

2005 COTTON VARIETY TRIALS

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Introduction

The 2005 University of Georgia Cotton Variety Trials (OVT) were conducted at five locations across Georgia, spanning the cotton belt from southwest to northeast Georgia. Irrigated trials were conducted on-farm in Decatur county and at University research stations and/or education centers in Midville, Plains, and Tifton. Dryland trials were conducted on University research stations and/or education centers in Athens, Midville, Plains, and Tifton. Performance data in these tables, combined with data from previous years should assist growers in variety selection, one of the most important if not most important decisions in an economically viable cotton production plan. RRFlex varieties were included in the trials for the first time. Data collected from the University of Georgia Variety Testing Cotton Program can be found at the Statewide Variety Testing Website: www.griffin.uga.edu/swvt. Also, the data is published in the UGA Agricultural Experiment Station Research Report Number 703, January 2006.

Materials and Methods

The University of Georgia conducts Official Cotton Variety and Strain trials across Georgia to provide growers and county agents with performance data to help in selecting varieties. Data from the OVT also helps the private seed companies assess the fit of their products in Georgia. The University of Georgia cotton OVT is conducted by J. LaDon Day, Program Coordinator Cotton OVT, Griffin, GA. along with Mr. Larry Thompson, Research Professional I, Tifton, GA. The OVT is split into variety and strain trials with placement of varieties or strains into the particular trial chosen by its owner. Trials are separated by maturity and in 2005 Deltapearl has been chosen as the standard variety planted in all tests. Irrigated OVT trials are conducted at Bainbridge, Midville, Plains, and Tifton, while dryland OVTs are conducted at Athens, Midville, Plains, and Tifton, thus varieties placed into the OVT are included in eight trials per year, giving a fair size data set with which to evaluate variety performance. The strains trials are irrigated and conducted at Midville, Plains, and Tifton. RRFlex varieties were included in both the standard and early maturing strains tests. Trials consist of 4-replicate, randomized complete block designs. An accepted, common, management system is employed at each location for agronomic and pest management, but transgenic cultivars are not produced according to their intended pest management system(s). Prior to harvest, 25-boll samples are hand picked from each plot and then two samples are combined at ginning to measure lint fraction. Fiber samples are submitted to Starlab, Knoxville, TN for HVI analyses. All trials were harvested with a state-of-the-art harvest system composed of a International IH 1822 picker fitted with weigh baskets and suspended from load sells. This system allows one person to

harvest yield trials where the established bag-and-weigh approach required eight people or more. The electronic weigh system allowed for timely harvest of yield trials. Data from all trials and combined analyses over locations and years are reported as soon as fiber data are available from the test lab in Adobe pdf and Excel formats on the UGA Cotton Team Website maintained at <http://www.ugacotton.com> Dr. Phil Jost, East Georgia Extension Cotton Specialist. Also, the data is available at the Statewide Variety Testing Website: www.griffin.uga.edu/swvt.

Results and Discussion

Growing conditions overall improved for the third year in a row during the 2005 crop season as more normal rainfall along with cooler temperatures occurred across most of the state. These favorable weather patterns were a much needed relief to Georgia farmers who battled drought conditions and extremely high temperatures during the five crop years prior to 2003. Planting of the 2005 spring crop was impeded in some areas in the state due to wet cold soils but 1.21 million acres of cotton were seeded on time. This number of acres planted to cotton was a decrease of 5% from 2004. Most areas of the state received favorable weather until September and October when dry conditions returned to the state. The cotton crop turned out much better than expected as 2.0 million bales were harvested, 16% more than in 2004.

Among varieties in the Dryland Earlier Maturity Trials, 14 standard and six RRFlex varieties stand out as varieties with high yield and relative yield stability in the dryland trials (Table 1). Others that performed well include the yet to be commercialized entries DPLX03X179R and GA2002212 (Table 1). When summarized over two years, DP 455 BG/RR, FM960BR, and DP 445BG/RR were top yielders (Table 2).

Among the best performing earlier maturing varieties produced under irrigation, DP 455 BG/RR was the highest yielder averaged over locations (Table 3). Other varieties from Delta and Pineland, Stoneville and PhytoGen Seed Companies performed well (Table 3). In the RRFlex group DP 117B2RF and ST 4554B2RF were the two top performers. DP 455 BG/RR was the highest yielder when averaged over two years and locations in the Irrigated Early Maturity Trials conducted at Bainbridge, Midville, Plains, and Tifton (Table 4), however, there was no significant difference among varieties in that data set.

Later maturity trials produced without irrigation also revealed the consistent performance of DP454BG/RR, DPLX04Y170BR, ST6636BR, ST5595BR, DP 455 BG/RR, and DP 494 RR (Table 5). Both RRFlex varieties ST 6611B2RF and ST 4357B2RF were top yielders. (Table 5). Averaged over locations and years, ST 5599BR was the front runner along with four Delta and Pine Land varieties (Table 6). DP491 continues to be noted for excellent staple length and generally non-discount micronaire reading, plus a high lint fraction, which is difficult to achieve (Table 5). Generally, as breeders lengthen the cotton fiber towards 1.2 inches and beyond, lint fraction declines along with yield.

Under irrigation, DPLX04Y170BR, ST6636BR, DP 445 BG/RR, DP 449 BG/RR and DP

454 BG/RR led the standard later maturing trials averaged over locations (Table 7), while STX 0414B2RF was top yielder among the RRFlex varieties. Averaged over years and locations, DP555BR was the best performer (Table 8). Stoneville's 5599BR (Table 8), a variety released in 2003, continues to show promise to help growers with root knot nematodes as it possesses some resistance to root knot.

The Earlier Maturity and Later Maturity Strains Trials portend improved varieties for crop seasons 2006 and beyond (Tables 9, 10). DX25105N of Syngenta Seed Company was the higher yielding performer among standard earlier maturing entries in the strains trial, there were six varieties from Beltwide and Royster Clark in the RRFlex group that performed well. CS37, Deltapearl, FMx9166B2LL, CS44, GA2003138, GA2002125, GA2002131 and GA2002118 were the better performers among later maturing types (Table 10).

In summary, several new varieties described herein portend potentially higher yields and improved fiber packages available to Georgia growers.

Table 1. Yield Summary for Dryland Earlier Maturity Cotton Varieties, 2005

Entry	Lint Yield ^a					4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton	lb/acre						
ST4575BR	1572 ⁵	1726 ⁹	1581 ^{12T}	1499 ¹²	1595 ²	41.2	85.5	1.18	30.3	4.8	
DP 454 BG/RR	1859 ¹	1375 ³³	1717 ²	1374 ²⁴	1581 ⁴	41.4	86.0	1.18	30.8	4.1	
DP 445 BG/RR	1504 ¹³	1580 ¹⁴	1587 ¹¹	1643 ¹	1578 ⁵	41.5	86.2	1.20	30.9	4.8	
DP 455 BG/RR	1365 ^{26T}	1732 ⁸	1581 ^{12T}	1514 ^{10T}	1548 ⁶	42.8	84.6	1.20	32.8	4.2	
ST4686R	1559 ⁷	1579 ¹⁵	1435 ²⁶	1558 ⁵	1533 ⁸	41.5	85.3	1.17	30.9	4.8	
DPLX04Y170BR	1592 ³	1335 ³⁷	1574 ¹³	1605 ²	1526 ^{9T}	40.6	85.5	1.20	31.9	4.7	
DP 444 BG/RR	1574 ⁴	1509 ^{20T}	1589 ^{10T}	1434 ¹⁹	1526 ^{9T}	42.6	86.1	1.18	31.0	4.2	
DP 393	1520 ¹¹	1538 ¹⁸	1554 ¹⁷	1453 ¹⁵	1516 ^{12T}	40.6	86.1	1.22	32.3	4.9	
ST5242BR	1629 ²	1447 ²⁷	1604 ⁸	1385 ²³	1516 ^{12T}	41.2	84.8	1.13	28.9	4.4	
GA2002167	1534 ⁸	1653 ¹²	1411 ²⁷	1449 ¹⁷	1512 ¹³	41.9	84.7	1.19	34.1	4.7	
PHY370WR	1258 ³⁷	1648 ¹³	1669 ⁴	1451 ¹⁶	1507 ¹⁴	41.7	85.5	1.17	31.5	4.8	
DP 432 RR	1524 ¹⁰	1393 ³¹	1558 ¹⁶	1524 ⁸	1499 ¹⁶	40.0	85.6	1.18	31.3	4.6	
PHY310R	1327 ²⁹	1452 ²⁵	1640 ⁵	1514 ^{10T}	1483 ¹⁷	42.2	85.5	1.18	32.2	4.9	
PHY440W	1509 ¹²	1422 ²⁹	1445 ²⁵	1511 ¹¹	1472 ¹⁸	39.6	85.6	1.21	30.6	4.5	
FM960BR	1393 ²³	1354 ³⁶	1589 ^{10T}	1498 ¹³	1459 ²⁰	39.2	85.0	1.17	34.1	4.3	
DPLX03X179R	1474 ¹⁵	1557 ¹⁶	1255 ³⁷	1518 ⁹	1451 ²¹	42.4	86.3	1.22	33.5	4.8	
FM958LL	1527 ⁹	1509 ^{20T}	1401 ^{29T}	1347 ²⁸	1446 ^{23T}	40.1	85.7	1.25	34.0	4.3	
DP 434 RR	1356 ²⁷	1761 ⁵	1406 ²⁸	1234 ³⁷	1439 ²⁵	41.6	86.1	1.24	28.7	4.2	
FM960B2R	1472 ¹⁶	1360 ³⁵	1530 ¹⁹	1265 ³⁵	1407 ^{27T}	39.1	85.5	1.23	35.4	4.5	
GA2002212	1365 ^{26T}	1746 ⁶	1294 ³⁵	1128 ³⁹	1383 ²⁸	43.5	85.5	1.20	33.5	4.8	
FM960R	1386 ²⁴	1448 ²⁶	1327 ³²	1352 ²⁷	1378 ²⁹	40.4	85.6	1.22	36.4	4.0	
Tamcot 22	1253 ³⁹	1672 ¹⁰	1186 ⁴¹	1329 ³⁰	1360 ³²	41.9	84.7	1.20	29.9	4.5	
GA2002207	1325 ³⁰	1661 ¹¹	1348 ³¹	1090 ⁴¹	1356 ³³	42.1	85.5	1.21	32.0	4.8	
UGA161	1284 ³²	1388 ³²	1289 ³⁶	1442 ^{18T}	1351 ³⁴	38.6	86.1	1.24	33.6	4.7	
Deltapearl	1245 ⁴⁰	1273 ⁴²	1321 ³³	1339 ²⁹	1295 ³⁶	39.0	85.4	1.22	32.6	4.7	
GA2002211	1158 ⁴²	1413 ³⁰	1401 ^{29T}	1155 ³⁸	1282 ³⁷	40.3	85.3	1.19	33.9	5.0	
DP 424 BII/R	1105 ⁴³	1326 ³⁸	1249 ³⁸	1401 ²²	1270 ³⁸	37.1	85.4	1.17	29.4	4.7	
FM966LL	1353 ²⁸	1324 ³⁹	1220 ³⁹	1126 ⁴⁰	1256 ³⁹	38.6	85.4	1.18	36.3	4.3	
GA200035	1409 ²²	1278 ⁴¹	1205 ⁴⁰	994 ⁴²	1222 ⁴⁰	39.6	85.8	1.21	33.6	4.6	
<i>Group Average</i>	<i>1429</i>	<i>1498</i>	<i>1447</i>	<i>1384</i>	<i>1440</i>	<i>40.8</i>	<i>85.5</i>	<i>1.20</i>	<i>32.3</i>	<i>4.6</i>	

Table 1. Yield Summary for Dryland Earlier Maturity Cotton Varieties, 2005 (Cont'd)

Entry	Lint Yield ^a					Lint %	Unif. %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains lb/acre	Tifton	4-Loc.					
RRFlex Varieties										
ST 4554B2RF	1565 ⁶	1763 ⁴	1707 ³	1467 ¹⁴	1625 ¹	41.9	85.6	1.18	29.8	5.0
CG4020B2RF	1455 ¹⁸	1742 ⁷	1595 ⁹	1549 ⁶	1585 ³	41.3	85.6	1.23	29.7	4.5
DP 108 RF	1459 ¹⁷	1851 ¹	1449 ²³	1402 ²¹	1540 ⁷	40.8	85.2	1.18	32.0	4.2
DynaGro 2100BRF	1384 ²⁵	1783 ²	1564 ¹⁵	1366 ²⁶	1524 ¹⁰	39.7	85.2	1.17	29.4	4.2
DP 113 B2RF	1450 ¹⁹	1437 ²⁸	1609 ⁷	1594 ⁴	1522 ¹¹	39.9	85.4	1.21	35.2	4.3
ST 4664RF	1428 ²¹	1486 ²¹	1497 ²¹	1596 ³	1502 ¹⁵	41.4	85.3	1.17	30.0	4.9
DP 117 B2RF	1275 ³⁴	1528 ¹⁹	1634 ⁶	1421 ²⁰	1464 ¹⁹	41.3	85.2	1.19	35.3	4.7
DynaGro 2520BRF	1238 ⁴¹	1482 ²³	1755 ¹	1319 ³¹	1449 ²²	41.0	86.1	1.23	29.5	4.3
PHY485WRF	1482 ¹⁴	1280 ⁴⁰	1486 ²²	1535 ⁷	1446 ^{23T}	41.0	86.0	1.18	32.3	4.9
PHY425RF	1317 ³¹	1764 ³	1305 ³⁴	1373 ²⁵	1440 ²⁴	39.7	86.1	1.19	32.4	4.9
PHY475WRF	1282 ³³	1542 ¹⁷	1573 ¹⁴	1307 ³³	1426 ²⁶	40.1	85.8	1.17	31.2	4.5
DP 110 RF	1256 ³⁸	1483 ²²	1448 ²⁴	1442 ^{18T}	1407 ^{27T}	40.9	86.1	1.22	34.9	4.7
CG3520B2RF	1448 ²⁰	1233 ⁴³	1543 ¹⁸	1235 ³⁶	1365 ³⁰	39.6	86.1	1.23	28.9	4.4
CG3020B2RF	1263 ³⁶	1365 ³⁴	1507 ²⁰	1316 ³²	1363 ³¹	39.3	85.7	1.18	29.1	4.2
PHY415RF	1265 ³⁵	1472 ²⁴	1371 ³⁰	1290 ³⁴	1350 ³⁵	40.5	84.9	1.16	29.7	4.7
<i>Group Average</i>	<i>1371</i>	<i>1547</i>	<i>1536</i>	<i>1414</i>	<i>1467</i>	<i>40.6</i>	<i>85.6</i>	<i>1.20</i>	<i>31.3</i>	<i>4.6</i>
Overall Average	1409	1515	1477	1394	1449	40.7	85.5	1.20	31.9	4.6
LSD 0.10	239	227	197	196	157	1.0	0.5	0.02	1.3	0.2
CV %	14.5	12.8	11.4	12.0	12.7	2.4	0.7	1.61	4.3	4.5

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 2. Two-Year Summary for Dryland Earlier Maturity Cotton Varieties at Four Locations^a, 2004-2005

Variety	Lint Yield ^b lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
DP 455 BG/RR	1335 ¹	43.0	84.1	1.16	33.2	4.4
FM960BR	1292 ²	40.2	84.6	1.14	35.2	4.6
DP 445 BG/RR	1280 ³	41.6	85.4	1.16	31.0	4.8
DP 444 BG/RR	1247 ⁴	42.9	85.3	1.15	30.4	4.4
DP 393	1221 ⁵	41.1	85.6	1.18	32.6	5.0
DP 434 RR	1219 ⁶	42.1	85.8	1.20	29.0	4.5
DP 432 RR	1216 ⁷	40.8	85.2	1.15	31.8	4.8
GA2002167	1205 ⁸	42.7	84.5	1.17	34.6	4.9
GA2002212	1203 ⁹	43.6	85.2	1.18	34.3	5.0
FM960B2R	1172 ^{10T}	39.7	85.1	1.19	34.8	4.7
FM960R	1172 ^{10T}	41.0	85.0	1.18	35.8	4.3
FM958LL	1169 ¹¹	40.7	85.1	1.19	34.2	4.6
GA2002211	1107 ¹²	41.4	85.0	1.16	34.2	5.1
Deltapearl	1101 ¹³	39.6	85.1	1.19	32.8	4.9
DP 424 BII/R	1079 ¹⁴	37.1	85.1	1.15	29.4	4.8
GA200035	1070 ¹⁵	40.8	85.3	1.18	34.2	4.8
FM966LL	1039 ¹⁶	39.1	84.9	1.15	36.9	4.6
Average	1184	41.0	85.1	1.17	33.2	4.7
LSD 0.10	65	0.4	0.4	0.01	0.9	0.1
CV %	13.4	2.2	0.8	1.94	4.6	4.4

^a Athens, Midville, Plains, and Tifton.

^b Superscripts indicate ranking.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 3. Yield Summary for Earlier Maturity Cotton Varieties, 2005, Irrigated

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	4-Loc. Average					
	lb/acre									
DP 455 BG/RR	973 ¹³	2339 ¹	1678 ⁷	1582 ⁸	1643 ¹	42.7	84.6	1.19	33.1	4.3
DP 445 BG/RR	1085 ⁶	2003 ⁷	1745 ⁵	1590 ⁷	1606 ²	41.8	85.4	1.18	31.7	4.7
DP 444 BG/RR	1062 ⁹	2011 ⁶	1744 ⁶	1497 ¹⁶	1578 ³	43.0	85.7	1.19	30.5	4.3
DPLX04Y170BR	1068 ⁸	1852 ²²	1772 ⁴	1616 ³	1577 ⁴	41.9	85.3	1.18	31.4	4.7
DP 393	1301 ¹	1886 ¹⁷	1536 ¹⁷	1454 ²³	1544 ⁵	41.5	86.5	1.22	32.6	4.9
ST4575BR	1108 ⁴	1702 ³⁵	1798 ²	1536 ¹²	1536 ^{7T}	40.9	85.6	1.18	29.7	4.8
DP 454 BG/RR	1131 ²	2048 ³	1825 ¹	1139 ⁴²	1536 ^{7T}	41.7	85.3	1.16	30.9	4.1
DP 432 RR	937 ¹⁶	2031 ⁵	1502 ²¹	1649 ¹	1530 ⁸	40.6	86.1	1.20	30.7	4.8
PHY370WR	788 ²⁶	1878 ¹⁹	1781 ³	1602 ⁵	1512 ⁹	40.7	85.9	1.19	30.9	4.7
PHY310R	1090 ⁵	1917 ¹⁴	1538 ¹⁵	1455 ²²	1500 ¹⁰	41.8	85.3	1.17	32.5	4.7
UGA161	1129 ³	1726 ³¹	1519 ¹⁸	1474 ¹⁸	1462 ¹³	38.6	85.9	1.24	33.1	4.7
ST5242BR	998 ¹²	1819 ²⁶	1589 ¹²	1405 ²⁹	1453 ¹⁴	40.6	84.9	1.15	29.0	4.5
DPLX03X179R	1025 ¹⁰	2039 ⁴	1379 ²⁹	1359 ³¹	1450 ¹⁵	42.5	86.2	1.22	34.6	4.5
PHY440W	768 ³¹	1875 ²⁰	1612 ¹¹	1508 ¹⁴	1441 ¹⁶	40.6	85.8	1.21	30.2	4.4
DP 424 BII/R	1075 ⁷	1814 ²⁷	1487 ²⁴	1357 ³²	1433 ¹⁷	37.2	85.6	1.17	29.9	4.7
FM960BR	972 ^{14T}	1606 ⁴¹	1629 ⁹	1448 ²⁴	1414 ¹⁹	39.1	85.1	1.17	35.3	4.4
DP 434 RR	672 ³⁷	1909 ¹⁵	1488 ²³	1489 ¹⁷	1390 ²³	41.7	85.7	1.24	29.1	4.1
ST4686R	883 ²¹	1724 ³²	1510 ¹⁹	1437 ²⁷	1388 ²⁴	41.1	85.6	1.19	30.8	4.7
GA2002167	897 ¹⁹	1973 ⁹	1350 ^{31T}	1200 ³⁷	1355 ²⁷	41.4	84.8	1.19	32.2	4.8
FM960B2R	743 ³⁵	1691 ³⁶	1627 ¹⁰	1178 ³⁸	1310 ³²	39.4	85.6	1.22	33.8	4.7
FM958LL	960 ¹⁵	1658 ³⁹	1352 ³⁰	1214 ³⁶	1296 ³³	39.6	85.6	1.22	33.7	4.7
GA200035	924 ¹⁷	1873 ²¹	1229 ³⁸	1126 ⁴³	1288 ³⁴	39.7	85.6	1.21	33.9	4.6
GA2002211	669 ³⁸	1833 ²⁴	1181 ⁴⁰	1363 ³⁰	1261 ³⁵	40.8	86.2	1.21	34.0	5.0
Tamcot 22	657 ⁴²	1634 ⁴⁰	1446 ²⁶	1276 ³⁴	1253 ³⁷	41.2	85.1	1.20	29.3	4.6
Deltapearl	661 ⁴⁰	1712 ³³	1268 ³⁶	1263 ³⁵	1226 ³⁸	39.4	85.5	1.23	31.8	4.7
FM966LL	826 ²²	1710 ³⁴	1204 ³⁹	1153 ⁴¹	1223 ³⁹	39.1	85.3	1.18	35.9	4.2
FM960R	668 ³⁹	1735 ³⁰	1305 ³⁵	1166 ³⁹	1218 ⁴⁰	40.0	85.3	1.21	34.6	4.1
GA2002207	818 ²⁴	1676 ³⁸	1142 ⁴²	1165 ⁴⁰	1200 ⁴¹	41.0	85.5	1.21	32.5	4.8
GA2002212	766 ³²	1569 ⁴³	1350 ^{31T}	1088 ⁴⁴	1193 ⁴²	42.9	85.9	1.20	34.3	5.1
<i>Group Average</i>	<i>919</i>	<i>1836</i>	<i>1503</i>	<i>1372</i>	<i>1407</i>	<i>40.8</i>	<i>85.6</i>	<i>1.2</i>	<i>32.1</i>	<i>4.6</i>

Table 3. Yield Summary for Earlier Maturity Cotton Varieties, 2005, Irrigated (Cont'd)

Entry	Lint Yield ^a					Lint %	Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains lb/acre	Tifton	Average					
RRFlex Varieties										
DP 117 B2RF	972 ^{14T}	1947 ¹¹	1644 ⁸	1603 ⁴	1541 ⁶	41.0	85.4	1.20	35.0	4.8
ST 4554B2RF	913 ¹⁸	1924 ^{12T}	1541 ¹⁴	1595 ⁶	1493 ¹¹	40.6	85.3	1.20	30.9	4.9
DP 113 B2RF	812 ²⁵	1967 ¹⁰	1546 ¹³	1578 ⁹	1476 ^{12T}	39.4	85.4	1.21	35.8	4.2
PHY485WRF	1017 ¹¹	1774 ²⁸	1537 ¹⁶	1576 ¹⁰	1476 ^{12T}	40.1	86.5	1.21	32.5	4.9
PHY415RF	786 ²⁷	2103 ²	1350 ^{31T}	1463 ²⁰	1425 ¹⁸	40.4	85.4	1.18	30.4	4.7
ST 4664RF	782 ²⁸	1922 ¹³	1325 ³³	1618 ²	1412 ²⁰	41.1	85.8	1.20	30.5	4.8
DynaGro 2520B2RF	744 ³⁴	1924 ^{12T}	1504 ²⁰	1462 ²¹	1408 ²¹	39.7	86.2	1.25	29.3	4.1
CG4020B2RF	754 ³³	1884 ¹⁸	1496 ²²	1465 ¹⁹	1400 ²²	39.8	86.4	1.26	29.1	4.2
CG3520B2RF	821 ²³	1826 ²⁵	1343 ³²	1504 ¹⁵	1374 ²⁵	39.1	86.6	1.24	28.2	4.4
DP 110 RF	707 ³⁶	1984 ⁸	1177 ⁴¹	1558 ¹¹	1357 ²⁶	40.3	86.1	1.21	35.3	4.7
PHY425RF	887 ²⁰	1677 ³⁷	1317 ³⁴	1530 ¹³	1353 ²⁸	40.1	86.0	1.21	31.2	4.8
PHY475WRF	777 ²⁹	1763 ²⁹	1427 ²⁷	1439 ²⁶	1352 ²⁹	40.1	86.0	1.19	31.2	4.6
CG3020B2RF	658 ⁴¹	1846 ²³	1418 ²⁸	1447 ²⁵	1342 ³⁰	39.0	85.5	1.19	28.9	4.2
DynaGro 2100B2RF	613 ⁴³	1892 ¹⁶	1464 ²⁵	1300 ³³	1317 ³¹	38.3	85.8	1.18	28.9	4.2
DP 108 RF	777 ³⁰	1581 ⁴²	1236 ³⁷	1422 ²⁸	1254 ³⁶	40.3	85.4	1.19	32.5	4.3
<i>Group Average</i>	<i>801</i>	<i>1868</i>	<i>1422</i>	<i>1504</i>	<i>1399</i>	<i>40.0</i>	<i>85.5</i>	<i>1.21</i>	<i>31.3</i>	<i>4.5</i>
Overall Average	879	1847	1475	1417	1404	40.5	85.6	1.20	31.8	4.6
LSD 0.10	194	260	189	189	157	0.9	0.6	0.02	1.2	0.2
CV %	18.9	12.0	10.9	11.4	12.8	2.0	0.8	1.78	4.4	5.2

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

**Table 4. Two-Year Summary for Earlier Maturity Cotton Varieties
at Four Locations^a, 2004-2005, Irrigated**

Variety	Lint Yield ^b lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
DP 455 BG/RR	1624 ¹	43.3	84.5	1.19	33.3	4.3
DP 432 RR	1548 ²	41.1	85.5	1.18	31.0	4.8
DP 445 BG/RR	1533 ³	41.7	85.2	1.17	31.1	4.6
DP 393	1530 ⁴	41.3	86.2	1.21	32.6	4.8
FM960BR	1507 ⁵	40.1	84.9	1.16	36.2	4.5
DP 444 BG/RR	1460 ⁶	42.8	85.4	1.18	30.4	4.3
DP 434 RR	1449 ⁷	42.1	85.7	1.22	28.5	4.3
GA2002167	1417 ⁸	42.7	84.8	1.18	32.8	4.8
GA2002211	1415 ⁹	41.8	85.6	1.19	34.4	4.9
DP 424 BII/R	1406 ¹⁰	37.8	85.6	1.17	29.2	4.7
GA200035	1389 ¹¹	41.1	85.3	1.19	34.0	4.7
FM958LL	1377 ¹²	40.3	85.3	1.20	34.3	4.7
FM960B2R	1374 ¹³	39.9	85.3	1.21	34.2	4.7
Deltapearl	1372 ¹⁴	40.5	85.7	1.22	32.5	4.7
GA2002212	1364 ¹⁵	43.4	85.7	1.20	34.4	5.0
FM960R	1352 ¹⁶	40.6	85.4	1.19	34.7	4.2
FM966LL	1327 ¹⁷	39.2	85.1	1.17	37.0	4.3
Average	1438	41.2	85.4	1.19	33.0	4.6
LSD 0.10	N.S. ^c	0.4	0.4	0.01	0.9	0.1
CV %	11.8	2.3	0.8	1.67	4.9	5.2

^a Bainbridge, Midville, Plains, and Tifton.

^b Superscripts indicate ranking.

^c The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore a LSD value was not calculated.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 5. Yield Summary for Dryland Later Maturity Cotton Varieties, 2005

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton	4-Loc. Average					
	-----lb/acre-----									
DP 454 BG/RR	1698 ¹	1624 ¹⁰	1932 ¹	1312 ¹⁰	1642 ¹	42.5	85.2	1.16	30.1	4.4
DPLX04Y170BR	1455 ⁷	1606 ^{13T}	1651 ²	1468 ¹	1545 ²	42.0	84.8	1.17	31.7	4.8
ST6636BR	1517 ³	1664 ⁷	1616 ⁴	1274 ¹⁵	1518 ³	39.7	85.3	1.19	32.8	5.0
ST 5599BR	1498 ⁵	1589 ¹⁴	1618 ³	1362 ²	1517 ⁴	40.5	84.4	1.18	32.4	4.8
DP 455 BG/RR	1409 ¹⁰	1928 ²	1464 ¹¹	1254 ¹⁶	1514 ⁵	43.3	84.3	1.19	32.1	4.3
DP 494 RR	1462 ⁶	1832 ⁴	1376 ¹⁷	1298 ¹²	1492 ⁶	41.7	85.8	1.21	34.4	5.0
DP 445 BG/RR	1535 ²	1525 ²¹	1506 ⁸	1357 ³	1481 ⁷	42.3	85.6	1.18	32.3	4.9
DPLX03X179R	1360 ¹²	1993 ¹	1206 ³²	1328 ⁷	1472 ⁸	43.0	86.0	1.21	34.8	4.9
DP 449 BG/RR	1361 ¹¹	1619 ¹¹	1511 ⁷	1351 ⁵	1461 ⁹	40.2	84.7	1.16	34.2	4.8
DP 555 BG/RR	1257 ¹⁷	1371 ³⁷	1599 ⁵	1346 ⁶	1393 ¹¹	42.0	84.1	1.17	32.4	4.7
GA2003178	1426 ⁹	1572 ¹⁶	1346 ²⁰	1127 ²³	1368 ¹³	39.9	84.9	1.16	35.8	5.1
FM991BR	1430 ⁸	1476 ²⁷	1568 ⁶	982 ³⁶	1364 ¹⁵	40.8	84.8	1.18	35.3	5.1
DP 491	1142 ²⁶	1867 ³	1327 ²¹	1092 ³⁰	1357 ¹⁶	42.2	86.0	1.25	34.3	4.7
GA2001078	1206 ²²	1516 ²⁴	1314 ²³	1297 ¹³	1333 ¹⁹	42.1	85.9	1.21	33.0	4.7
GA2003118	1264 ¹⁵	1581 ¹⁵	1247 ³⁰	1212 ²⁰	1326 ²⁰	40.1	86.7	1.24	34.1	4.9
DP 543 BGII/R	1047 ³²	1548 ¹⁷	1382 ¹⁶	1314 ⁸	1323 ²¹	39.2	84.6	1.18	32.1	4.7
DP 488 BG/RR	1228 ²⁰	1436 ³²	1498 ¹⁰	1054 ³²	1304 ²²	39.8	86.2	1.23	33.5	4.7
Deltapearl	1064 ³¹	1649 ⁸	1323 ²²	1135 ²²	1293 ²³	40.4	85.3	1.22	32.4	4.9
DP 493	1044 ³³	1606 ^{13T}	1390 ¹⁵	1101 ²⁸	1285 ²⁴	42.4	84.6	1.17	32.9	5.1
ST6848R	1192 ²³	1509 ²⁵	1282 ²⁶	1120 ²⁵	1276 ²⁷	39.0	86.2	1.20	35.8	4.9
GA2003137	1244 ¹⁹	1543 ¹⁸	1268 ²⁹	1043 ³⁴	1274 ²⁸	42.1	85.9	1.21	32.7	4.8
ST 5303R	1113 ²⁹	1413 ³⁵	1284 ²⁴	1191 ²¹	1250 ³⁰	39.5	85.7	1.15	34.8	4.6
FM991B2R	954 ³⁵	1434 ³³	1272 ²⁷	1306 ¹¹	1241 ^{31T}	38.6	85.4	1.21	35.5	4.6
DPLX05X648DR	936 ³⁷	1440 ³¹	1500 ⁹	1089 ³¹	1241 ^{31T}	41.4	84.0	1.17	30.3	5.0
FM991R	1094 ³⁰	1681 ⁶	1134 ³⁷	929 ³⁹	1210 ³⁴	39.1	85.7	1.21	33.6	4.9
GA2003165	1128 ²⁷	1524 ²²	1143 ³⁶	1028 ³⁵	1206 ³⁵	38.9	85.2	1.19	32.9	4.6
PHY510RR	1144 ²⁵	1407 ³⁶	1155 ³⁴	1051 ³³	1189 ³⁸	39.2	84.9	1.19	34.0	4.9
<i>Group Average</i>	1267	1591	1404	1201	1366	40.8	85.3	1.19	33.3	4.8

Table 5. Yield Summary for Dryland Later Maturity Cotton Varieties, 2005 (Cont'd)

Entry	Lint Yield ^a					Lint %	Unif. %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton	4-Loc.					
<i>RRFlex Varieties</i>										
ST 6611B2RF	1246 ¹⁸	1648 ⁹	1402 ¹⁴	1355 ⁴	1413 ¹⁰	39.2	84.8	1.19	32.3	4.8
ST 4357B2RF	1318 ^{13T}	1475 ²⁸	1416 ¹³	1313 ⁹	1380 ¹²	40.7	86.0	1.23	29.0	4.5
STX 0414B2RF	1301 ^{14T}	1535 ¹⁹	1350 ¹⁹	1282 ¹⁴	1367 ¹⁴	38.6	85.7	1.21	32.5	4.6
DP 143 B2RF	1318 ^{13T}	1468 ²⁹	1356 ¹⁸	1250 ¹⁷	1348 ¹⁷	38.7	85.7	1.28	29.6	4.6
ST 6622RF	1505 ⁴	1612 ¹²	1127 ³⁸	1111 ²⁶	1339 ¹⁸	40.5	85.7	1.20	32.7	4.8
STX5885B2RF	953 ³⁶	1521 ²³	1420 ¹²	1235 ¹⁹	1282 ²⁵	38.7	85.3	1.20	31.5	5.0
DP 147 RF	1301 ^{14T}	1686 ⁵	1156 ³³	981 ³⁷	1281 ²⁶	40.7	85.4	1.25	32.5	4.5
DP 164 B2RF	1124 ²⁸	1423 ³⁴	1271 ²⁸	1237 ¹⁸	1264 ²⁹	39.6	85.0	1.22	31.8	4.8
DP 156 B2RF	1160 ²⁴	1533 ²⁰	1152 ³⁵	1100 ²⁹	1236 ³²	38.7	85.0	1.21	30.0	4.5
ST 5007B2RF	1217 ²¹	1332 ³⁸	1283 ²⁵	1102 ²⁷	1233 ³³	37.0	86.2	1.25	29.9	4.3
DP 152 RF	1009 ³⁴	1467 ³⁰	1220 ³¹	1125 ²⁴	1205 ³⁶	39.5	84.9	1.20	30.9	4.4
DP 167 RF	1259 ¹⁶	1485 ²⁶	1053 ³⁹	978 ³⁸	1194 ³⁷	39.6	86.1	1.25	32.6	4.6
<i>Group Average</i>	1226	1515	1267	1172	1295	39.3	85.5	1.22	31.3	4.6
Overall Average	1254	1568	1362	1192	1344	40.3	85.3	1.20	32.7	4.7
LSD 0.10	202	241	203	180	156	0.9	1.7	0.02	1.3	0.2
CV %	13.7	13.1	12.7	12.9	13.2	1.8	0.8	1.76	4.5	4.7

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 6. Two-Year Summary for Dryland Later Maturity Cotton Varieties at Four Locations^a, 2004-2005

Variety	Lint Yield ^b lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
ST 5599BR	1316 ¹	41.3	83.9	1.13	32.1	5.0
DP 455 BG/RR	1301 ²	43.7	84.0	1.16	32.9	4.5
DP 449 BG/RR	1262 ³	40.2	84.3	1.12	34.4	4.9
DP 494 RR	1257 ⁴	41.4	85.2	1.18	33.7	5.0
DP 555 BG/RR	1255 ⁵	42.7	83.8	1.14	31.7	4.9
DP 445 BG/RR	1230 ⁶	42.1	85.0	1.15	31.9	4.9
FM991BR	1205 ⁷	40.0	84.6	1.15	36.0	5.0
DP 491	1193 ⁸	42.6	85.4	1.21	34.3	4.9
DP 488 BG/RR	1183 ⁹	41.1	85.2	1.19	32.8	4.8
GA2003137	1182 ¹⁰	42.9	84.6	1.16	33.1	5.0
GA2001078	1160 ¹¹	41.8	85.2	1.17	33.1	4.9
Deltapearl	1159 ¹²	40.6	84.8	1.19	32.5	5.0
DP 493	1154 ¹³	42.9	84.1	1.14	32.9	5.2
DP 543 BGII/RR	1143 ¹⁴	40.1	84.1	1.14	31.6	5.0
GA2003165	1126 ¹⁵	39.6	84.7	1.17	33.0	4.8
ST 5303R	1101 ¹⁶	39.7	85.0	1.11	35.7	4.8
FM991B2R	1072 ¹⁷	38.8	84.9	1.18	34.5	4.7
FM991R	1050 ¹⁸	38.9	85.0	1.17	33.8	4.9
PHY510RR	1048 ¹⁹	39.4	84.5	1.16	33.9	4.9
Average	1179	41.0	84.6	1.16	33.4	4.9
LSD 0.10	70	0.3	0.4	0.01	1.0	0.1
CV %	13.8	1.7	0.7	1.74	4.7	4.4

^a Athens, Midville, Plains, and Tifton.

^b Superscripts indicate ranking.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 7. Yield Summary for Later Maturity Cotton Varieties, 2005, Irrigated

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	4-Loc. Average					
DPLX04Y170BR	1251 ⁴	2234 ³	1941 ¹	1701 ¹	1782 ¹	41.2	85.8	1.21	32.0	4.7
ST6636BR	1340 ²	2230 ⁴	1674 ⁴	1589 ⁴	1708 ²	39.0	86.1	1.23	33.6	4.6
DP 445 BG/RR	1343 ¹	2130 ¹¹	1734 ²	1593 ³	1700 ³	41.4	86.2	1.22	32.0	4.7
DP 449 BG/RR	1147 ⁷	2283 ¹	1691 ³	1529 ⁷	1662 ⁴	39.6	85.7	1.19	34.2	4.8
DP 454 BG/RR	1188 ⁵	2171 ⁶	1634 ⁷	1605 ²	1649 ⁵	41.9	85.6	1.18	30.7	4.1
DP 555 BG/RR	1278 ³	2034 ¹⁸	1665 ⁶	1476 ^y	1613 ⁶	42.5	85.0	1.19	31.3	4.6
DP 455 BG/RR	966 ¹⁹	2250 ²	1570 ¹¹	1371 ²²	1540 ⁷	41.9	85.3	1.21	33.2	4.1
DP 493	1097 ⁹	2168 ⁷	1673 ⁵	1220 ³⁷	1539 ⁸	42.7	85.0	1.20	32.7	4.8
DPLX05X648DR	984 ¹⁴	2115 ¹³	1628 ⁹	1424 ¹⁶	1538 ⁹	41.2	84.4	1.19	31.1	4.9
GA2001078	955 ²⁰	2164 ⁸	1507 ¹²	1442 ¹⁴	1517 ^{11T}	41.9	85.8	1.21	33.2	4.8
ST 5599BR	1143 ⁸	1997 ²¹	1583 ¹⁰	1344 ²⁴	1517 ^{11T}	39.5	85.3	1.21	32.8	4.6
DPLX03X179R	892 ²⁶	2137 ^y	1342 ²⁴	1580 ^b	1488 ¹³	41.8	86.0	1.22	35.3	4.6
DP 488 BG/RR	908 ²⁴	2086 ¹⁴	1483 ¹⁴	1382 ²⁰	1464 ¹⁴	39.8	86.0	1.24	32.7	4.6
ST6848R	864 ³¹	2205 ⁵	1464 ¹⁵	1299 ²⁸	1458 ¹⁵	38.8	86.2	1.22	35.6	4.7
GA2003137	875 ²⁹	1908 ²⁹	1633 ⁸	1374 ²¹	1448 ¹⁶	42.2	86.1	1.22	33.4	4.6
DP 543 BGII/R	982 ¹⁶	1880 ³³	1386 ²²	1386 ¹⁸	1408 ²¹	38.7	85.2	1.21	32.9	4.7
GA2003118	977 ¹⁷	2128 ¹²	1203 ³¹	1307 ²⁷	1404 ²²	39.2	86.0	1.23	33.5	4.6
DP 494 RR	1006 ¹²	2135 ¹⁰	1246 ^{z/}	1189 ³⁸	1394 ²³	40.7	86.1	1.23	35.2	4.8
GA2003178	975 ¹⁸	1906 ³⁰	1207 ²⁹	1425 ¹⁵	1379 ²⁵	38.4	85.3	1.19	36.5	4.9
FM991BR	888 ²⁸	1954 ²⁴	1171 ³²	1397 ¹⁷	1352 ²⁶	39.2	85.3	1.20	37.3	4.8
Deltapearl	631 ³⁹	2076 ¹⁵	1438 ¹⁷	1250 ³⁵	1349 ²⁷	38.4	85.6	1.24	32.3	4.6
ST 5303R	892 ²⁷	1981 ²²	1158 ^{34T}	1237 ³⁶	1317 ³⁰	38.6	86.3	1.18	36.7	4.3
DP 491	837 ³⁴	2011 ¹⁹	1025 ³⁷	1342 ²⁵	1304 ³¹	41.5	86.4	1.27	33.7	4.5
GA2003165	1017 ¹¹	1816 ³⁶	1096 ³⁵	1252 ³⁴	1295 ³²	38.3	86.0	1.23	33.8	4.4
PHY510RR	870 ³⁰	1909 ²⁸	989 ³⁸	1352 ²³	1280 ³³	38.7	85.2	1.20	34.8	4.7
FM991R	855 ³²	1945 ²⁶	1206 ³⁰	1057 ³⁹	1266 ³⁵	39.0	85.3	1.22	35.0	4.7
FM991B2R	815 ³⁶	1631 ³⁹	1297 ²⁶	1293 ²⁹	1259 ³⁶	37.8	85.5	1.23	36.1	4.4
<i>Group Average</i>	999	2055	1431	1386	1468	40.1	85.6	1.21	33.8	4.6

Table 7. Yield Summary for Later Maturity Cotton Varieties, 2005, Irrigated (Cont'd)

Entry	Lint Yield ^a					Lint %	Unif. %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	4-Loc.					
	----- lb/acre -----									
RRFlex Varieties										
STX 0414B2RF	1179 ⁶	1978 ²³	1437 ¹⁸	1537 ⁶	1533 ¹⁰	38.2	85.9	1.23	33.2	4.6
ST 4357B2RF	1032 ¹⁰	2054 ¹⁶	1493 ¹³	1458 ¹²	1509 ¹²	39.9	86.9	1.27	29.8	4.2
ST 6611B2RF	987 ¹³	1889 ³²	1415 ²⁰	1473 ¹⁰	1441 ¹⁷	38.2	85.3	1.22	32.8	4.6
DP 164 B2RF	941 ²¹	1847 ³⁴	1444 ¹⁶	1469 ¹¹	1425 ¹⁸	39.3	86.3	1.25	32.1	4.8
DP 143 B2RF	983 ¹⁵	2009 ²⁰	1350 ²³	1325 ²⁶	1417 ¹⁹	38.6	86.1	1.29	30.2	4.4
ST 6622RF	927 ²³	1910 ²⁷	1309 ²⁵	1490 ⁸	1409 ²⁰	39.8	86.1	1.23	32.5	4.5
DP 156 B2RF	840 ³³	1897 ³¹	1431 ¹⁹	1383 ¹⁹	1387 ²⁴	38.4	85.2	1.23	30.3	4.5
DP 147 RF	824 ^{3b}	1952 ^{2b}	1170 ³³	1446 ¹³	1348 ²⁸	39.9	86.2	1.27	32.8	4.4
ST 5007B2RF	899 ^{2b}	1737 ³⁸	1396 ²¹	1277 ³¹	1327 ^{29I}	36.6	87.2	1.28	30.4	4.0
DP 167 RF	929 ²²	2053 ¹⁷	1065 ³⁶	1262 ³³	1327 ^{29T}	38.6	86.4	1.27	33.0	4.5
STX5885B2RF	762 ³⁷	1829 ³⁵	1224 ²⁸	1269 ³²	1271 ³⁴	36.6	85.6	1.23	32.0	4.7
DP 152 RF	742 ³⁸	1812 ³⁷	1158 ^{34T}	1279 ³⁰	1248 ³⁷	38.5	85.0	1.23	31.4	4.2
<i>Group Average</i>	<i>920</i>	<i>1914</i>	<i>1324</i>	<i>1389</i>	<i>1387</i>	<i>38.6</i>	<i>86.0</i>	<i>1.25</i>	<i>31.7</i>	<i>4.4</i>
Overall Average	975	2012	1398	1387	1443	39.7	85.8	1.22	33.1	4.6
LSD 0.10	196	198	283	149	134	0.9	0.6	0.02	1.4	0.2
CV %	17.2	8.4	12.0	9.2	10.8	1.8	0.9	1.58	4.3	4.5

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

**Table 8. Two-Year Summary for Later Maturity Cotton Varieties
at Four Locations^a, 2004-2005, Irrigated**

Variety	Lint Yield ^b lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
DP 555 BG/RR	1650 ¹	43.1	84.6	1.18	31.5	4.6
DP 445 BG/RR	1648 ²	41.8	85.8	1.19	31.7	4.7
DP 455 BG/RR	1590 ³	42.8	85.1	1.19	32.8	4.2
DP 488 BG/RR	1580 ⁴	40.8	86.2	1.23	32.5	4.7
DP 449 BG/RR	1577 ⁵	40.4	85.2	1.16	34.0	4.7
GA2001078	1568 ⁶	42.2	85.7	1.19	33.2	4.7
GA2003137	1541 ⁷	42.9	85.7	1.20	33.7	4.7
ST 5599BR	1538 ⁸	40.9	85.1	1.18	32.6	4.8
DP 493	1537 ⁹	43.4	84.9	1.18	33.2	4.8
DP 494 RR	1527 ¹⁰	41.8	85.9	1.21	34.5	4.7
DP 543 BGII/RR	1473 ¹¹	39.8	85.2	1.19	32.2	4.8
Deltapearl	1445 ¹²	40.4	85.4	1.22	32.3	4.7
FM991BR	1440 ¹³	39.6	85.2	1.18	37.1	4.8
DP 491	1437 ¹⁴	42.3	86.2	1.25	34.0	4.5
GA2003165	1432 ¹⁵	39.1	85.9	1.22	34.8	4.6
ST 5303R	1410 ¹⁶	39.7	85.6	1.15	36.5	4.5
FM991R	1358 ¹⁷	39.5	84.9	1.20	34.8	4.7
FM991B2R	1349 ¹⁸	38.3	85.4	1.21	35.9	4.4
PHY510RR	1341 ¹⁹	39.5	84.9	1.19	34.0	4.8
Average	1497	40.9	85.4	1.20	33.7	4.6
LSD 0.10	67	0.4	0.4	0.01	0.8	0.1
CV %	10.0	2.1	0.8	1.57	4.0	4.7

^a Bainbridge, Midville, Plains, and Tifton.

^b Superscripts indicate ranking.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 9. Yield Summary for Earlier Maturity Cotton Strains, 2005, Irrigated

Variety	Lint Yield ^a				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
	----- lb/acre -----								
DX25105N	1923 ¹⁰	1672 ³	1471 ³	1689 ³	41.7	85.9	1.24	31.4	5.1
Deltapearl	1864 ¹¹	1624 ⁵	1307 ¹⁵	1598 ⁹	40.4	86.0	1.23	33.3	4.8
DX24101-20	1833 ¹²	1473 ¹⁵	1481 ²	1596 ^{10T}	40.2	86.4	1.23	33.2	4.5
GA2003156	2046 ²	1499 ¹⁴	1240 ¹⁸	1595 ¹¹	40.5	86.2	1.24	35.1	4.7
GA2002209	1945 ⁷	1397 ¹⁸	1399 ⁹	1580 ¹²	41.6	86.0	1.22	33.8	4.9
FMx96-5044B2L	1792 ¹⁴	1532 ¹²	1262 ¹⁷	1529 ¹⁴	38.0	86.1	1.28	33.8	4.6
FMx9166B2LL	1785 ¹⁵	1535 ¹¹	1196 ²⁰	1506 ¹⁵	39.0	85.2	1.20	36.1	4.4
DX24706	1607 ¹⁹	1441 ¹⁶	1460 ⁴	1503 ¹⁶	40.0	85.9	1.19	30.6	5.0
Tam 00 WA-104	1552 ²²	1511 ¹³	1379 ¹¹	1481 ¹⁷	38.4	86.0	1.21	32.5	4.5
FM966LL	1696 ¹⁸	1207 ²²	1212 ¹⁹	1372 ¹⁸	38.3	85.7	1.20	36.2	4.4
Tam 99 WJ-9	1473 ²³	1348 ¹⁹	1276 ¹⁶	1366 ¹⁹	37.0	86.6	1.26	34.7	4.6
GA2002113	1601 ²⁰	1269 ²¹	1185 ²¹	1352 ²⁰	40.8	86.1	1.27	33.0	4.5
Tam 98 WW-3	1750 ¹⁷	1150 ²⁵	1144 ^{23T}	1348 ²¹	37.4	85.8	1.24	30.4	4.5
GA2002199	1353 ²⁵	1158 ²³	832 ²⁴	1114 ²⁴	41.1	85.7	1.19	35.7	5.5
<i>Group Average</i>	<i>1730</i>	<i>1415</i>	<i>1274</i>	<i>1474</i>	<i>39.6</i>	<i>86.0</i>	<i>1.23</i>	<i>33.6</i>	<i>4.7</i>
<u>RRFlex Varieties</u>									
xBCG-9124-F	2173 ¹	1671 ⁴	1448 ⁶	1764 ¹	40.2	87.3	1.27	28.9	4.3
xBCG-1004-F	2016 ³	1735 ¹	1459 ⁵	1737 ²	39.3	87.1	1.25	29.4	4.5
CX621-F	1934 ⁸	1613 ⁷	1484 ¹	1677 ⁴	39.4	86.9	1.28	28.9	4.3
xBCG-4630-F	1960 ⁵	1618 ⁶	1427 ⁷	1668 ⁸	39.9	87.0	1.27	29.5	4.3
xBCG-4575-F	2006 ⁴	1588 ⁸	1397 ¹⁰	1664 ⁶	39.0	86.0	1.20	29.9	4.2
xBCG-3255-F	1950 ⁶	1577 ⁹	1418 ⁸	1648 ⁷	39.2	86.1	1.19	29.8	4.2
xBCG-4153-F	1928 ⁹	1539 ¹⁰	1362 ¹³	1610 ⁸	39.0	86.0	1.23	28.7	4.3
xBCG-8391-F	1783 ¹⁶	1674 ²	1330 ¹⁴	1596 ^{10T}	36.9	87.4	1.28	30.0	4.2
CX601-F	1806 ¹³	1426 ¹⁷	1365 ¹²	1532 ¹³	39.5	85.6	1.20	29.4	4.3
xBCG-1505-F	1451 ²⁴	1282 ²⁰	1157 ²²	1296 ²²	37.5	86.0	1.21	33.9	4.3
xBCG-0105-F	1565 ²¹	1155 ²⁴	1144 ^{23T}	1288 ²³	36.0	85.9	1.27	32.8	3.8
<i>Group Average</i>	<i>1870</i>	<i>1534</i>	<i>1363</i>	<i>1589</i>	<i>38.7</i>	<i>86.5</i>	<i>1.24</i>	<i>30.1</i>	<i>4.2</i>
Overall Average	1792	1468	1313	1524	39.2	86.2	1.23	32.0	4.5
LSD 0.10	229	196	170	138	1.0	0.6	0.02	1.2	0.2
CV %	10.9	11.4	11.0	11.1	2.2	0.7	1.59	3.8	4.8

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Table 10. Yield Summary for Later Maturity Cotton Strains, 2005, Irrigated

Variety	Lint Yield ^a				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
	----- lb/acre -----								
CS37	1900 ²	1316 ⁶	1478 ¹	1565 ¹	39.6	85.8	1.24	31.2	4.6
Deltapearl	1831 ⁵	1435 ²	1307 ³	1525 ²	39.5	85.0	1.24	33.2	4.8
FMx9166B2LL	1781 ⁸	1514 ¹	1246 ⁸	1514 ³	39.0	85.0	1.21	35.9	4.6
CS44	1889 ³	1383 ³	1264 ⁵	1512 ⁴	40.0	85.6	1.25	31.8	4.7
GA2003138	1834 ^{4T}	1324 ⁵	1221 ⁹	1460 ⁵	39.8	85.5	1.21	31.0	4.4
GA2002125	1993 ¹	1110 ¹³	1263 ⁶	1455 ⁶	41.5	86.1	1.25	34.5	4.7
GA2003131	1660 ¹¹	1276 ⁷	1381 ²	1439 ⁷	38.6	86.3	1.28	32.9	4.3
GA2002118	1829 ⁶	1273 ⁸	1131 ¹³	1411 ⁸	39.9	86.3	1.23	35.2	4.9
FM966LL	1670 ¹⁰	1353 ⁴	1186 ¹¹	1403 ⁹	38.0	85.7	1.19	36.7	4.2
CE21	1834 ^{4T}	1101 ¹⁴	1177 ¹²	1371 ¹⁰	38.6	84.6	1.18	31.3	4.8
CS42	1698 ⁹	1081 ¹⁵	1268 ⁴	1349 ¹¹	38.9	86.1	1.27	32.0	4.1
FMx96-5044B2L	1631 ¹²	1169 ¹⁰	1211 ¹⁰	1337 ¹²	36.7	85.7	1.29	34.3	4.4
CE33	1816 ⁷	1059 ¹⁶	1121 ¹⁴	1332 ¹³	36.8	85.2	1.24	34.3	4.5
CS41	1541 ¹⁴	1137 ¹¹	1075 ¹⁶	1251 ¹⁴	38.7	86.2	1.27	31.1	4.4
CS43	1606 ¹³	957 ¹⁷	1105 ¹⁵	1223 ¹⁵	35.4	86.5	1.27	32.2	4.4
CS38	1532 ¹⁵	880 ¹⁸	1254 ⁷	1222 ¹⁶	38.1	86.4	1.26	32.5	4.4
CE25	1455 ¹⁶	1210 ⁹	948 ¹⁸	1205 ¹⁷	39.2	84.6	1.17	34.1	4.5
GA2002199	1382 ¹⁷	1125 ¹²	988 ¹⁷	1165 ¹⁸	41.3	86.4	1.20	35.8	5.2
Average	1716	1206	1201	1374	38.9	85.7	1.23	33.3	4.5
LSD 0.10	263	306	153	162	1.0	0.6	0.02	1.1	0.2
CV %	13.0	21.4	10.8	15.3	2.1	0.8	1.64	3.1	4.8

^a Superscripts indicate ranking at that location.

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).