

## Athens, Georgia: Dryland Earlier Maturity Cotton Variety Performance, 2016

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
PHY 444 WRF	<b>1518</b>	45.2	85.2	1.17	34.3	3.8
DG 2615 B2RF	<b>1482</b>	44.8	84.6	1.17	33.1	3.8
DG CT15634 B2RF	1332	44.3	83.7	1.11	30.7	3.6
PHY 499 WRF	1326	43.7	82.8	1.06	33.0	3.4
GA 2011113	1319	42.7	83.9	1.11	33.2	3.6
PHY 333 WRF	1305	45.3	83.5	1.10	31.2	3.6
SSG HQ 212 CT	1299	40.2	83.5	1.07	33.5	3.5
DP 1522 B2XF	1297	42.1	82.6	1.08	30.9	3.5
SSG UA 222	1296	40.3	84.0	1.15	33.4	3.7
PHY 487 WRF	1294	42.3	83.1	1.07	29.8	3.5
SSG HQ 210 CT	1268	40.7	83.2	1.07	33.0	3.4
DG 3526 B2XF	1239	45.6	83.8	1.07	29.5	3.4
NG 3406 B2XF	1222	43.6	83.2	1.08	31.1	3.5
GA 2012082	1213	43.1	84.0	1.13	33.6	3.7
PHY 312 WRF	1162	43.5	84.6	1.11	32.3	3.6
MON 15R513B2XF	1159	41.4	83.8	1.13	31.9	3.6
NG 3522 B2XF	1153	42.5	81.9	1.06	27.9	3.4
GA 2012050	1149	41.3	85.2	1.17	36.9	3.7
GA 2012141	1141	44.1	85.2	1.15	33.9	3.7
DP 1614 B2XF	1025	44.4	83.3	1.10	31.9	3.5
BRS 286	998	40.1	83.1	1.08	34.9	3.5
BRS 335	962	41.5	83.1	1.10	31.2	3.5
Average	1235	42.8	83.7	1.1	32.3	3.5
LSD at 10% Level	158	0.8	1.2	0.04	2.0	0.1
CV %	10.8	1.6	0.8	2.30	3.6	2.3

\* 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 3, 2016.

Harvested: October 5, 2016.

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

Soil Type: Madison A and B.

Soil Test: P = Very High, K = High, and pH = 6.2.

Fertilization: 39 lb N, 78 lb P<sub>2</sub>O<sub>5</sub>, and 78 lb K<sub>2</sub>O/acre. Sidedress: 94 lb N/acre.

Previous Crop: Fallow.

Management: Disked and rototilled; Glyphosate used for burndown; Prowl, Reflex, Cotoran, Staple, Poast, Diuron, MSMA, and Envoke used for weed control; Folex and Clean Pik used for defoliant; Super Boll and Response used for boll openers; Acephate used for insect control.

	May	June	July	Aug.	Sept.
Rainfall (in):	0.82	5.92	2.20	1.70	1.30

Trials conducted by H. Jordan Jr., G. Ware, and K. Roach.

## Midville, Georgia: Dryland Earlier Maturity Cotton Variety Performance, 2016

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
PHY 312 WRF	<b>1172</b>	42.3	82.2	1.13	31.1	3.7
BRS 335	<b>1154</b>	41.0	83.1	1.16	33.3	3.7
PHY 333 WRF	<b>1106</b>	42.8	83.7	1.17	33.2	3.8
PHY 444 WRF	<b>1097</b>	44.7	84.0	1.21	35.1	3.9
DG 3526 B2XF	<b>1093</b>	44.3	81.5	1.07	29.3	3.4
GA 2012082	<b>1093</b>	41.2	82.7	1.11	31.0	3.6
DG 2615 B2RF	<b>1068</b>	41.7	83.9	1.15	35.4	3.7
DG CT15634 B2RF	1025	42.8	82.7	1.09	30.7	3.5
PHY 487 WRF	1012	40.4	80.4	1.05	28.0	3.4
DP 1522 B2XF	1008	41.0	83.8	1.13	31.9	3.6
NG 3406 B2XF	1000	40.3	82.7	1.11	30.4	3.6
GA 2011113	996	41.1	83.5	1.13	33.8	3.7
MON 15R513B2XF	979	40.5	83.9	1.13	33.3	3.7
GA 2012141	971	40.4	83.2	1.17	33.7	3.8
SSG HQ 212 CT	968	38.2	82.4	1.10	31.9	3.5
SSG UA 222	953	38.4	84.5	1.17	34.1	3.7
BRS 286	946	39.7	82.8	1.14	34.3	3.7
PHY 499 WRF	920	39.6	83.9	1.09	34.7	3.5
NG 3522 B2XF	916	40.5	81.9	1.05	28.4	3.4
DP 1614 B2XF	913	42.0	82.5	1.11	32.8	3.6
GA 2012050	868	38.6	84.9	1.17	34.5	3.8
SSG HQ 210 CT	864	36.9	81.7	1.05	30.9	3.4
Average	1006	40.8	83	1.12	32.3	3.6
LSD at 10% Level	121	1.4	1.2	0.03	1.7	0.1
CV %	10.2	2.9	0.9	1.74	3.1	1.9

\* 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.
Rainfall (in):	4.22	3.95	6.20	3.88	4.88

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

## Plains, Georgia: Dryland Earlier Maturity Cotton Strains Performance, 2016

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DG 2615 B2RF	<b>1267</b>	42.8	82.5	1.17	33.2	5.1
PHY 499 WRF	<b>1237</b>	41.4	83.4	1.11	31.6	5.0
PHY 444 WRF	<b>1212</b>	42.0	84.1	1.22	32.9	4.3
BRS 335	<b>1192</b>	39.2	81.9	1.14	31.0	4.6
DG CT15634 B2RF	<b>1146</b>	45.0	82.0	1.05	27.6	4.8
PHY 487 WRF	<b>1146</b>	41.1	80.7	1.08	29.9	5.3
BRS 286	<b>1136</b>	39.7	81.9	1.13	32.8	4.6
SSG HQ 212 CT	1098	37.1	81.6	1.10	31.9	5.0
DP 1614 B2XF	1092	43.0	83.0	1.17	30.1	5.3
SSG UA 222	1077	40.0	83.1	1.15	30.4	5.1
DP 1522 B2XF	1076	41.7	82.3	1.08	29.5	4.8
PHY 312 WRF	1065	43.6	82.9	1.09	30.4	4.8
GA 2012050	1045	39.5	83.8	1.13	33.0	4.5
MON 15R513B2XF	1033	39.6	83.6	1.14	30.2	5.0
NG 3406 B2XF	1009	42.2	82.5	1.07	27.3	4.7
PHY 333 WRF	1008	43.2	82.4	1.11	30.8	4.7
GA 2012082	1005	40.5	82.2	1.11	29.1	5.0
SSG HQ 210 CT	981	37.5	82.5	1.09	31.8	4.8
DG 3526 B2XF	971	41.8	82.4	1.07	28.9	4.6
GA 2011113	932	42.2	83.8	1.18	32.9	4.9
NG 3522 B2XF	906	40.3	81.6	1.08	26.8	4.8
GA 2012141	821	41.6	83.7	1.17	32.3	4.9
Average	1066	41.1	82.6	1.12	30.6	4.8
LSD at 10% Level	133	0.9	1.2	0.04	1.5	0.4
CV %	10.6	1.9	0.9	1.82	2.9	4.2

\* 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.

**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 18, 2016.

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

Soil Type: Greenville sandy loam.

Soil Test: P = Medium, K = High, and pH = 6.2.

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: 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.

	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: Dryland Earlier Maturity Cotton Variety Performance, 2016

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire*
			Index* %	Length* inches		
PHY 444 WRF	<b>1242</b>	44.9	84.9	1.17	33.7	3.8
SSG HQ 212 CT	963	40.6	82.1	1.06	32.5	3.4
DG 2615 B2RF	926	43.9	82.0	1.13	32.0	3.6
PHY 499 WRF	819	43.8	84.1	1.07	34.4	3.5
PHY 333 WRF	809	44.2	84.5	1.14	32.9	3.7
PHY 312 WRF	803	43.3	84.1	1.10	32.6	3.6
DG 3526 B2XF	800	47.7	83.6	1.07	30.1	3.5
SSG HQ 210 CT	794	40.5	81.6	1.06	32.7	3.4
GA 2012082	767	42.3	84.0	1.09	31.5	3.5
BRS 286	761	41.8	81.3	1.04	31.8	3.3
NG 3522 B2XF	747	44.2	82.3	1.03	28.2	3.3
NG 3406 B2XF	733	43.6	83.4	1.07	30.7	3.4
PHY 487 WRF	729	43.9	82.1	1.04	29.4	3.4
BRS 335	704	41.0	82.5	1.13	31.8	3.6
DG CT15634 B2RF	694	45.0	82.5	1.06	29.5	3.4
SSG UA 222	692	41.1	83.3	1.15	31.9	3.7
GA 2012050	672	39.6	83.8	1.13	36.5	3.6
GA 2011113	596	42.5	83.9	1.08	32.6	3.5
DP 1522 B2XF	582	42.6	84.0	1.09	32.5	3.5
MON 15R513B2XF	535	41.5	82.0	1.09	30.0	3.5
GA 2012141	531	41.8	84.0	1.17	34.4	3.8
DP 1614 B2XF	507	44.5	84.2	1.13	33.1	3.7
Average	746	42.9	83.2	1.10	32.0	3.5
LSD at 10% Level	166	1.1	1.4	0.05	2.0	0.2
CV %	19.0	2.1	1.0	2.52	3.7	2.8

\* 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 2, 2016.

Harvested: September 28, 2016.

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

Soil Type: Tifton sandy loam.

Soil Test: P =Low, K = Medium, and pH = 6.7.

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.
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 Dryland Earlier Maturity Cotton Varieties, 2016

Variety	Lint Yield <sup>a</sup>				4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains lb/acre	Tifton						
PHY 444 WRF	<b>1518</b> <sup>1</sup>	<b>1097</b> <sup>4</sup>	<b>1212</b> <sup>3</sup>	<b>1242</b> <sup>1</sup>	<b>1267</b> <sup>1</sup>	44.2	84.5	1.19	34.0	3.9
DG 2615 B2RF	<b>1482</b> <sup>2</sup>	<b>1068</b> <sup>6</sup>	<b>1267</b> <sup>1</sup>	926 <sup>3</sup>	<b>1186</b> <sup>2</sup>	43.3	83.2	1.15	33.4	4.0
SSG HQ 212 CT	1299 <sup>7</sup>	968 <sup>14</sup>	1098 <sup>7</sup>	962 <sup>2</sup>	1082 <sup>3</sup>	39.0	82.4	1.08	32.4	3.8
PHY 499 WRF	1326 <sup>4</sup>	920 <sup>17</sup>	<b>1237</b> <sup>2</sup>	818 <sup>4</sup>	1075 <sup>4</sup>	42.1	83.6	1.08	33.4	3.8
PHY 333 WRF	1305 <sup>6</sup>	<b>1106</b> <sup>3</sup>	1008 <sup>15</sup>	809 <sup>5</sup>	1057 <sup>5</sup>	43.9	83.5	1.13	32.0	3.9
PHY 312 WRF	1162 <sup>15</sup>	<b>1172</b> <sup>1</sup>	1065 <sup>11</sup>	803 <sup>6</sup>	1050 <sup>6</sup>	43.2	83.4	1.10	31.6	3.9
DG CT15634 B2RF	1332 <sup>3</sup>	1025 <sup>7</sup>	<b>1146</b> <sup>5T</sup>	694 <sup>15</sup>	1049 <sup>7</sup>	44.3	82.7	1.08	29.6	3.8
PHY 487 WRF	1294 <sup>10</sup>	1012 <sup>8</sup>	<b>1146</b> <sup>5T</sup>	729 <sup>13</sup>	1045 <sup>8</sup>	41.9	81.6	1.06	29.3	3.9
DG 3526 B2XF	1239 <sup>12</sup>	<b>1093</b> <sup>5T</sup>	971 <sup>18</sup>	800 <sup>7</sup>	1026 <sup>9</sup>	44.9	82.8	1.07	29.5	3.7
GA 2012082	1213 <sup>14</sup>	<b>1093</b> <sup>5T</sup>	1005 <sup>16</sup>	767 <sup>9</sup>	1020 <sup>10</sup>	41.8	83.2	1.11	31.3	3.9
SSG UA 222	1296 <sup>9</sup>	953 <sup>15</sup>	1077 <sup>9</sup>	692 <sup>16</sup>	1004 <sup>11</sup>	40.0	83.7	1.15	32.4	4.0
BRS 335	962 <sup>22</sup>	<b>1154</b> <sup>2</sup>	<b>1192</b> <sup>4</sup>	704 <sup>14</sup>	1003 <sup>12</sup>	40.7	82.6	1.13	31.8	3.9
NG 3406 B2XF	1222 <sup>13</sup>	1000 <sup>10</sup>	1009 <sup>14</sup>	733 <sup>12</sup>	991 <sup>13T</sup>	42.4	82.9	1.08	29.9	3.8
DP 1522 B2XF	1297 <sup>8</sup>	1008 <sup>9</sup>	1076 <sup>10</sup>	582 <sup>19</sup>	991 <sup>13T</sup>	41.9	83.1	1.09	31.2	3.8
SSG HQ 210 CT	1268 <sup>11</sup>	864 <sup>21</sup>	981 <sup>17</sup>	794 <sup>8</sup>	977 <sup>14</sup>	38.9	82.2	1.07	32.1	3.8
GA 2011113	1319 <sup>5</sup>	996 <sup>11</sup>	932 <sup>19</sup>	596 <sup>18</sup>	961 <sup>15</sup>	42.1	83.8	1.12	33.1	3.9
BRS 286	998 <sup>21</sup>	946 <sup>16</sup>	<b>1136</b> <sup>6</sup>	761 <sup>10</sup>	960 <sup>16</sup>	40.3	82.3	1.09	33.4	3.7
GA 2012050	1149 <sup>18/</sup>	868 <sup>20</sup>	1045 <sup>12</sup>	672 <sup>17</sup>	934 <sup>17</sup>	39.8	84.4	1.15	35.2	3.9
NG 3522 B2XF	1153 <sup>17</sup>	916 <sup>18</sup>	906 <sup>20</sup>	747 <sup>11</sup>	930 <sup>18</sup>	41.9	81.9	1.05	27.8	3.7
MON 15R513B2XF	1159 <sup>16</sup>	979 <sup>12</sup>	1033 <sup>13</sup>	535 <sup>20</sup>	927 <sup>19</sup>	40.8	83.3	1.12	31.3	3.9
DP 1614 B2XF	1025 <sup>20</sup>	913 <sup>19</sup>	1092 <sup>8</sup>	507 <sup>22</sup>	884 <sup>20</sup>	43.5	83.2	1.12	31.9	4.0
GA 2012141	1141 <sup>19</sup>	971 <sup>13</sup>	821 <sup>21</sup>	531 <sup>21</sup>	866 <sup>21</sup>	42.0	84.0	1.16	33.5	4.0
Average	1235	1006	1066	746	1013	41.9	83.1	1.11	31.8	3.9
LSD at 10% Level	158	121	133	166	121	1.0	0.8	0.02	1.2	0.2
CV %	10.8	10.2	10.6	19	12.1	2.2	0.9	2.10	3.3	3.1

<sup>a</sup> 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 Dryland Earlier Maturity Cotton Varieties at Four Locations<sup>1</sup>, 2015-2016

Variety	Lint Yield lb/acre	Lint %	Uniformity		Length inches	Strength g/tex	Micronaire units
			Index %				
PHY 444 WRF	<b>1094</b>	45.0	83.9		1.18	32.3	4.1
DG 2615 B2RF	<b>1066</b>	43.7	82.8		1.15	32.4	4.5
PHY 499 WRF	1006	43.6	83.2		1.08	32.2	4.4
PHY 487 WRF	992	42.9	81.6		1.07	28.7	4.6
PHY 312 WRF	972	44.2	83.3		1.12	30.9	4.3
SSG UA 222	967	41.2	83.1		1.14	31.1	4.5
DP 1522 B2XF	948	42.9	82.5		1.11	30.4	4.4
PHY 333 WRF	946	44.4	83.3		1.13	30.9	4.3
BRS 335	944	41.4	82.3		1.12	30.8	4.3
SSG HQ 212 CT	936	40.2	82.0		1.09	31.5	4.5
MON 15R513B2XF	935	42.2	83.0		1.13	30.1	4.5
DP 1614 B2XF	884	44.4	83.4		1.14	31.1	4.6
NG 3406 B2XF	876	43.2	82.5		1.09	29.1	4.3
SSG HQ 210 CT	841	39.3	82.0		1.08	31.2	4.3
Average	958	42.7	82.8		1.12	30.9	4.4
LSD at 10% Level	56	0.4	0.5		0.01	0.6	0.1
CV %	14.2	2.3	1.1		2.30	3.6	4.3

1. Athens, Midville, Plains, and Tifton.

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