

Bainbridge, Georgia: Later Maturity Cotton Variety Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
CG 3787 B2RF	1999	44.8	85.6	1.13	28.8	5.3
ST 6182GLT	1985	48.1	85.1	1.13	29.1	5.2
DP 1646 B2XF	1977	46.5	85.4	1.21	29.1	4.9
BX 1739GLT	1948	46.2	84.0	1.20	32.7	5.2
PHY 444 WRF	1928	45.6	86.2	1.23	32.5	4.5
PHY 496 W3RF	1917	46.0	84.1	1.09	32.2	5.1
PHY 487 WRF	1915	44.7	83.6	1.06	28.4	5.5
DP 1555 B2RF	1915	47.3	84.7	1.15	33.0	5.2
DP 1538 B2XF	1882	45.7	84.2	1.11	28.3	5.1
DP 1725 B2XF	1877	46.9	84.7	1.14	31.1	5.2
DP 1558NR B2RF	1848	46.5	84.5	1.13	33.1	5.5
NG 5007 B2XF	1830	44.5	84.2	1.14	26.4	4.9
PHY 499 WRF	1821	45.2	86.1	1.13	31.7	5.3
PHY 333 WRF	1760	43.9	85.2	1.15	30.8	4.8
Croplan 3885 B2XF	1758	45.4	84.9	1.13	29.9	5.1
DP 1639 B2XF	1747	46.7	86.4	1.12	31.1	5.5
GA 2010019	1733	43.0	84.1	1.15	30.6	5.0
DG 3757 B2XF	1718	46.2	84.1	1.12	28.9	5.2
ST 5115GLT	1717	43.1	84.3	1.14	29.7	4.7
DP 1553 B2XF	1716	45.5	85.2	1.14	29.4	5.2
BRS 293	1712	44.2	84.2	1.10	31.2	5.5
GA 2009037	1587	41.7	83.9	1.16	30.7	5.1
ST 4848GLT	1540	44.9	84.6	1.14	29.1	5.2
ST 6448GLB2	1420	43.4	84.0	1.16	29.3	5.1
ST 4949GLT	1360	47.3	84.5	1.12	28.9	5.3
GA 230	1317	41.8	85.2	1.19	31.3	4.9
Average	1766	45.2	84.7	1.14	30.3	5.1
LSD at 10% Level	166	0.6	1.4	0.03	1.7	0.2
CV %	8.1	1.1	1.0	1.78	3.3	2.1

* A random quality sample was taken on the picker during harvest and ginned in small gin in the SWVT Lab on the UGA Griffin Campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

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

Planted: May 11, 2016.

Harvested: October 19, 2016.

Seeding Rate: 4 seeds/foot in 36" rows.

Soil Type: Faceville sandy loam.

Soil Test: P = High, K = Medium, and pH = 6.0.

Fertilization: 27.5 lb N, 55 lb P₂O₅, and 46 lb K₂O/acre.

Sidedress: 127.7 lb N, 144 lb K₂O, and 22.8 lb S/acre.

Previous Crop: Peanuts.

Management: Strip-tilled and subsoiled; Prowl, Cotoran, and MSMA used for weed control; Acephate, Imidacloprid, Prevathon, and Bidrin used for insect control.

	May	June	July	Aug.	Sept.
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Irrigation (in):	1.50	0.75	4.50	2.25	0.00
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Rainfall (in):	2.40	7.80	3.25	2.65	6.50
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Trials conducted by D. Dunn, R. Brooke, and G. South.

Midville, Georgia: Later Maturity Cotton Variety Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DP 1555 B2RF	1933	44.5	82.1	1.14	32.4	3.7
ST 6448GLB2	1903	42.3	82.0	1.15	29.2	3.7
PHY 487 WRF	1789	41.4	81.9	1.11	30.5	3.6
DP 1646 B2XF	1768	42.2	83.5	1.26	30.0	4.1
PHY 444 WRF	1751	41.0	82.6	1.27	31.7	4.1
BX 1739GLT	1746	43.4	83.6	1.25	36.1	4.0
ST 5115GLT	1708	40.5	83.2	1.17	32.1	3.8
NG 5007 B2XF	1681	41.6	84.1	1.19	31.4	3.8
DP 1725 B2XF	1675	43.4	83.3	1.16	32.4	3.7
PHY 333 WRF	1667	40.5	81.9	1.17	32.6	3.8
Croplan 3885 B2XF	1657	41.6	82.6	1.12	30.2	3.6
GA 230	1656	40.6	82.4	1.26	30.9	4.0
DP 1639 B2XF	1577	41.3	83.1	1.12	31.3	3.6
CG 3787 B2RF	1572	42.8	83.4	1.15	29.6	3.7
GA 2009037	1565	40.1	82.4	1.19	31.5	3.8
DP 1538 B2XF	1564	43.4	83.1	1.10	28.2	3.5
GA 2010019	1564	41.3	82.4	1.16	31.6	3.7
PHY 499 WRF	1559	40.5	84.2	1.11	32.2	3.6
ST 6182GLT	1546	44.0	83.0	1.14	30.5	3.7
BRS 293	1515	38.6	83.7	1.18	34.9	3.8
PHY 496 W3RF	1508	42.8	83.6	1.13	33.7	3.6
DP 1558NR B2RF	1458	44.4	82.5	1.15	30.8	3.7
ST 4949GLT	1444	42.9	83.4	1.13	29.9	3.6
DG 3757 B2XF	1422	42.9	82.0	1.12	30.4	3.6
ST 4848GLT	1421	41.0	82.5	1.12	29.5	3.6
DP 1553 B2XF	1171	40.8	84.0	1.15	29.9	3.7
Average	1608	41.9	82.9	1.16	31.3	3.7
LSD at 10% Level	184	1.8	1.1	0.03	2.0	0.1
CV %	9.8	3.6	0.8	1.64	3.7	1.7

* A random quality sample was taken on the picker during harvest and ginned in small gin in the SWVT Lab on the UGA Griffin Campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

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

Planted: May 9, 2016.

Harvested: October 6, 2016.

Seeding Rate: 4 seeds/foot in 36" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.5.

Fertilization: 30 lb N, 30 lb P₂O₅, and 80 lb K₂O/acre. Sidedress: 65 lb N and .25 lb Boron/acre.

Previous Crop: Peanuts.

Management: Disked and subsoiled/bedded; Pendimethalin, Diuron, Reflex, Staple, MSMA, Envoke, and Select used for weed control; Acephate and Prevathon used for insect control; Telon II used for nematode control; Mepiquat, Def, Drop, and Ethephon used for PGR.

	May	June	July	Aug.	Sept.
Irrigation (in):	1.35	2.00	2.00	2.75	0.00
Rainfall (in):	4.22	3.95	6.20	3.88	4.88

Trials conducted by R. Brooke, D. Dunn, and G. South.

Plains, Georgia:
Later Maturity Cotton Variety Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
PHY 487 WRF	1955	40.7	82.6	1.09	29.7	4.6
ST 6182GLT	1937	46.7	83.5	1.14	28.9	4.4
BX 1739GLT	1928	44.5	82.2	1.21	33.6	4.4
GA 230	1844	40.4	83.4	1.19	31.7	4.3
PHY 496 W3RF	1842	44.0	84.5	1.13	31.4	4.7
DP 1646 B2XF	1827	44.1	83.0	1.22	31.3	4.3
CG 3787 B2RF	1816	41.7	83.3	1.13	28.4	4.4
NG 5007 B2XF	1806	43.3	82.1	1.13	27.9	4.4
ST 5115GLT	1805	41.0	82.9	1.16	31.6	4.2
GA 2010019	1801	42.1	83.3	1.16	31.7	4.2
Croplan 3885 B2XF	1766	42.1	82.9	1.11	28.1	4.2
PHY 333 WRF	1752	42.6	81.8	1.15	31.0	4.2
ST 6448GLB2	1734	39.6	82.1	1.17	29.5	4.5
PHY 444 WRF	1724	43.2	83.9	1.22	31.8	3.8
DP 1538 B2XF	1655	42.2	82.8	1.09	28.6	4.5
DP 1555 B2RF	1652	43.6	83.2	1.16	30.0	4.1
DP 1725 B2XF	1649	44.9	83.3	1.14	29.6	4.5
DP 1639 B2XF	1629	42.6	83.8	1.13	30.8	4.3
PHY 499 WRF	1623	41.0	82.5	1.10	30.6	4.6
ST 4848GLT	1621	41.6	83.3	1.15	31.4	4.2
DG 3757 B2XF	1547	42.2	82.7	1.11	28.0	4.2
DP 1558NR B2RF	1539	41.0	82.6	1.16	33.5	4.4
GA 2009037	1538	41.5	83.2	1.15	31.4	4.6
BRS 293	1375	40.8	83.5	1.15	33.8	4.0
ST 4949GLT	1283	43.4	84.5	1.14	29.9	4.3
DP 1553 B2XF	1228	42.0	84.0	1.17	28.1	4.2
Average	1688	42.4	83.1	1.15	30.5	4.3
LSD at 10% Level	188	1.0	N.S. ¹	0.02	1.4	0.3
CV %	9.6	2.0	1.1	1.29	2.8	4.6

Plains, Georgia: Later Maturity Cotton Variety Performance, 2016, Irrigated (Continued)

* A random quality sample was taken on the picker during harvest and ginned in small gin in the SWVT Lab on the UGA Griffin Campus to determine lint fraction. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

1. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore, an 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 4, 2016.

Harvested: October 17, 2016.

Seeding Rate: 4 seeds/foot in 36" rows.

Soil Type: Faceville sandy loam.

Soil Test: P = Medium, K = High, and pH = 6.1.

Fertilization: 18 lb N, 16 lb P₂O₅, 60 lb K₂O, and 1000 lb lime/acre. Sidedress: 80 lb N/acre.

Previous Crop: Soybeans.

Management: Disked, subsoiled/bedded, rototilled, and cultivated; Prowl, Reflex, Diuron, MSMA, and Staple used for weed control; Bidrin and Bifenthrin used for insect control; Mepiquat Chloride used for PGR.

Irrigation: 10.93 inches.

	May	June	July	Aug.	Sept.
Rainfall (in):	0.79	4.02	1.03	0.90	2.20

Trials conducted by D. Dunn, R. Brooke, and G. South.

Tifton, Georgia: Later Maturity Cotton Variety Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
ST 4949GLT	1460	39.9	82.9	1.13	31.7	4.6
ST 5115GLT	1418	38.9	81.3	1.09	30.5	4.6
BX 1739GLT	1414	41.1	82.8	1.18	33.5	4.7
PHY 496 W3RF	1373	41.0	83.3	1.11	31.2	4.7
PHY 333 WRF	1350	39.8	82.8	1.15	30.9	4.5
Croplan 3885 B2XF	1339	40.2	83.3	1.13	29.1	4.6
NG 5007 B2XF	1329	38.6	82.4	1.13	28.0	4.6
DP 1538 B2XF	1321	41.2	82.6	1.10	27.9	4.6
DP 1555 B2RF	1321	41.7	82.0	1.13	31.0	4.4
DG 3757 B2XF	1321	40.3	83.2	1.12	28.8	4.5
DP 1646 B2XF	1321	41.6	83.4	1.21	29.6	4.5
PHY 444 WRF	1288	40.3	83.3	1.19	31.8	4.2
CG 3787 B2RF	1274	40.3	83.3	1.13	29.8	4.6
GA 230	1270	37.2	83.0	1.12	29.3	4.6
GA 2010019	1246	37.9	83.3	1.17	31.9	4.2
ST 4848GLT	1241	41.7	83.4	1.14	30.3	4.9
DP 1558NR B2RF	1209	40.3	83.0	1.12	29.3	4.9
GA 2009037	1199	45.8	82.7	1.14	31.1	5.0
ST 6182GLT	1186	43.8	82.5	1.15	29.5	4.7
DP 1639 B2XF	1185	40.7	83.6	1.13	31.8	4.8
PHY 499 WRF	1156	40.1	83.6	1.11	32.4	4.9
ST 6448GLB2	1138	37.5	82.7	1.19	31.2	4.6
DP 1725 B2XF	1127	43.5	82.7	1.14	31.0	4.4
PHY 487 WRF	1121	39.6	81.8	1.06	29.1	5.0
DP 1553 B2XF	1095	38.8	83.4	1.16	29.8	4.2
BRS 293	1023	37.9	83.0	1.14	33.5	4.5
Average	1259	40.4	82.9	1.14	30.5	4.6
LSD at 10% Level	205	1.6	0.9	0.03	2.0	0.2
CV %	14.1	3.3	0.7	1.63	3.9	3.0

* Percent lint fractions were determined from plot seed cotton ginned in the Micro-Gin located on the UGA Tifton Campus. A lint sample was sent to the USDA classing office in Macon, Georgia, for quality testing.

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

Planted: May 6, 2016.

Harvested: September 27, 2016.

Seeding Rate: 4 seeds/foot in 36" rows.

Soil Type: Tifton sandy loam.

Soil Test: P = Medium, K = Medium, and pH = 6.5.

Fertilization: 25 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre. Sidedress: 75 lb N and 30 lb K₂O/acre.

Previous Crop: Peanuts.

Management: Disked and subsoiled/bedded; Reflex, Cotoran, Warrant, Dual Magnum, and Select Max used for weed control; Besiege and Knack used for insect control; Prep, Folex, and Dropp used for defoliation.

	May	June	July	Aug.	Sept.
Irrigation (in):	1.75	2.00	5.00	2.50	0.50
Rainfall (in):	2.20	5.09	2.19	4.86	6.58

Trials conducted by S. Willis, R. Brooke, D. Dunn, and G. South.

Yield Summary of Later Maturity Cotton Varieties, 2016, Irrigated

Variety	Lint Yield ^a					4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Bainbridge	Midville	Plains	Tifton	lb/acre						
BX 1739GLT	1948 ⁴	1746 ⁶	1928 ³	1414 ³	1759 ¹	43.8	83.1	1.21	34.0	4.6	
DP 1646 B2XF	1977 ³	1768 ⁴	1827 ⁶	1321 ^{8T}	1723 ²	43.6	83.8	1.23	30.0	4.4	
DP 1555 B2RF	1915 ^{7T}	1933 ¹	1652 ¹⁶	1321 ^{8T}	1705 ³	44.3	83.0	1.15	31.6	4.3	
PHY 487 WRF	1915 ^{7T}	1789 ³	1955 ¹	1121 ²¹	1695 ⁴	41.6	82.5	1.08	29.4	4.7	
PHY 444 WRF	1928 ⁵	1751 ⁵	1724 ¹⁴	1288 ⁹	1673 ⁵	42.5	84.0	1.23	31.9	4.1	
CG 3787 B2RF	1999 ¹	1572 ¹⁴	1816 ⁷	1274 ¹⁰	1665 ⁶	42.4	83.9	1.13	29.1	4.5	
ST 6182GLT	1985 ²	1546 ¹⁸	1937 ²	1186 ¹⁶	1663 ⁷	45.6	83.5	1.14	29.5	4.5	
ST 5115GLT	1717 ¹⁸	1708 ⁷	1805 ⁹	1418 ²	1662 ⁸	40.9	82.9	1.14	31.0	4.3	
NG 5007 B2XF	1830 ¹¹	1681 ⁸	1806 ⁸	1329 ⁷	1661 ⁹	42.0	83.2	1.15	28.4	4.4	
PHY 496 W3RF	1917 ⁶	1508 ²⁰	1842 ⁵	1373 ⁴	1660 ¹⁰	43.4	83.9	1.11	32.1	4.5	
PHY 333 WRF	1760 ¹³	1667 ¹⁰	1752 ¹²	1350 ⁵	1632 ¹¹	41.7	82.9	1.15	31.3	4.3	
Croplan 3885 B2XF	1758 ¹⁴	1657 ¹¹	1766 ¹¹	1339 ⁶	1630 ¹²	42.3	83.4	1.12	29.3	4.4	
DP 1538 B2XF	1882 ⁸	1564 ^{16T}	1655 ¹⁵	1321 ^{8T}	1606 ¹³	43.1	83.1	1.10	28.2	4.4	
GA 2010019	1733 ¹⁶	1564 ^{16T}	1801 ¹⁰	1246 ¹²	1586 ¹⁴	41.1	83.3	1.16	31.4	4.3	
MON 15R535B2XF	1877 ⁹	1675 ⁹	1649 ¹⁷	1127 ²⁰	1582 ¹⁵	44.7	83.5	1.14	31.0	4.4	
ST 6448GLB2	1420 ²³	1903 ²	1734 ¹³	1138 ¹⁹	1549 ¹⁶	40.7	82.7	1.16	29.8	4.5	
PHY 499 WRF	1821 ¹²	1559 ¹⁷	1623 ¹⁹	1156 ¹⁸	1540 ¹⁷	41.7	84.1	1.11	31.7	4.6	
DP 1639 B2XF	1747 ¹⁵	1577 ¹³	1629 ¹⁸	1185 ¹⁷	1535 ¹⁸	42.8	84.2	1.13	31.2	4.6	
GA 230	1317 ²⁵	1656 ¹²	1844 ⁴	1270 ¹¹	1522 ¹⁹	40.0	83.5	1.19	30.8	4.4	
DP 1558NR B2RF	1848 ¹⁰	1458 ²¹	1539 ²²	1209 ¹⁴	1513 ²⁰	43.1	83.1	1.14	31.6	4.6	
DG 3757 B2XF	1718 ¹⁷	1422 ²³	1547 ²¹	1321 ^{8T}	1502 ²¹	42.9	83.0	1.12	29.0	4.4	
GA 2009037	1587 ²¹	1565 ¹⁵	1538 ²³	1199 ¹⁵	1472 ²²	42.3	83.0	1.16	31.2	4.6	
ST 4848GLT	1540 ²²	1421 ²⁴	1621 ²⁰	1241 ¹³	1456 ²³	42.3	83.4	1.14	30.1	4.5	
BRS 293	1712 ²⁰	1515 ¹⁹	1375 ²⁴	1023 ²³	1406 ²⁴	40.4	83.6	1.14	33.3	4.5	
ST 4949GLT	1360 ²⁴	1444 ²²	1283 ²⁵	1460 ¹	1387 ²⁵	43.4	83.8	1.13	30.1	4.4	
DP 1553 B2XF	1716 ¹⁹	1171 ²⁵	1228 ²⁶	1095 ²²	1302 ²⁶	41.8	84.1	1.15	29.3	4.3	
Average	1766	1608	1688	1259	1580	42.5	83.4	1.15	30.6	4.4	
LSD at 10% Level	166	184	188	205	161	1.4	0.7	0.02	1.2	0.2	
CV %	8.1	9.8	9.6	14.1	10.2	2.6	0.9	1.60	3.5	3.1	

^a Superscript numbers 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 of Later Maturity Cotton Varieties at Four Locations¹, 2015-2016, Irrigated

Variety	Lint Yield lb/acre	Uniformity		Length inches	Strength g/tex	Micronaire units
		Lint %	Index %			
DP 1646 B2XF	1725	45.0	84.1	1.24	30.1	4.4
PHY 333 WRF	1647	42.9	83.3	1.17	31.3	4.4
CG 3787 B2RF	1641	43.2	83.8	1.15	29.7	4.6
DP 1555 B2RF	1634	44.7	83.3	1.17	31.6	4.4
DP 1558NR B2RF	1626	43.8	83.7	1.16	32.1	4.7
ST 5115GLT	1626	41.2	82.9	1.14	31.1	4.3
PHY 444 WRF	1623	43.6	84.4	1.25	31.9	4.0
DP 1538 B2XF	1618	44.1	83.3	1.11	28.7	4.6
ST 6182GLT	1605	46.1	83.6	1.15	29.8	4.4
NG 5007 B2XF	1586	43.1	83.2	1.16	29.0	4.4
GA 2010019	1570	41.6	83.4	1.17	31.6	4.3
PHY 499 WRF	1550	42.9	84.1	1.13	32.0	4.6
ST 6448GLB2	1543	41.3	82.6	1.18	30.5	4.5
DP 1639 B2XF	1529	44.3	84.5	1.14	31.5	4.7
GA 2009037	1512	42.2	83.0	1.17	31.2	4.6
DP 1553 B2XF	1431	43.0	84.0	1.17	29.7	4.4
GA 230	1423	40.5	83.5	1.21	31.4	4.4
BRS 293	1351	40.4	83.6	1.15	33.3	4.7
Average	1569	43.0	83.6	1.17	30.9	4.5
LSD at 10% Level	74	0.4	0.5	0.01	0.7	0.1
CV %	10.9	2.2	0.9	1.90	3.5	4.9

1. Bainbridge, Midville, Plains, and Tifton.

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