

# 2007 Cotton Variety Trials



**Dr. Peggy Thaxton**

**W.E. Clark**

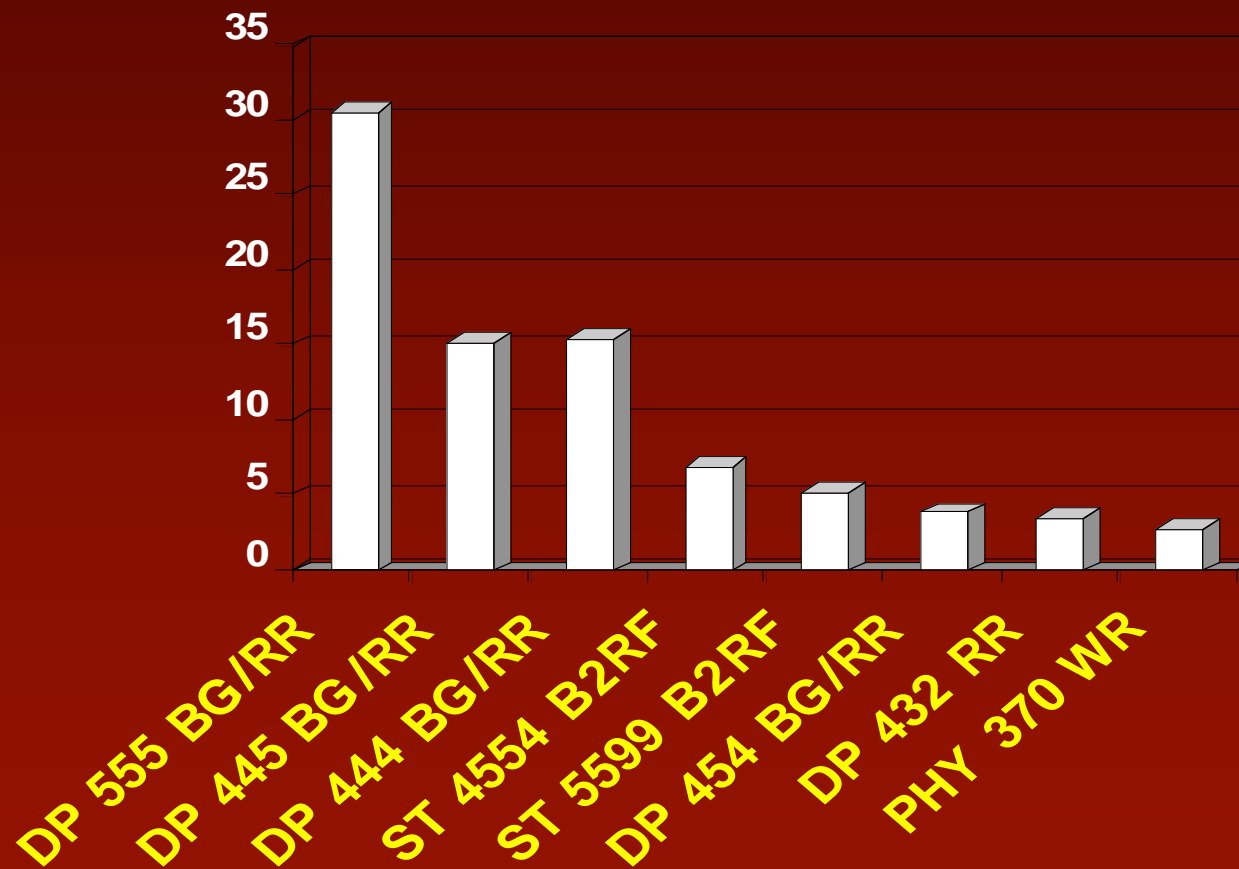
**Susan Shi**

**Delta Research & Ext. Center**

**Stoneville, MS**



# % of MS Total Cotton Acreage - 2007



# 2007 Cotton Variety Trials

- **Three Trials**
  - Early Maturity Trial
  - Mid Maturity Trial
  
- New Entry Trial



# 2007 Cotton Variety Trials

- Delta

- **Stoneville**

- W.E. Clark

- **Tribbett**

- W.E. Clark

- **Rolling Fork**

- W.E. Clark
- Clark Carter Farm

- **Clarksdale**

- W.E. Clark
- Cliff Heaton Farm

- **Tunica**

- Mark Shankle
- Perry Farms

- Hill

- **Senatobia**

- Mark Shankle
- Kenny Hurt Farm

- **Raymond**

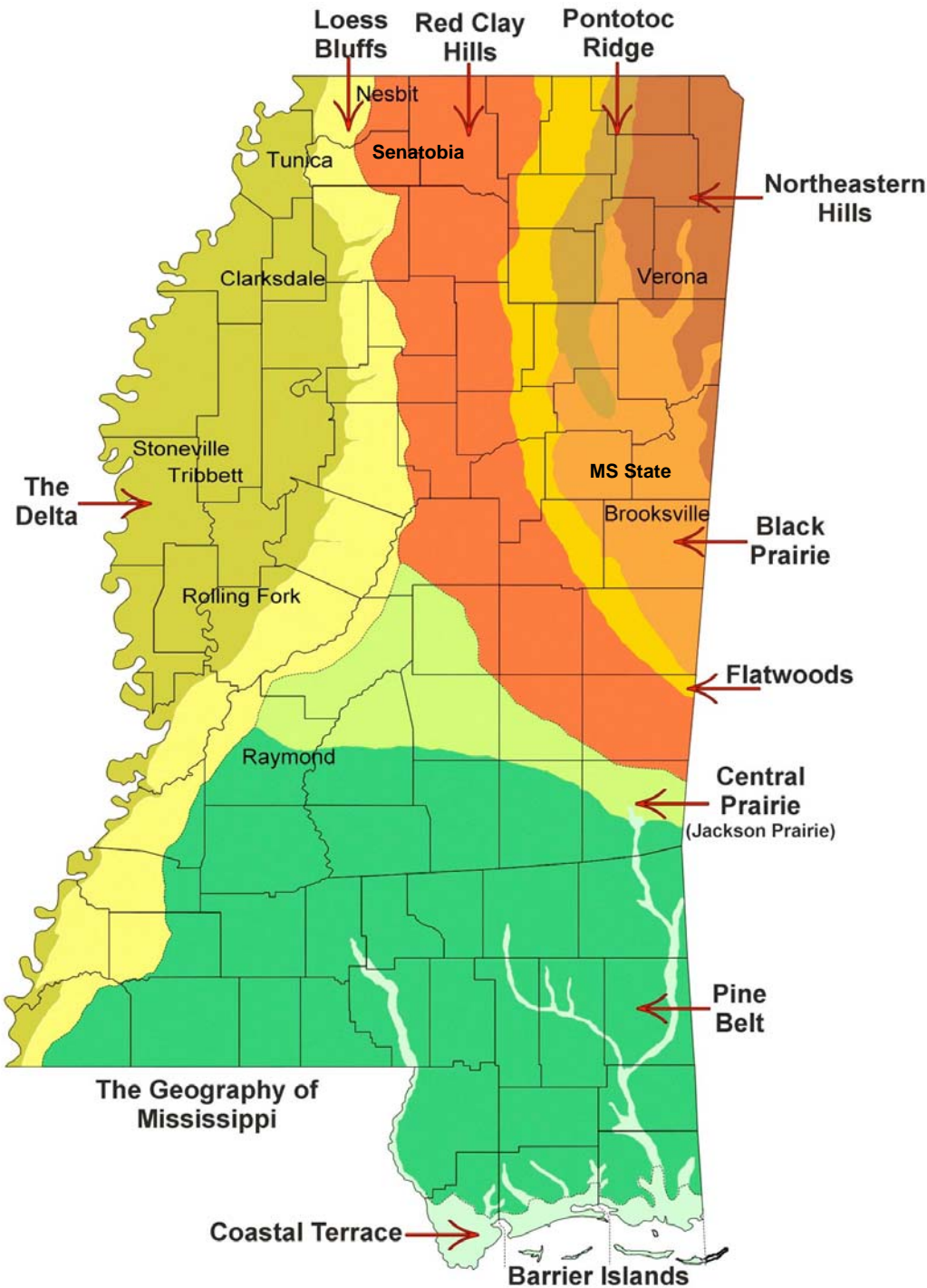
- W.E. Clark

- **Verona**

- Normie Buehring

- **MS. State**

- Ted Wallace



	Rainfall inches, (Planting to harvest)	Irriga- tions	Insect Sprays
Stoneville	24.0	3	13
Clarksdale	14.8	NI	9
Rolling Fork	20.7	NI	8
Tunica	9.2	5	9
Tribbett	23.1	3	11
MS State	18.3	3	3
Verona	16.3	NI	4
Raymond	23.5	NI	3
Senatobia	20.2	NI	4



# 2007 Cotton Variety Trials

**Early: 46 Entries**

**Mid: 16 Entries**

**New: 26 Entries**



# Early Variety Trials Entries

<b>PHY 310 R</b>	<b>ST 4554 B2RF</b>	<b>DP 454 BG/RR</b>
<b>PHY 480 WR</b>	<b>ST 4427 B2RF</b>	<b>DP 455 BG/RR</b>
<b>PHY 485 WRF</b>	<b>ST 5327 B2RF</b>	<b>DP 515 BG/RR</b>
<b>PHY 425 RF</b>	<b>ST 4664 RF</b>	<b>DP 432 RR</b>
<b>DG 2100 B2RF</b>	<b>ST 4357 B2RF</b>	<b>DP 434 RR</b>
<b>DG 2242 B2RF</b>	<b>ST 5242 BR</b>	<b>DP 393</b>
<b>DG 2490 B2RF</b>	<b>ST 4498 B2RF</b>	<b>CG 3020 B2RF</b>
<b>DG 2520 B2RF</b>	<b>ST 4596 B2RF</b>	<b>CG 3520 B2RF</b>
<b>DG CT07343 RF</b>	<b>ST 4678 B2RF</b>	<b>CG 4020 B2RF</b>
<b>FM 1600 LL</b>	<b>ST 6351 B2RF</b>	<b>MISCOT 0141-15ne</b>
<b>FM 955 LLB2</b>	<b>DP 117 B2RF</b>	<b>MISCOT 8824-8</b>
<b>FM 1735 LLB2</b>	<b>DP 121 RF</b>	<b>MISCOT 8806 B2RF</b>
<b>FM 9063 B2F</b>	<b>DP 143 B2RF</b>	<b>PHY 370 WR--ck</b>
<b>FM 9060 F</b>	<b>DP 147 RF</b>	<b>DP 444 BG/RR-ck</b>
<b>FM 9068 F</b>	<b>DP 445 BG/RR</b>	<b>DP 555 BG/RR--ck</b>
		<b>ST 5599 BR--ck</b>

# Early Maturity

Variety	STV	CLK	RF	TRIB	TUN	RAY	MS St	VER	SEN	OL
DP 117 B2RF	<b>1321</b>	1522	<b>1499</b>	<b>1470</b>	<b>1732</b>	1544	<b>1268</b>	<b>1414</b>	<b>1698</b>	<b>1497</b>
DP 445 BG/RR	<b>1266</b>	<b>1804</b>	1223	<b>1391</b>	<b>1905</b>	<b>1683</b>	1118	<b>1398</b>	1520	<b>1479</b>
PHY 370 WR--CK	1180	1340	<b>1487</b>	<b>1325</b>	<b>1727</b>	<b>1892</b>	<b>1462</b>	<b>1293</b>	<b>1563</b>	<b>1474</b>
DP 515 BG/RR	1115	<b>2047</b>	1332	1267	1416	<b>1691</b>	<b>1343</b>	<b>1466</b>	1313	<b>1443</b>
DP 454 BG/RR	1109	1547	1283	<b>1334</b>	<b>1828</b>	1393	<b>1382</b>	<b>1382</b>	1417	<b>1409</b>
PHY 485 WRF	1133	1740	1061	<b>1411</b>	1510	1499	<b>1401</b>	<b>1356</b>	1402	<b>1390</b>
DP 434 RR	<b>1316</b>	<b>2193</b>	1251	<b>1416</b>	<b>1739</b>	1322	881	1019	1292	<b>1381</b>
ST 4596 B2RF	1004	1714	1148	<b>1325</b>	1676	1483	<b>1342</b>	1159	1521	<b>1375</b>
ST 4498 B2RF	1083	1685	<b>1360</b>	1258	1593	1501	1002	1188	<b>1656</b>	<b>1370</b>
ST 5242 BR	1196	1532	929	1249	1616	1597	<b>1253</b>	1271	<b>1643</b>	<b>1365</b>
DP 444 BG/RR--CK	<b>1228</b>	<b>1780</b>	927	<b>1445</b>	1540	1522	1076	1255	1498	<b>1364</b>
DP 432 RR	1140	1686	1265	<b>1381</b>	1366	1632	981	<b>1328</b>	1485	<b>1363</b>
ST 5599 BR--CK	1132	1668	1163	1222	1587	1440	1161	<b>1420</b>	1441	<b>1359</b>
DP 455 BG/RR	996	<b>1780</b>	1201	1268	1669	1469	1143	<b>1333</b>	1299	<b>1351</b>
PHY 310 R	1106	1555	1244	<b>1402</b>	1640	<b>1701</b>	847	<b>1304</b>	1345	<b>1349</b>
ST 4427 B2RF	<b>1233</b>	1454	1248	<b>1325</b>	1469	1447	1088	1213	<b>1574</b>	<b>1339</b>
PHY 425 RF	1187	1603	1084	<b>1467</b>	1417	1670	1191	<b>1316</b>	1075	<b>1334</b>
ST 4678 B2RF	1255	1148	1201	<b>1388</b>	1579	1502	1065	<b>1337</b>	1522	<b>1333</b>
DG CT07343 RF	1137	1614	1219	<b>1322</b>	1683	1479	929	<b>1292</b>	1315	<b>1332</b>
ST 5327 B2RF	1077	1439	1102	1312	1519	1534	1115	<b>1328</b>	<b>1557</b>	<b>1331</b>
DG 2490 B2RF	1198	1652	1305	1278	1534	1237	1065	1117	<b>1559</b>	<b>1327</b>
ST 4664 RF	1106	1762	1209	<b>1394</b>	1551	1545	792	1251	1281	<b>1321</b>
PHY 480 WR	1121	1520	1196	1309	1279	1560	<b>1326</b>	1135	1356	<b>1311</b>
<b>MEAN</b>	1102	1523	1146	1282	1470	1485	1104	1265	1375	<b>1306</b>
<b>LSD (.10)</b>	119	414	163	151	201	227	236	150	155	
<b>CV (%)</b>	9.22	16.20	12.14	9.87	11.45	13.04	15.68	9.98	9.63	
<b>R-square</b>	0.65	0.70	0.67	0.60	0.66	0.46	0.66	0.66	0.69	

# Early Maturity

Variety	STV	CLK	RF	TRIB	TUN	RAY	MS St	VER	SEN	OL
DP 555 BG/RR-CK	970	1615	1285	1097	1021	<b>1671</b>	<b>1445</b>	<b>1483</b>	1152	<b>1304</b>
ST 4357 B2RF	<b>1236</b>	1239	1328	<b>1333</b>	1539	1340	1128	1106	1462	<b>1301</b>
MISCOT 8824-8	1059	1309	985	1266	1413	<b>1713</b>	<b>1308</b>	<b>1435</b>	1085	<b>1286</b>
ST 4554 B2RF	1012	1449	1133	<b>1374</b>	1584	1532	753	1195	1502	<b>1281</b>
DG 2520 B2RF	1167	1476	1323	<b>1336</b>	1371	1285	1046	1039	1490	<b>1281</b>
MISCOT 0141-15ne	1101	1258	1090	<b>1322</b>	1472	1628	1082	<b>1377</b>	1138	<b>1274</b>
CG 3020 B2RF	1171	1375	1237	<b>1391</b>	1500	1285	981	1029	1487	<b>1273</b>
DP 121 RF	1119	1447	1117	1217	1640	1555	798	<b>1317</b>	1201	<b>1268</b>
DG 2242 B2RF	1064	1372	1243	<b>1352</b>	1464	1307	878	1188	1474	<b>1260</b>
ST 6351 B2RF	957	1516	955	1030	1404	1516	1208	1351	1399	<b>1260</b>
DP 147 RF	1036	1367	1083	1086	1449	<b>1692</b>	961	<b>1400</b>	1246	<b>1258</b>
CG 4020 B2RF	1178	1438	1132	1294	1493	1297	936	1064	1466	<b>1255</b>
FM 1600 LL	1049	1561	936	1139	1218	1507	<b>1359</b>	<b>1408</b>	1089	<b>1252</b>
DP 393	997	1563	1060	<b>1340</b>	1224	1516	914	<b>1391</b>	1252	<b>1251</b>
MISCOT 8913-2	1019	1208	1011	1255	1474	1522	<b>1261</b>	<b>1273</b>	1214	<b>1248</b>
DG 2100 B2RF	1107	1421	1198	<b>1413</b>	1371	1234	786	1111	1454	<b>1233</b>
DP 143 B2RF	915	1397	918	1114	1345	1417	1199	<b>1326</b>	1409	<b>1227</b>
CG 3520 B2RF	1095	1392	1183	1260	1531	1201	869	1045	1382	<b>1217</b>
FM 1735 LLB2	1040	1295	996	898	1063	1301	<b>1373</b>	<b>1293</b>	1354	<b>1179</b>
FM 9068 F	1012	1625	861	1120	1105	1276	1068	1272	1064	<b>1156</b>
FM 9063 B2F	980	1216	962	1139	1070	1299	1208	1138	1269	<b>1142</b>
FM 955 LLB2	864	1452	760	1053	1219	1393	1079	1153	1253	<b>1136</b>
FM 9060 F	906	1301	966	979	1179	1482	976	1195	1068	<b>1117</b>
<b>MEAN</b>	1102	1523	1146	1282	1470	1485	1104	1265	1375	<b>1306</b>

Variety	STV	CLK	RF	TRIB	TUN	RAY	MS St	VER	SEN	OL
DP 445 BG/RR	3	3	16	9	1	6	21	8	10	1497
ST 4664 RF	25	6	18	8	16	14	44	29	33	1479
DP 454 BG/RR	22	20	9	17	2	33	4	10	21	1474
<b>DP 117 B2RF</b>	<b>1</b>	<b>22</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>11</b>	<b>5</b>	<b>1</b>	<b>1443</b>
DP 121 RF	20	29	28	36	9	13	43	19	39	1409
ST 6351 B2RF	43	24	40	44	33	20	15	13	24	1390
ST 5242 BR	9	21	42	34	11	11	13	27	3	1381
MISCOT 8913-2	35	45	35	33	25	19	12	25	38	1375
<b>DP 434 RR</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>4</b>	<b>3</b>	<b>36</b>	<b>39</b>	<b>46</b>	<b>32</b>	<b>1370</b>
FM 9060 F	45	40	38	45	42	27	34	31	45	1365
FM 9068 F	37	13	45	39	43	43	27	26	46	1364
PHY 310 R	24	19	13	7	10	3	42	21	28	1363
CG 4020 B2RF	12	31	27	26	24	40	36	42	17	1359
ST 5599 BR--CK	18	11	24	35	13	31	18	4	20	1349
ST 4498 B2RF	28	10	3	32	12	24	31	34	2	1339
DP 515 BG/RR	21	2	4	29	31	5	7	2	30	1334
DG 2490 B2RF	8	12	7	27	19	44	28	39	6	1333
DP 444 BG/RR--CK	7	5	43	3	17	18	26	28	12	1332
DP 147 RF	34	37	32	42	29	4	35	7	37	1331
ST 4596 B2RF	38	8	25	20	7	26	8	35	9	1327
ST 4357 B2RF	5	43	5	18	18	35	20	41	18	1321
PHY 485 WRF	17	7	33	6	22	25	3	12	23	1311
DP 455 BG/RR	40	4	20	28	8	29	19	15	31	1304
<b>PHY 370 WR--CK</b>	<b>11</b>	<b>38</b>	<b>2</b>	<b>19</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>23</b>	<b>5</b>	<b>1301</b>
MISCOT 0141-15ne	26	42	30	23	26	10	24	11	41	1281
DG CT07343 RF	16	15	17	22	6	28	37	24	29	1281
PHY 425 RF	10	16	31	2	30	8	17	20	44	1274
ST 4678 B2RF	4	46	19	11	15	23	29	14	8	1273
:										
ST 4427 B2RF	6	26	12	21	27	30	23	30	4	1255
FM 1600 LL	32	18	41	38	41	22	6	6	42	1252
DG 2100 B2RF	23	32	21	5	34	45	45	40	19	1251
DG 2520 B2RF	14	25	6	16	35	42	30	44	13	1248
ST 5327 B2RF	29	30	29	24	21	16	22	17	7	1233
FM 9063 B2F	41	44	39	37	44	39	14	37	34	1227
CG 3020 B2RF	13	35	15	10	23	41	33	45	14	1217
DP 432 RR	15	9	10	12	36	9	32	16	15	1179
FM 1735 LLB2	33	41	36	46	45	38	5	22	27	1156
<b>DP 555 BG/RR--CK</b>	<b>42</b>	<b>14</b>	<b>8</b>	<b>41</b>	<b>46</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>40</b>	<b>1136</b>

# MID Variety Trial Entries

<b>FM 1880 B2F</b>	<b>DP 445 BG/RR</b>
<b>ST 5327 B2RF</b>	<b>DP 454 BG/RR</b>
<b>ST 5283 RF</b>	<b>DP 455 BG/RR</b>
<b>ST 5458 B2RF</b>	<b>DP 515 BG/RR</b>
<b>DP 143 B2RF</b>	<b>PHY 370 WR CK</b>
<b>DP 147 RF</b>	<b>DP 444 BG/RR CK</b>
<b>DP 164 B2RF</b>	<b>DP 555 BG/RR CK</b>
<b>DP 167 RF</b>	<b>ST 5599 BR CK</b>

# Mid Maturity

Variety	ST	CLK	RF	TRIB	TUN	RAY	MS STA	VER	SEN	OL
ST 5599 BR--CK	1065	2050	1207	1246	1486	1466	1397	1545	1536	1444
DP 454 BG/RR	1062	1617	1130	1229	1537	1490	1599	1708	1528	1433
DP 455 BG/RR	1025	1872	1207	1192	1551	1457	1499	1595	1393	1421
DP 515 BG/RR	1054	1669	1210	1246	1283	1726	1569	1591	1420	1419
ST 5458 B2RF	1200	1664	1406	1147	1330	1362	1410	1450	1741	1412
DP 445 BG/RR	970	1398	1230	1339	1686	1457	1339	1476	1607	1389
PHY 370 WR--CK	1151	1490	1285	1184	1239	1637	1262	1525	1667	1382
DP 444 BG/RR--CK	1020	1798	1065	1349	1334	1474	993	1487	1496	1335
DP 143 B2RF	1028	1821	1023	1007	1401	1466	1204	1505	1498	1328
ST 5283 RF	1216	1386	1107	1299	1756	1413	855	1439	1264	1304
ST 5327 B2RF	1073	1422	1232	1241	1468	1461	980	1307	1453	1293
DP 555 BG/RR--CK	824	1372	1149	970	1029	1596	1619	1680	1218	1273
DP 164 B2RF	953	1299	1143	1121	1238	1263	1267	1288	1439	1223
DP 147 RF	834	1083	1037	1068	1367	1542	1189	1524	1119	1196
DP 167 RF	792	1614	1104	1197	1306	1297	891	1239	1059	1167
FM 1880 B2F	679	1105	845	948	1231	1036	1088	1121	1270	1036
MEAN	997	1541	1149	1161	1413	1446	1269	1468	1416	1316
LSD (.10)	189	404	172	122	232	194	222	165	141	
CV (%)	15.98	14.96	12.59	8.24	11.66	11.32	12.88	9.45	8.23	

# Mid Maturity- Ranking

Variety	STV	CLK	RF	TRIB	TUN	RAYM	MS St	VER	SEN	OL
ST 5599 BR--CK	5	1	1	5	5	8	6	5	4	1444
DP 454 BG/RR	6	7	7	7	4	5	2	1	5	1433
DP 455 BG/RR	9	2	2	9	3	11	4	3	11	1421
DP 515 BG/RR	7	5	5	4	12	1	3	4	10	1419
ST 5458 B2RF	2	6	6	11	10	13	5	11	1	1412
DP 445 BG/RR	11	11	11	2	2	10	7	10	3	1389
PHY 370 WR--CK	3	9	9	10	13	2	9	6	2	1382
DP 444 BG/RR--CK	10	4	4	1	9	6	13	9	7	1335
DP 143 B2RF	8	3	3	14	7	7	10	8	6	1328
ST 5283 RF	1	12	12	3	1	12	16	12	13	1304
ST 5327 B2RF	4	10	10	6	6	9	14	13	8	1293
DP 555 BG/RR--CK	14	13	13	15	16	3	1	2	14	1273
DP 164 B2RF	12	14	14	12	14	15	8	14	9	1223
DP 147 RF	13	16	16	13	8	4	11	7	15	1196
DP 167 RF	15	8	8	8	11	14	15	15	16	1167
FM 1880 B2F	16	15	15	16	15	16	12	16	12	1036

# New Variety Trial Entries

<b>PHY 315 RF</b>	<b>AM 1504 B2RF</b>
<b>PHY 375 WRF</b>	<b>AM 1532 B2RF</b>
<b>CT- 210</b>	<b>XAM 1550 B2RF</b>
<b>STG- 596-9</b>	<b>MISCOT 0110-1ne</b>
<b>DG 2383 RF</b>	<b>MISCOT 0110-2ne</b>
<b>DG CT07550 B2RF</b>	<b>MISCOT 0023-11ne</b>
<b>FMX 4327 B2F</b>	<b>MISCOT 0141-14ne</b>
<b>FMX 4330 B2F</b>	<b>GVS 5069</b>
<b>DP 141 B2RF</b>	<b>GVS 5070</b>
<b>DP 161 B2RF</b>	<b>PHY 370 WR</b>
<b>DP 174 RF</b>	<b>DP 444 BG/RR</b>
<b>CG 3220 B2RF</b>	<b>DP 555 BG/RR</b>
<b>CG 3035 RF</b>	<b>ST 5599 BR</b>

# NEW ENTRIES

VARIETY	STONEVILLE	TRIBBETT	MISS. STATE	VERONA	OVER LOCS
PHY 370 WR--CK	<b>1364</b>	1268	<b>1568</b>	<b>1736</b>	<b>1484</b>
DP 555 BG/RR--CK	1189	<b>1350</b>	<b>1534</b>	<b>1654</b>	<b>1432</b>
XAM 1550 B2RF	<b>1307</b>	1326	1236	<b>1559</b>	<b>1357</b>
DG CT07550 B2RF	<b>1250</b>	<b>1438</b>	1207	1500	<b>1349</b>
PHY 375 WRF	1089	1297	1343	<b>1662</b>	<b>1348</b>
ST 5599 BR--CK	<b>1222</b>	1156	<b>1438</b>	1536	<b>1338</b>
CG 3220 B2RF	<b>1228</b>	1329	1341	1423	<b>1330</b>
DP 444 BG/RR--CK	1100	1308	1329	<b>1556</b>	<b>1323</b>
PHY 315 RF	<b>1237</b>	<b>1389</b>	1049	<b>1587</b>	<b>1316</b>
AM 1532 B2RF	<b>1258</b>	<b>1344</b>	1189	1369	<b>1290</b>
AM 1504 B2RF	<b>1290</b>	<b>1497</b>	1115	1248	<b>1287</b>
DP 174 RF	<b>1265</b>	<b>1401</b>	1044	1326	<b>1259</b>
DP 161 B2RF	1148	1154	<b>1377</b>	1322	<b>1250</b>
MISCOT 0141-14ne	<b>1234</b>	<b>1340</b>	783	<b>1634</b>	<b>1247</b>
CG 3035 RF	1025	<b>1486</b>	1007	1441	<b>1240</b>
DG 2383 RF	1185	<b>1443</b>	933	1262	<b>1206</b>
FMX 4330 B2F	1001	1238	1245	1292	<b>1194</b>
MISCOT 0023-11ne	1154	1275	879	1446	<b>1189</b>
CT- 210	941	1202	1023	1466	<b>1158</b>
MISCOT 0110-2ne	996	1180	932	1428	<b>1134</b>
DP 141 B2RF	841	1027	1190	1382	<b>1110</b>
LINWOOD	929	1317	785	1351	<b>1096</b>
MISCOT 0110-1ne	946	1214	812	1408	<b>1095</b>
FMX 4327 B2F	844	983	1192	1354	<b>1093</b>
GVS 5069	803	893	864	1480	<b>1010</b>
GVS 5070	669	1075	454	<b>1646</b>	<b>961</b>
MEAN	1100	1269	1140	1478	<b>1234</b>
LSD (.10)	152	161	212	186	
CV (%)	11.66	10.38	13.14	10.29	

# Fiber Data - Early

Location	Lint Yield	Lint Percent	Seed Index	Boll Size	Leng	Unif Index	Stren	Elong	Mic
<b>Delta</b>									
Clarksdale	1523	39.5	10.4	5.3	1.16	84.4	29.7	7.0	5.2
Tunica	1470	40.6	10.5	5.4	1.13	84.2	32.0	6.6	5.1
Tribbett	1282	39.4	10.3	5.6	1.18	85.4	32.4	8.9	4.8
Rolling Fork	1146	40.1	10.4	4.9	1.19	85.4	31.7	9.5	5.4
Stoneville	1102	40.2	10.8	5.3	1.18	85.8	31.8	9.4	5.1
Mean	1304	40.0	10.5	5.3	1.17	85.0	31.5	8.3	5.1
<b>Hill</b>									
Raymond	1485	40.7	9.6	4.9	1.13	84.3	29.0	9.0	4.9
Senatobia	1375	39.2	11.4	5.7	1.15	84.5	33.0	6.7	5.0
Verona	1265	42.5	9.7	5.3	1.11	84.1	30.2	10.0	5.3
MS. State	1104	39.8	11.4	5.9	1.17	84.7	31.8	6.5	4.8
Mean	1307	40.6	10.5	5.5	1.14	84.4	31.0	8.1	5.0

# Fiber Data - MID

Location	Lint Yield	Lint Percent	Seed Index	Boll Size	Leng	Unif Index	Stren	Elong	Mic
<b>Delta</b>									
Clarksdale	1541	40.1	9.9	4.9	1.15	84.0	32.5	6.5	5.0
Tunica	1413	42.2	9.6	5.1	1.10	83.2	30.5	6.2	5.0
Tribbett	1161	39.0	9.7	5.2	1.16	84.6	31.6	8.4	4.2
Rolling Fork	1149	42.0	9.4	4.7	1.17	84.7	30.6	9.3	5.4
Stoneville	997	41.5	10.1	5.0	1.18	85.3	31.4	9.2	5.0
Mean	1250	40.9	9.7	5.0	1.15	84.4	31.3	7.9	4.9
<b>Hill</b>									
Verona	1468	43.1	9.1	5.1	1.12	84.2	29.8	9.7	4.9
Raymond	1446	41.1	9.1	4.9	1.14	83.9	29.1	8.7	4.8
Senatobia	1416	40.6	10.9	5.8	1.16	84.3	31.5	6.3	4.9
Miss. State	1269	40.3	11.0	5.9	1.20	85.0	33.5	6.4	4.7
Hill Mid	1398	41.3	10.0	5.4	1.15	84.4	31.0	7.8	4.8

<http://msucares.com>  
Crops/horticulture  
Variety testing  
Preliminary yield data  
2007 cotton

<http://msucares.com/crops/variety/yield/index.html>

