

Midville, Georgia: Cotton Strains Performance, 2014, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire*
			Index* %	Length* inches		
DG CT14515	2757	48.0	83.3	1.18	31.9	4.2
PX559001WRF	2506	47.4	82.7	1.16	32.1	4.4
GA 2011124	2477	46.8	83.7	1.15	30.0	4.9
PX3003-14WRF	2465	43.6	83.3	1.15	29.8	4.1
PX559006WRF	2427	43.9	83.3	1.19	31.8	3.9
PX453915WRF	2408	41.6	84.4	1.22	32.7	3.9
GA 2011158	2403	43.7	84.5	1.20	32.1	4.2
GA 2011004	2263	45.9	85.1	1.23	31.4	4.5
PX565215WRF	2262	42.8	83.5	1.19	31.4	4.0
PX453318WRF	2239	42.0	82.9	1.17	29.4	4.3
GA 2012073	2224	44.3	84.3	1.21	33.4	4.3
GA 2012031	2172	45.9	84.2	1.18	30.8	4.1
Average	2384	44.7	83.7	1.20	31.4	4.2
LSD 0.10	186	1.6	0.8	0.02	N.S. ¹	0.4
CV %	6.5	3.0	0.5	1.10	1.3	5.9

* A random sample was taken on the picker during harvest and ginned in a small gin in the gin house on the UGA Tifton Campus to determine percent lint fraction. A lint sample was sent to the USDA classing office in Macon, GA, 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 14, 2014.

Harvested: October 21, 2014.

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

Soil Type: Tifton loamy sand.

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

Fertilization: 30 lb N, 40 lb P₂O₅, and 70 lb K₂O/acre. Sidedress: 80 lb N/acre.

Previous Crop: Corn.

Management: Disked, subsoiled, and bedded; Acumen, Reflex, Prowl, Staple, Warrant, Acephate, Layby Pro, and MSMA used for weed control; Bidrin and Prevathon used for insect control; Telone II used for nematode control.

	May	June	July	Aug.	Sept.	Oct.
Irrigation (in):	0.00	1.50	3.50	3.75	0.50	0.00
Rainfall (in):	9.21	2.98	5.95	2.58	3.73	0.33

Trials conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Plains, Georgia: Cotton Strains Performance, 2014, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity		Strength* g/tex	Micronaire*
			Index* %	Length* inches		
PX3003-14WRF	1588	43.5	81.6	1.11	29.9	4.8
PX565215WRF	1586	44.4	83.4	1.16	31.5	4.3
PX559001WRF	1535	44.0	82.6	1.13	32.1	4.3
GA 2011124	1526	44.0	82.0	1.13	31.8	4.9
GA 2012031	1505	45.3	82.0	1.11	30.4	4.8
PX453318WRF	1500	44.5	84.2	1.16	29.2	4.8
PX559006WRF	1497	43.1	81.6	1.14	29.5	4.2
PX453915WRF	1462	41.7	83.4	1.20	31.0	4.4
GA 2011158	1439	42.7	83.2	1.09	29.5	5.1
DG CT14515	1313	44.3	82.1	1.15	30.3	4.6
GA 2012073	1269	43.2	83.6	1.17	32.8	4.7
GA 2011004	1245	46.7	83.4	1.17	30.9	4.7
Average	1455	43.9	82.7	1.10	30.7	4.6
LSD 0.10	179	1.1	N.S. ¹	0.05	N.S.	0.3
CV %	10.2	2.1	1.1	2.30	4.1	3.8

* A random sample was taken on the picker during harvest and ginned in a small gin in the gin house on the UGA Tifton Campus to determine percent lint fraction. A lint sample was sent to the USDA classing office in Macon, GA, for quality testing.

- 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 12, 2014.

Harvested: October 28, 2014.

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

Soil Type: Greenville sandy loam.

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

Fertilization: 10 lb N, 25 lb P₂O₅, and 0 lb K₂O/acre. Sidedress: 85 lb N/acre.

Previous Crop: Soybeans.

Management: Disked, chisel plowed, subsoiled, and bedded; Prowl, Reflex, Staple, Diuron, and MSMA used for weed control; Orthene, Bidrin, and Bifenthrin used for insect control; Mepiquat used for PGR.

	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Irrigation (in):	0	0	2.60	2.00	2.00	5.00	0	0	0
Rainfall (in):	3.40	7.91	1.25	1.87	2.70	1.00	2.67	2.85	4.28

Trials conducted by A. Coy, D. Pearce, W. Jones, R. Brooke, D. Dunn, and B. McCranie.

Tifton, Georgia: Cotton Strains Performance, 2014, Irrigated

Variety	Lint Yield lb/acre	Lint* %	Uniformity	Length* inches	Strength* g/tex	Micronaire*
			Index* %			
PX559001WRF	2241	47.5	83.4	1.15	31.7	4.5
PX453915WRF	2189	41.3	85.1	1.22	32.6	4.0
GA 2011124	2171	47.0	83.5	1.13	30.3	4.9
GA 2011004	2162	45.3	84.3	1.19	29.4	5.0
PX453318WRF	2083	45.0	84.3	1.17	30.3	4.4
GA 2012031	2070	44.9	84.6	1.16	31.0	4.4
PX3003-14WRF	1989	42.8	83.3	1.16	29.7	4.3
PX559006WRF	1976	42.9	83.2	1.15	30.9	4.3
PX565215WRF	1970	43.3	85.5	1.21	32.3	4.2
GA 2011158	1960	42.9	84.1	1.17	31.6	4.7
GA 2012073	1784	42.4	84.3	1.21	33.0	4.4
DG CT14515	1767	43.6	83.6	1.19	32.9	4.1
Average	2030	44.1	84.1	1.17	31.3	4.4
LSD 0.10	234	1.1	1.3	0.02	N.S. ¹	0.2
CV %	9.6	2.1	0.8	1.01	4.0	3.2

* A random sample was taken on the picker during harvest and ginned in a small gin in the gin house on the UGA Tifton Campus to determine percent lint fraction. A lint sample was sent to the USDA classing office in Macon, GA, 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, 2014.

Harvested: October 7, 2014.

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

Soil Type: Tifton sandy loam.

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

Fertilization: 18 lb N, 36 lb P₂O₅, and 108 lb K₂O/acre. Sidedress: 75 lb N and 30 lb K₂O/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled, and bedded; Reflex, Cotoran, and Prowl used for weed control; Orthene, Bidrin, and Blackhawk used for insect control.

(Gibbs Farm, Tifton)	May	June	July	Aug.	Sept.
Irrigation (in):	0.50	1.25	1.25	2.25	0.75
Rainfall (in):	6.10	2.96	2.82	3.38	5.93

Trials conducted by A. Coy, S. Willis, R. Brooke, D. Dunn, and B. McCranie.

Yield Summary of Cotton Strains, 2014, Irrigated

Variety	Lint Yield ^a				Lint %	Unif. Index %	Length inches	Strength g/tex	Mic. units
	Midville	Plains	Tifton	3-Loc. Average					
	----- lb/acre -----								
PX559001WRF	2506 ²	1535 ³	2241 ¹	2094 ¹	46.3	82.9	1.15	32.0	4.4
GA 2011124	2477 ³	1526 ⁴	2171 ³	2058 ²	45.9	83.1	1.13	30.7	4.9
PX453915WRF	2408 ⁶	1462 ⁸	2189 ²	2020 ³	41.5	84.3	1.21	32.1	4.1
PX3003-14WRF	2465 ⁴	1588 ¹	1989 ⁷	2014 ⁴	43.3	82.7	1.14	29.8	4.4
PX559006WRF	2427 ⁵	1497 ⁷	1976 ⁸	1967 ⁵	43.3	82.7	1.16	30.7	4.1
DG CT14515	2757 ¹	1313 ¹⁰	1767 ¹²	1946 ⁶	45.3	83.0	1.17	31.7	4.3
PX453318WRF	2239 ¹⁰	1500 ⁶	2083 ⁵	1940 ⁷	43.8	83.8	1.16	29.6	4.5
PX565215WRF	2262 ⁹	1586 ²	1970 ⁹	1939 ⁸	43.5	84.1	1.19	31.7	4.1
GA 2011158	2403 ⁷	1439 ⁹	1960 ¹⁰	1934 ⁹	43.1	83.9	1.15	31.1	4.7
GA 2012031	2172 ¹²	1505 ⁵	2070 ⁶	1916 ¹⁰	45.3	83.6	1.15	30.7	4.4
GA 2011004	2263 ⁸	1245 ¹²	2162 ⁴	1890 ¹¹	46.0	84.3	1.19	30.6	4.7
GA 2012073	2224 ¹¹	1269 ¹¹	1784 ¹¹	1759 ¹²	43.3	84.1	1.19	33.0	4.5
Average	2384	1455	2030	1956	44.2	83.5	1.17	31.1	4.4
LSD 0.10	186	179	218	N.S. ¹	1.7	0.8	0.02	1.1	0.2
CV %	6.5	10.2	10.9	8.6	2.4	0.9	1.55	4.1	4.4

^a Superscripts indicate ranking at that location.

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).