

Bainbridge, Georgia: Later Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
DP488BG/RR	2046	42.1	86.4	1.23	32.7	4.9	14
DP491	1897	43.4	86.3	1.23	34.4	4.8	13
GA2001078	1884	42.9	85.4	1.17	32.0	5.0	18
DP494RR	1881	41.6	85.5	1.19	34.0	5.0	16
DP 445 BG/RR	1871	42.7	85.7	1.19	33.3	4.9	15
GA2003137	1869	44.1	85.5	1.18	34.6	5.1	20
DP555BG/RR	1867	45.4	83.8	1.15	32.2	4.6	20
DP493	1859	45.6	85.2	1.17	32.7	5.2	19
GA2002233	1838	43.9	85.6	1.16	33.6	5.1	20
OAX303	1833	45.1	84.8	1.14	33.7	5.4	21
ST 5303R	1816	41.8	85.2	1.13	36.0	5.2	18
BCG24R	1791	41.3	85.0	1.15	33.6	5.2	15
GA2002217	1781	43.5	85.8	1.19	34.7	5.0	21
DP5415RR	1749	42.0	85.7	1.17	30.8	4.9	19
DP 455 BG/RR	1728	43.9	85.1	1.19	32.1	4.5	19
DP449BG/RR	1725	41.6	86.0	1.17	35.4	4.9	19
GA2003165	1708	39.7	87.2	1.23	39.8	5.1	15
PHY510RR	1706	39.8	84.8	1.17	32.3	4.7	18
ST 5242BR	1658	42.7	85.5	1.15	30.5	4.8	21
DELTAPEARL	1656	42.0	85.4	1.21	32.1	5.0	18
ST 6636BR	1646	39.7	85.3	1.21	34.9	5.2	30
FM991B2R	1636	39.9	86.2	1.22	35.9	4.9	18
DP 543 BGII/RR	1635	40.1	86.3	1.21	31.6	4.9	21
FM991R	1613	40.0	84.7	1.19	36.0	4.8	21
DP458B/RR	1605	41.3	84.1	1.16	32.5	4.9	14
ST 5599BR	1596	43.2	85.7	1.17	33.3	5.4	23
DP5690RR	1594	39.1	84.4	1.16	35.6	5.1	16
FM991BR	1589	40.5	85.6	1.19	38.2	5.2	20
FM989BR	1585	40.4	85.4	1.19	33.9	5.0	14
ST 5454B2R	1559	40.1	84.8	1.16	31.6	5.2	14
DPLX02T57R	1546	38.7	85.5	1.16	32.1	5.0	10
ST 6848R	1541	39.1	86.7	1.19	39.6	5.2	28
FM989B2R	1447	37.7	85.9	1.20	35.1	4.7	13
Average	1720	41.6	85.4	1.18	33.9	5.0	18
LSD 0.10	154	0.8	1.2	0.03	2.3	0.4	5
CV %	7.6	1.6	0.8	1.43	4.1	4.5	22

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: 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: Later 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	2044	45.0	86.0	1.19	33.4	4.2	2
DP555BG/RR	1956	44.8	85.0	1.18	31.1	4.5	3
ST 5599BR	1899	42.8	84.8	1.15	31.4	5.0	3
OAX303	1844	45.1	86.0	1.16	31.8	4.9	2
DP488BG/RR	1809	42.3	86.8	1.22	33.9	4.8	1
GA2003165	1803	40.7	86.8	1.24	35.2	4.6	1
DP494RR	1794	44.3	85.9	1.21	33.1	4.6	2
FM991BR	1784	41.1	85.2	1.19	37.5	4.8	3
ST 6848R	1757	40.6	86.8	1.21	37.8	4.6	3
GA2003137	1719	43.5	86.5	1.21	34.0	4.9	1
ST 5303R	1718	42.2	85.2	1.13	36.7	4.6	2
ST 6636BR	1703	40.2	87.7	1.23	35.3	4.7	2
GA2002217	1692	43.6	85.7	1.18	34.1	4.8	2
DP491	1683	43.8	87.5	1.26	35.0	4.4	1
DP 543 BGII/RR	1634	41.3	85.6	1.19	32.6	4.5	3
FM989B2R	1631	40.7	86.4	1.20	34.3	4.6	2
GA2001078	1613	43.0	86.1	1.23	35.4	4.5	2
ST 5242BR	1608	42.6	85.5	1.14	30.2	4.7	6
FM991B2R	1608	39.4	85.6	1.20	37.1	4.4	4
DPLX02T57R	1603	40.2	85.7	1.16	30.9	4.5	1
FM989BR	1599	41.2	85.8	1.19	34.2	4.5	2
DP449BG/RR	1588	42.4	85.1	1.15	34.2	4.4	2
DELTAPEARL	1569	42.5	86.4	1.24	32.3	4.6	2
FM991R	1566	40.9	85.4	1.21	35.4	4.4	2
DP5690RR	1562	40.8	84.9	1.18	37.2	4.2	2
DP 445 BG/RR	1552	43.1	86.4	1.20	31.0	4.6	4
GA2002233	1521	42.8	86.1	1.20	35.8	4.9	1
DP458B/RR	1501	41.0	86.4	1.18	33.0	5.1	2
DP493	1487	44.6	84.9	1.18	36.0	4.5	2
ST 5454B2R	1484	39.7	85.1	1.17	31.4	5.0	3
PHY510RR	1474	41.4	84.9	1.19	33.7	4.7	1
DP5415RR	1439	41.3	85.8	1.18	32.1	5.0	2
BCG24R	1393	40.9	86.0	1.17	31.1	4.5	2
Average	1656	42.1	85.9	1.19	33.9	4.6	2
LSD 0.10	220	0.8	1.2	0.03	2.2	N.S. ²	2
CV %	11.3	1.6	0.8	1.63	3.8	5.6	69

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: Later Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
DP555BG/RR	1568	43.7	84.1	1.15	32.8	4.6	10
DP 455 BG/RR	1513	43.2	84.7	1.15	33.1	4.4	13
FM989BR	1467	40.2	83.4	1.12	33.2	4.5	4
DELTAPEARL	1439	41.5	85.5	1.20	34.0	4.9	9
DP 445 BG/RR	1423	42.3	85.1	1.15	31.8	4.7	11
FM991BR	1409	38.9	85.4	1.18	37.0	4.5	8
DP 543 BGII/RR	1401	39.0	85.0	1.18	31.7	5.0	10
DP5415RR	1378	41.0	86.0	1.15	33.4	4.7	5
ST 5242BR	1353	43.1	83.5	1.10	29.7	4.8	23
GA2002233	1347	43.3	86.7	1.19	33.7	5.0	9
FM991B2R	1341	38.3	85.2	1.16	37.9	4.3	9
PHY510RR	1340	39.8	84.6	1.16	36.2	4.9	5
DP458B/RR	1335	40.5	85.9	1.17	34.8	4.4	5
FM989B2R	1334	39.5	84.5	1.10	35.6	4.8	4
DP494RR	1303	42.0	85.5	1.18	36.3	4.7	5
GA2001078	1297	40.9	86.0	1.18	32.9	4.7	5
DP449BG/RR	1294	39.1	84.1	1.11	33.5	4.5	5
DP493	1292	43.3	84.8	1.16	34.8	4.7	9
OAX303	1280	42.9	85.2	1.15	30.1	4.7	16
FM991R	1275	38.7	85.1	1.17	33.2	4.9	5
ST 5599BR	1266	41.4	84.6	1.14	32.5	5.0	11
GA2003137	1265	42.9	84.9	1.13	34.9	4.9	6
DP488BG/RR	1249	39.3	86.2	1.21	30.7	4.4	5
ST 5303R	1210	39.3	85.8	1.12	38.0	4.6	8
GA2003165	1208	38.6	85.1	1.18	34.0	4.7	7
DP5690RR	1206	38.2	85.0	1.15	36.8	4.4	7
ST 6848R	1194	37.4	85.2	1.15	35.6	5.0	11
DPLX02T57R	1187	38.7	84.2	1.11	27.4	4.5	4
BCG24R	1180	39.9	84.2	1.14	31.9	4.6	6
DP491	1174	41.7	85.5	1.22	35.6	4.6	5
ST 6636BR	1111	39.7	85.4	1.16	33.6	4.9	11
GA2002217	1096	42.0	83.9	1.12	28.0	4.9	6
ST 5454B2R	1040	37.2	83.5	1.14	29.3	5.0	11
Average	1296	40.5	84.9	1.15	33.4	4.7	8
LSD 0.10	179	0.8	1.3	0.04	3.0	0.3	5
CV %	11.8	1.7	0.9	1.97	5.4	4.4	54

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: 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: Later Maturity Cotton Variety Performance, 2004, Irrigated

Variety	Lint Yield lb/acre	Lint %	Uniformity		Strength g/tex	Micronaire units	Storm
			Index %	Length inches			Damage ¹ %
GA2003137	1681	43.8	84.7	1.18	32.6	4.7	11
DP488BG/RR	1679	43.4	86.0	1.23	31.5	4.9	6
GA2001078	1677	43.2	85.1	1.16	32.5	4.7	10
DP494RR	1662	43.8	85.6	1.18	32.2	4.5	6
ST 5242BR	1631	43.0	83.9	1.13	30.7	4.6	19
OAX303	1622	45.0	83.6	1.11	29.0	4.9	15
GA2003165	1556	40.3	84.7	1.18	33.8	4.5	10
DP 445 BG/RR	1539	40.6	84.3	1.14	29.5	4.5	6
ST 6636BR	1532	41.0	83.3	1.15	33.2	4.9	9
DP491	1526	43.4	85.3	1.22	32.1	4.5	6
GA2002233	1514	44.1	83.1	1.13	31.9	5.1	8
DELTAPEARL	1504	43.5	83.5	1.18	31.0	4.9	10
DP493	1503	43.4	84.2	1.16	31.4	4.8	11
DP 543 BGII/RR	1480	43.4	83.7	1.12	29.8	4.9	10
ST 5599BR	1472	41.3	84.8	1.16	32.6	4.8	10
DPLX02T57R	1371	40.1	84.1	1.13	29.3	4.5	6
DP449BG/RR	1358	41.3	83.1	1.09	32.4	4.7	6
GA2002217	1356	43.8	84.1	1.15	32.7	5.1	9
DP555BG/RR	1355	40.4	84.2	1.16	30.7	4.6	10
FM991R	1345	40.5	82.6	1.15	33.6	4.7	6
FM991BR	1329	40.1	84.4	1.14	34.9	4.8	6
FM989BR	1324	40.9	83.7	1.14	32.1	4.3	6
ST 6848R	1294	37.8	84.1	1.14	33.4	5.0	11
DP458B/RR	1278	38.6	83.7	1.13	29.8	4.7	5
DP 455 BG/RR	1277	42.4	83.5	1.15	31.5	4.2	9
ST 5303R	1268	39.6	83.9	1.11	34.3	4.5	9
BCG24R	1244	39.7	83.5	1.10	28.6	4.9	8
DP5690RR	1228	38.9	83.4	1.14	32.4	4.4	8
FM989B2R	1220	38.6	84.2	1.18	34.9	4.4	6
FM991B2R	1173	38.1	84.2	1.16	32.3	4.4	10
DP5415RR	1113	40.8	83.7	1.12	29.8	5.0	5
PHY510RR	1087	40.0	84.3	1.17	30.8	4.8	6
ST 5454B2R	1037	37.1	83.4	1.12	30.0	4.9	5
Average	1401	41.3	84.0	1.15	31.7	4.7	8
LSD 0.10	176	1.5	0.9	0.03	2.8	0.3	3
CV %	10.7	3.1	0.6	1.37	5.2	4.0	28

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 Later Maturity Cotton Varieties, 2004, Irrigated

Entry	Lint Yield ^a					4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton							
DP488BG/RR	2046 ¹	1809 ⁵	1249 ²³	1679 ²	1696 ¹	41.8	86.3	1.22	32.2	4.7	
DP555BG/RR	1867 ⁷	1956 ²	1568 ¹	1355 ¹⁹	1687 ²	43.6	84.3	1.16	31.7	4.6	
DP494RR	1881 ⁴	1794 ⁷	1303 ¹⁵	1662 ⁴	1660 ³	42.9	85.6	1.19	33.9	4.7	
OAX303	1833 ¹⁰	1844 ⁴	1280 ¹⁹	1622 ⁶	1644 ⁴	44.5	84.9	1.14	31.1	4.9	
DP 455 BG/RR	1728 ¹⁵	2044 ¹	1513 ²	1277 ²⁵	1641 ⁵	43.6	84.8	1.17	32.5	4.3	
GA2003137	1869 ⁶	1719 ¹⁰	1265 ²²	1681 ¹	1634 ⁶	43.6	85.4	1.17	34.0	4.9	
GA2001078	1884 ³	1613 ¹⁷	1297 ¹⁶	1677 ³	1618 ⁷	42.5	85.6	1.18	33.2	4.7	
DP 445 BG/RR	1871 ⁵	1552 ²⁵	1423 ⁵	1539 ⁸	1596 ⁸	42.1	85.4	1.17	31.4	4.6	
DP491	1897 ²	1683 ¹⁴	1174 ³⁰	1526 ¹⁰	1570 ⁹	43.1	86.1	1.23	34.2	4.6	
GA2003165	1708 ¹⁷	1803 ⁶	1208 ²⁵	1556 ⁷	1569 ¹⁰	39.8	85.9	1.21	35.7	4.7	
ST 5242BR	1658 ¹⁹	1608 ^{18T}	1353 ⁹	1631 ⁵	1563 ¹¹	42.9	84.6	1.13	30.3	4.7	
ST 5599BR	1596 ²⁶	1899 ³	1266 ²¹	1472 ¹⁵	1558 ¹²	42.2	85.0	1.15	32.5	5.0	
GA2002233	1838 ⁹	1521 ²⁶	1347 ¹⁰	1514 ¹¹	1555 ¹³	43.5	85.4	1.17	33.7	5.0	
DELTAPEARL	1656 ²⁰	1569 ²²	1439 ⁴	1504 ¹²	1542 ¹⁴	42.3	85.2	1.21	32.3	4.8	
DP 543 BGII/R	1635 ²³	1634 ¹⁵	1401 ⁷	1480 ¹⁴	1538 ¹⁵	40.9	85.1	1.17	31.4	4.8	
DP493	1859 ⁸	1487 ²⁸	1292 ¹⁸	1503 ¹³	1535 ¹⁶	44.2	84.8	1.16	33.7	4.8	
FM991BR	1589 ²⁸	1784 ⁸	1409 ⁶	1329 ²¹	1528 ¹⁷	40.1	85.1	1.17	36.9	4.8	
ST 5303R	1816 ¹¹	1718 ¹¹	1210 ²⁴	1268 ²⁶	1503 ¹⁸	40.7	85.0	1.12	36.2	4.7	
ST 6636BR	1646 ²¹	1703 ¹²	1111 ³¹	1532 ⁹	1498 ¹⁹	40.1	85.4	1.18	34.2	4.9	
FM989BR	1585 ²⁹	1599 ²⁰	1467 ³	1324 ²²	1494 ²⁰	40.7	84.6	1.16	33.3	4.6	
DP449BG/RR	1725 ¹⁶	1588 ²¹	1294 ¹⁷	1358 ¹⁷	1491 ²¹	41.1	84.6	1.13	33.9	4.6	
GA2002217	1781 ¹³	1692 ¹³	1096 ³²	1356 ¹⁸	1481 ²²	43.2	84.9	1.16	32.4	4.9	
FM991R	1613 ²⁴	1566 ²³	1275 ²⁰	1345 ²⁰	1450 ²³	40.0	84.4	1.18	34.5	4.7	
ST 6848R	1541 ³²	1757 ⁹	1194 ²⁷	1294 ²³	1446 ²⁴	38.7	85.7	1.17	36.6	4.9	
FM991B2R	1636 ²²	1608 ^{18T}	1341 ¹¹	1173 ³⁰	1440 ²⁵	38.9	85.3	1.18	35.8	4.5	
DP458B/RR	1605 ²⁵	1501 ²⁷	1335 ¹³	1278 ²⁴	1430 ²⁶	40.3	85.0	1.16	32.5	4.8	
DPLX02T57R	1546 ³¹	1603 ¹⁹	1187 ²⁸	1371 ¹⁶	1427 ²⁷	39.4	84.8	1.14	29.9	4.6	
DP5415RR	1749 ¹⁴	1439 ³¹	1378 ⁸	1113 ³¹	1420 ²⁸	41.3	85.3	1.15	31.5	4.9	
FM989B2R	1447 ³³	1631 ¹⁶	1334 ¹⁴	1220 ²⁹	1408 ²⁹	39.1	85.2	1.17	35.0	4.6	
BCG24R	1791 ¹²	1393 ³²	1180 ²⁹	1244 ²⁷	1402 ^{30T}	40.4	84.6	1.14	31.3	4.8	
PHY510RR	1706 ¹⁸	1474 ³⁰	1340 ¹²	1087 ³²	1402 ^{30T}	40.2	84.6	1.17	33.2	4.8	
DP5690RR	1594 ²⁷	1562 ²⁴	1206 ²⁶	1228 ²⁸	1398 ³¹	39.2	84.4	1.15	35.5	4.5	
ST 5454B2R	1559 ³⁰	1484 ²⁹	1040 ³³	1037 ³³	1280 ³²	38.5	84.2	1.14	30.6	5.0	
Average	1720	1656	1296	1401	1518	41.4	85.1	1.17	33.2	4.7	
LSD 0.10	154	220	179	176	153	1.1	0.7	0.02	1.6	0.2	
CV %	7.6	11.3	11.8	10.7	10.3	2.1	0.8	1.62	4.7	4.6	

^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 Later Maturity Cotton Varieties at Four Locations^a, 2003-2004, Irrigated

Variety	Lint Yield ^b lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
OAX303	1471 ¹	44.6	84.5	1.14	30.1	5.0
DP555BG/RR	1465 ²	42.9	83.8	1.16	31.1	4.5
ST 5599BR	1459 ³	40.9	84.3	1.15	31.9	4.8
DP493	1376 ⁴	43.7	83.9	1.15	33.0	4.7
FM991BR	1374 ⁵	40.0	84.6	1.16	36.1	4.7
DELTAPEARL	1341 ⁶	41.1	84.9	1.20	32.3	4.7
DP491	1337 ⁷	42.4	85.4	1.22	33.1	4.5
DP449BG/RR	1322 ⁸	40.6	84.1	1.13	33.5	4.5
FM989BR	1321 ⁹	40.7	84.1	1.15	33.0	4.4
ST 5303R	1294 ¹⁰	40.1	84.5	1.11	34.9	4.5
DP458B/RR	1255 ¹¹	39.9	84.5	1.15	32.1	4.6
FM991R	1226 ¹²	39.4	84.1	1.17	33.5	4.5
DP5690RR	1225 ¹³	38.7	84.0	1.15	34.8	4.4
DP5415RR	1201 ¹⁴	40.3	84.6	1.14	30.5	4.8
PHY510RR	1143 ¹⁵	39.7	84.2	1.16	33.2	4.6
Average	1321	41.0	84.4	1.16	32.9	4.6
LSD 0.10	64	0.3	0.3	0.01	0.5	0.1
CV %	11.9	1.9	0.8	1.50	3.5	3.7

^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).