

COTTON

Bainbridge, Georgia:

Earlier Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Length inches	Strength g/tex	Micronaire units	Storm
			Index %					Damage ¹ %
DP 393	1689	43.4	85.9		1.20	33.5	4.9	23
ST 4892BR	1675	42.8	85.1		1.17	30.6	5.1	16
GA2002212	1656	44.0	85.5		1.23	34.1	5.1	26
DP432RR	1656	41.8	84.6		1.16	32.0	4.7	15
SG215BG/RR	1640	41.9	84.7		1.11	29.2	4.9	15
GA2002211	1633	42.8	84.7		1.18	34.5	5.0	20
DP434RR	1606	42.7	85.4		1.23	28.9	4.6	18
OAX303	1599	44.4	85.0		1.16	30.1	5.1	26
PHY410RR	1574	40.1	85.8		1.20	30.8	4.7	23
GA2002167	1544	44.5	84.9		1.20	34.2	5.0	20
DP 445 BG/RR	1538	41.8	85.0		1.18	31.5	4.7	16
FM960BR	1536	40.3	84.7		1.18	39.7	4.8	14
GA200035	1523	43.3	84.4		1.17	35.2	5.1	20
FM958LL	1522	42.5	84.3		1.16	35.4	5.1	10
FM960R	1508	41.0	85.4		1.19	34.8	4.5	10
ST 5242BR	1501	42.1	84.5		1.15	29.8	4.6	29
FM966LL	1500	40.2	84.4		1.16	37.6	4.6	10
DP449BG/RR	1493	40.6	84.8		1.17	34.0	5.0	19
GA200036	1492	44.1	85.2		1.17	36.2	5.2	23
DP444BG/RR	1464	41.8	85.9		1.20	30.4	4.4	29
DP424BII/R	1453	38.2	85.2		1.16	30.4	4.8	16
DP451B/RR	1446	38.0	84.8		1.19	30.0	4.8	30
ST 4646B2R	1442	41.2	84.0		1.18	30.6	4.9	16
DELTAPEARL	1435	41.7	85.2		1.21	32.9	4.6	19
DP 455 BG/RR	1427	41.9	84.2		1.23	33.6	4.1	19
ST 4686R	1418	41.8	85.0		1.20	29.3	4.6	26
ST 3636B2R	1406	41.7	84.9		1.18	29.4	4.7	21
ST 4575BR	1405	41.1	85.2		1.16	32.3	5.1	30
BCG28R	1372	41.9	84.5		1.16	31.7	5.1	20
BCG295	1303	39.5	84.9		1.19	33.7	4.7	10
DP436RR	1303	37.5	85.2		1.19	28.3	4.7	16
FM960B2R	1286	39.4	86.2		1.24	34.3	4.7	19
Average	1501	41.5	85.0		1.18	32.4	4.8	19
LSD 0.10	114	0.7	N.S. ²		0.03	2.5	0.3	5
CV %	6.5	1.4	0.8		1.57	4.5	3.9	22

1. Percentage of cotton lost to wind and rain.

2. 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).

Planted: May 7, 2004.

Harvested: October 1, 2004.

Soil Type: Bonnaeu Blanton loamy sand.

Fertilization: 177 lb N, 84 lb P₂O₅, and 174 lb K₂O/acre.

Management: Temik 15G applied 3 lb/acre.

	May	June	July	Aug.	Sept.
Rainfall (in):	1.45	6.80	2.90	2.25	8.15
Irrigation (in):	2.90	0.0	2.40	2.40	0.0

Trials conducted by Larry Thompson and Don Day.

Midville, Georgia: Earlier Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
FM960BR	1940	41.7	85.6	1.17	35.5	4.2	1
DP 455 BG/RR	1895	44.0	85.2	1.18	33.8	4.6	2
ST 4892BR	1817	42.7	85.6	1.16	30.5	4.9	1
DELTAPEARL	1773	42.5	87.0	1.24	32.8	4.9	2
FM966LL	1749	40.0	86.5	1.18	40.6	4.6	0
GA2002167	1744	44.4	85.4	1.17	34.5	4.8	2
DP432RR	1739	42.1	85.8	1.17	31.6	5.1	1
GA200035	1706	43.1	86.6	1.20	35.5	4.9	1
GA2002212	1694	44.4	85.9	1.19	36.1	5.0	2
OAX303	1694	44.3	86.1	1.17	29.4	5.0	1
ST 3636B2R	1687	42.3	85.1	1.17	29.5	5.0	3
ST 4646B2R	1684	41.7	85.0	1.15	30.9	4.5	2
GA2002211	1670	43.0	86.4	1.22	35.3	4.7	2
FM960B2R	1662	40.2	85.6	1.22	36.5	4.4	1
ST 4575BR	1659	42.8	85.7	1.16	31.1	4.8	3
FM958LL	1654	40.9	85.9	1.18	35.8	4.7	2
DP393	1627	41.7	86.8	1.21	32.7	4.6	3
FM960R	1623	40.6	86.2	1.20	35.4	4.1	1
DP444BG/RR	1585	43.5	85.6	1.16	31.5	4.7	2
PHY410RR	1580	40.1	85.7	1.16	32.8	4.6	2
DP449BG/RR	1573	41.3	84.8	1.16	31.2	4.4	2
DP434RR	1573	43.7	86.7	1.22	27.4	4.6	3
DP 445 BG/RR	1569	42.7	85.7	1.18	31.8	4.6	3
ST 4686R	1567	41.3	85.7	1.19	31.4	4.6	3
DP436RR	1555	38.8	86.2	1.18	28.9	5.0	2
BCG28R	1490	41.2	86.2	1.20	31.7	5.1	2
DP451B/RR	1479	38.0	86.6	1.19	29.3	4.8	4
DP424BII/R	1474	39.5	86.8	1.19	27.9	4.6	3
ST 5242BR	1437	42.3	84.7	1.13	30.1	4.8	3
SG215BG/RR	1436	41.6	85.0	1.12	28.5	5.1	0
GA200036	1423	43.3	85.3	1.19	34.4	5.1	1
BCG295	1138	38.3	86.6	1.23	34.3	4.7	1
Average	1622	41.8	85.8	1.18	32.4	4.7	2
LSD 0.10	226	1.2	1.1	0.02	2.4	N.S. ²	1
CV %	11.9	2.4	0.7	1.17	4.4	6.7	57

1. Percentage of cotton lost to wind and rain.

2. 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).

Planted: May 11, 2004.

Harvested: October 6, 2004.

Soil Type: Tifton loamy sand.

Fertilization: 95 lb N, 50 lb P₂O₅, and 75 lb K₂O/acre.

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

	May	June	July	Aug.	Sept.
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Rainfall (in):	2.34	7.33	2.68	8.11	9.05
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Irrigation (in):	1.00	2.00	4.00	3.00	0.0
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Trials conducted by Larry Thompson, T. Robinson, Rick Jackson, and Don Day.

Plains, Georgia: Earlier Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
DP 455 BG/RR	1525	45.3	84.5	1.16	34.2	4.2	16
DELTAPEARL	1506	40.7	86.1	1.21	33.7	4.7	9
OAX303	1487	44.8	84.5	1.11	28.7	5.1	9
DP432RR	1486	40.9	84.9	1.16	31.5	4.9	9
GA200035	1484	41.7	84.6	1.15	32.3	4.5	7
FM960R	1466	42.2	85.2	1.15	34.7	4.5	3
FM960B2R	1458	40.1	84.4	1.16	33.2	4.8	6
GA2002211	1456	42.4	85.2	1.16	34.5	5.0	8
ST 4892BR	1446	42.3	85.0	1.12	28.0	4.9	13
DP 445 BG/RR	1442	40.7	85.2	1.16	28.8	4.4	14
FM960BR	1412	40.9	84.4	1.12	35.6	4.5	5
DP449BG/RR	1407	40.3	85.1	1.15	32.2	4.4	5
ST 4646B2R	1388	40.3	84.6	1.15	29.5	4.3	8
GA2002212	1384	43.5	85.1	1.17	32.5	4.9	6
DP434RR	1372	40.4	85.5	1.19	26.1	4.2	6
ST 3636B2R	1362	41.2	84.5	1.13	29.6	4.9	9
ST 4686R	1362	41.8	84.4	1.17	29.2	4.4	24
PHY410RR	1350	40.0	85.8	1.15	33.2	4.7	14
DP451B/RR	1349	37.7	84.8	1.17	29.3	4.5	13
SG215BG/RR	1340	40.2	84.2	1.10	27.1	4.9	6
BCG28R	1334	40.9	85.7	1.18	31.9	4.6	10
ST 5242BR	1321	41.5	85.1	1.12	27.2	4.6	28
GA200036	1283	44.3	85.0	1.15	34.1	5.0	6
DP393	1276	40.4	86.3	1.20	31.8	4.5	11
FM958LL	1265	39.4	85.3	1.18	32.5	4.4	5
ST 4575BR	1252	41.2	84.7	1.15	32.6	4.4	21
DP424BII/R	1246	37.7	84.9	1.15	27.7	4.5	5
DP436RR	1236	35.3	83.9	1.16	27.2	4.3	10
FM966LL	1231	39.0	84.7	1.17	36.6	4.2	4
GA2002167	1224	42.4	84.8	1.17	30.9	4.4	8
BCG295	1188	38.6	86.0	1.21	30.8	4.3	5
DP444BG/RR	1089	43.1	84.9	1.16	29.4	4.4	26
Average	1357	40.9	85.0	1.16	31.1	4.6	10
LSD 0.10	184	1.2	N.S. ²	0.03	3.0	0.5	4
CV %	11.5	2.6	0.8	1.43	5.7	5.9	35

1. Percentage of cotton lost to wind and rain.
2. 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).

Planted: May 5, 2004.

Harvested: October 13, 2004.

Soil Type: Greenville sandy loam.

Fertilization: 90 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre.

Management: Temik 15G applied 3 lb/acre.

	May	June	July	Aug.	Sept.
Rainfall (in):	2.63	9.40	5.73	5.50	14.00
Irrigation (in):	1.90	0.0	0.70	1.50	0.0

Trials conducted by Larry Thompson, Ronnie Pines, and Don Day.

Tifton, Georgia: Earlier Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
SG215BG/RR	1688	42.6	84.2	1.10	27.7	5.1	11
OAX303	1590	46.0	84.4	1.13	30.6	4.9	23
DP 455 BG/RR	1568	44.4	83.5	1.15	32.6	4.3	10
GA2002211	1515	43.4	83.7	1.17	34.7	4.7	13
FM960BR	1514	41.2	84.0	1.13	37.2	4.6	9
ST 4892BR	1512	43.4	84.9	1.12	31.4	5.0	10
DP434RR	1481	43.0	84.9	1.18	29.1	4.5	11
ST 4686R	1475	42.3	84.3	1.16	28.2	4.6	21
DP 393	1472	38.7	85.0	1.19	32.8	4.7	13
DP449BG/RR	1420	40.6	84.1	1.13	32.1	4.8	10
GA200036	1414	44.0	84.5	1.15	35.1	4.9	14
GA2002167	1405	45.1	84.3	1.16	34.1	4.7	20
GA2002212	1402	43.9	85.3	1.18	35.3	4.9	15
FM958LL	1394	41.1	84.6	1.17	35.9	4.7	9
DP432RR	1386	41.4	84.9	1.13	30.2	4.8	10
DELTAPEARL	1359	41.7	85.5	1.19	33.4	4.6	14
FM960R	1350	40.8	85.0	1.18	34.2	4.1	8
ST 3636B2R	1348	41.7	83.6	1.15	29.9	4.9	16
DP424BII/R	1343	38.0	85.1	1.16	27.6	4.7	10
FM960B2R	1343	41.5	84.2	1.20	34.7	4.9	11
PHY410RR	1319	38.4	84.8	1.14	32.1	4.6	19
BCG295	1297	38.8	86.0	1.20	30.3	4.6	8
DP 445 BG/RR	1293	41.3	84.2	1.15	30.5	4.6	10
BCG28R	1270	42.8	84.3	1.14	30.6	5.0	16
GA200035	1246	42.3	84.6	1.16	33.6	4.8	14
FM966LL	1246	38.3	84.3	1.19	37.5	4.2	6
ST 5242BR	1239	42.5	84.4	1.13	28.4	4.6	24
DP444BG/RR	1232	42.2	84.4	1.14	30.0	4.2	23
ST 4575BR	1227	40.9	84.4	1.13	30.6	4.8	20
DP436RR	1222	35.4	84.7	1.17	27.6	4.5	24
DP451B/RR	1170	38.7	85.4	1.17	30.1	4.6	16
ST 4646B2R	1156	40.1	83.4	1.11	30.4	4.6	11
Average	1372	41.4	84.5	1.15	31.8	4.7	14
LSD 0.10	225	1.2	1.0	0.03	2.6	0.3	5
CV %	14.0	2.5	0.7	1.52	4.8	3.4	29

1. Percentage of cotton lost to wind and rain.

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

Planted: April 28, 2004.

Harvested: September 20, 2004.

Soil Type: Tifton loamy sand.

Fertilization: 98 lb N, 54 lb P₂O₅, and 188 lb K₂O/acre.

Management: Temik 15G applied 4 lb/acre and Telone II applied 3 gal/acre.

	May	June	July	Aug.	Sept.
Rainfall (in):	2.21	6.16	3.09	3.98	14.43
Irrigation (in):	0.75	0.0	2.25	1.50	0.0

Trials conducted by Larry Thompson and Don Day.

Yield Summary for Earlier Maturity Cotton Varieties, 2004, Irrigated

Entry	Lint Yield ^a					Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	4-Loc. Average					
ST 4892BR	1675 ²	1817 ³	1446 ⁹	1512 ⁶	1613 ¹	42.8	85.1	1.14	30.1	5.0
DP 455 BG/RR	1427 ²⁴	1895 ²	1525 ¹	1568 ³	1604 ²	43.9	84.4	1.18	33.5	4.3
FM960BR	1536 ¹¹	1940 ¹	1412 ¹¹	1514 ⁵	1601 ³	41.0	84.7	1.15	37.0	4.5
OAX303	1599 ⁷	1694 ^{9T}	1487 ³	1590 ²	1593 ⁴	44.9	85.0	1.14	29.7	5.0
GA2002211	1633 ⁵	1670 ¹²	1456 ⁸	1515 ⁴	1568 ⁵	42.9	85.0	1.18	34.7	4.8
DP432RR	1656 ^{3T}	1739 ⁷	1486 ⁴	1386 ¹⁵	1567 ⁶	41.5	85.0	1.15	31.3	4.9
GA2002212	1656 ^{3T}	1694 ^{9T}	1384 ¹⁴	1402 ¹³	1534 ⁷	43.9	85.4	1.19	34.5	5.0
SG215BG/RR	1640 ⁴	1436 ²⁸	1340 ¹⁹	1688 ¹	1526 ⁸	41.6	84.5	1.11	28.1	5.0
DELTAPEARL	1435 ²³	1773 ⁴	1506 ²	1359 ¹⁶	1518 ⁹	41.6	85.9	1.21	33.2	4.7
DP 393	1689 ¹	1627 ¹⁶	1276 ²³	1472 ⁹	1516 ¹⁰	41.0	86.0	1.20	32.7	4.7
DP434RR	1606 ⁶	1573 ^{20T}	1372 ¹⁵	1481 ⁷	1508 ¹¹	42.4	85.6	1.20	27.9	4.4
GA200035	1523 ¹²	1706 ⁸	1484 ⁵	1246 ^{24T}	1490 ¹²	42.6	85.0	1.17	34.1	4.8
FM960R	1508 ¹⁴	1623 ¹⁷	1466 ⁶	1350 ¹⁷	1487 ¹³	41.1	85.4	1.18	34.7	4.3
GA2002167	1544 ⁹	1744 ⁶	1224 ²⁹	1405 ¹²	1479 ¹⁴	44.1	84.8	1.17	33.4	4.7
DP449BG/RR	1493 ¹⁷	1573 ^{20T}	1407 ¹²	1420 ¹⁰	1473 ¹⁵	40.7	84.7	1.15	32.4	4.6
DP 445 BG/RR	1538 ¹⁰	1569 ²¹	1442 ¹⁰	1293 ²²	1460 ¹⁶	41.6	85.0	1.17	30.6	4.6
FM958LL	1522 ¹³	1654 ¹⁵	1265 ²⁴	1394 ¹⁴	1458 ¹⁷	40.9	85.0	1.17	34.9	4.7
PHY410RR	1574 ⁸	1580 ¹⁹	1350 ¹⁷	1319 ²⁰	1456 ¹⁸	39.6	85.5	1.16	32.2	4.6
ST 4686R	1418 ²⁵	1567 ²²	1362 ^{16T}	1475 ⁸	1455 ¹⁹	41.8	84.8	1.18	29.5	4.5
ST 3636B2R	1406 ²⁶	1687 ¹⁰	1362 ^{16T}	1348 ¹⁸	1451 ²⁰	41.7	84.5	1.15	29.6	4.9
FM960B2R	1286 ³¹	1662 ¹³	1458 ⁷	1343 ^{19T}	1437 ²¹	40.3	85.1	1.20	34.7	4.7
FM966LL	1500 ¹⁶	1749 ⁵	1231 ²⁸	1246 ^{24T}	1432 ²²	39.4	85.0	1.17	38.1	4.4
ST 4646B2R	1442 ²²	1684 ¹¹	1388 ¹³	1156 ³⁰	1417 ²³	40.8	84.2	1.14	30.3	4.6
GA200036	1492 ¹⁸	1423 ²⁹	1283 ²²	1414 ¹¹	1403 ²⁴	43.9	85.0	1.16	34.9	5.0
ST 4575BR	1405 ²⁷	1659 ¹⁴	1252 ²⁵	1227 ²⁷	1386 ²⁵	41.5	85.0	1.15	31.6	4.8
DP424BII/R	1453 ²⁰	1474 ²⁶	1246 ²⁶	1343 ^{19T}	1379 ²⁶	38.3	85.5	1.16	28.4	4.6
ST 5242BR	1501 ¹⁵	1437 ²⁷	1321 ²¹	1239 ²⁵	1375 ²⁷	42.1	84.6	1.13	28.9	4.6
BCG28R	1372 ²⁸	1490 ²⁴	1334 ²⁰	1270 ²³	1366 ²⁸	41.7	85.2	1.17	31.5	4.9
DP451B/RR	1446 ²¹	1479 ²⁵	1349 ¹⁸	1170 ²⁹	1361 ²⁹	38.1	85.4	1.18	29.6	4.7
DP444BG/RR	1464 ¹⁹	1585 ¹⁸	1089 ³¹	1232 ²⁶	1342 ³⁰	42.6	85.2	1.16	30.3	4.4
DP436RR	1303 ³⁰	1555 ²³	1236 ²⁷	1222 ²⁸	1329 ³¹	36.7	85.0	1.17	28.0	4.6
BCG295	1303 ²⁹	1138 ³⁰	1188 ³⁰	1297 ²¹	1232 ³²	38.8	85.8	1.21	32.3	4.6
Average	1501	1622	1357	1372	1463	41.4	85.1	1.17	32.0	4.7
LSD 0.10	114	226	184	225	119	1.0	0.5	0.02	1.2	0.2
CV %	6.5	11.9	11.5	14.0	11.2	2.3	0.8	1.43	4.9	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).

Two-Year Summary for Earlier Maturity Cotton Varieties at Four Locations^a, 2003-2004, Irrigated

Variety	Lint Yield ^b lb/acre	Lint %	Uniformity	Length inches	Strength g/tex	Micronaire units
			Index %			
FM960BR	1452 ¹	40.7	84.2	1.13	35.2	4.4
OAX303	1436 ²	44.5	84.6	1.14	28.6	4.9
ST 4892BR	1400 ³	42.2	84.5	1.13	29.8	4.7
GA200035	1368 ⁴	42.8	84.6	1.16	33.2	4.7
GA200036	1332 ⁵	43.3	84.8	1.16	34.1	4.8
FM958LL	1317 ⁶	40.9	84.8	1.16	34.2	4.7
DELTAPEARL	1311 ⁷	40.7	85.1	1.20	32.0	4.6
DP449BG/RR	1279 ⁸	40.1	84.3	1.15	32.0	4.5
DP444BG/RR	1271 ⁹	42.8	84.9	1.16	29.5	4.2
DP451B/RR	1267 ¹⁰	37.6	84.9	1.17	28.5	4.5
PHY410RR	1242 ¹¹	39.8	84.9	1.15	31.1	4.6
FM966LL	1229 ¹²	39.8	84.5	1.16	36.3	4.4
DP436RR	1179 ¹³	36.6	84.7	1.16	27.8	4.5
Average	1314	40.9	84.7	1.16	31.7	4.6
LSD 0.10	59	0.3	0.3	0.01	0.7	0.1
CV %	10.8	1.9	0.7	1.24	4.4	4.2

^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).