

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

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DP 1646 B2XF	1869	42.7	83.2	1.23	30.4	4.0
DP 1555 B2RF	1767	44.2	84.5	1.22	33.5	3.9
DP 1747NR B2XF	1690	45.2	83.0	1.14	32.4	3.7
ST 5115GLT	1665	37.9	82.5	1.13	30.4	3.7
AMX 1604 B2XF	1631	39.8	83.7	1.15	33.4	3.7
PHY 333 WRF	1621	41.9	82.6	1.19	33.1	3.8
DP 1558NR B2RF	1550	41.7	83.4	1.16	33.8	3.7
MON 16R251NRB2XF	1526	43.1	82.6	1.19	32.9	3.8
AMX 1603 B2XF	1496	39.9	82.4	1.16	28.5	3.7
MON 16R229B2XF	1441	42.6	83.2	1.11	30.7	3.6
Average	1625	41.9	83.1	1.17	31.9	3.7
LSD at 10% Level	154	1.0	0.9	0.03	1.5	0.1
CV %	7.9	2.0	0.6	1.40	2.5	1.3

* 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 Strains Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DP 1747NR B2XF	2020	43.3	82.4	1.12	31.3	4.3
MON 16R229B2XF	1970	43.4	81.8	1.09	29.5	4.7
AMX 1603 B2XF	1887	42.6	82.7	1.15	28.4	4.2
DP 1558NR B2RF	1843	43.0	83.7	1.16	31.1	4.6
AMX 1604 B2XF	1804	40.2	83.5	1.17	32.8	4.5
MON 16R251NRB2XF	1803	42.4	82.2	1.19	32.0	4.3
ST 5115GLT	1796	39.9	82.8	1.14	31.5	4.0
PHY 333 WRF	1701	41.5	83.6	1.15	30.4	4.2
DP 1555 B2RF	1643	43.3	82.4	1.19	31.7	3.8
DP 1646 B2XF	1621	43.7	83.1	1.25	29.6	4.1
Average	1809	42.3	82.8	1.16	30.8	4.3
LSD at 10% Level	160	0.7	N.S. ¹	0.04	1.4	0.2
CV %	7.3	1.4	0.9	2.05	2.6	3.2

* 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, Staple used for weed control; Bidrin and Bifenthrin used for insect control; Mepiquate 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 W. Jones, D. Dunn, R. Brooke, and G. South.

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

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DP 1646 B2XF	1585	46.1	84.1	1.26	30.9	4.0
PHY 333 WRF	1568	42.9	84.9	1.15	31.5	3.7
ST 5115GLT	1478	40.8	83.2	1.16	31.9	3.8
DP 1555 B2RF	1468	44.7	85.1	1.19	34.0	3.8
AMX 1603 B2XF	1437	43.4	83.9	1.16	29.1	3.7
MON 16R229B2XF	1425	43.9	84.6	1.12	30.1	3.6
AMX 1604 B2XF	1377	42.5	84.1	1.13	33.2	3.6
DP 1747NR B2XF	1350	45.8	84.7	1.16	33.6	3.7
MON 16R251NRB2XF	1117	44.3	84.2	1.21	33.4	3.9
DP 1558NR B2RF	1048	42.9	84.1	1.15	32.6	3.7
Average	1385	43.7	84.3	1.17	32	3.7
LSD at 10% Level	126	0.4	N.S. ¹	0.04	1.3	0.1
CV %	7.6	0.8	1.0	1.74	2.2	1.6

* 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 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 Strains, 2016, Irrigated

Variety	Lint Yield ^a				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
DP 1646 B2XF	1869 ¹	1621 ¹⁰	1585 ¹	1692 ¹	44.2	83.4	1.25	30.3	4.0
PHY 333 WRF	1621 ⁶	1701 ⁸	1568 ²	1630 ²	42.1	83.7	1.16	31.6	3.9
ST 5115GLT	1665 ⁴	1796 ⁷	1478 ³	1646 ³	39.5	82.8	1.14	31.3	3.8
DP 1555 B2RF	1767 ²	1643 ⁹	1468 ⁴	1626 ⁴	44.1	84.0	1.20	33.0	3.8
AMX 1603 B2XF	1496 ⁹	1887 ³	1437 ⁵	1606 ⁵	41.9	83.0	1.16	28.7	3.9
MON 16R229B2XF	1441 ¹⁰	1970 ²	1425 ⁶	1612 ⁶	43.3	83.2	1.11	30.1	3.9
AMX 1604 B2XF	1631 ⁵	1804 ⁵	1377 ⁷	1604 ⁷	40.8	83.7	1.15	33.1	3.9
DP 1747NR B2XF	1690 ³	2020 ¹	1350 ⁸	1687 ⁸	44.8	83.3	1.14	32.4	3.9
MON 16R251NRB2XF	1526 ⁸	1803 ⁶	1117 ⁹	1482 ⁹	43.3	83.0	1.20	32.8	4.0
DP 1558NR B2RF	1550 ⁷	1843 ⁴	1048 ¹⁰	1480 ¹⁰	42.5	83.7	1.16	32.5	4.0
Average	1625	1809	1385	1607	42.7	83.4	1.17	31.6	3.9
LSD at 10% Level	154	160	126	N.S. ^b	1.2	N.S.	0.02	1.0	N.S.
CV %	7.9	7.3	7.6	7.6	1.5	0.8	1.70	2.4	2.3

^a Superscript numbers indicate ranking at that location.

^b 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).