

Athens, Georgia: Dryland Later Maturity Cotton Variety Performance, 2012

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire* units
			Index* %			
DG2610 B2RF	1287	47.2	83.4	1.15	29.2	5.2
PHY 499 WRF	1270	47.0	83.0	1.11	30.8	5.3
GA2007095	1246	45.1	83.7	1.16	30.6	5.1
CG 3787 B2RF	1218	50.8	84.7	1.16	28.8	4.9
DP 1050 B2RF	1216	48.0	83.3	1.15	27.9	4.9
DP 1137 B2RF	1206	46.9	83.5	1.12	29.3	5.2
DP 1034 B2RF	1200	48.6	82.4	1.11	27.1	5.2
PX 5322-11 WRF	1186	44.3	84.2	1.19	28.7	4.8
GA2004230	1164	44.5	83.9	1.24	32.2	5.0
NGX0012B2RF	1157	47.2	83.9	1.16	28.1	5.2
BX1348GLB2	1156	44.5	81.9	1.20	31.3	5.2
DP 1048 B2RF	1154	48.2	84.6	1.16	28.5	5.1
DP 1252 B2RF	1135	47.2	84.3	1.16	27.6	5.0
NG 1511 B2RF	1070	46.7	83.5	1.16	30.9	5.1
MON 11R154B2R2	1016	41.9	83.4	1.17	33.7	5.0
DP 1359 B2RF	1014	45.5	82.7	1.18	31.7	5.0
MON 11R136B2R2	1012	46.6	83.2	1.21	31.7	4.6
PHY 375 WRF	1011	46.8	82.7	1.13	29.0	5.1
PHY 440 W	994	45.3	83.7	1.13	31.4	5.1
All-Tex Nitro 44 B2RF	940	44.8	83.9	1.19	32.9	4.5
SSG CT310 HQ	938	41.8	84.5	1.15	33.7	5.2
GA2008083	936	44.9	82.4	1.13	32.0	5.1
PHY 565 WRF	935	44.4	82.3	1.13	31.0	5.3
Average	1107	46.0	83.4	1.16	30.3	5.0
LSD 0.10	137	1.8	1.1	0.04	1.3	0.3
CV %	10.5	3.2	0.7	2.31	2.5	3.8

* A random quality sample was taken on the picker during cotton harvest and to determine percent lint fractions plot seed cotton was processed through a small gin in gin house on the UGA Tifton Campus.

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

Planted: May 3, 2012.

Harvested: October 9, 2012.

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

Soil Type: Cecil sandy clay loam.

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

Fertilization: 80 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Soybeans.

Management: Disked, subsoiled, and strip tilled; Treflan, Reflex, and Cotoran used for weed control; Temik used for insect control.

	May	June	July	Aug.	Sept.	Oct.
Rainfall (in):	2.47	1.90	3.63	4.49	2.70	1.91

Trials conducted by J. Gassett, G. Ware, J. Griffin, B. Baerne, and L. Thompson.

Midville, Georgia: Dryland Later Maturity Cotton Variety Performance, 2012

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire* units
			Index* %	Length* inches		
PHY 499 WRF	2325	43.5	84.3	1.20	30.4	4.3
DP 1137 B2RF	2105	45.0	85.2	1.18	26.9	4.8
DP 1252 B2RF	2103	45.3	85.1	1.20	27.5	4.3
PX 5322-11 WRF	2061	40.7	84.6	1.26	28.3	4.1
NGX0012B2RF	2027	43.3	84.6	1.20	28.2	4.2
DP 1050 B2RF	2012	44.3	84.5	1.22	27.6	4.2
BX1348GLB2	2011	40.4	85.1	1.28	30.7	3.9
GA2004230	2010	40.5	85.3	1.28	31.5	4.3
DG2610 B2RF	1995	44.3	84.6	1.19	26.8	4.5
CG 3787 B2RF	1961	43.3	85.6	1.23	27.4	4.1
DP 1048 B2RF	1927	44.9	84.8	1.24	28.2	4.2
MON 11R154B2R2	1847	41.0	84.7	1.23	33.9	3.9
PHY 565 WRF	1789	39.5	84.4	1.22	31.5	4.2
NG 1511 B2RF	1786	43.0	85.2	1.19	29.3	4.6
MON 11R136B2R2	1753	40.9	87.2	1.31	32.8	4.2
PHY 375 WRF	1751	42.2	84.2	1.18	27.4	3.7
PHY 440 W	1711	40.2	85.1	1.17	29.6	4.2
GA2007095	1704	41.2	84.7	1.22	29.3	3.9
DP 1359 B2RF	1680	42.5	83.7	1.21	32.8	4.1
GA2008083	1603	40.0	83.5	1.18	30.7	4.0
DP 1034 B2RF	1585	41.5	85.5	1.21	29.4	4.1
All-Tex Nitro 44 B2RF	1493	39.8	85.9	1.28	31.9	3.9
SSG CT310 HQ	1241	37.8	84.4	1.16	32.2	4.3
Average	1847	41.9	84.9	1.22	29.7	4.1
LSD 0.10	204	1.3	N.S. ¹	0.03	2.0	N.S.
CV %	9.4	2.6	1.1	1.57	3.8	7.7

* A random quality sample was taken on the picker during cotton harvest and to determine percent lint fractions plot seed cotton was processed through a small gin in gin house on the UGA Tifton Campus.

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 8, 2012.

Harvested: October 26, 2012.

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

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 5.9.

Fertilization: 30 lb N, 46 lb P₂O₅, and 60 lb K₂O/acre. Sidedress: 65 lb N/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled, and bedded; Prowl, Reflex, MSMA, Diuron, Envoke, and Volunteer used for weed control; Temik, Bidrin, Belt, Asana, and Deltamethrin used for insect control; Telone II used for nematode control.

	May	June	July	Aug.	Sept.	Oct.
Rainfall (in):	6.15	5.83	3.50	8.10	2.00	0

Trials conducted by A. Coy, R. Brooke, D. Dunn, K. Cobb, and R. Milton.

Plains, Georgia: Dryland Later Maturity Cotton Variety Performance, 2012

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire* units
			Index* %	Length* inches		
DP 1252 B2RF	705	47.8	83.8	1.14	26.9	5.1
PHY 440 W	637	46.1	83.0	1.11	29.4	4.9
DP 1034 B2RF	622	47.8	82.6	1.07	27.8	5.3
DG2610 B2RF	589	45.4	82.7	1.17	31.8	4.6
All-Tex Nitro 44 B2RF	584	48.2	82.6	1.13	26.1	5.2
PHY 565 WRF	563	46.4	81.9	1.12	27.4	5.2
PHY 375 WRF	556	46.7	82.8	1.15	29.4	5.0
DP 1050 B2RF	549	44.1	82.2	1.09	31.5	5.4
SSG CT310 HQ	547	45.4	82.1	1.11	27.2	5.1
MON 11R136B2R2	539	44.4	82.8	1.16	31.2	5.0
GA2007095	534	44.1	81.5	1.22	29.0	4.9
NGX0012B2RF	532	44.1	83.3	1.19	27.2	5.0
BX1348GLB2	519	45.0	82.7	1.12	25.9	4.8
PHY 499 WRF	516	45.5	82.8	1.15	29.1	4.9
GA2008083	514	44.2	82.9	1.11	29.9	5.2
DP 1137 B2RF	508	46.9	80.9	1.13	27.9	5.2
MON 11R154B2R2	506	45.8	83.1	1.15	27.5	5.2
NG 1511 B2RF	502	45.8	82.3	1.13	30.6	4.7
CG 3787 B2RF	488	44.2	82.7	1.12	28.8	5.1
DP 1359 B2RF	486	46.2	81.9	1.08	31.4	5.0
GA2004230	484	44.8	83.1	1.15	29.2	4.8
PX 5322-11 WRF	484	43.6	83.3	1.19	30.4	4.8
DP 1048 B2RF	482	45.1	83.1	1.14	31.1	5.2
Average	541	45.5	82.6	1.13	29.0	5.0
LSD 0.10	97	1.6	N.S. ¹	0.06	3.2	N.S.
CV %	15.2	3.0	1.2	2.99	6.5	7.3

* A random quality sample was taken on the picker during cotton harvest and to determine percent lint fractions plot seed cotton was processed through a small gin in gin house on the UGA Tifton Campus.

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 2, 2012.

Harvested: October 17, 2012.

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

Soil Type: Greenville sandy loam.

Soil Test: P = Medium, K = High, and pH = 6.3.

Fertilization: 21 lb N, 60 lb P₂O₅, and 60 lb K₂O/acre. Sidedress: 80 lb N/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled, and bedded; Treflan, Reflex, Diuron, Staple, and MSMA used for weed control; Orthene, Bidrin, Mustang Max, Baythroid, and Discipline used for insect

	May	June	July	Aug.	Sept.	Oct.
Rainfall (in):	1.36	3.49	3.91	2.28	3.64	1.50

Trials conducted by A. Coy, R. Brooke, D. Dunn, R. Pines, W. Jones, D. Pearce, and L. Thompson.

Tifton, Georgia: Dryland Later Maturity Cotton Variety Performance, 2012

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire* units
			Index* %	Length* inches		
CG 3787 B2RF	1279	48.0	84.1	1.13	27.4	5.3
PHY 499 WRF	1235	46.4	84.6	1.10	30.1	5.4
BX1348GLB2	1178	44.2	84.4	1.20	30.4	5.4
PHY 565 WRF	1107	44.3	84.5	1.13	32.1	5.3
DP 1359 B2RF	1078	45.5	82.7	1.15	31.6	5.4
DP 1050 B2RF	1043	46.8	83.3	1.14	28.1	5.2
PX 5322-11 WRF	1001	43.1	84.5	1.17	28.4	4.9
MON 11R136B2R2	988	42.7	84.7	1.21	32.7	5.1
NGX0012B2RF	958	47.0	84.8	1.12	27.3	5.4
GA2008083	951	46.1	83.7	1.09	31.2	5.3
DG2610 B2RF	943	46.3	84.3	1.15	28.0	5.1
DP 1252 B2RF	899	47.4	85.0	1.15	28.1	5.2
GA2004230	896	43.7	84.4	1.17	30.4	5.0
GA2007095	893	43.0	83.4	1.16	30.4	5.2
DP 1048 B2RF	889	45.8	83.8	1.15	27.5	5.1
SSG CT310 HQ	869	40.3	83.9	1.14	34.7	5.3
PHY 375 WRF	860	43.8	83.0	1.12	29.6	4.9
DP 1137 B2RF	835	46.8	84.1	1.14	27.5	5.3
DP 1034 B2RF	803	47.1	85.6	1.17	28.1	5.1
MON 11R154B2R2	790	44.5	84.1	1.17	32.4	5.2
PHY 440 W	728	44.0	83.2	1.09	32.2	5.2
NG 1511 B2RF	674	46.1	83.1	1.11	30.3	5.3
All-Tex Nitro 44 B2RF	610	44.3	85.0	1.20	32.6	4.8
Average	935	45.1	84.1	1.14	30.0	5.2
LSD 0.10	200	1.6	N.S. ¹	0.04	1.7	0.3
CV %	18.1	1.0	1.2	1.88	3.3	3.0

* A random quality sample was taken on the picker during cotton harvest and to determine percent lint fractions plot seed cotton was processed through a small gin in gin house on the UGA Tifton Campus.

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 1, 2012.

Harvested: September 28, 2012.

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

Soil Type: Tifton loam.

Soil Test: P = Medium, K = Medium, and pH = 5.9.

Fertilization: 18 lb N, 54 lb P₂O₅, and 108 lb K₂O/acre. Sidedress: 80 lb N and 60 lb K₂O/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled and bedded; Prowl, Cotoran and Reflex used for weed control; Bidrin and Tracer used for insect control; Temik applied 5 lb/acre.

Rainfall (in):	April	May	June	July	Aug.	Sept.	Oct.
	1.13	3.20	4.61	3.20	9.95	2.21	2.48

Trials conducted by A. Coy, R. Brooke, D. Dunn, S. Willis and Larry Thompson.

Yield Summary of Dryland Later Maturity Cotton Varieties, 2012

Variety	Lint Yield ^a				4-Loc. Average	Lint %	Unif. Index %	Length in	Strength g/tex	Mic. units
	Athens	Midville	Plains	Tifton						
PHY 499 WRF	1270 ²	2325 ¹	516 ¹⁴	1235 ²	1337 ¹	45.6	83.6	1.14	30.1	5.0
CG 3787 B2RF	1218 ⁴	1961 ¹⁰	488 ¹⁹	1279 ¹	1236 ²	46.6	84.3	1.16	28.1	4.8
BX1348GLB2	1156 ¹¹	2011 ⁷	519 ¹³	1178 ³	1216 ³	43.5	83.5	1.20	29.6	4.8
DP 1252 B2RF	1135 ¹³	2103 ³	705 ¹	899 ¹²	1210 ⁴	46.9	84.5	1.16	27.5	4.9
DP 1050 B2RF	1216 ⁵	2012 ⁶	549 ⁸	1043 ⁶	1205 ⁵	45.8	83.3	1.15	28.8	4.9
DG2610 B2RF	1287 ¹	1995 ⁹	589 ⁴	943 ¹¹	1204 ⁶	45.8	83.7	1.16	28.9	4.8
PX 5322-11 WRF	1186 ⁸	2061 ⁴	484 ^{21T}	1001 ⁷	1183 ⁷	42.9	84.1	1.20	28.9	4.6
NGX0012B2RF	1157 ¹⁰	2027 ⁵	532 ¹²	958 ⁹	1168 ⁸	45.4	84.2	1.16	27.7	4.9
DP 1137 B2RF	1206 ⁶	2105 ²	508 ¹⁶	835 ¹⁸	1163 ⁹	46.4	83.4	1.14	27.9	5.1
GA2004230	1164 ⁹	2010 ⁸	484 ^{21T}	896 ¹³	1139 ¹⁰	43.4	84.2	1.21	30.8	4.7
DP 1048 B2RF	1154 ¹²	1927 ¹¹	482 ²²	889 ¹⁵	1113 ¹¹	46.0	84.1	1.17	28.8	4.9
PHY 565 WRF	935 ²³	1789 ¹³	563 ⁶	1107 ⁴	1099 ¹²	43.6	83.3	1.15	30.5	5.0
GA2007095	1246 ³	1704 ¹⁸	534 ¹¹	893 ¹⁴	1094 ¹³	43.3	83.3	1.19	29.8	4.7
MON 11R136B2R2	1012 ¹⁷	1753 ¹⁵	539 ¹⁰	988 ⁸	1073 ¹⁴	43.7	84.5	1.22	32.1	4.7
DP 1359 B2RF	1014 ¹⁶	1680 ¹⁹	486 ²⁰	1078 ⁵	1064 ¹⁵	44.9	82.7	1.15	31.8	4.9
DP 1034 B2RF	1200 ⁷	1585 ²¹	622 ³	803 ¹⁹	1053 ¹⁶	46.2	84.0	1.14	28.1	4.9
PHY 375 WRF	1011 ¹⁸	1751 ¹⁶	556 ⁷	860 ¹⁷	1044 ¹⁷	44.9	83.2	1.14	28.8	4.7
MON 11R154B2R2	1016 ¹⁵	1847 ¹²	506 ¹⁷	790 ²⁰	1040 ¹⁸	43.3	83.8	1.18	31.9	4.8
PHY 440 W	994 ¹⁹	1711 ¹⁷	637 ²	728 ²¹	1018 ¹⁹	43.9	83.7	1.12	30.6	4.8
NG 1511 B2RF	1070 ¹⁴	1786 ¹⁴	502 ¹⁸	674 ²²	1008 ²⁰	45.4	83.5	1.15	30.3	4.9
GA2008083	936 ²²	1603 ²⁰	514 ¹⁵	951 ¹⁰	1001 ²¹	43.8	83.1	1.13	30.9	4.9
All-Tex Nitro 44 B2RF	940 ²⁰	1493 ²²	584 ⁵	610 ²³	907 ²²	44.2	84.3	1.20	30.9	4.6
SSG CT310 HQ	938 ²¹	1241 ²³	547 ⁹	869 ¹⁶	899 ²³	41.3	83.7	1.14	31.9	4.9
Average	1107	1847	541	935	1108	44.6	83.7	1.16	29.8	4.8
LSD 0.10	222	188	225	171	152	0.8	0.7	0.02	0.8	0.2
CV %	11.5	7.8	10.9	7.6	9.4	1.7	1.2	1.93	3.9	4.8

^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 of Dryland Later Maturity Cotton Varieties at Four Locations^a, 2010-2012

Variety	Lint Yield lb/acre	Lint %	Uniformity		Length inches	Strength g/tex	Micronaire units
			Index %				
PHY 499 WRF	1360	46.1	83.6		1.12	30.7	4.7
DP 1050 B2RF	1224	45.7	83.3		1.13	27.9	4.7
DP 1137 B2RF	1211	45.8	83.7		1.13	28.2	4.9
DP 1252 B2RF	1190	46.7	84.1		1.14	27.8	4.7
DP 1048 B2RF	1171	45.7	83.8		1.14	28.4	4.6
NG 1511 B2RF	1134	45.4	83.5		1.12	30.1	4.7
DP 1034 B2RF	1120	45.6	83.7		1.13	27.7	4.6
GA2004230	1104	42.7	83.8		1.19	30.4	4.5
PHY 565 WRF	1081	42.6	83.3		1.13	30.3	4.5
GA2007095	1073	42.5	83.3		1.16	29.8	4.5
PHY 375 WRF	1056	44.5	83.0		1.12	28.3	4.4
PHY 440 W	1029	43.0	83.7		1.11	30.8	4.5
GA2008083	955	44.7	82.8		1.11	31.3	4.7
Average	1131	44.7	83.5		1.13	29.4	4.6
LSD 0.10	62	0.4	0.5		0.02	0.7	0.1
CV %	13.3	2.3	1.1		2.37	4.3	5.0

^a Athens, Midville, Plains, and Tifton.

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