6	7.2	9.54
HCR 9257	798	7	38.0	4.8	1.09	84.6	32.3	6.6	8.91
ACSI Fibermax 989	758	8	36.6	4.6	1.15	85.8	35.3	5.6	11.22
Sure-Grow 747*	732	9	38.2	4.9	1.10	85.4	31.5	7.9	10.17
Deltapine NuCotn 33 B*	727	10	35.0	4.6	1.11	84.5	32.8	6.9	9.45
AgriPro HS 46	615	11	36.2	4.5	1.12	84.9	35.8	6.4	10.22
AgriPro AP 6101	565	12	35.4	4.8	1.15	85.7	34.9	6.7	10.18
HCR 7126	467	13	35.7	4.8	1.16	84.9	33.4	6.8	8.53
Test Mean	800		36.8	4.6	1.12	84.8	33.1	6.6	9.62
CV (%)	13		2.19	4.32	1.45	0.9	2.9	3.7	11.37
LSD (0.10)	78		0.87	0.21	0.02	0.86	1.05	0.26	1.18
R-Squared	0.78		0.80	0.81	0.83	0.60	0.83	0.94	0.54

Planted: 9 May; Harvested: 7 Oct.

* Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 45. Performance of Entries in the Mid-Maturity Cotton Variety Trial Grown on a Loring Silt Loam Soil at Raymond, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Deltapine NuCotn 33 B*	1026	1	37.73	4.40	1.07	81.3	28.1	7.8	7.87
Stoneville ST 474*	1026	2	42.3	5.1	1.03	83.2	28.2	7.5	8.79
Sure-Grow 747*	988	3	42.3	4.9	1.07	84.3	27.8	8.0	8.34
Paymaster PM 1560 BG	975	4	40.0	4.7	1.07	83.6	30.5	7.1	8.76
Paymaster PM 1560 BG/RR	947	5	41.1	4.6	1.05	82.4	27.6	7.6	8.81
ACSI Fibermax FM 966	944	6	41.1	4.7	1.07	83.9	30.2	5.4	10.00
HCR 9257	906	7	39.1	4.6	1.03	83.4	28.6	7.3	8.26
Deltapine DP 448 B	864	8	38.5	4.7	1.05	82.2	27.3	7.3	8.11
AgriPro HS 46	864	9	38.2	4.6	1.08	83.7	31.6	6.7	8.77
ACSI Fibermax 832	861	10	40.2	4.5	1.15	84.2	31.0	6.0	9.64
ACSI Fibermax 989	839	11	41.4	4.6	1.09	83.6	31.3	6.1	8.78
HCR 7126	834	12	40.3	4.6	1.09	83.0	28.7	7.0	7.59
AgriPro AP 6101	826	13	38.9	4.9	1.10	82.7	29.4	6.7	8.10
Test Mean	915		40.1	4.7	1.07	83.2	29.2	6.9	8.60
CV (%)	12		2.06	3.11	1.67	0.76	3.04	3.09	3.55
LSD (0.10)	98		1.12	0.20	0.02	0.86	1.20	0.29	0.28
R-Squared	0.52		0.87	0.78	0.86	0.78	0.85	0.96	0.87

Planted: 6 May; Harvested: 15 Oct.

*Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 46. Lint Yield of Entries in the New Varieties Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations											
			Brooksville		MSU		Verona		Holly Springs		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
Stoneville4691B	920	1	618	13	1359	3	930	6	575	2	1008	3	1086	2
Sure-Grow 501BR	917	2	673	10	1323	4	901	9	668	1	999	4	942	9
StonevilleST 4793R	903	3	601	15	1275	10	1024	1	460	7	1041	2	1138	1
StonevilleST 4892BR	882	4	587	16	1305	8	870	13	479	6	1093	1	991	6
DeltapineDP 409 B/RR	872	5	676	9	1244	12	1002	2	505	5	940	6	925	12
Sure-Grow 125 BR	868	6	664	11	1285	9	919	8	538	4	952	5	865	17
Sure-Grow125*	858	7	707	5	1306	7	807	18	383	16	928	8	1068	3
Stoneville ST 474*	857	8	530	18	1441	1	933	5	391	14	935	7	982	7
DeltapineDP 422 B/RR	849	9	728	3	1194	15	961	4	429	10	865	11	1003	5
Deltapine DP 451 B/RR	846	10	723	4	1218	13	888	10	550	3	916	9	768	18
SS 9901	844	11	734	2	1395	2	881	11	401	12	787	16	900	14
Sure-Grow 125 RR	844	12	692	6	1275	11	976	3	418	11	843	12	934	11
Paymaster PMX 0425	827	13	737	1	1313	5	928	7	336	17	809	13	893	15
Deltapine DP 420RR	812	14	686	7	1310	6	865	14	387	15	766	18	905	13
DeltapineDP 450 B/RR	799	15	607	14	1161	18	837	15	452	8	798	15	1029	4
HCR 7114	794	16	548	17	1178	17	828	17	435	9	891	10	948	8
Deltapine NuCotn 33B*	787	17	628	12	1193	16	831	16	394	13	805	14	936	10
Deltapine DP 429 RR	782	18	682	8	1216	14	872	12	325	18	780	17	884	16

Test Mean	848		657		1277		903		451		897		955	
CV (%)	13		12		10		16		14		10		16	
LSD (0.10)	73		58		97		135		48		66		139	
R-squared	0.89		0.68		0.37		0.26		0.73		0.62		0.38	

* Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 47. Lint Percent and Fiber Properties of Entries in the New Varieties Cotton Variety Trials, Averaged Across Mississippi Hill Locations in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %
Stoneville 4691B	920	1	40.4	4.7	1.09	84.0	28.9	6.9
Sure-Grow 501BR	917	2	38.1	4.8	1.06	83.8	31.4	7.9
Stoneville ST 4793R	903	3	41.4	5.0	1.07	83.7	29.9	7.0
Stoneville ST 4892BR	882	4	40.6	4.8	1.08	84.1	29.8	6.9
Deltapine DP 409 B/RR	872	5	37.8	4.3	1.06	82.2	28.5	7.6
Sure-Grow 125 BR	868	6	37.4	4.7	1.06	83.3	29.4	8.0
Sure-Grow 125*	858	7	39.4	4.8	1.11	84.6	29.7	8.1
Stoneville ST 474*	857	8	40.9	4.9	1.08	84.0	29.7	7.2
Deltapine DP 422 B/RR	849	9	36.7	4.4	1.07	83.2	28.5	8.4
Deltapine DP 451 B/RR	846	10	35.5	4.6	1.09	83.8	28.4	7.2
SS 9901	844	11	38.3	4.8	1.07	83.0	30.7	7.4
Sure-Grow 125 RR	844	12	38.7	4.6	1.06	83.7	29.5	8.3
Paymaster PMX 0425	827	13	38.0	4.6	1.09	84.3	30.5	7.5
Deltapine DP 420RR	812	14	37.9	4.6	1.07	83.8	29.1	7.9
Deltapine DP 450 B/RR	799	15	34.9	4.7	1.08	83.7	28.5	7.6
HCR 7114	794	16	40.0	4.3	1.06	82.4	27.4	7.8
Deltapine NuCotn 33B*	787	17	37.0	4.7	1.08	83.7	30.4	7.4
Deltapine DP 429 RR	782	18	37.3	4.4	1.07	83.2	29.9	7.3

Test Mean	848		38.4	4.6	1.07	83.6	29.5	7.6
CV (%)	13		2.43	4.86	1.74	0.89	3.47	4.49
LSD (0.10)	73		0.42	0.10	0.01	0.34	0.47	0.15
R-Squared	0.89		0.91	0.81	0.88	0.87	0.88	0.84

* Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 48. Performance of Entries in the New Varieties Cotton Variety Trial Grown in 30-inch Rows on a Brooksville Silty Clay Soil at Brooksville, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Paymaster PMX 0425	737	1	39.2	4.1	1.06	83.4	27.4	7.8	8.32
SS 9901	734	2	39.7	4.4	1.05	81.9	27.4	7.3	7.01
Deltapine DP 422 B/RR	728	3	37.9	3.9	1.02	81.7	26.3	8.6	8.13
Deltapine DP 451 B/RR	723	4	36.7	4.1	1.06	82.7	26.4	7.4	8.54
Sure-Grow 125*	707	5	40.6	4.5	1.07	83.4	28.4	7.9	8.45
Sure-Grow 125 RR	692	6	40.1	4.1	1.04	82.4	26.8	8.0	8.23
Deltapine DP 420RR	686	7	39.9	4.3	1.04	82.1	27.6	7.8	8.12
Deltapine DP 429 RR	682	8	39.5	4.1	1.04	81.9	26.9	7.7	7.82
Deltapine DP 409 B/RR	676	9	38.7	3.9	1.02	81.3	26.5	7.5	7.74
Sure-Grow 501BR	673	10	38.4	4.3	1.03	82.3	29.2	7.3	8.32
Sure-Grow 125 BR	664	11	38.8	4.3	1.02	81.4	28.5	7.8	7.98
Deltapine NuCotn 33B*	628	12	38.8	4.3	1.05	82.5	28.5	7.2	7.77
Stoneville ST 4691B	618	13	40.4	4.2	1.07	82.4	25.8	7.0	8.41
Deltapine DP 450 B/RR	607	14	36.2	4.2	1.05	82.3	25.9	7.7	8.29
Stoneville ST 4793R	601	15	41.6	4.8	1.03	81.4	27.8	6.9	8.32
Stoneville ST 4892BR	587	16	41.4	4.6	1.05	82.8	27.5	6.7	8.52
HCR 7114	548	17	41.0	4.1	1.04	80.5	25.5	7.8	8.17
Stoneville ST 474*	530	18	41.1	4.7	1.05	82.8	28.0	6.9	8.67

Test Mean	657		39.4	4.3	1.04	82.2	27.2	7.5	8.16
CV (%)	12		2.00	5.96	1.72	1.09	5.54	6.70	4.02
LSD (0.10)	58		0.84	0.27	0.02	0.96	1.61	0.54	0.35
R-Squared	0.68		0.88	0.70	0.55	0.59	0.48	0.59	0.71

Planted: 13 May; Harvested: Oct.

* Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 49: Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Marietta Silt Loam Soil at Mississippi State, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville ST 474*	1441	1	40.2	4.9	1.12	85.5	29.5	7.6	9.28
SS 9901	1395	2	38.1	4.7	1.09	84.3	29.8	7.9	8.17
Stoneville ST 4691B	1359	3	39.2	4.6	1.13	85.2	29.6	7.2	9.24
Sure-Grow 501BR	1323	4	36.8	4.6	1.09	85.3	29.7	8.6	10.25
Paymaster PMX 0425	1313	5	37.2	4.5	1.12	84.5	29.7	8.3	9.38
Deltapine DP 420RR	1310	6	37.1	4.6	1.10	84.6	28.2	8.8	9.54
Sure-Grow 125*	1306	7	38.8	4.7	1.15	86.1	29.3	8.4	9.58
Stoneville ST 4892BR	1305	8	38.4	4.7	1.14	86.1	30.1	7.6	9.92
Sure-Grow 125 BR	1285	9	36.1	4.7	1.10	84.6	28.7	8.6	8.62
Stoneville ST 4793R	1275	10	40.7	4.8	1.11	85.3	28.9	7.8	9.07
Sure-Grow 125 RR	1275	11	37.7	4.4	1.09	83.7	28.6	9.0	9.33
Deltapine DP 409 B/RR	1244	12	36.4	4.2	1.10	83.6	28.4	8.0	9.13
Deltapine DP 451 B/RR	1218	13	35.8	4.7	1.10	84.3	27.7	7.8	9.76
Deltapine DP 429 RR	1216	14	37.0	4.3	1.10	84.0	29.8	7.7	8.64
Deltapine DP 422 B/RR	1194	15	35.2	4.3	1.09	84.2	27.9	9.3	9.54
Deltapine NuCotn 33B*	1193	16	35.7	4.4	1.12	84.8	29.1	8.0	8.87
HCR 7114	1178	17	40.2	3.9	1.11	83.9	27.7	8.2	8.94
Deltapine DP 450 B/RR	1161	18	33.4	4.7	1.11	84.5	27.7	8.4	9.25

Test Mean	1277		37.5	4.6	1.11	84.7	28.9	8.2	9.25
CV (%)	10		2.05	5.54	1.94	0.86	2.63	3.33	8.24
LSD (0.10)	97		0.82	0.27	0.02	0.77	0.81	0.29	0.81
R-Squared	0.37		0.91	0.60	0.52	0.62	0.65	0.86	0.46

Planted: 10 May; Harvested: Sep.

* Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 50. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Leeper Fine Sandy Loam Soil at Verona, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville ST 4793R	1024	1	43.4	5.0	1.10	85.4	30.3	6.5	9.61
Deltapine DP 409 B/RR	1002	2	39.1	4.7	1.08	83.2	28.9	7.3	9.00
Sure-Grow 125 RR	976	3	40.4	5.0	1.09	85.0	32.7	7.9	9.43
Deltapine DP 422 B/RR	961	4	39.2	4.7	1.13	84.7	29.3	7.8	9.72
Stoneville ST 474*	933	5	42.0	5.1	1.08	84.8	28.7	6.8	9.19
Stoneville ST 4691B	930	6	42.1	4.8	1.12	85.0	29.1	6.7	10.07
Paymaster PMX 0425	928	7	38.7	4.6	1.11	85.5	29.7	7.3	9.04
Sure-Grow 125 BR	919	8	38.8	4.9	1.10	84.9	29.7	7.3	9.62
Sure-Grow 501BR	901	9	39.0	5.0	1.11	85.7	32.3	7.7	9.65
Deltapine DP 451 B/RR	888	10	37.0	4.9	1.13	85.7	28.9	6.7	9.73
SS 9901	881	11	39.2	4.6	1.07	82.9	30.4	7.2	8.81
Deltapine DP 429 RR	872	12	38.9	4.7	1.07	83.7	29.0	6.8	8.42
Stoneville ST 4892BR	870	13	42.9	5.3	1.12	85.8	31.7	6.4	9.61
Deltapine DP 420RR	865	14	39.5	4.8	1.08	84.7	29.1	7.8	8.77
Deltapine DP 450 B/RR	837	15	36.3	4.9	1.11	84.8	29.0	7.2	10.07
Deltapine NuCotn 33B*	831	16	36.9	4.7	1.13	84.8	31.8	7.0	8.73
HCR 7114	828	17	40.1	3.8	1.08	84.4	27.1	7.5	7.90
Sure-Grow 125*	807	18	41.2	5.1	1.12	85.6	30.3	7.7	9.06

Test Mean	903		39.7	4.8	1.10	84.8	29.9	7.2	9.25
CV (%)	16		1.84	3.81	1.69	0.96	2.66	3.86	5.35
LSD (0.10)	135		0.97	0.24	0.02	1.09	1.06	0.37	0.53
R-Squared	0.26		0.94	0.87	0.75	0.67	0.87	0.85	0.69

Planted: 13 May; Harvested: 26 Sep.

*Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 51. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Grenada Silt Loam Soil at Holly Springs, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Sure-Grow 501BR	668	1	37.8	5.1	1.01	82.1	32.0	8.4	9.41
Stoneville ST 4691B	575	2	40.2	5.4	1.04	83.1	29.6	6.7	9.36
Deltapine DP 451 B/RR	550	3	34.6	4.9	1.05	82.6	29.2	7.4	9.25
Sure-Grow 125 BR	538	4	37.0	5.0	1.04	82.8	30.2	7.9	9.02
Deltapine DP 409 B/RR	505	5	36.7	4.7	1.03	80.8	29.7	7.3	8.65
Stoneville ST 4892BR	479	6	39.4	4.9	1.04	82.4	30.1	6.8	9.26
Stoneville ST 4793R	460	7	40.0	5.2	1.05	82.9	30.4	6.7	9.90
Deltapine DP 450 B/RR	452	8	34.6	5.2	1.05	82.8	29.2	7.4	9.78
HCR 7114	435	9	39.4	5.0	1.02	81.6	28.6	7.5	9.18
Deltapine DP 422 B/RR	429	10	35.6	4.8	1.02	82.5	29.6	8.3	9.43
Sure-Grow 125 RR	418	11	37.7	5.0	1.01	82.6	29.5	8.3	9.13
SS 9901	401	12	36.9	5.3	1.05	82.6	33.5	7.3	8.71
Deltapine NuCotn 33B*	394	13	35.8	5.2	1.05	82.9	32.3	7.5	8.74
Stoneville ST 474*	391	14	39.7	4.9	1.07	83.1	31.1	7.1	9.10
Deltapine DP 420RR	387	15	36.0	4.8	1.04	83.2	29.6	7.5	9.18
Sure-Grow 125*	383	16	37.9	5.1	1.10	85.0	31.4	8.4	9.31
Paymaster PMX 0425	336	17	36.2	5.1	1.08	84.2	33.3	7.1	9.54
Deltapine DP 429 RR	325	18	35.5	4.6	1.05	81.7	31.2	6.8	8.62
Test Mean	451		37.3	5.0	1.04	82.7	30.6	7.5	9.20
CV (%)	14		2.13	4.16	1.76	0.86	2.52	4.43	3.24
LSD (0.10)	48		0.85	0.22	0.02	0.76	0.82	0.35	0.32
R-Squared	0.73		0.92	0.69	0.76	0.78	0.84	0.82	0.70

Planted: 2 May; Harvested: 11 Oct.

* Early Maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 52. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Collins Silt Loam Soil at Desoto County, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville ST 4892BR	1093	1	40.3	4.4	1.10	85.2	31.8	6.8	10.26
Stoneville ST 4793R	1041	2	40.6	4.9	1.12	85.3	33.0	6.9	10.81
Stoneville ST 4691B	1008	3	39.0	4.4	1.12	85.5	31.6	6.5	10.22
Sure-Grow 501BR	999	4	37.9	4.8	1.11	85.6	35.1	7.6	11.55
Sure-Grow 125 BR	952	5	37.1	4.6	1.10	83.9	31.5	7.9	10.41
Deltapine DP 409 B/RR	940	6	36.8	4.1	1.10	83.6	31.2	7.1	9.93
Stoneville ST 474*	935	7	40.8	4.7	1.12	85.6	32.8	7.1	9.49
Sure-Grow 125*	928	8	37.6	4.6	1.13	84.5	31.3	7.8	9.39
Deltapine DP 451 B/RR	916	9	32.9	4.4	1.13	85.4	31.8	6.7	9.92
HCR 7114	891	10	38.5	4.4	1.09	83.5	29.7	7.5	10.40
Deltapine DP 422 B/RR	865	11	35.2	4.3	1.11	84.5	31.1	8.0	10.60
Sure-Grow 125 RR	843	12	37.7	4.8	1.08	85.8	32.3	7.9	10.63
Paymaster PMX 0425	809	13	36.7	4.7	1.13	85.8	33.7	7.2	10.52
Deltapine NuCotn 33B*	805	14	36.8	4.8	1.11	84.6	32.7	7.1	10.03
Deltapine DP 450 B/RR	798	15	32.9	4.6	1.11	85.5	32.1	7.5	11.61
SS 9901	787	16	36.7	4.8	1.12	84.6	34.0	7.3	9.31
Deltapine DP 429 RR	780	17	35.0	4.3	1.12	85.4	33.0	7.3	10.30
Deltapine DP 420RR	766	18	35.7	4.6	1.10	85.3	32.0	7.5	10.07

Test Mean	897		37.1	4.6	1.11	85.0	32.3	7.3	10.30
CV (%)	10		2.77	4.17	1.65	0.75	2.63	3.38	6.87
LSD (0.10)	66		1.10	0.20	0.02	0.68	0.91	0.26	0.76
R-Squared	0.62		0.88	0.69	0.46	0.67	0.77	0.83	0.59

Planted: 9 May; Harvested: 7 Oct.

*Early maturity check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 53. Performance of Entries in the New Varieties Cotton Variety Trial Grown on a Loring Silt Loam Soil at Raymond, MS, in 1999.

Variety Name	Lint Yield #/A	Rank	Lint Percent %	Micronaire	Length (UHM) in	Uniformity Index %	Strength (HVI) g/tex	Elongation %	Seed Index
Stoneville ST 4793R	1138	1	43.5	5.0	1.03	82.0	28.4	7.5	9.30
Stoneville ST 4691B	1086	2	42.9	4.9	1.04	82.3	27.2	7.1	9.27
Sure-Grow 125*	1068	3	42.0	4.7	1.06	83.0	27.0	8.3	8.96
Deltapine DP 450 B/RR	1029	4	37.2	4.9	1.06	82.4	26.5	7.6	10.20
Deltapine DP 422 B/RR	1003	5	38.8	4.5	1.03	81.9	26.6	8.6	9.32
Stoneville ST 4892BR	991	6	42.7	5.2	1.02	82.1	27.8	7.1	9.46
Stoneville ST 474*	982	7	42.9	5.4	1.02	81.9	26.9	7.7	9.08
HCR 7114	948	8	41.5	4.7	1.00	80.6	24.6	8.7	9.05
Sure-Grow 501BR	942	9	39.8	4.9	1.02	82.3	29.5	7.8	9.05
Deltapine NuCotn 33B*	936	10	38.8	4.7	1.05	82.9	27.9	7.8	8.81
Sure-Grow 125 RR	934	11	39.6	4.6	1.02	82.8	27.6	8.3	8.82
Deltapine DP 409 B/RR	925	12	40.0	4.7	1.01	80.6	25.8	8.2	8.52
Deltapine DP 420RR	905	13	40.5	4.6	1.06	82.7	27.7	7.9	8.87
SS 9901	900	14	40.0	4.8	1.00	81.1	27.8	7.5	8.38
Paymaster PMX 0425	893	15	41.7	4.4	1.06	82.1	28.2	7.3	9.09
Deltapine DP 429 RR	884	16	38.9	4.1	1.05	82.1	28.5	7.3	8.82
Sure-Grow 125 BR	865	17	37.1	4.5	1.03	82.4	27.5	8.2	9.87
Deltapine DP 451 B/RR	768	18	37.4	4.7	1.07	82.2	25.8	7.2	9.18
Test Mean	955		40.3	4.7	1.03	82.1	27.3	7.8	9.11
CV (%)	16		3.06	5.27	1.33	0.86	3.20	3.78	8.04
LSD (0.10)	139		1.64	0.33	0.02	0.94	1.16	0.39	0.67
R-Squared	0.38		0.86	0.75	0.84	0.68	0.83	0.86	0.41

Planted: 6 May; Harvested: Oct.

*Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 54. Lint Yield of Entries in the Hill Transgenic Yields in the Early Maturing Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations											
			Brooksville		MSU		Verona		Holly Springs		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL														
PhytoGen PSC 355	957	3	713	4	1609	3	1152	1	392	22	1069	8	833	27
MISCOT 8806-3-2-19	949	4	670	13	1648	2	988	10	314	30	1226	2	815	29
Paymaster PM 1440	947	6	690	9	1406	18	985	11	626	6	1048	14	940	14
Sure-Grow 747	927	10	639	24	1541	6	941	16	356	27	1142	6	960	11
PhytoGen PSC 952	918	11	612	27	1561	4	1014	5	376	24	1019	20	975	8
Deltapine DP 388	917	12	642	21	1469	13	944	14	561	12	979	22	917	16
AgriPro AP 7115	913	13	685	10	1311	28	894	24	606	9	938	25	1097	3
Stoneville ST 474	910	14	505	33	1520	9	833	31	381	23	1160	4	1093	4
Deltapine DP 5111	909	15	640	23	1380	22	910	19	576	10	1037	17	909	17
Sure-Grow 105	905	17	659	16	1495	10	1016	4	315	29	1096	7	880	21
PhytoGen PSC 636	903	18	713	5	1328	25	908	20	517	15	1015	21	958	12
ACSI Fibermax 819	888	21	612	26	1421	16	943	15	488	17	961	23	934	15
ACSI Fibermax FM 958	888	22	659	15	1549	5	971	12	281	32	1020	19	869	22
MISCOT 8839-3-10-2	888	23	642	22	1523	8	860	29	373	25	1059	10	847	26
Sure-Grow 125	883	24	663	14	1467	14	1000	7	321	28	941	24	972	9
SS 9806	878	25	698	8	1470	12	1016	3	266	34	829	30	1113	1
HCR 9220	871	26	580	31	1322	27	998	8	613	7	900	26	852	25
Sure-Grow 501	851	27	583	30	1428	15	1028	2	295	31	1054	13	744	32
RGC 9811	840	28	652	18	1404	19	867	28	373	26	882	28	890	19
PhytoGen PSC 569	818	31	598	28	1414	17	919	18	439	19	593	33	1058	5
HCR 7114-46	817	32	538	32	1047	34	954	13	645	5	900	27	886	20
Terra 292	787	33	631	25	1234	31	903	22	421	20	800	32	762	31
Terra 366	592	34	464	34	1079	33	733	33	270	33	316	34	812	30
BOLLGARD (Bt)														
Deltapine DP 20 B	932	8	699	7	1328	26	901	23	538	14	1067	9	1103	2
Paymaster PM 1330 BG	908	16	648	20	1357	24	940	17	567	11	1038	16	908	18
Deltapine DP 428 B	902	19	702	6	1377	23	800	32	492	16	1153	5	831	28
Paymaster PM 1560 BG	897	20	673	12	1393	20	628	34	608	8	1040	15	978	7
HERBICIDE RESISTANT														
Paymaster PM 1220 RR	996	2	679	11	1391	21	875	27	916	1	1059	11	1026	6
Stoneville BXN 47	938	7	590	29	1526	7	993	9	404	21	1241	1	868	23
Deltapine DP 436 RR	830	29	658	17	1234	32	881	26	477	18	834	29	955	13
Deltapine DP 425 RR	822	30	649	19	1276	30	887	25	548	13	823	31	744	33
BOLLGARD & ROUNDUP READY														
Paymaster PM 1218 BG/RR	1048	1	773	1	1652	1	1001	6	660	4	1194	3	963	10
Paymaster PM 1220 BG/RR	949	5	715	3	1477	11	851	30	707	3	1023	18	856	24
Deltapine DP 451 B/RR	929	9	726	2	1308	29	904	21	817	2	1054	12	672	34
Test Mean	891		647		1410		925		486		985		912	
CV (%)	14		11		8		17		10		12		21	
LSD (0.10)	40		53		86		144		36		88		178	
R-squared	0.90		0.64		0.68		0.34		0.93		0.74		0.44	
*Early Maturity Check														
Shaded values are not statistically different than the highest value in each column at the 10% level of significance.														

Table 55. Lint Yield of Entries in the Hill Transgenic Yields in the Mid-Maturity Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations									
			Brooksville		MSU		Verona		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL												
ACSI Fibermax FM 966	981	1	564	13	1587	1	835	3	915	5	944	6
Stoneville ST 474*	974	2	584	10	1462	2	828	4	939	3	1026	2
Sure-Grow 747*	954	4	709	1	1458	3	865	1	732	9	988	3
ACSI Fibermax 832	926	6	633	4	1344	6	793	7	933	4	861	10
HCR 9257	892	8	650	3	1340	7	709	12	798	7	906	7
ACSI Fibermax 989	882	9	585	9	1362	5	836	2	758	8	839	11
AgriPro HS 46	833	11	580	12	1310	9	791	8	615	11	864	9
AgriPro AP 6101	819	12	606	7	1339	8	732	10	565	12	826	13
HCR 7126	769	13	626	5	1223	13	693	13	467	13	834	12
BOLLGARD (Bt)												
Deltapine DP 448 B	947	5	621	6	1392	4	805	5	976	2	864	8
Paymaster PM 1560 BG	967	3	652	2	1277	12	795	6	1082	1	975	4
Deltapine NuCotn 33 B*	874	10	597	8	1293	11	729	11	727	10	1026	1
BOLLGARD & ROUNDUP READY												
Paymaster PM 1560 BG/RR	904	7	583	11	1301	10	759	9	897	6	947	5
Test Mean	902		615		1361		782		800		915	
CV (%)	11		11		6		14		13		12	
LSD (0.10)	35		52		63		102		78		98	
R-squared	0.92		0.68		0.65		0.37		0.78		0.52	

*Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 56. Lint Yield of Entries in the Hill Transgenic Yields in the New Varieties Cotton Variety Trials at Mississippi Hill Locations During 1999.

Variety Name	Hill Mean		Locations											
			Brooksville		MSU		Verona		Holly Springs		DeSoto Co.		Raymond	
	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank	Lint Yield #/A	Rank
CONVENTIONAL														
Sure-Grow125*	858	7	707	5	1306	7	807	18	383	16	928	8	1068	3
StonevilleST 474*	857	8	530	18	1441	1	933	5	391	14	935	7	982	7
SS 9901	844	11	734	2	1395	2	881	11	401	12	787	16	900	14
Paymaster PMX 0425	827	13	737	1	1313	5	928	7	336	17	809	13	893	15
HCR 7114	794	16	548	17	1178	17	828	17	435	9	891	10	948	8
BOLLGARD (Bt)														
StonevilleST 4691B	920	1	618	13	1359	3	930	6	575	2	1008	3	1086	2
Deltapine NuCotn 33B*	787	17	628	12	1193	16	831	16	394	13	805	14	936	10
HERBICIDE RESISTANT														
StonevilleST 4793R	903	3	601	15	1275	10	1024	1	460	7	1041	2	1138	1
Sure-Grow 125 RR	844	12	692	6	1275	11	976	3	418	11	843	12	934	11
Deltapine DP 420RR	812	14	686	7	1310	6	865	14	387	15	766	18	905	13
Deltapine DP 429 RR	782	18	682	8	1216	14	872	12	325	18	780	17	884	16
BOLLGARD & ROUNDUP READY														
Sure-Grow 501BR	917	2	673	10	1323	4	901	9	668	1	999	4	942	9
StonevilleST 4892BR	882	4	587	16	1305	8	870	13	479	6	1093	1	991	6
DeltapineDP 409 B/RR	872	5	676	9	1244	12	1002	2	505	5	940	6	925	12
Sure-Grow 125 BR	868	6	664	11	1285	9	919	8	538	4	952	5	865	17
DeltapineDP 422 B/RR	849	9	728	3	1194	15	961	4	429	10	865	11	1003	5
Deltapine DP 451 B/RR	846	10	723	4	1218	13	888	10	550	3	916	9	768	18
DeltapineDP 450 B/RR	799	15	607	14	1161	18	837	15	452	8	798	15	1029	4
Test Mean	848		657		1277		903		451		897		955	
CV (%)	13		12		10		16		14		10		16	
LSD (0.10)	73		58		97		135		48		66		139	
R-squared	0.89		0.68		0.37		0.26		0.73		0.62		0.38	

*Early Maturity Check

Shaded values are not statistically different than the highest value in each column at the 10% level of significance.

Table 60: Stoneville Production Data

Row Width	40 inches	
Planting Date	5/10/99	
Soil Type	Bosket Very Fine Sandy Loam	
In Furrow Treatments	5/10/99 - Temik @ 5.0 lbs./acre	
	5/10/99 - Terraclor Super-X @ 8.0 lbs./acre	
Fertilizer	2/16/99 - Potash (60%k2O) @ 200 lbs./acre	
	4/22/99 - UAN (32% N) @ 99.8 lbs./acre	
Tillage	5/14/99	6/8/99
	5/27/99	7/1/99
Herbicides	3/1/99 - Treflan EC @ 1 pt./acre	5/10/99 - Zorial Rapid 80 @ 0.125 lb./acre
	3/1/99 - Zorial Rapid 80 @ 0.25 lb./acre	6/8/99 - Staple @ 1.2 oz./acre
	5/10/99 - Cotoran 4L @ 1 pt./acre	7/1/99 - Bladex 4L @ 0.8 qt./acre
Insecticide	5/21/99 - Bidrin 8L @ 3.2 oz./acre	7/7/99 - Decis 1.5 EC @ 2 oz./acre
	5/27/99 - Orthene 90S @ 0.25 lb./acre	7/15/99 - Decis 1.5 EC @ 2 oz./acre
	6/11/99 - Malathion @ 0.5 pt./acre	7/29/99 - Karate @ 2 oz./acre
	6/18/99 - Bidrin 8L @ 8 oz./acre	8/5/99 - Fury 1.5 EC @ 2.8 oz./acre
	7/1/99 - Provado 1.6F @ 4 oz./acre	
Growth Regulator	7/13/99 - Pix @ 8 oz./acre	
Defoliate/Desiccant	Dropp + Prep	
Irrigation	6/18/99	7/27/99
	7/13/99	8/3/99
	7/19/99	8/9/99
Harvest Date	9/30/99 & 10/7/99	
Second Pick	N/A	

Table 61. Tunica Production Data

Row Width	38 inches	
Planting Date	5/13/99	
Soil Type	Dundee Sandy Loam	
In Furrow Treatments	5/1/99 - Temik @ 3.2 lb/acre	
Fertilizer	N/A	
Tillage	N/A	
Herbicides	4/10/99 - Treflan @ 1.4 pt./acre	6/3/99 - Staple @ 0.6 oz./acre
	5/5/99 - Cotoran @ 1 pt./acre	7/7/99 - Bladex @ 1qt./acre
Insecticide	6/5/99 - Meythl @ 1-12gal.	7/25/99 - Baythroid @ 1-64
	6/5/99 - Dimetholate	8/10/99 - Baythroid @ 1-64
Growth Regulator	N/A	
Defoliate/Desiccant	Dropp + Prep	
Irrigation	N/A	
Harvest Date	9/23/99 & 9/24/99	
Second Pick	N/A	

Table 62. Clarksdale Production Data

Row Width	38 inches	
Planting Date	5/12/99	
Soil Type	Bosket Very Fine Sandy Loam	
In Furrow Treatments	5/12/99 - Temik @ 5.0 lbs./acre	
	5/12/99 - Terraclor Super-X @ 8.0 lbs./acre	
Fertilizer	N/A	
Tillage		
Herbicides	- Prowl @ 1.8 pt./acre ppi.	6/15/99 - Caparol + MSMA @ 2pt./acre
	- Cotoran 4L @ 1 to 10 lbs./gal.	7/1/99 - Bladex 4L @ 2.5 pt./acre
	5/26/99 - Staple @ 1.2 oz./acre	
Insecticide	6/10/99 - Orthene @ .33 lbs./acre	7/9/99 - Decis @ 1.25 lbs./acre
	6/17/99 - Orthene @ .33 lbs./acre	7/17/99 - Decis + Curacron @ 1.25 +1.32 lbs./acre
	6/25/99 - Orthene @ .33 lbs./acre	7/25/99 - Decis + Curacron @ 1.25 +1.16 lbs./acre
	7/7/99 - Bidrin @ 1 to 10 lbs./gal.	8/13/99 - Decis + Curacron @ 1.25 +1.16 lbs./acre
Growth Regulator		
Defoliate/Desiccant	Dropp + Prep	
Irrigation		
Harvest Date	10/4/99 & 10/12/99	
Second Pick		

Table 63. Rolling Fork Production Data

Row Width	38 inches	
Planting Date	4/29/99	
Soil Type	Commerce Very Fine Sandy Loam	
In Furrow Treatments	4/29/99 - Temik @ 5.0 lbs./acre	
	4/29/99 - Terraclor Super-X @ 8.0 lbs./acre	
Fertilizer	2/25/99 - UAN (32% N) @ 60.2 lbs./acre	
Tillage	5/24/99	
	6/17/99	
Herbicides	5/24/99 - Staple @ 0.32 oz./acre	6/29/99 - Bladex 4L @ 1.25 qt./acre
	6/17/99 - Bladex 4L @ 0.42 qt./acre	6/29/99 - Direx 4L @ 2.5 pt./acre
	6/17/99 - MSMA 6.6 @ 1.02 pt./acre	9/21/99 - Starfire @ 0.4 pt./acre
Insecticide	5/15/99 - Orthene 90S @ 0.22 lbs./acre	6/30/99 - Furadan 4F @ 0.5 pt./acre
	6/19/99 - Bidrin 8L @ 8 oz./acre	
Growth Regulator	7/15/99 - Pix @ 10 oz./acre	
Defoliate/Desiccant	9/17/99 - Def 6 @ 0.8 pt./acre	9/21/99 - Sodium Chlorate 3L @ 1gal./acre
	9/17/99 - Finish @ 0.4 pt./acre	
Irrigation	N/A	
Harvest Date	10/7/99 & 10/12/99	
Second Pick	N/A	

Table 64. Tribbett Production Data

Row Width	40 inches	
Planting Date	4/26/99	
Soil Type	Forestdale-like Silty Clay Loam Soil	
In Furrow Treatments	4/26/99 - Temik @ 5.0 lbs./acre	
	4/26/99 - Terraclor Super-X @ 8.0 lbs./acre	
Fertilizer	2/25/99 - Potash (60% K2O) @ 120 lbs./acre	
	4/20/99 - UAN (32% N) @ 120 lbs./acre	
Tillage	5/21/99	
	6/8/99	
	7/2/99	
Herbicides	4/29/99 - Dual 8E @ 1.5 pt./acre	6/8/99 - Staple @ 1.2 oz./acre
	4/29/99 - Cotoran 4L @ 1.5 pt./acre	7/02/99 - Bladex 4L @ 0.8 qt./acre
	4/29/99 - Zorial Rapid 80 @ 0.25 lbs./acre	7/02/99 - Cobra @ 12.5 oz./acre
Insecticide	5/21/99 - Bidrin 8L @ 8 oz./acre	7/16/99 - Asana XL @ 6.4 oz./acre
	6/4/99 - Bidrin 8L @ 8 oz./acre	7/31/99 - Fury 1.5EC @ 2.8 oz./acre
	6/18/99 - Bidrin 8L @ 8 oz./acre	8/5/99 - Fury 1.5EC @ 2.8 oz./acre
	6/28/99 - Provado 1.6F @ 4 oz./acre	8/13/99 - Fury 1.5EC @ 2.8 oz./acre
	7/9/99 - Decis 1.5EC @ 2 oz./acre	
Growth Regulator	N/A	
Defoliate/Desiccant	Dropp + Prep	
Irrigation	N/A	
Harvest Date	9/22/99	
Second Pick	N/A	

Table 65. Choctaw Production Data

Row Width	30 inches	
Planting Date	5/17/99	
Soil Type	Pearson Silt Loam	
In Furrow Treatments	5/17/99 - Temik @ 5.0 lbs./acre	
	5/17/99 - Terraclor Super-X @ 8.0 lbs./acre	
Fertilizer		
Tillage		
Herbicides		
Insecticide		
Growth Regulator		
Defoliate/Desiccant	Dropp + Prep	
Irrigation		
Harvest Date	10/13/99 & 10/14/99	
Second Pick	N/A	

Table 66. Brooksville Production Data

Row Width	30 inches	
Planting Date	5/13/99	
Soil Type	Brooksville Silty Clay	
In Furrow Treatments	5/13/99 - Temik @ 5 lbs./acre	
	5/13/99 - Ridomil Gold PC @ 7 lbs./acre	
Fertilizer		
Tillage		
Herbicides	5/13/99 - Cotoran 4L @ 2 lbs./acre pre.	
	5/13/99 - Zorial @ 2 lbs./acre pre.	
	6/22/99 - Staple @ 1.2 oz./acre	
Insecticide	6/18/99 - Orthene 90s @ 1 to 4	7/22/99 - Karate @ 1 to 32
	6/28/99 - Tracer @ 1 to 64	7/27/99 - Karate @ 1 to 32
	- Bidrin	8/3/99 - Karate @ 1 to 25
	- Curacron	
Growth Regulator	7/22/99 - Pix Plus @ 20 oz./acre	
Defoliate/Desiccant	9/24/99 - Harvade + Boll'D + COC*	10/15/99 - Starfire + COC
	@ .5 pt. + 1.5 pt. + 1pt./acre	@ ---- + 1pt./acre
Irrigation	N/A	
Harvest Date		
Second Pick		

* Crop Oil Concentrate

Table 67. Mississippi State University Production Data

Row Width		
Planting Date	5/10/99	
Soil Type	Marietta Silt Loam	
In Furrow Treatments	5/10/99 - Temik @ 5 lbs./Acre	
	5/10/99 - Ridomil Gold PC @ 7 lbs./Acre	
Fertilizer		
Tillage		
Herbicides	- Treflan @ 1 lb./acre ppi.	
	5/10/99 - Zorial @ .5 lb./acre ppi.	
	5/10/99 - Cotoran 4L @ 1 lb./acre pre.	
Insecticide	6/14/99 - Orthene 90s @ 1 to 4	7/8/99 - Tracer @ 1 to 32
	6/21/99 - Karate @ 1 to 42	7/22/99 - Karate @ 1 to 32
	6/24/99 - Larvin + Curacron @	7/29/99 - Karate @ 1 to 32
	1 to 10 + 1 to 12	
Growth Regulator	7/20/99 - Pix Plus @ 20 oz./acre	
Defoliate/Desiccant	9/10/99 - Dropp + Boll'D	9/21/99 - Dropp + Boll'D + Harvade
	@ 1 to 4 + 1pt./acre	@ 1 to 4 + 1.5 pt. + .5 pt./acre
Irrigation	8/16/99	
Harvest Date		
Second Pick		

Table 68. Verona Production Data

Row Width	38 inches	
Planting Date	5/13/99	
Soil Type	Leeper Fine Sandy Loam	
In Furrow Treatments	5/13/99 - Temik @ 5.0 lb./acre	
	5/13/99 - Granular Ridomil 11G @ 0.88	
Fertilizer	10/28/98 - Granular Potash (0-0-60) @ 167 lbs./acre	10/28/98 - K2O @ 100 lbs./acre
	10/28/98 - Superphosate (0-46-0) @ 167 lbs./acre	6/15/99 - UAN (32% N) @ 80 lbs. N/acre
Tillage		
Herbicides	3/1/99 - Roundup Ultra @ 0.75 lb. ai./acre	6/5/99 - Staple @ 0.85 oz. ai/acre
	5/13/99 - Gromoxone + Dual + Meturon + Cypro @ 0.47 + 1.5 + 1.2 + 0.5 lb. ai/acre	6/18/99 - MSMA + Meturon @ 2.0 + 0.8 lb. ai/acre 7/15/99 - MSMA + Cypro @ 2.0 + 1.25 lb. ai/acre
Insecticide	5/18/99 - Orthene @ 0.2 lb. ai/acre	7/22/99 - Karate + Tracer @ 0.03 + 0.045 lb. ai/acre
	6/11/99 - Tracer @ 0.045 lb. ai/acre	7/26/99 - Karate + Tracer @ 0.03 + 0.079 lb. ai/acre
	6/3/99 - Orthene @ 0.2 lb. ai/acre	8/3/99 - Orthene + Bidrin @ 0.5 + 0.4 lb. ai/acre
	6/21/99 - Tracer @ 0.045 lb. ai/acre	8/4/99 - Malathion ULV @ 11 oz./acre
	7/3/99 - Tracer + Bidrin @ 0.045 + 0.4 lb. ai/acre	8/18/99 - Ammo + Tracer @ 0.1 + 0.045 lb. ai/acre
	7/8/99 - Malathion ULV @ 11 oz./acre	8/27/99 - Kelthane @ 1.5 lb. ai/acre
	7/14/99 - Tracer + Fury @ 0.045 + 0.035 lb. ai/acre	9/1/99 - Kelthane + Orthene @ 1.0 + 1.1 lb. ai/acre
Growth Regulator	7/14/99 - Pix Ultra @ 10 oz./acre	
Defoliate/Desiccant	9/9/99 - Folex + Dropp @ 0.75 + 0.05 lb. ai/acre	
	10/12/99-Sodium Chlorate @ 4.5 lb. ai./acre	
Irrigation	N/A	
Harvest Date	9/26/99	
Second Pick	10/26/99	

Table 69. Holly Springs Production Data

Row Width	38 inches	
Planting Date	5/2/99	
Soil Type	Grenada Silt Loam	
In Furrow Treatments	5/2/99 - Temik @ 5.0 lb./acre	
	5/2/99 - Di-Syston @ 5.0 lb./acre	
Fertilizer	(17-17-17) @ 400lbs./acre	
Tillage	N/A	
Herbicides	4/18/99 - Bladex @ 1.5 pt./acre	6/4/99 - Assure II @ 8.0 oz./acre
	4/18/99 - Gramoxone @ 1.0 qt./acre	6/10/99 - Fusilade @ 12.0 oz./acre
	5/13/99 - Cotoran @ 1.0 pt./acre	6/17/99 - Select @ 8.0 oz./acre
	5/3/99 - Roundup @ 1.0 qt./acre	7/9/99 - Bladex @ 1.0 qt./acre
	6/4/99 - Staple @ 1.2 oz./acre	7/9/99 - MSMA @ 1.0 qt./acre
Insecticide	6/3/99 - Bidrin @ 2.4 oz./acre	7/14/99 - Bidrin @ 4.0 oz./acre
	6/10/99 - Bidrin @ 3.0 oz./acre	7/29/99 - Dimilin @ 2.0 oz./acre
	6/17/99 - Bidrin @ 3.0 oz./acre	8/12/99 - Orthene 90 S @ 1.0 lb. ai.
	7/6/99 - Bidrin @ 4.0 oz./acre	8/16/99 - Lannate LV @ 1.5 pt./acre
	7/6/99 - Dimilin @ 2.0 oz./acre	8/27/99 - Lannate LV @ 0.5 pt./acre
Growth Regulator	7/14/99 - Pix Ultra @ 8.0 oz./acre	
	7/29/99 - Pix Ultra @ 8.0 oz./acre	
Defoliate/Desiccant	Prep @ 1.0 qt. / acre	
	Def @ 1.0 qt. / acre	
Irrigation	N/A	
Harvest Date	10-11-99	
Second Pick	N/A	

Table 70. Desoto County Production Data

Row Width	38 inches	
Planting Date	5/9/99	
Soil Type	Collins Silt Loam	
In Furrow Treatments	5/2/99 - Temik @ 5.0 lb./acre	
	5/2/99 - Di-Syston @ 5.0 lb./acre	
Fertilizer	(25-20-20) @ 400lbs./ acre	
Tillage	N/A	
Herbicides	5/9/99 - Cotoran @ 1.0 qt./acre	6/21/99 - MSMA @ 1.5 qt./acre
	6/4/99 - Staple @ 1.2 oz./acre	7/1/99 - Bladex @ 1.0 qt./acre
	6/4/99 - Assure II @ 8.0 oz./acre	7/1/99 - MSMA @ 1.0 qt./acre
	6/21/99 - Staple @ 1.2 oz./acre	
Insecticide	6/2/99 - Bidrin @ 4.0 oz./acre	
	7/14/99 - Orthene 908 @ 1.0 lb.ai.	
Growth Regulator	6/30/99 - Pix Ultra @ 8.0 oz./acre	
	7/24/99 - Pix Ultra @ 12.0 oz./acre	
Defoliate/Desiccant	Prep @ 1.0 qt. / acre	
	Def @ 1.0 qt. / acre	
Irrigation	N/A	
Harvest Date	10-7-99	
Second Pick	N/A	

Table 71. Raymond Production Data

Row Width	38 inches	
Planting Date	5/6/99	
Soil Type	Loring Silt Loam	
In Furrow Treatments		
Fertilizer	4/9/99 - 1.0 ton lime/acre	
	4/8/99 - 0-26-26 @ 200 lb/acre	
	4/19/99 - 90 lb N/acre (N-sol)	
Tillage		
Herbicides	5/5/99 - Treffan @ 1.5 pt/acre ppi	
	5/7/99 - Cotoran @ 1.0 qt/acre pre	
	6/1/99 - Staple @ 1.5 oz/acre OT	
Insecticide	5/24/99 - Bidrin @ 0.2 lb/acre	8/3/99 - Karate @ 0.04 lb/acre
	8/3/99 - Monitor @ 0.5 lb/acre	8/3/99 - Pix @ 10 oz/acre
Growth Regulator		
Defoliate/Desiccant	9/17/99 - Dropp @ 0.2 lb/acre	
	9/17/99 - Harvade @ 8 oz/acre	
Irrigation		
Harvest Date	10/15/99	
Second Pick		

Table 72. Participating Companies and Varieties Entered

Companies	Varieties	Test
Agipro Seeds, Inc. 6075 Poplar Ave, Suite 435 Memphis, TN 38119	AP 6101	Mid Delta, Mid Hills
	AP 7115	Early Delta, Early Hills
	HS 46	Mid Delta, Mid Hills
Aventis Crop Science 311 Popular View Lane West Collierville, TN 38017	Fibermax 819	Early Delta, Early Hills
	Fibermax 832	Mid Delta, Mid Hills
	Fibermax 958	Early Delta, Early Hills
	Fibermax 966	Mid Delta, Mid Hills
	Fibermax 989	Mid Delta, Mid Hills
Delta and Pine Land Company P.O. Box 157 Scott, MS 38772	DP 20 B*	Early Delta, Early Hills
	DP 388	Early Delta, Early Hills
	DP 409 B/R*,**	New Delta, New Hills
	DP 420RR**	New Delta, New Hills
	DP 422 B/R*,**	New Delta, New Hills
	DP 425 RR**	Early Delta, Early Hills
	DP 428 B*	Early Delta, Early Hills
	DP 429 RR**	New Delta, New Hills
	DP 436 RR**	Early Delta, Early Hills
	DP 448 B*	Mid Delta, Mid Hills
	DP 450 B/RR*,**	New Delta, New Hills
	DP 451 B/RR*,**	New Delta, Early Hills, New Hills
	DP 458 B/RR*,**	Mid Delta
	DP 5111	Early Delta, Early Hills
	DP 5415 RR**	Mid Delta
	DP 675	Mid Delta
	NuCotn 33 B*	Early Delta, Mid Delta, New Delta, Mid Hills, New Hills
	PM 1218 BG/RR*,**	Early Delta, Early Hills
	PM 1220 BG/RR*,**	Early Delta, Early Hills
	PM 1220 RR**	Early Delta, Early Hills
	PM 1330 BG*	Early Delta, Early Hills
	PM 1440	Mid Delta, Early Hills
	PM 1560 BG*	Early Delta, Mid Delta, Early Hills, Mid Hills
	PM 1560 BG/RR*,**	Mid Delta, Mid Hills
	PMX 0425	New Delta, New Hills
	SG 105	Early Delta, Early Hills
	SG 125	Early Delta, New Delta, Early Hills, New Hills
SG 125 B/R*,**	New Delta, New Hills	
SG 125 R**	New Delta, New Hills	
SG 501	Early Delta, Early Hills	
SG 501 B/R*,**	New Delta, New Hills	
SG 747	Early Delta, Mid Delta, Early Hills, Mid Hills	
Helena Cotton Research 2250 North Pinal Ave, Suite #3 Casa Grande, AZ 85222	HCR 71114-46	Early Delta, Early Hills
	HCR 7114	New Delta, New Hills
	HCR 7126	Mid Delta, Mid Hills
	HCR 9220	Early Delta, Early Hills
	HCR 9257	Mid Delta, Mid Hills
Mississippi State University Ted Wallace, Ph.D. Box 9555 Mississippi State, MS 39762	MISCOT 8806-3-2-19	Early Delta, Early Hills
	MISCOT 8839-3-10-2	Early Delta, Early Hills
USDA-ARS & Mississippi State University Roy G. Creech, Ph.D.	RGC 9811	Early Delta, Early Hills

Companies	Varieties	Test
P.O. Box 5367 Mississippi State, MS 39762		
Olvey & Assoc., Inc Jim Olvey 37860 West Smith-Enke Maricopa, AZ 85239	OA-36 OA-44 OA-50 OA-66 OA-77	Mid Delta Mid Delta Mid Delta Mid Delta Mid Delta
PhytoGen 3790 Old Hwy 61 Leland, MS 38756	PhytoGen PSC 355 PhytoGen PSC 569 PhytoGen PSC 636 PhytoGen PSC 952	Early Delta, Early Hills Early Delta, Early Hills Early Delta, Early Hills Early Delta, Early Hills
Seed Source, Inc. 106 Fourth Street Leland, MS 38756	SS 9801 SS 9806 SS 9815 SS 9901	Early Delta Early Delta, Early Hills Mid Delta New Delta, New Hills
Stoneville Pedigreed Seed Co. 6625 Lenox Park Drive, Suite 117 Memphis, TN 38187	ST 4691 B* ST 474 BXN 47*** ST 4892 BR*,** ST 4793R**	New Delta, New Hills All Test Early Delta, Early Hills New Delta, New Hills New Delta, New Hills
Tri-State Delta 6800 Poplar Ave, Suite 100 P.O. Box 382550 Memphis, TN 38183-2550	Dyna-Gro X 2387c	Mid Delta
Terra International, Inc 600 Fourth Street, POB 6000 Sioux City, Iowa 51102-6000	Terra 292 Terra 366	Early Delta, Early Hills Early Hills
NE Research & Extension Ctr. Fred Bourland, Director East Main Street P.O. Box 48 Keiser, AR 72351	ARK-8712	New Delta

* Indicates transgenic Bt variety with resistance to tobacco budworm

** Indicates transgenic Roundup Ready variety with resistance to Roundup Ultra herbicide

*** Indicates transgenic BXN variety with resistance to Buctril herbicide

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