PERFORMANCE OF FIELD CROPS IN SOUTH CAROLINA - 1994

SECTION 3 - COTTON

O. L. May, M. J. Sullivan, D. S. Howle, D. K. Barefield, Jr., R. E. Chrestman, F. M. Gray, O. F. Heath, T. W. Smith, and G. M. Veasey

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FOREWORD

This publication has been developed to provide cotton performance data for growers, extension personnel, seed producers, seed dealers, and other agricultural workers and agencies. These results should help growers select the most profitable hybrids for individual farm conditions and management programs.

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SECTION III

PERFORMANCE OF COTTON CULTIVARS AND STRAINS IN SOUTH CAROLINA - 1994

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INTRODUCTION

The South Carolina Agricultural Experiment Station conducts tests to determine the relative performance of selected cotton cultivars and advanced strains. This is done on an annual basis so cultivar performance can be evaluated under a range of environmental conditions.

This publication reports the results of tests conducted at two locations in 1994 with multiple-year and multiple-location averages when available. Performance data for lint yield and lint percentage for the cultivars and strains evaluated in 1994 are reported. This information should be of value to cotton seed producers, ginners, buyers, agricultural Extension Agents, consultants, and other agriprofessionals.

Tests were conducted at the Edisto Research and Education Center, Blackville, S.C., and at the Pee Dee Research and Education Center, Florence, S.C. The soil type at Blackville was a Varina loamy sand, and at Florence it was a Norfolk fine sandy loam.

PLOT TECHNIQUES

Cone seed-distributors mounted on a commercial tractor-drawn planter were used to plant at both locations. The tests were thinned to two plants per row foot. Row lengths were trimmed to 35 ft. early in the season at both locations. In the advanced test six replications of each entry were planted at Florence and eight replications were planted at Blackville. Two replications with the highest and lowest average yield were trimmed from the Blackville data. In the preliminary test four replications of each entry were planted at both locations.

Commercial two-row spindle pickers were adapted and used for harvesting. One harvest was made at both Florence and Blackville.

Samples of harvested cotton were taken from each plot of four replications at Blackville and Florence and ginned on a laboratory model gin to determine lint percentage. Fiber properties are determined on the lint samples obtained after ginning. Results of these tests are contained in Section IV - Cotton Fiber Properties.

DIFFERENCES IN YIELD

Experimental plots for testing a set of cultivars are chosen to be as uniform as possible consistent with irrigation, machine harvesting, or other necessary operations. Nevertheless, there always are differences among plots in soil fertility, soil moisture, insect infestation, disease prevalence, and other unidentified factors that affect the expression of lint yield, maturity, and other plant characteristics. Observed differences between cultivar means must therefore be considered on the basis of probability as to whether the cultivars actually do or do not differ.

The "least significant difference" (L.S.D.) calculated at the 10% level of probability is a statistic used here to separate cultivars in terms of performance characteristics. In order for two cultivars to be considered truly different for the characteristic in question, the difference between cultivars being compared must exceed the L.S.D. value. Choice of the 10% level of probability means that the L.S.D. will indicate a genetic

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difference no more than 10% of the time when there really is no difference. Thus we can expect at least 90% of the observed differences between cultivars to be true differences when they exceed the L.S.D. Coefficients of variation (C.V.'s) listed at the bottom of the tables reflect the relative precision with which the test was conducted. Relatively lower values indicate greater precision.

Confidence in the relative rankings of cultivars increases as the number of years tested at a given location increase. Confidence in the relative merits of cultivars also increases with an increase in the number of locations used to test in one year. Data thus collected can substitute to some degree for multiple-year data. However, it should be recognized that some condition at one location may cause an otherwise high performing cultivar to perform poorly at that location; e.g., a cultivar could produce the highest yield at Florence but produce poorly at Blackville because of susceptibility to a nematode. Also, relative performance of cultivars may differ at a given location under the varying weather conditions in different years.

Multiple-year location and coastal plain averages are included in this circular. These averages provide increased accuracy for estimating the relative genetic potential of cultivars under varying growing conditions. Multiple-year averages for single locations that differ markedly from the coastal plain averages should be carefully considered as they may indicate especially good adaptation of the cultivar to a limited area or a negative reaction to some factor or factors present in a particular area.

CHOICE OF CULTIVAR

Many factors govern the choice of a cotton cultivar. Although yield usually receives the first consideration, other characteristics which may be equally, or more, important are certain quality measurements and market acceptability. Resistance of cotton cultivars to fusarium wilt and rootknot nematodes is a primary consideration if maximum production is to be obtained, especially on certain coarse textured soils of the Coastal Plain. At this point in time there is no rootknot nematode resistant cultivar on the market.

Yield. Although many factors affect the ultimate value of cotton, yield is a primary consideration in farmer evaluation and acceptance of a cultivar. The yield data are expressed in pounds per acre of lint cotton.

Percent Lint affects the per acre yield of lint cotton and also the cost of harvesting and ginning. It is directly influenced by cultivar differences and seasonal conditions.

Other plant characteristics which should be evaluated in selecting a cotton cultivar are storm resistance, plant type, relative maturity, growth habit, and resistance to insects and diseases. Lint characteristics such as staple length, gin turnout, fiber quality, and spinning properties are also important since they affect prices, harvesting costs, and market acceptability.

RECOMMENDED CULTIVARS for 1995

Chembred CB 407
Chembred CB 1135
Chembred CB 1233
Deltapine Acala 90
Deltapine DP 5415
Deltapine DP 5690 (Tp)
DES 119
HyPerformer HS 46
Stoneville Georgia King
Stoneville LA 887
Stoneville KC 311
Sure Grow 1001
Sure Grow 501 (Tp)

CULTURAL PRACTICES AND GROWING CONDITIONS
1994 COTTON

BLACKVILLE

Date of planting: May 3

Plot size:
Planted: Two rows 35 ft long, row spacing - 38 inches
Harvested: Two rows 35 ft long, row spacing - 38 inches

Soil test: P=H+, K=M-, pH=6.4

Fertilization:
Preplant incorporated: 350 lb./AC 5-10-30

Sidedressing: June 7: 35 lb. /AC nitrogen from S25 solution

Sidedressing: June 22: 35 lb. /AC nitrogen from S25 solution

Foliar: July 15: 0.3 lb./AC boron (Solubor) + 4lb./AC Epsom salt

Nematicides:

Subsoil/Bed: 3 gal./AC dichloropropene (TELONE II)

Herbicides:
Preplant incorporated: 0.75 lb. AI/AC trifluralin (TREFLAN EC)

Preemergence: 1.8 lb. AI/AC fluometuron (COTORAN DF) + 1.35 lb./AC norflurazon (ZORIAL RAPID 80)

Postemergence Directed Spray: 1.0 lb. AI/AC fluometuron (COTORAN 4L) + 2.0 lb./AC MSMA

Cultivations: Sweep cultivated and hand hoed

Insecticides:

May 3: 0.75 lb. AI/AC aldicarb/AC (Temik 15G)

May 20: .19 lb. AI/AC acephate (ORTHENE 75S)

May 26: .25 lb. AI/AC dicrotophos (BIDRIN 8)

July 15: .02 lb. AI/AC tralomethrin (SCOUT XTRA 0.9 EC)

July 26: 0.05 lb. AI/AC cyfluthrin (BAYTHROID 2)

Aug. 1: .05 lb. AI/AC cyfluthrin (BAYTHROID 2) + .3 lb. AI/AC dicrotophos (BIDRIN 8)

Aug. 11: .04 lb. AI/AC cyfluthrin (BAYTHROID 2) + 0.3 LB. AI/AC diflubenzuron (DIMILIN W 25)

Aug. 19: 0.05 lb. AI/AC cyfluthrin (BAYTHROID 2)

Defoliation:
October. 24: 0.75 lb. AI/AC Def 6 + 0.05 lb. AI/AC thidiazuron (Dropp) + 1.0 lb. AI/AC ethephon (Prep)

Harvest: November 14

Rainfall data is presented in the notes section of this publication. Soil moisture was excellent at planting, but crusting slowed germination. Growing conditions were generally dry throughout the early season however late rains produced excellent yields.

CULTURAL PRACTICES AND GROWING CONDITIONS
1994 COTTON

FLORENCE

Date of planting: May 10

Plot size:
Planted: Two rows 35 ft long, row spacing - 38 inches
Harvested: Two rows 35 ft long, row spacing - 38 inches

Fertilization:
At Planting: 350 lb 3-9-18/AC

Sidedressing: 80 lb. nitrogen/AC from 30.0% N solution

Herbicides:
Preplant soil incorporated: 1.0 lb. AI/AC pendimethalin (PROWL 3.3 EC) + 1.0 AI/AC norflurazon (ZORIAL RAPID 80)

Postemergence: 1.0 lb. AI/AC fluometuron (COTORAN DF)

Postemergence directed spray: 0.5 lb. AI/AC cyanazine (BLADEX 4 L) + 1.0 lb. AI/AC MSMA

Cultivations: Sweep cultivated and hand hoed

Insecticides:
May 10: 0.75 lb. AI/AC aldicarb (TEMIK 15 G)

July 18: 0.04 lb. AI/AC cyhalothrin (KARATE 1 EC)

July 18: 0.03 lb. AI/AC cyhalothrin (KARATE 1 EC)

July 18: 0.03 lb. AI/AC cyhalothrin (KARATE 1 EC)

Aug. 27: 0.023 lb. AI/AC tralomethrin (SCOUT XTRA 0.9 EC)

Aug. 30: 0.023 lb. AI/AC tralomethrin (SCOUT XTRA 0.9 EC)

Defoliated:
October 7 0.75 lb. AI/AC Def 6 + 0.05 lb. AI/AC thidiazuron (Dropp) +
1.0 lb. AI/AC ethephon (Prep)

Harvest: October 21

Rainfall data is presented in the notes section of this publication. Soil moisture was adequate at planting. Adequate rainfall throughout the season lead to excellent yields..

TABLE 1. COTTON CULTIVAR TRIAL - COASTAL PLAIN: EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	4-YEAR AVERAGES ----1991-92---- LINT YIELD (LB/A)	LINT PERCENT (%)	3-YEAR AVERAGES ----1992-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	2-YEAR AVERAGES ----1993-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	RANK	------1994 DATA------ LINT YIELD (LB/A)	LINT PERCENT (%)
STONEVILLE	GEORGIA KING	1353	-	1262	-	1267	-	4	1670	41.5
STONEVLLE	KC311	1325	-	1249	-	1150	-	12	1581	39.6
DELTAPINE	DES119	1324	-	1251	-	1206	-	5	1623	39.9
SURE GROW	1001	1319	-	1249	-	1150	-	18	1556	39.4
CHEMBRED	407	1318	-	1227	-	1179	-	9	1605	39.5
DELTAPINE	90	1312	-	1227	-	1173	-	15	1572	40.4
DELTAPINE	5415	1307	-	1225	-	1223	-	17	1559	39.7
STONEVILLE	LA887	1298	-	1227	-	1156	-	22	1537	41.1
HYPERFORMER	HS 46	1294	-	1239	-	1204	-	6	1617	40.8
CHEMBRED	CB1135	1286	-	1207	-	1134	-	19	1544	39.3
DELTAPINE	51	1282	-	1202	-	1181	-	14	1577	38.4
DELTAPINE	50	1247	-	1178	-	1158	-	10	1605	37.6
STONEVILLE	132	1189	-	1143	-	1122	-	7	1612	40.1
DELTAPINE	5690	-	-	1235	-	1162	-	23	1534	40.2
CHEMBRED	CB333	-	-	1234	-	1194	-	13	1577	39.7
CHEMBRED	CB1233	-	-	1231	-	1167	-	16	1571	40.2
HYPERFORMER	HS 23	-	-	1174	-	1137	-	21	1540	39.4
SURE-GROW	501	-	-	-	-	1291	-	1	1740	41.7
HYPERFORMER	HS 44	-	-	-	-	1173	-	8	1612	39.0
STONEVILLE	474	-	-	-	-	-	-	2	1736	42.5
SURE GROW	125	-	-	-	-	-	-	3	1685	40.5
HARTZ	H1330	-	-	-	-	-	-	11	1592	39.5
CHEMBRED	CB232	-	-	-	-	-	-	20	1544	37.5
HYPERFORMER	HY 39	-	-	-	-	-	-	24	1505	38.3
AVERAGES		1297	-	1221	-	1180	-		1596	39.8
L.S.D. (.10)		76		88		70			NS	0.7
C.V. (%)		8.5		9.2		9.6			8.9	1.5
STD. ERROR OF ENTRY MEAN									57.8	DF=115

TABLE 2. COTTON CULTIVAR TRIAL - COASTAL PLAIN: PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	4-YEAR AVERAGES ----1991-92---- LINT YIELD (LB/A)	LINT PERCENT (%)	3-YEAR AVERAGES ----1992-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	2-YEAR AVERAGES ----1993-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	RANK	------1994 DATA------ LINT YIELD (LB/A)	LINT PERCENT (%)
DELTAPINE	5415	1041	-	921	-	1008	-	2	1559	41.9
STONEVILLE	LA887	1037	-	932	-	1017	-	7	1454	42.8
CHEMBRED	CB1135	1033	-	933	-	1019	-	8	1444	41.3
STONEVILLE	GEORGIA KING	1012	-	894	-	982	-	4	1471	43.1
CHEMBRED	407	996	-	881	-	925	-	21	1299	41.1
DELTAPINE	90	980	-	880	-	973	-	9	1438	41.4
STONEVLLE	KC311	974	-	850	-	912	-	24	1242	41.7
DELTAPINE	DES119	967	-	882	-	996	-	10	1432	41.2
HYPERFORMER	HS 46	967	-	841	-	939	-	17	1355	42.3
SURE GROW	1001	949	-	832	-	891	-	22	1269	41.4
DELTAPINE	51	932	-	841	-	919	-	18	1338	39.5
STONEVILLE	132	918	-	802	-	889	-	14	1383	41.6
DELTAPINE	50	868	-	761	-	858	-	23	1245	37.8
CHEMBRED	CB333	-	-	875	-	951	-	12	1403	40.8
HYPERFORMER	HS 23	-	-	873	-	937	-	5	1457	41.3
CHEMBRED	CB1233	-	-	866	-	941	-	16	1363	41.6
DELTAPINE	5690	-	-	839	-	943	-	19	1334	41.5
SURE-GROW	501	-	-	-	-	1037	-	6	1455	43.3
HYPERFORMER	HS 44	-	-	-	-	966	-	11	1407	41.0
STONEVILLE	474	-	-	-	-	-	-	1	1706	43.8
SURE GROW	125	-	-	-	-	-	-	3	1490	41.3
HYPERFORMER	HY 39	-	-	-	-	-	-	13	1401	41.2
HARTZ	H1330	-	-	-	-	-	-	15	1372	41.3
CHEMBRED	CB232	-	-	-	-	-	-	20	1308	38.7
AVERAGES		975	-	865	-	953	-		1401	41.4
L.S.D. (.10)		75		89		NS			135	0.9
C.V. (%)		12.7		14.5		14.7			10.1	1.8
STD. ERROR OF ENTRY MEAN									57.7	DF=115

TABLE 3. COTTON CULTIVAR TRIAL - COASTAL PLAIN AVERAGES BLACKVILLE AND FLORENCE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	4-YEAR AVERAGES ----1991-92---- LINT YIELD (LB/A)	LINT PERCENT (%)	3-YEAR AVERAGES ----1992-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	2-YEAR AVERAGES ----1993-94---- LINT YIELD (LB/A)	LINT PERCENT (%)	RANK	------1994 DATA------ LINT YIELD (LB/A)	LINT PERCENT (%)
STONEVILLE	GEORGIA KING	1197	-	1088	-	1136	-	4	1570	42.3
DELTAPINE	5415	1185	-	1081	-	1124	-	5	1559	40.8
STONEVILLE	LA887	1178	-	1087	-	1092	-	11	1496	41.9
CHEMBRED	407	1170	-	1063	-	1062	-	19	1452	40.3
CHEMBRED	CB1135	1170	-	1077	-	1081	-	12	1494	40.3
DELTAPINE	DES119	1165	-	1076	-	1109	-	6	1527	40.5
STONEVLLE	KC311	1164	-	1060	-	1040	-	24	1412	40.6
DELTAPINE	90	1160	-	1062	-	1081	-	8	1505	40.9
SURE GROW	1001	1149	-	1051	-	1030	-	23	1412	40.4
HYPERFORMER	HS 46	1144	-	1050	-	1082	-	14	1486	41.6
DELTAPINE	51	1122	-	1031	-	1060	-	17	1457	38.9
DELTAPINE	50	1074	-	980	-	1020	-	22	1425	37.7
STONEVILLE	132	1065	-	982	-	1015	-	10	1498	40.9
CHEMBRED	CB333	-	-	1064	-	1082	-	13	1490	40.3
CHEMBRED	CB1233	-	-	1058	-	1063	-	16	1467	40.9
DELTAPINE	5690	-	-	1048	-	1061	-	20	1434	40.8
HYPERFORMER	HS 23	-	-	1031	-	1045	-	9	1499	40.3
SURE-GROW	501	-	-	-	-	1174	-	2	1598	42.5
HYPERFORMER	HS 44	-	-	-	-	1077	-	7	1509	40.0
STONEVILLE	474	-	-	-	-	-	-	1	1721	43.1
SURE GROW	125	-	-	-	-	-	-	3	1588	40.9
HARTZ	H1330	-	-	-	-	-	-	15	1482	40.4
HYPERFORMER	HY 39	-	-	-	-	-	-	18	1453	39.7
CHEMBRED	CB232	-	-	-	-	-	-	21	1426	38.1
AVERAGES		1149	-	1052	-	1075	-		1498	40.6
L.S.D. (.10)		54		63		82			113	0.7
C.V. (%)		10.1		11.3		11.8			9.4	1.6

TABLE 4. PRELIMINARY COTTON CULTIVAR TRIAL - COASTAL PLAIN: EDISTO RESEARCH AND EDUCATION CENTER, BLACKVILLE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	-----1994 DATA----- LINT YIELD (LB/A)	LINT PERCENT (%)
UGA	GA 90B	1906	42.2
MYCOGEN	2009	1783	39.4
USDA	PD 93054	1754	39.3
USDA	PD 93055	1738	39.9
HARTZ	H1380	1728	42.3
UGA	GA 90-77	1710	42.1
DELTAPINE	DPX 5322	1700	40.0
USDA	PD 93052	1691	39.6
SURE-GROW	404	1689	38.9
HARTZ	H1220	1657	39.6
DELTAPINE	ACALA 90 *	1634	39.6
STONEVILLE	KC 311 *	1622	39.6
MYCOGEN	2006	1621	39.7
DELTAPINE	DPX 3818	1620	40.9
SURE-GROW	1001 *	1611	40.8
UGA	GA 91-167	1557	37.9
HARTZ	H1215	1556	39.0
DELTAPINE	DP 5409	1547	39.4
CHEMBRED	CB 830	1546	37.8
UGA	GA 91-25	1515	39.8
MYCOGEN	1185	1509	39.0
HARTZ	H1244	1506	39.4
DELTAPINE	DPX 8732	1496	39.3
MYCOGEN	3076	1489	39.5
UGA	GA 90-41	1376	41.0
AVERAGES		1622	39.8
L.S.D. (.10)		172	0.7
C.V. (%)		9.0	1.5
STD. ERROR OF ENTRY MEAN		72.9	DF=72

TABLE 5. PRELIMINARY COTTON CULTIVAR TRIAL - COASTAL PLAIN:
PEE DEE RESEARCH AND EDUCATION CENTER, FLORENCE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	-----1994 DATA----- LINT YIELD (LB/A)	LINT PERCENT (%)
USDA	PD 93054	1501	38.9
HARTZ	H1215	1480	41.0
USDA	PD 93055	1414	40.1
HARTZ	H1244	1382	40.8
DELTAPINE	DP 5409	1359	41.1
HARTZ	H1220	1338	40.1
DELTAPINE	DPX 3818	1320	41.2
HARTZ	H1380	1292	43.4
DELTAPINE	ACALA 90 *	1291	41.0
CHEMBRED	CB 407 *	1290	41.3
DELTAPINE	DPX 8732	1282	40.7
USDA	PD 93052	1252	39.0
STONEVILLE	KC 311 *	1235	41.0
SURE-GROW	1001 *	1223	40.5
UGA	GA 90-41	1205	41.3
MYCOGEN	3076	1157	40.3
UGA	GA 90B	1156	42.9
MYCOGEN	2006	1155	40.1
UGA	GA 91-25	1141	39.8
DELTAPINE	DPX 5322	1126	40.7
CHEMBRED	CB 830	1118	37.2
MYCOGEN	1185	1097	39.3
UGA	GA 91-167	1046	37.3
UGA	GA 90-77	1045	41.7
MYCOGEN	2009	1011	39.5
AVERAGES		1237	40.4
L.S.D. (.10)		185	0.8
C.V. (%)		12.7	1.7
STD. ERROR OF ENTRY MEAN		78.3	DF=72

TABLE 6. PRELIMINARY COTTON CULTIVAR TRIAL - COASTAL PLAIN AVERAGES: BLACKVILLE AND FLORENCE, S.C.

COMPANY OR BRAND NAME	VARIETY OR STRAIN	-----1994 DATA----- LINT YIELD (LB/A)	LINT PERCENT (%)
USDA	PD 93054	1627	39.1
USDA	PD 93055	1576	40.0
UGA	GA 90B	1531	42.6
HARTZ	H1215	1518	40.0
HARTZ	H1380	1510	42.8
HARTZ	H1220	1498	39.8
USDA	PD 93052	1472	39.3
DELTAPINE	DPX 3818	1470	41.1
DELTAPINE	ACALA 90 *	1462	40.3
DELTAPINE	DP 5409	1453	40.3
HARTZ	H1244	1444	40.1
STONEVILLE	KC 311 *	1428	40.3
SURE-GROW	1001 *	1417	40.6
DELTAPINE	DPX 5322	1413	40.3
MYCOGEN	2009	1397	39.5
DELTAPINE	DPX 8732	1389	40.0
MYCOGEN	2006	1388	39.9
UGA	GA 90-77	1377	41.9
CHEMBRED	CB 830	1332	37.5
UGA	GA 91-25	1328	39.8
MYCOGEN	3076	1323	39.9
MYCOGEN	1185	1303	39.1
UGA	GA 91-167	1301	37.6
UGA	GA 90-41	1290	41.2
AVERAGES		1427	40.1
L.S.D. (.10)		218	0.9
C.V. (%)		10.2	1.6

SOURCES OF SEED FOR COTTON CULTIVAR AND STRAINS - 1994

ORIGINATOR AND/OR SEED SOURCE	COMPANY, BRAND NAME, OR VARIETY DESIGNATION
Chembred, Inc. Maricopa, Arizona 85239	CB
Delta and Pine Land Co. Scott, Mississippi 38772	Deltapine, DES 119, DP
Sure-Grow Seed, Inc. Centre, Alabama 35960	Sure-Grow, DES 119
University Of Georgia Coastal Plain Experiment Station Tifton, Georgia 31793	UGA
Jacob Hartz Seed Co., Inc. Stuttgart, Arkansas 72160	Hartz, H
HyPerformer Seed Co. Memphis Tennessee 38137	HS, HB,
Mycogen Plant Sciences Goodyear, Arizona 85338	Mycogen
Stoneville Pedigreed Seed Co., Inc. Stoneville, Mississippi 38776	Stoneville, Coker, KC, LA887, Georgia King
USDA-ARS South Carolina Agricultural Experiment Station Florence, SC	PD