

2007 COTTON VARIETY TRIALS

J. LaDon Day¹, and Larry Thompson²

¹Crop & Soil Sciences, University of Georgia, Griffin, GA

²Crop & Soil Sciences, University of Georgia, Tifton, GA

Introduction

The 2007 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. Data collected from the University of Georgia Variety Testing Cotton Program can be found at the Statewide Variety Testing Website: www.swvt.uga.edu Also, the data is published in the UGA Agricultural Experiment Station Research Report Number 714, January 2008.

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. 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. 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). A random quality sample was taken on the picker during harvest and ginned to measure lint fraction on all plots including the irrigated late maturing trial at Tifton, but a portion of the seed cotton from the later maturity plots was bagged and sent to the Micro Gin at Tifton for processing. All fiber samples were 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 www.ugacotton.com. Also, the data is available at the Statewide Variety Testing Website: www.swvt.uga.edu.

Results and Discussion

2007 row crop season in Georgia can best be described as dry and hot for the second consecutive year. Beginning in April extreme to exceptional drought(a 100 year event) developed over two-thirds of the state. This area included all of Georgia north of the fall line and the western half of the Coastal Plain region. The only exception was the southeastern one-third of the state which received some beneficial rainfall from tropical storm Berry in early June.

During 2007, Cotton producers planted 1.04 million acres of cotton. This number of acres planted was a decrease of 26% less than 2006. The number of acres of harvested cotton was the lowest in 14 years and coupled with a four percent yield decrease, 1,650,000 bales were produced, a 30% reduction in yield from 2006.

Among varieties in the Dryland Earlier Maturity Trials, four varieties DP444BG/RR, DP455BG/RR, DP445BG/RR, and DynaGro CT07550, stand out as varieties with high yield and relative yield stability in the dryland trials (Table 1). There were 19 other varieties that performed above average(Table 1). When summarized over two years, DP 454 BG/RR, DP 445BG/RR, DP455BG/RR and PHY370WR, were the top performers (Table 2).

Among the best performing earlier maturing varieties produced under irrigation, DP454 BG/RR, ST4554B2RF, DP455BG/RR, ST4664RF, STX4678B2RF, PHY375WRF, PHY370WR, STX4596B2RF, DynaGro CT07550, and ST5327B2RF were the highest averaged over locations (Table 3). Twelve other varieties performed above average(Table 3). DP 454 BG/RR was the highest in yield when averaged over two years and locations in the Irrigated Early Maturity Trials conducted at Bainbridge, Midville, Plains, and Tifton; however, 10 other varieties yielded above average(Table 4).

Later maturity trials produced without irrigation also revealed the consistent performance of AM1550B2RF, DP445BG/RR, GA2004371, ST5599BR, GA2004392, DP455BG/RR, DP515BG/RR, ST5283RF, ST5327B2RF, DP555BG/RR, DP167RF, and STX06351B2RF (Table 5). Three other varieties performed above average(Table5). Averaged over locations and years, DP555BG/RR, DP454BG/RR, DP445BG/RR, DP515BG/RR, and ST5599BR were the front runners. But also yielding above average were three other varieties (Table 6).

Under irrigation, DP555 BG/RR, STX5458B2RF, DP515BG/RR, ST 5599BR, DP445BG/RR, and GA2004371 led the standard later maturing trials averaged over locations (Table 7), while 5 other varieties were above average in lint yield. Averaged

over years and locations, DP555BG/RR was the best performer (Table 8) with another five varieties yielding above average, 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 2008 and beyond (Tables 9). Varieties from Bayer Cropscience FiberMax, and Georgia were high yielding performer among standard earlier maturing entries in the strains trial. In the Later Maturity group two lines from Georgia performed well.

Presented in Table 10 is the Tifton, Georgia, 2007 Later Maturity cotton variety performance, irrigated, data comparing small gin seed/lint with samples processed through the Micro-gin(MG) on the Tifton Campus. The seed cotton from the Later Maturity experiment was sub-sampled, ginned and sent to Star Lab in Knoxville, Tn., for HVI analysis. The remaining seed cotton was sent to the Micro-gin, Tifton Campus for processing and also sent to Star Lab for HVI analysis.

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, 2007

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton	4-Loc. Average					
	lb/acre									
DP 444 BG/RR	624 ^{7T}	841 ²	862 ⁴	1675 ²	1001 ¹	45.3	81.6	1.08	28.4	3.9
DP 455 BG/RR	677 ²	683 ⁸	721 ¹⁵	1699 ¹	945 ^{2T}	45.2	80.6	1.07	29.5	4.1
DP 445 BG/RR	624 ^{7T}	719 ⁵	792 ¹¹	1644 ³	945 ^{2T}	44.5	82.2	1.09	29.8	4.2
DynaGro CT07550	570 ⁹	654 ¹¹	866 ³	1570 ⁵	915 ³	44.2	82.1	1.07	29.2	4.3
DP 434 RR	547 ¹¹	599 ^{22T}	702 ¹⁷	1643 ⁴	873 ⁴	43.7	81.4	1.11	28.0	4.2
DP 454 BG/RR	658 ⁴	844 ¹	797 ⁹	1187 ⁴⁰	872 ⁵	45.8	81.8	1.06	27.6	4.0
FM1600LL	381 ⁴³	815 ³	830 ⁶	1439 ¹⁷	866 ⁶	41.8	82.1	1.12	31.3	4.1
ST5283RF	674 ³	754 ⁴	589 ³⁸	1434 ^{18T}	863 ⁷	44.8	81.7	1.09	30.0	4.2
CG3035RF	651 ⁵	648 ¹⁵	779 ¹³	1365 ^{26T}	861 ⁸	44.3	81.9	1.07	28.9	4.2
ST5327B2RF	564 ¹⁰	556 ³¹	908 ²	1403 ²¹	858 ⁹	44.8	81.9	1.07	29.4	4.2
STX4678B2RF	498 ¹⁷	694 ⁷	794 ¹⁰	1445 ¹⁶	857 ¹⁰	42.1	82.9	1.13	29.4	4.4
ST4427B2RF	480 ²¹	495 ⁴¹	1058 ¹	1387 ²³	855 ¹¹	42.8	81.2	1.09	29.2	4.0
DP 121 RF	442 ³¹	675 ⁹	818 ⁸	1416 ¹⁹	838 ¹²	44.6	81.9	1.09	29.4	4.5
CG3520B2RF	625 ⁶	500 ⁴⁰	674 ²⁵	1522 ⁸	830 ¹³	42.7	82.3	1.11	26.5	4.0
DynaGro 2520B2RF	824 ¹	483 ⁴²	464 ⁴⁵	1502 ¹⁰	819 ¹⁴	41.9	81.5	1.12	27.1	3.8
PHY375WRF	463 ²⁶	597 ²³	643 ³⁰	1551 ⁶	813 ¹⁵	44.9	81.3	1.09	28.4	4.1
PHY370WR	520 ¹⁵	584 ²⁸	775 ¹⁴	1365 ^{26T}	811 ¹⁶	43.9	81.7	1.06	29.2	4.3
ST 5242BR	470 ²⁴	614 ²¹	700 ¹⁹	1450 ¹⁵	808 ^{17T}	43.9	81.8	1.05	27.6	4.1
STX4596B2RF	573 ⁸	583 ²⁹	701 ¹⁸	1376 ²⁵	808 ^{17T}	41.8	82.5	1.14	29.2	4.5
AM1532B2RF	542 ¹³	471 ⁴⁵	700 ²⁰	1515 ⁹	807 ^{18T}	42.5	81.7	1.12	27.0	3.9
GA2004303	462 ²⁷	618 ²⁰	785 ¹²	1361 ²⁷	807 ^{18T}	43.6	81.1	1.07	28.9	4.4
CG 3220B2RF	546 ¹²	586 ²⁷	604 ³⁵	1458 ¹³	798 ¹⁹	41.9	82.1	1.11	28.6	4.2
PHY485WRF	486 ¹⁸	666 ¹⁰	680 ²²	1350 ³⁰	796 ²⁰	43.7	82.9	1.10	29.9	4.4
STX4498B2RF	539 ¹⁴	621 ¹⁹	687 ^{21T}	1334 ³²	795 ²¹	43.4	81.9	1.08	30.7	4.1
FM1735LLB2	434 ³²	718 ⁶	580 ⁴⁰	1434 ^{18T}	791 ^{22T}	41.3	81.8	1.12	31.4	4.1
DP 393	501 ¹⁶	650 ¹³	602 ³⁶	1411 ²⁰	791 ^{22T}	43.3	82.2	1.11	29.5	4.3
PHY315RF	405 ³⁹	596 ²⁴	860 ⁵	1259 ^{38T}	780 ²³	45.0	80.9	1.08	28.0	4.1
FM9063B2F	402 ⁴⁰	599 ^{22T}	648 ²⁹	1454 ¹⁴	776 ²⁴	42.0	81.4	1.13	30.4	3.9
ST 4554B2RF	423 ³⁶	641 ¹⁶	653 ²⁸	1380 ²⁴	774 ²⁵	42.9	81.7	1.09	29.4	4.2
ST 4664RF	386 ⁴¹	653 ¹²	819 ⁷	1236 ³⁹	773 ²⁶	43.1	81.6	1.07	29.7	4.2
PHY310R	461 ²⁸	591 ²⁸	668 ²⁷	1357 ²⁸	769 ²⁷	44.9	81.1	1.05	29.3	4.5
AM1504B2RF	354 ⁴⁴	507 ³⁸	716 ¹⁶	1482 ¹¹	765 ²⁸	40.6	81.9	1.07	27.2	3.5
PHY425RF	473 ^{23T}	628 ¹⁸	687 ^{21T}	1265 ³⁷	763 ²⁹	43.3	82.3	1.08	29.4	4.5
DP 432 RR	426 ³³	587 ²⁹	620 ³²	1399 ²²	758 ³⁰	43.3	82.2	1.07	29.0	4.2
FM955LLB2	384 ⁴²	638 ¹⁷	435 ⁴⁶	1537 ⁷	749 ³¹	40.2	81.7	1.14	29.3	4.4
ST 4357B2RF	474 ²²	479 ⁴⁴	557 ⁴¹	1468 ¹²	745 ³²	41.8	81.3	1.12	27.4	4.0
DP174RF	421 ³⁷	533 ³³	676 ²⁴	1276 ³⁶	727 ³³	46.2	81.5	1.10	28.1	4.6
DynaGro 2490B2RF	456 ²⁹	448 ⁴⁶	639 ³¹	1356 ²⁹	725 ³⁴	40.0	81.3	1.06	27.3	3.3
PHY480WR	425 ³⁴	522 ³⁵	606 ³⁴	1327 ³³	720 ³⁵	42.7	82.5	1.10	29.5	4.4
CG3020B2RF	473 ^{23T}	480 ⁴³	542 ⁴³	1348 ³¹	711 ³⁶	40.8	81.6	1.06	26.8	3.6

Table 1. (Continued) Yield Summary for Dryland Earlier Maturity Cotton Varieties, 2007

Entry	Lint Yield ^a				4-Loc.	Lint	Unif. Index	Length	Strength	Mic.
	Athens	Midville	Plains	Tifton	Average					
	----- lb/acre -----					%	%	in	g/tex	units
DP161B2RF	481 ²⁰	510 ³⁷	553 ⁴²	1297 ³⁴	710 ³⁷	41.0	81.8	1.15	29.7	4.3
DP141B2RF	409 ³⁸	502 ³⁹	610 ³³	1291 ³⁵	703 ³⁸	42.3	80.6	1.12	29.7	4.2
DP 147 RF	465 ²⁵	649 ¹⁴	595 ³⁷	1079 ⁴³	697 ³⁹	42.8	81.8	1.14	28.9	3.9
CG4020B2RF	424 ³⁵	517 ³⁶	584 ³⁹	1259 ^{38T}	696 ⁴⁰	42.0	80.9	1.10	26.5	3.9
DP 117 B2RF	444 ³⁰	545 ³²	679 ²³	1059 ⁴⁴	682 ⁴¹	43.0	81.7	1.10	31.1	4.3
GA2004232	341 ⁴⁵	562 ³⁰	672 ²⁶	1104 ⁴¹	670 ⁴²	45.2	81.7	1.13	30.7	4.3
DP 143 B2RF	484 ¹⁹	527 ³⁴	532 ⁴⁴	1091 ⁴²	659 ⁴³	41.0	81.2	1.15	28.4	3.9
Average	497	604	691	1389	795	43.1	81.7	1.10	28.9	4.1
LSD 0.10	125	143	202	200	122	1.2	0.8	0.02	1.0	0.3
CV %	21.5	20.2	25.0	12.3	18.4	2.2	0.9	2.40	3.9	5.8

^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 2. Two-Year Summary for Dryland Earlier Maturity Cotton Varieties at Four Locations^a, 2006-2007

Variety	Lint Yield lb/acre	Lint %	Uniformity	Length inches	Strength g/tex	Micronaire units
			Index %			
DP 454 BG/RR	1095	45.9	82.2	1.05	28.4	4.2
DP 445 BG/RR	1062	43.6	82.7	1.10	29.5	4.3
DP 455 BG/RR	1062	44.2	81.3	1.07	30.1	4.2
PHY370WR	1041	43.8	82.4	1.06	29.7	4.5
DP 444 BG/RR	1021	44.1	82.1	1.07	28.6	4.0
PHY485WRF	983	43.4	83.0	1.10	30.3	4.6
ST 5242BR	981	43.6	82.4	1.06	27.9	4.3
PHY310R	979	44.3	81.8	1.05	29.7	4.6
PHY480WR	977	42.1	83.1	1.11	30.1	4.6
PHY425RF	968	43.1	82.7	1.09	29.9	4.7
ST4427B2RF	961	42.3	81.9	1.09	29.7	4.3
DP 121 RF	948	43.9	82.4	1.09	29.8	4.7
DP 434 RR	942	42.9	81.9	1.11	28.1	4.5
FM9063B2F	937	41.8	82.3	1.15	31.0	4.1
DP 432 RR	932	42.3	82.6	1.07	29.0	4.4
DynaGro 2520B2	932	41.4	82.0	1.11	27.4	4.1
CG3520B2RF	928	42.1	82.4	1.10	26.4	4.2
DP 393	925	42.6	82.6	1.09	29.9	4.5
DP 117 B2RF	924	42.7	82.2	1.11	31.4	4.5
DP 143 B2RF	919	40.9	81.6	1.16	28.7	4.1
ST 4554B2RF	913	42.4	82.0	1.09	29.8	4.4
ST 4664RF	897	42.4	82.2	1.08	29.5	4.4
ST 4357B2RF	891	41.4	82.1	1.12	27.6	4.2
DP 147 RF	877	42.4	82.3	1.15	29.5	4.2
CG4020B2RF	855	41.5	81.6	1.10	27.0	4.2
CG3020B2RF	787	40.0	81.9	1.07	27.2	3.9
Average	951	42.7	82.2	1.09	29.1	4.3
LSD 0.10	68	0.4	0.4	0.02	0.8	0.2
CV %	17.3	2.3	0.9	2.40	4.4	5.9

^a Athens, Midville, Plains, and Tifton.

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, 2007, 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 454 BG/RR	2399 ¹	1298 ^{31T}	1840 ²	1947 ¹⁰	1871 ¹	45.5	82.4	1.11	29.6	4.2
ST 4554B2RF	2054 ¹⁵	1496 ³	1700 ³	2058 ³	1827 ²	43.5	83.2	1.16	29.2	4.6
DP 455 BG/RR	2062 ¹⁴	1405 ¹⁷	1658 ⁵	2169 ¹	1824 ³	45.2	82.3	1.14	30.5	4.2
ST 4664RF	1845 ³¹	1430 ¹¹	1845 ¹	1991 ⁶	1778 ⁴	44.1	82.6	1.13	29.9	4.5
STX4678B2RF	2095 ¹²	1421 ^{14T}	1607 ⁷	1926 ¹³	1762 ⁵	41.5	83.7	1.18	29.8	4.6
PHY375WRF	2096 ¹¹	1426 ¹²	1325 ³⁵	2168 ²	1754 ⁶	45.2	83.3	1.17	30.0	4.3
PHY370WR	2270 ²	1491 ⁴	1385 ²⁸	1841 ²²	1747 ⁷	44.5	83.1	1.13	30.4	4.6
STX4596B2RF	2034 ¹⁷	1533 ¹	1660 ⁴	1656 ⁴³	1721 ⁸	41.6	83.6	1.21	30.2	4.6
DynaGro CT07550	2228 ³	1391 ¹⁹	1364 ³⁰	1895 ¹⁶	1720 ⁹	44.0	83.5	1.16	28.9	4.7
ST5327B2RF	1884 ²⁷	1436 ⁹	1600 ⁸	1904 ¹⁵	1706 ¹⁰	44.1	83.4	1.16	30.0	4.4
GA2004303	1968 ²⁰	1368 ²⁴	1523 ¹²	1928 ¹¹	1697 ¹¹	44.0	82.9	1.14	31.2	4.7
DP161B2RF	2011 ¹⁸	1421 ^{14T}	1504 ¹⁵	1840 ²³	1694 ¹²	41.7	84.2	1.23	31.3	4.3
STX4498B2RF	1935 ^{22T}	1481 ⁷	1552 ¹¹	1792 ³²	1690 ¹³	42.3	83.4	1.15	30.6	4.3
PHY315RF	1976 ¹⁹	1358 ²⁵	1561 ¹⁰	1862 ²⁰	1689 ¹⁴	44.6	83.0	1.15	28.8	4.3
ST4427B2RF	1804 ³⁵	1371 ²³	1609 ⁶	1959 ⁸	1686 ¹⁵	42.4	82.9	1.15	30.4	4.0
PHY425RF	2225 ⁴	1390 ²⁰	1389 ²⁶	1714 ³⁹	1679 ¹⁶	42.1	84.1	1.18	30.8	4.8
DP 434 RR	2094 ¹³	1251 ³⁶	1454 ¹⁷	1911 ¹⁴	1677 ¹⁷	43.1	83.2	1.19	28.3	4.4
DP174RF	2135 ⁷	1501 ²	1509 ¹⁴	1541 ⁴⁶	1672 ¹⁸	46.3	83.6	1.18	28.7	4.6
FM1735LLB2	1841 ³²	1453 ⁸	1363 ^{31T}	2010 ⁵	1667 ¹⁹	41.2	83.1	1.15	31.8	4.5
DP 445 BG/RR	1735 ⁴²	1423 ¹³	1386 ²⁷	2042 ⁴	1647 ²⁰	43.6	83.6	1.15	30.4	4.5
PHY485WRF	2127 ⁹	1294 ³²	1398 ²⁵	1759 ³⁷	1645 ²¹	42.5	83.9	1.17	30.6	4.7
PHY310R	1963 ²¹	1488 ⁶	1231 ³⁹	1881 ¹⁷	1641 ²²	45.7	83.3	1.12	30.0	4.6
DP 117 B2RF	2102 ¹⁰	1408 ¹⁶	1402 ^{23T}	1617 ⁴⁴	1632 ²³	42.9	83.1	1.18	31.7	4.3
GA2004232	1847 ³⁰	1385 ²¹	1583 ⁹	1676 ⁴¹	1623 ²⁴	47.0	83.5	1.20	31.1	4.5
DP 444 BG/RR	1935 ^{22T}	1336 ²⁸	1402 ^{23T}	1809 ²⁹	1621 ^{25T}	44.2	83.4	1.15	29.4	4.3
PHY480WR	2215 ⁵	1181 ⁴²	1431 ¹⁹	1658 ⁴²	1621 ^{25T}	41.5	84.1	1.17	30.4	4.6
DP 143 B2RF	2132 ⁸	1304 ³⁰	1263 ³⁸	1776 ³⁵	1619 ²⁶	41.8	82.7	1.23	29.7	4.2
DP 121 RF	2048 ¹⁶	1266 ³⁴	1357 ³²	1795 ³¹	1616 ²⁷	44.0	83.6	1.16	30.1	4.7
DP141B2RF	2145 ⁶	1489 ⁵	1065 ⁴³	1724 ³⁸	1606 ²⁸	41.6	82.9	1.23	30.2	4.3
ST5283RF	1740 ⁴¹	1417 ¹⁵	1402 ^{23T}	1823 ²⁷	1596 ²⁹	44.1	83.3	1.16	31.0	4.4
FM1600LL	1848 ²⁹	1432 ¹⁰	1110 ⁴²	1950 ⁹	1585 ³⁰	41.9	83.5	1.17	32.5	4.5
DynaGro 2520B2RF	1920 ²³	1136 ⁴⁵	1427 ²⁰	1854 ²¹	1584 ³¹	41.9	83.3	1.19	27.7	4.3
AM1532B2RF	1905 ²⁵	1247 ³⁷	1363 ^{31T}	1816 ²⁸	1583 ³²	41.9	83.3	1.18	28.0	4.3
ST 5242BR	1910 ²⁴	1392 ¹⁸	1194 ⁴⁰	1825 ²⁶	1580 ³³	42.9	83.1	1.11	28.3	4.7
CG3520B2RF	1814 ³³	1184 ⁴¹	1462 ^{16T}	1837 ²⁴	1574 ³⁴	42.4	83.3	1.18	27.2	4.2
AM1504B2RF	1680 ⁴³	1287 ³³	1445 ¹⁸	1872 ¹⁸	1571 ³⁵	41.4	83.4	1.13	28.4	4.1
CG3035RF	1806 ³⁴	1199 ⁴⁰	1347 ³³	1927 ¹²	1570 ³⁶	43.2	83.4	1.15	29.5	4.4
ST 4357B2RF	1767 ³⁹	1255 ³⁵	1416 ²²	1834 ²⁵	1568 ³⁷	42.6	83.2	1.19	28.3	4.1
DP 432 RR	1890 ²⁶	1238 ³⁸	1344 ³⁴	1787 ³³	1565 ³⁸	42.6	83.8	1.15	29.8	4.5
DP 147 RF	1775 ³⁷	1309 ²⁹	1375 ²⁹	1782 ³⁴	1560 ³⁹	42.9	83.2	1.23	30.5	4.2

Table 3. (Continued) Yield Summary for Earlier Maturity Cotton Varieties, 2007, Irrigated.

Entry	Lint Yield ^a					Lint %	Unif. %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	4-Loc.					
	----- lb/acre -----									
DynaGro 2490B2RF	1775 ³⁸	1168 ⁴³	1400 ²⁴	1808 ³⁰	1538 ⁴⁰	40.8	82.9	1.13	28.3	3.7
CG4020B2RF	1802 ³⁶	1160 ⁴⁴	1462 ^{16T}	1709 ⁴⁰	1533 ⁴¹	42.2	83.1	1.19	27.7	4.1
DP 393	1750 ⁴⁰	1223 ³⁹	1285 ³⁶	1866 ¹⁹	1531 ⁴²	42.7	84.3	1.19	30.5	4.7
CG 3220B2RF	1867 ²⁸	1298 ^{31T}	1423 ²¹	1498 ⁴⁷	1522 ⁴³	41.9	83.7	1.18	29.1	4.6
FM9063B2F	1654 ⁴⁴	1354 ²⁶	1274 ³⁷	1768 ³⁶	1513 ⁴⁴	41.3	83.2	1.21	31.1	4.2
FM955LLB2	1418 ⁴⁶	1379 ²²	1176 ⁴¹	1974 ⁷	1487 ⁴⁵	39.7	83.5	1.21	30.7	4.6
CG3020B2RF	1440 ⁴⁵	1347 ²⁷	1511 ¹³	1572 ⁴⁵	1467 ⁴⁶	40.4	83.4	1.14	27.9	4.0
Average	1935	1351	1434	1837	1639	42.9	83.3	1.17	29.8	4.4
LSD 0.10	228	157	255	230	173	1.1	0.6	0.02	0.7	0.2
CV %	10.1	9.9	15.2	10.7	11.5	2.2	0.8	1.59	2.8	4.9

^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, 2006-2007, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity	Length inches	Strength g/tex	Micronaire units
			Index %			
DP 454 BG/RR	1840	45.3	83.0	1.12	29.5	4.2
PHY370WR	1696	43.7	83.4	1.12	30.4	4.7
DP 455 BG/RR	1695	44.4	82.3	1.13	30.8	4.3
ST4427B2RF	1671	42.0	83.1	1.14	30.2	4.3
PHY425RF	1635	42.0	84.4	1.17	31.1	4.8
ST 4554B2RF	1635	42.3	83.3	1.14	29.2	4.7
PHY485WRF	1616	42.4	84.1	1.16	30.5	4.8
PHY480WR	1607	41.7	84.3	1.17	30.4	4.7
ST 4664RF	1596	43.1	82.8	1.12	29.5	4.7
PHY310R	1576	44.7	83.4	1.11	30.2	4.7
DP 117 B2RF	1567	42.5	83.6	1.17	32.2	4.4
DP 143 B2RF	1558	41.4	82.8	1.22	28.9	4.2
DP 434 RR	1538	42.4	83.6	1.17	27.7	4.4
DP 444 BG/RR	1535	43.4	83.4	1.13	29.3	4.3
DP 393	1521	42.1	84.2	1.17	30.4	4.7
DynaGro 2520B2RF	1521	41.2	83.4	1.17	27.9	4.4
ST 5242BR	1503	43.1	83.3	1.11	28.0	4.5
DP 147 RF	1501	42.0	83.4	1.22	31.0	4.2
DP 445 BG/RR	1501	43.0	83.7	1.14	29.9	4.6
DP 121 RF	1485	43.6	84.0	1.15	30.0	4.7
CG4020B2RF	1484	41.6	83.5	1.18	27.6	4.3
ST 4357B2RF	1480	41.6	83.5	1.17	28.0	4.3
CG3520B2RF	1475	41.4	83.5	1.16	26.7	4.4
FM9063B2F	1470	40.8	83.7	1.22	31.3	4.2
DP 432 RR	1465	42.7	83.8	1.14	29.7	4.7
CG3020B2RF	1382	39.5	83.4	1.12	27.6	4.2
Average	1560	42.5	83.5	1.16	29.5	4.5
LSD 0.10	79	0.4	0.4	0.01	0.5	0.2
CV %	12.3	2.2	0.8	1.64	3.0	5.3

^a Bainbridge, Midville, Plains, and Tifton.

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, 2007

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton	4-Loc. Average					
	lb/acre									
AM1550B2RF	559 ¹	559 ⁸	659 ^{12T}	1841 ¹	904 ¹	43.9	81.1	1.06	26.4	4.2
DP 445 BG/RR	494 ¹²	612 ^{4T}	695 ⁹	1807 ²	902 ²	44.5	82.3	1.11	29.6	4.1
GA2004371	531 ³	601 ⁵	718 ⁶	1739 ³	897 ³	46.0	82.3	1.08	29.3	4.8
ST 5599BR	549 ²	623 ²	696 ⁸	1676 ⁴	886 ⁴	43.2	80.9	1.06	29.0	4.3
GA2004392	500 ⁷	640 ¹	854 ¹	1434 ¹⁶	857 ⁵	43.1	82.0	1.07	30.9	4.9
DP 455 BG/RR	496 ^{11T}	577 ⁷	637 ¹⁵	1668 ⁵	844 ⁶	45.1	80.5	1.07	28.8	3.9
DP 515 BG/RR	496 ^{11T}	469 ²¹	815 ²	1518 ¹⁰	824 ⁷	44.1	81.0	1.06	28.7	4.4
ST5283RF	499 ⁸	471 ²⁰	795 ³	1473 ¹⁴	810 ⁸	45.2	81.9	1.07	29.7	4.1
ST5327B2RF	506 ⁶	517 ¹⁴	673 ¹¹	1541 ⁸	809 ⁹	44.9	82.2	1.08	29.7	4.2
DP 555 BG/RR	497 ¹⁰	518 ¹³	698 ⁷	1503 ¹¹	804 ¹⁰	44.3	80.4	1.07	28.5	4.4
DP 167 RF	434 ¹⁴	537 ¹¹	658 ¹³	1579 ⁷	802 ¹¹	41.8	81.0	1.11	29.1	4.2
STX06351B2RF	515 ⁴	621 ³	545 ¹⁹	1524 ⁹	801 ¹²	40.5	81.5	1.11	27.9	4.0
DP 493	366 ²¹	519 ¹²	652 ¹⁴	1597 ⁶	783 ¹³	44.9	81.2	1.08	30.7	4.7
DP 454 BG/RR	498 ⁹	612 ^{4T}	693 ¹⁰	1320 ²²	781 ¹⁴	44.6	81.4	1.06	28.1	3.7
STX5458B2RF	496 ^{11T}	504 ¹⁷	659 ^{12T}	1442 ¹⁵	775 ¹⁵	43.1	81.0	1.08	29.0	4.4
GA2004356	418 ¹⁶	594 ⁶	626 ¹⁶	1425 ¹⁷	766 ¹⁶	44.5	82.3	1.11	30.4	4.4
DP 147 RF	412 ¹⁸	540 ¹⁰	720 ⁵	1304 ²⁵	744 ¹⁷	42.5	80.9	1.13	29.4	3.9
DP 164 B2RF	507 ⁵	512 ¹⁵	440 ²³	1502 ¹²	740 ¹⁸	41.6	81.2	1.12	28.5	4.3
DP161B2RF	446 ¹³	543 ⁹	452 ²¹	1484 ¹³	731 ¹⁹	41.8	81.5	1.14	29.9	4.3
DP174RF	358 ²³	511 ¹⁶	570 ¹⁸	1419 ¹⁸	715 ²⁰	45.9	81.3	1.11	27.8	4.3
DP 143 B2RF	417 ¹⁷	493 ¹⁸	600 ¹⁷	1331 ²⁰	710 ²¹	41.3	81.3	1.15	28.3	3.9
PHY745WRF	432 ¹⁵	388 ²⁴	775 ⁴	1142 ²⁶	684 ²²	43.0	81.5	1.08	30.1	3.8
ST 6622RF	406 ¹⁹	479 ¹⁹	527 ²⁰	1318 ²³	683 ²³	41.1	81.9	1.11	30.7	4.2
ST 6611B2RF	345 ²⁴	401 ²³	438 ²⁴	1364 ¹⁹	637 ²⁴	40.1	81.5	1.08	29.7	4.1
FM1880B2F	363 ²²	373 ²⁵	448 ²²	1314 ²⁴	625 ²⁵	41.0	80.8	1.10	30.3	3.8
DP141B2RF	388 ²⁰	451 ²²	305 ²⁵	1328 ²¹	618 ²⁶	42.0	81.0	1.12	29.1	4.2
Average	459	526	629	1484	774	43.2	81.4	1.09	29.2	4.2
LSD 0.10	70	112	275	141	112	1.1	0.7	0.02	1.0	0.2
CV %	12.9	18.1	18.2	8.1	15.9	2.0	1.1	1.98	3.6	5.8

^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 6. Two-Year Summary for Dryland Later Maturity Cotton Varieties at Four Locations^a, 2006-2007

Variety	Lint Yield lb/acre	Lint %	Uniformity		Length inches	Strength g/tex	Micronaire units
			Index %				
DP 555 BG/RR	1029	44.3	81.5		1.09	29.0	4.6
DP 454 BG/RR	1026	45.0	82.0		1.06	28.7	3.9
DP 445 BG/RR	1007	43.8	82.8		1.10	29.4	4.3
DP 515 BG/RR	1004	43.3	81.8		1.09	29.5	4.5
ST 5599BR	978	43.4	81.7		1.08	30.3	4.6
DP 493	971	44.4	81.9		1.10	30.6	4.7
DP 455 BG/RR	959	44.7	81.2		1.07	29.3	4.1
DP 167 RF	940	40.8	82.1		1.12	29.2	4.3
DP 147 RF	902	42.5	81.8		1.14	29.5	4.1
DP 143 B2RF	886	41.2	81.8		1.16	28.4	4.1
DP 164 B2RF	872	41.0	81.9		1.12	29.1	4.4
ST 6622RF	853	40.6	82.1		1.10	31.0	4.3
PHY745WRF	838	42.6	82.5		1.10	30.8	4.1
ST 6611B2RF	799	39.0	81.9		1.08	30.0	4.3
Average	933	42.6	81.9		1.10	29.6	4.3
LSD 0.10	57	0.4	0.5		0.02	0.7	0.2
CV %	14.8	2.0	1.0		2.24	4.1	5.9

^a Athens, Midville, Plains, and Tifton.

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, 2007, Irrigated

Entry	Lint Yield ^a					4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton							
	lb/acre										
DP 555 BG/RR	2250 ¹	1400 ⁵	1625 ²	2026 ⁴	1825 ¹	44.5	82.7	1.16	29.8	4.6	
STX5458B2RF	2080 ³	1532 ¹	1531 ⁵	1955 ⁵	1775 ²	43.3	83.1	1.18	31.2	4.7	
DP 515 BG/RR	2074 ⁴	1277 ¹⁴	1710 ¹	1920 ⁶	1745 ³	43.6	83.0	1.15	30.1	4.6	
ST 5599BR	2098 ²	1529 ²	1414 ⁸	1821 ¹⁰	1715 ⁴	42.9	82.3	1.13	30.9	4.8	
DP 445 BG/RR	1765 ¹⁶	1342 ¹⁰	1622 ³	2063 ³	1698 ⁵	43.7	84.0	1.17	30.3	4.5	
GA2004371	2044 ⁵	1480 ³	1371 ¹⁰	1825 ⁹	1680 ⁶	45.6	83.6	1.15	30.6	4.8	
DP 454 BG/RR	2038 ⁶	1165 ²⁴	1386 ⁹	2093 ¹	1670 ⁷	46.9	82.8	1.13	29.8	4.0	
GA2004392	1914 ⁹	1391 ⁶	1543 ⁴	1752 ¹⁵	1650 ⁸	41.5	84.6	1.18	31.5	5.0	
DP 455 BG/RR	1839 ¹²	1308 ¹³	1278 ¹³	2083 ²	1627 ⁹	45.4	82.2	1.15	31.5	4.1	
DP174RF	1903 ¹⁰	1377 ⁷	1446 ⁷	1778 ¹³	1626 ¹⁰	46.3	83.5	1.19	28.5	4.6	
DP161B2RF	1951 ⁷	1268 ¹⁶	1351 ¹¹	1910 ⁷	1620 ¹¹	41.3	84.2	1.23	31.1	4.4	
GA2004356	1880 ¹¹	1347 ⁹	1180 ¹⁷	1764 ¹⁴	1543 ¹²	44.2	84.0	1.18	31.8	4.8	
ST 6611B2RF	1920 ⁸	1273 ¹⁵	1048 ²³	1881 ⁸	1530 ¹³	40.1	82.7	1.14	31.4	4.5	
AM1550B2RF	1620 ²¹	1111 ²⁵	1514 ⁶	1806 ¹²	1513 ¹⁴	42.4	82.7	1.15	28.0	4.3	
ST5327B2RF	1745 ¹⁸	1211 ²⁰	1327 ¹²	1687 ¹⁸	1492 ¹⁵	43.8	83.1	1.14	30.6	4.4	
DP 143 B2RF	1796 ¹⁴	1251 ¹⁷	1232 ¹⁴	1679 ¹⁹	1490 ¹⁶	41.1	82.4	1.23	28.7	4.0	
DP 164 B2RF	1790 ¹⁵	1223 ¹⁹	1053 ²²	1814 ¹¹	1470 ¹⁷	40.8	82.8	1.20	30.0	4.3	
DP 147 RF	1688 ¹⁹	1355 ⁸	1218 ¹⁵	1568 ²⁵	1457 ¹⁸	42.3	83.4	1.23	30.5	4.2	
DP 493	1761 ¹⁷	1322 ¹¹	1022 ²⁴	1650 ²¹	1439 ¹⁹	45.0	82.8	1.16	31.2	4.8	
DP 167 RF	1553 ²⁴	1407 ⁴	1195 ¹⁶	1581 ²⁴	1434 ²⁰	41.3	83.2	1.20	29.9	4.4	
DP141B2RF	1834 ¹³	1176 ²³	962 ²⁵	1720 ¹⁶	1423 ^{21T}	40.9	83.6	1.24	30.4	4.1	
STX06351B2RF	1663 ²⁰	1318 ¹²	1082 ²¹	1628 ²²	1423 ^{21T}	40.7	83.2	1.19	29.7	4.4	
ST5283RF	1612 ²²	1240 ¹⁸	1116 ²⁰	1709 ¹⁷	1419 ²²	43.3	83.5	1.16	30.4	4.4	
ST 6622RF	1600 ²³	1198 ²¹	1163 ¹⁸	1601 ²³	1391 ²³	42.1	83.5	1.17	31.6	4.5	
FM1880B2F	1459 ²⁵	1188 ²²	1138 ¹⁹	1651 ²⁰	1359 ²⁴	41.0	82.9	1.19	30.3	3.9	
PHY745WRF	1096 ²⁶	1010 ²⁶	951 ²⁶	1352 ²⁶	1102 ²⁵	42.7	83.8	1.19	31.0	4.1	
Average	1807	1296	1288	1781	1543	42.9	83.2	1.18	30.4	4.4	
LSD 0.10	192	168	275	213	154	1.3	0.7	0.02	0.7	0.2	
CV %	9.0	11.0	18.2	10.1	11.9	2.7	0.9	2.01	2.8	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 8. Two-Year Summary for Later Maturity Cotton Varieties at Four Locations^a, 2006-2007, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Length inches	Strength g/tex	Micronaire units
			Index %				
DP 555 BG/RR	1965	44.0	82.9		1.16	29.8	4.6
DP 515 BG/RR	1831	43.1	83.0		1.15	30.1	4.6
DP 454 BG/RR	1776	45.7	83.1		1.12	29.3	4.1
ST 5599BR	1683	43.0	82.7		1.14	30.8	4.8
DP 493	1674	45.4	83.2		1.16	30.6	4.7
DP 455 BG/RR	1638	44.6	82.3		1.14	30.8	4.2
DP 143 B2RF	1584	40.8	82.6		1.23	28.4	4.1
ST 6611B2RF	1557	39.2	82.8		1.14	31.2	4.6
DP 445 BG/RR	1538	42.6	83.7		1.15	29.4	4.6
DP 164 B2RF	1533	40.4	83.2		1.19	29.5	4.5
DP 147 RF	1493	42.2	83.4		1.22	30.0	4.2
DP 167 RF	1452	40.4	83.6		1.18	30.0	4.4
ST 6622RF	1422	41.2	83.7		1.15	30.9	4.5
PHY745WRF	1247	42.2	83.8		1.18	30.9	4.2
Average	1600	42.5	83.1		1.16	30.1	4.4
LSD 0.10	80	0.5	0.4		0.01	0.5	0.2
CV %	12.2	2.7	0.9		2.02	3.1	5.6

^a Bainbridge, Midville, Plains, and Tifton.

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

Table 9. Yield Summary for Cotton Strains, 2007, Irrigated

Table 6. Field Summary for Cotton Strains, 2007, irrigated									
Variety	Lint Yield ^a				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
----- lb/acre -----									
<u>Earlier Maturity</u>									
FMX4366B2F	1498 ⁴	1165 ⁴	1977 ³	1547 ³	44.5	84.0	1.18	31.3	4.2
GA2004143	1571 ²	1210 ³	1857 ⁶	1546 ⁴	48.8	83.8	1.19	31.4	4.7
GA2004230	1459 ⁹	1216 ²	1896 ⁵	1523 ⁵	43.9	84.4	1.25	31.1	4.7
FMX4327B2F	1388 ⁸	978 ⁸	1914 ⁴	1427 ⁶	44.3	82.7	1.18	32.3	4.4
GA2004089	1436 ⁷	951 ⁹	1755 ⁷	1380 ⁷	46.3	84.7	1.23	30.7	4.6
FMX4330B2F	1543 ³	984 ⁷	1477 ⁹	1335 ⁸	46.1	83.7	1.17	33.4	4.3
<i>Average</i>	<i>1482</i>	<i>1084</i>	<i>1813</i>	<i>1460</i>	<i>45.5</i>	<i>83.9</i>	<i>1.20</i>	<i>31.7</i>	<i>4.5</i>
<u>Later Maturity</u>									
GA2004137	1637 ¹	1245 ¹	2007 ²	1630 ¹	46.8	83.5	1.18	31.1	4.8
GA2004358	1470 ⁵	1117 ⁵	2188 ¹	1592 ²	46.0	83.0	1.16	30.5	4.8
GA2004236	1191 ⁹	1077 ⁶	1504 ⁸	1258 ⁹	46.0	83.0	1.17	29.0	4.7
<i>Average</i>	<i>1433</i>	<i>1146</i>	<i>1900</i>	<i>1493</i>	<i>46.3</i>	<i>83.2</i>	<i>1.17</i>	<i>30.2</i>	<i>4.8</i>
<i>Overall summary averages and statistics:</i>									
Average	1466	1105	1842	1471	45.8	83.6	1.19	31.2	4.6
LSD 0.10	N.S. ^b	177	224	187	1.4	0.8	0.02	1.1	0.2
CV %	13.7	13.2	10.0	12.1	1.6	1.1	1.93	2.3	4.0

^a Superscripts indicate ranking at that location.

^b The F-test indicated no statistical differences at the alpha = .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 10. Later Maturity Cotton Variety Performance including Micro-Gin^a Quality Data, 2007, Irrigated, Tifton, Georgia

Variety	Lint Yield	MG ^a Lint Yield	Lint	MG ^a Lint	Unif. Index ^b	MG ^a Unif.	Length ^b	MG ^a Length	Strength ^b	MG ^a Strength	Mic. ^b	MG ^a Mic.
	lb/acre	lb/acre	%	%	%	%	inches	inches	g/tex	g/tex	units	units
AM1550B2RF	1806	1609	46.3	41.9	81.2	80.7	1.10	1.07	26.6	22.7	4.5	4.7
DP 143 B2RF	1679	1429	44.0	38.2	81.7	79.5	1.21	1.16	27.6	25.2	4.0	4.1
DP 147 RF	1568	1336	45.8	40.0	83.0	80.0	1.20	1.15	28.7	25.9	4.0	4.1
DP 164 B2RF	1814	1627	42.9	39.2	82.4	81.0	1.19	1.15	28.7	27.3	4.2	4.7
DP 167 RF	1581	1410	43.3	39.4	82.5	81.1	1.16	1.15	29.8	27.2	4.2	4.5
DP 445 BG/RR	2063	1748	46.3	40.3	84.6	81.4	1.17	1.12	29.3	26.0	4.2	4.5
DP 454 BG/RR	2093	1522	55.2	41.0	82.6	80.6	1.12	1.05	29.4	26.4	3.9	4.0
DP 455 BG/RR	2083	1721	49.5	42.1	81.7	80.1	1.13	1.10	29.3	28.7	4.0	4.1
DP 493	1650	1453	47.7	42.3	82.1	80.4	1.13	1.05	30.6	28.3	4.7	4.8
DP 515 BG/RR	1920	1664	46.1	40.6	82.8	80.5	1.13	1.10	29.1	26.7	4.3	4.5
DP 555 BG/RR	2026	1806	46.8	42.1	82.1	80.2	1.14	1.15	28.5	27.3	4.5	4.5
DP141B2RF	1720	1450	44.5	38.1	82.8	79.9	1.19	1.18	28.9	27.3	4.2	4.3
DP161B2RF	1910	1442	42.9	38.5	84.6	81.7	1.22	1.12	30.1	29.0	4.1	4.5
DP174RF	1778	1550	48.3	42.7	83.5	80.5	1.17	1.14	26.8	23.4	4.4	4.5
FM1880B2F	1651	1438	43.5	38.4	82.2	80.0	1.19	1.10	29.0	28.4	3.7	3.9
GA2004356	1764	1572	46.6	42.0	83.5	81.2	1.16	1.08	31.3	29.0	4.5	4.6
GA2004371	1825	1634	48.1	43.6	83.2	81.0	1.11	1.10	29.7	26.6	5.0	5.0
GA2004392	1752	1531	43.6	38.8	83.8	82.0	1.18	1.11	31.6	28.6	4.6	5.0
PHY745WRF	1352	1136	45.2	38.2	83.1	81.3	1.14	1.08	29.5	29.5	3.9	4.2
ST 5599BR	1821	1654	44.3	41.0	81.8	80.1	1.12	1.10	29.4	27.5	4.6	4.7
ST 6611B2RF	1881	1574	44.0	37.8	81.8	80.7	1.12	1.12	30.3	28.0	4.5	4.6
ST 6622RF	1601	1361	44.8	39.4	83.1	81.3	1.15	1.12	29.9	29.6	4.4	4.5
ST5283RF	1709	1449	46.3	40.4	83.8	81.1	1.16	1.10	29.1	27.9	4.1	4.4
ST5327B2RF	1687	1427	46.6	40.5	84.1	81.5	1.14	1.09	29.6	28.4	4.3	4.6
STX06351B2RF	1628	1411	42.4	37.8	83.7	80.8	1.19	1.12	28.2	26.6	3.9	4.3
STX5458B2RF	1955	1735	44.7	40.2	82.7	80.2	1.16	1.09	30.7	27.7	4.4	5.0
Average	1781	1526	45.8	40.2	82.8	80.7	1.15	1.11	29.3	27.3	4.3	4.5
LSD 0.10	213	168	2.2	0.9	1.3	0.5	0.04	0.02	2.0	1.3	0.3	0.2
CV %	10.1	9.3	4.1	2.0	0.9	0.5	1.91	1.44	4.1	3.9	4.7	3.3

a. Micro-Gin quality samples are from total seed cotton harvested from each plot.

b. A random quality sample was taken on the picker during cotton harvest.

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

Planted: April 23, 2007.

Harvested: September 19, 2006.

Soil Type: Tifton sandy loam.

Fertilization: 78 lb N, 54 lb P₂O₅, and 168 lb K₂O/acre.

Management: Temik 15G applied 5 lb/acre and Telone II applied 3 gal/acre.

May June July Aug. Sept.

Irrigation (in): 2.25 1.80 2.10 2.00 0.0

Trials conducted by Larry Thompson.