

## Midville, Georgia: Earlier Maturity Cotton Strains Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
GA 2013114	<b>1813</b>	41.8	83.9	1.26	31.7	4.0
PHY 444 WRF	<b>1812</b>	41.5	85.0	1.27	33.2	4.1
AMX 1603 B2XF	<b>1719</b>	42.8	82.7	1.17	29.1	3.8
GA 2013024	<b>1718</b>	39.2	83.7	1.23	32.1	3.9
DG 12WSTR-763-2 B2R	1672	43.1	83.2	1.19	34.4	3.9
WinField 16XA7 B2XF	1659	42.6	83.5	1.19	31.3	3.8
GA 2013055	1630	41.3	83.9	1.23	34.0	4.0
GA 2013098	1626	40.0	84.2	1.20	32.3	3.8
GA 2013025	1608	41.2	84.0	1.20	32.7	3.8
MON 16R229B2XF	1550	42.4	83.3	1.11	30.5	3.6
GA 2013027	1521	40.4	84.7	1.22	33.1	3.9
AMX 1605 B2XF	1511	39.5	83.6	1.13	32.3	3.7
AMX 1604 B2XF	1490	38.3	83.4	1.18	33.4	3.8
AMX 1602 B2XF	1374	38.6	82.7	1.13	29.4	3.6
Average	1622	40.9	83.7	1.19	32.1	3.8
LSD at 10% Level	128	1.0	1.2	0.04	2.0	0.1
CV %	6.6	2.0	0.8	1.74	3.5	2.0

\* 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 P<sub>2</sub>O<sub>5</sub>, and 80 lb K<sub>2</sub>O/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: Earlier Maturity Cotton Strains Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
GA 2013114	<b>2020</b>	43.3	84.3	1.23	31.6	4.7
MON 16R229B2XF	1885	43.2	82.8	1.10	31.2	4.7
AMX 1605 B2XF	1885	43.0	84.0	1.13	32.6	4.6
AMX 1603 B2XF	1790	42.7	82.7	1.15	28.4	4.3
GA 2013024	1783	41.5	83.6	1.21	33.3	4.5
AMX 1602 B2XF	1761	42.0	82.8	1.14	28.7	4.7
PHY 444 WRF	1760	42.8	83.1	1.19	32.3	4.0
AMX 1604 B2XF	1752	41.6	82.3	1.13	31.7	4.5
GA 2013027	1746	42.5	84.1	1.21	32.0	4.7
GA 2013055	1635	42.7	83.8	1.26	33.3	4.5
WinField 16XA7 B2XF	1620	43.8	83.0	1.14	28.3	5.0
DG 12WSTR-763-2 B2R	1574	44.2	83.2	1.18	30.7	4.5
GA 2013025	1551	42.7	85.8	1.21	31.3	4.8
GA 2013098	1548	41.1	84.4	1.21	32.1	4.4
Average	1736	42.6	83.6	1.18	31.2	4.5
LSD at 10% Level	129	0.8	1.2	0.05	2.3	0.4
CV %	6.2	1.5	0.8	2.36	4.2	5.0

\* 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 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 P<sub>2</sub>O<sub>5</sub>, 60 lb K<sub>2</sub>O, and 1000 lb lime/acre. Sidedress: 80 lb N/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled/bedded, and rototilled; Prowl, Reflex, and Staple used for weed control; Bidrin, Vydate, Prevathon, 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: Earlier Maturity Cotton Strains Performance, 2016, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
PHY 444 WRF	<b>1650</b>	44.5	84.6	1.27	32.8	4.1
AMX 1603 B2XF	<b>1646</b>	43.5	85.0	1.18	29.2	3.8
GA 2013024	<b>1596</b>	44.1	85.3	1.21	32.5	3.9
AMX 1602 B2XF	<b>1540</b>	40.8	85.4	1.15	30.5	3.7
AMX 1605 B2XF	<b>1528</b>	42.0	83.7	1.12	33.0	3.6
GA 2013098	1481	42.4	84.8	1.22	33.1	3.9
MON 16R229B2XF	1427	44.0	83.9	1.14	31.7	3.7
GA 2013114	1413	43.1	84.3	1.22	32.4	3.9
AMX 1604 B2XF	1404	41.6	84.0	1.18	34.5	3.8
GA 2013025	1383	42.4	84.6	1.21	32.7	3.9
DG 12WSTR-763-2 B2R	1368	45.8	83.9	1.21	32.4	3.9
WinField 16XA7 B2XF	1289	46.1	85.2	1.21	32.3	3.9
GA 2013027	1278	40.7	84.8	1.21	34.0	3.9
GA 2013055	1128	42.1	83.7	1.23	34.7	4.0
Average	1438	43.1	84.5	1.20	32.5	3.8
LSD at 10% Level	167	1.6	1.8	0.03	1.5	0.1
CV %	9.7	3.1	0.7	1.40	2.6	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 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 P<sub>2</sub>O<sub>5</sub>, and 80 lb K<sub>2</sub>O/acre. Sidedress: 75 lb N and 30 lb K<sub>2</sub>O/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 Earlier Maturity Cotton Strains, 2016, Irrigated

Variety	Lint Yield <sup>a</sup>				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
GA 2013114	<b>1813</b> <sup>1</sup>	<b>2020</b> <sup>1</sup>	1413 <sup>8</sup>	<b>1748</b> <sup>1</sup>	42.7	84.2	1.2	31.9	4.2
PHY 444 WRF	<b>1812</b> <sup>2</sup>	1760 <sup>6</sup>	<b>1650</b> <sup>1</sup>	<b>1741</b> <sup>2</sup>	42.9	84.2	1.2	32.8	4.0
AMX 1603 B2XF	<b>1719</b> <sup>3</sup>	1790 <sup>3</sup>	<b>1646</b> <sup>2</sup>	<b>1718</b> <sup>3</sup>	43.0	83.5	1.2	28.9	3.9
GA 2013024	<b>1718</b> <sup>4</sup>	1783 <sup>4</sup>	<b>1596</b> <sup>3</sup>	<b>1699</b> <sup>4</sup>	41.6	84.2	1.2	32.6	4.1
AMX 1605 B2XF	1511 <sup>12</sup>	1885 <sup>2T</sup>	<b>1528</b> <sup>5</sup>	<b>1641</b> <sup>5</sup>	41.5	83.7	1.1	32.6	4.0
MON 16R229B2XF	1550 <sup>10</sup>	1885 <sup>2T</sup>	1427 <sup>7</sup>	<b>1621</b> <sup>6</sup>	43.2	83.3	1.1	31.1	4.0
AMX 1602 B2XF	1374 <sup>14</sup>	1761 <sup>5</sup>	<b>1540</b> <sup>4</sup>	1559 <sup>7</sup>	40.4	83.6	1.1	29.5	4.0
GA 2013098	1626 <sup>8</sup>	1548 <sup>13</sup>	1481 <sup>6</sup>	1552 <sup>8</sup>	41.1	84.4	1.2	32.5	4.0
AMX 1604 B2XF	1490 <sup>13</sup>	1752 <sup>7</sup>	1404 <sup>9</sup>	1549 <sup>9</sup>	40.5	83.2	1.2	33.2	4.0
DG 12WSTR-763-2 B2RF	1672 <sup>5</sup>	1574 <sup>11</sup>	1368 <sup>11</sup>	1538 <sup>10</sup>	44.4	83.4	1.2	32.5	4.1
WinField 16XA7 B2XF	1659 <sup>6</sup>	1620 <sup>10</sup>	1289 <sup>12</sup>	1523 <sup>11</sup>	44.2	83.9	1.2	30.6	4.2
GA 2013027	1521 <sup>11</sup>	1746 <sup>8</sup>	1278 <sup>13</sup>	1515 <sup>12</sup>	41.2	84.5	1.2	33.0	4.2
GA 2013025	1608 <sup>9</sup>	1551 <sup>12</sup>	1383 <sup>10</sup>	1514 <sup>13</sup>	42.1	84.8	1.2	32.2	4.2
GA 2013055	1630 <sup>7</sup>	1635 <sup>9</sup>	1128 <sup>14</sup>	1464 <sup>14</sup>	42.0	83.8	1.2	34.0	4.1
Average	1622	1736	1438	1599	42.2	83.9	1.19	31.9	4.1
LSD at 10% Level	128	129	167	170	1.2	N.S. <sup>b</sup>	0.02	1.1	N.S.
CV %	6.6	6.2	9.7	7.5	2.3	0.8	1.90	3.5	3.5

<sup>a</sup> Superscript numbers indicate ranking at that location.

<sup>b</sup> 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).