

Table 7. Lint Yield, Gin Turnout, and Fiber Quality of Early-Maturing Cotton Varieties Grown in Lee County at St. Charles, SC, in 2017. Early-Maturity Dryland OVT. M. Jones.

Variety	Lint Yield lb/acre	Gin Turnout %	Fiber Length in.	Fiber Uniformity %	Fiber Strength g/tex	Elongation	Micronaire
PHY 440W3FE	1370	42.2	1.21	84.9	37.5	4.9	4.3
PX 3A99W3FE	1289	41.9	1.14	84.1	33.8	6.1	4.9
PHY 430W3FE ₂	1270	44.0	1.10	83.7	36.0	6.8	4.6
PX 3A82W3FE	1260	40.8	1.13	85.1	37.4	7.7	4.7
PX 5A57W3FE	1246	40.8	1.16	84.9	35.2	6.4	4.3
PHY 480W3FE	1221	42.1	1.13	83.2	34.7	7.4	4.6
DG CPS16228NR	1206	42.4	1.17	84.9	35.5	7.6	4.6
PX 5B76W3FE	1190	41.0	1.15	84.4	35.1	5.7	4.7
DP 1614B2XF	1186	42.4	1.19	84.7	33.3	7.6	5.1
ST 5115GLT	1184	39.9	1.18	84.2	35.2	6.3	4.5
PHY 444WRF	1170	41.3	1.23	86.0	34.1	5.7	4.1
DP 1522B2XF	1164	42.0	1.17	84.3	33.8	8.0	5.2
PX 5B73W3FE	1157	41.5	1.16	84.2	34.6	6.3	4.6
PHY 330W3FE	1144	42.1	1.16	85.6	35.6	5.6	4.7
PX 2A28W3FE	1138	39.6	1.20	84.5	35.5	4.1	4.3
PX 3A96W3FE	1136	40.6	1.15	84.7	34.1	6.5	4.9
ST 5020GLT	1111	40.6	1.21	85.1	35.0	6.4	4.9
PHY 499WRF	1110	41.7	1.16	85.2	37.0	7.1	4.9
ST 4949GLT	1103	43.5	1.14	83.8	33.4	6.5	4.9
NG 3522B2XF	1102	41.9	1.11	82.3	30.4	6.3	4.8
PHY 340W3FE	1091	43.3	1.15	84.1	34.9	6.0	4.7
PHY 490W3FE	1089	41.7	1.15	84.3	38.2	7.3	4.7
NG 3699B2XF	1078	39.8	1.21	84.2	34.7	4.7	4.8
PHY 430W3FE ₁	1068	41.5	1.11	84.3	34.3	6.4	4.7
PHY 450W3FE	1065	40.3	1.13	83.6	39.2	6.7	4.9
PHY 300W3FE	1062	42.9	1.14	83.3	33.9	5.7	4.9
PHY 312WRF	1046	41.8	1.16	85.1	34.5	6.5	4.8
DG 3385B2XF	1041	41.3	1.14	84.1	31.8	8.2	5.0
ST 5517GLT	1027	39.5	1.21	83.9	36.0	5.5	4.4
NG 3406B2XF	928	41.1	1.13	82.6	31.4	7.9	4.8
DP 1725B2XF	916	41.9	1.20	84.7	34.5	5.2	4.7
ST 4848GLT	876	42.7	1.15	83.6	33.4	5.9	4.9
LSD (0.05)	217	1.8	0.03	1.4	1.6	0.7	0.2
C.V. (%)	14	3.1	1.97	1.2	3.2	7.6	3.1
Trial Mean	1126	41.6	1.16	84.3	34.8	6.4	4.7

Bold numbers are not statistically different at the 0.05 level of probability.

^{1,2} PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE₁ AND PX 4A57W3FE₂ in trial

Location: Pete Player Farm, St. Charles, SC

Soil Type: Norfolk Sandy Loam

GPS Coordinates: lat: 34.098206; long: -80.228366

Planted: May 23, 2017

Harvested: November 21, 2017

Table 8. Lint Yield, Gin Turnout, and Fiber Quality of Late-Maturing Cotton Varieties
Grown in Lee County at St. Charles, SC, in 2017. Late-Maturity Dryland OVT. M. Jones.

Variety	Lint Yield	Gin Turnout	Fiber Length	Fiber Uniformity	Fiber Strength	Elongation	Micronaire
	lb/acre	%	in.	%	g/tex		
PHY 480W3FE	1379	42.3	1.14	84.7	33.0	7.9	4.6
PX 3A99W3FE	1364	41.5	1.14	84.0	33.0	6.3	4.8
ST 6182GLT	1337	44.1	1.14	83.7	30.8	6.6	4.7
PX 5B76W3FE	1306	40.8	1.15	84.7	33.7	6.3	4.7
PHY 430W3FE ₁	1299	41.2	1.14	83.4	33.8	6.6	4.5
PHY 430W3FE ₂	1287	43.9	1.09	83.1	34.9	7.1	4.6
PHY 330W3FE	1287	43.2	1.16	84.7	34.0	6.0	4.6
PX 5A57W3FE	1285	40.0	1.15	84.2	33.7	7.1	4.2
MN 16R353B3XF	1271	44.1	1.16	84.0	35.4	7.4	4.8
NG 5007B2XF	1254	40.6	1.14	83.0	29.9	8.1	4.6
PX 3A96W3FE	1252	40.9	1.14	84.7	32.6	7.1	4.8
ST 4949GLT	1245	41.8	1.12	84.7	32.4	6.9	4.6
PX 5B73W3FE	1237	41.0	1.13	83.6	33.8	6.3	4.4
PHY 340W3FE	1222	42.2	1.13	83.9	32.5	6.9	4.8
ST 5020GLT	1209	40.0	1.20	84.8	33.4	6.9	4.9
PX 3A82W3FE	1201	42.3	1.13	84.9	36.3	6.8	4.7
PHY 444WRF	1194	41.2	1.23	85.4	32.7	5.8	4.2
PHY 312WRF	1183	40.5	1.15	84.9	33.7	6.4	4.7
DP 1646B2XF	1159	41.8	1.20	83.2	30.9	7.5	4.6
DP 1639B2XF	1156	42.6	1.12	83.6	33.4	7.3	4.8
CG 9608B3XF	1151	44.3	1.13	83.7	30.7	5.7	4.6
DP 1840B3XF	1150	40.8	1.18	83.5	32.4	7.0	4.4
PHY 499WRF	1145	41.2	1.13	83.2	35.1	7.9	4.9
DP 1851B3XF	1143	41.0	1.16	84.5	35.4	8.1	4.4
ST 5517GLT	1130	37.4	1.18	83.3	33.9	6.1	4.3
ST 5115GLT	1124	38.8	1.14	83.2	33.2	6.8	4.4
DG 3757B2XF	1118	42.1	1.13	83.4	30.4	7.7	4.8
DP 1538B2XF	1104	41.2	1.10	82.6	31.3	7.8	4.8
PHY 490W3FE	1081	42.3	1.13	82.5	36.5	7.5	4.8
PHY 440W3FE	1079	41.7	1.17	83.8	36.9	5.1	4.4
AMX 1711B2XF	1073	40.9	1.20	84.5	33.2	6.9	4.5
CP 3885B2XF	1072	40.9	1.13	84.4	31.4	8.3	4.6
PHY 300W3FE	1051	42.6	1.11	83.9	33.5	6.4	4.7
NG 4601B2XF	1049	40.8	1.17	84.5	34.7	6.4	4.8
PHY 450W3FE	1042	40.8	1.13	83.9	37.2	7.4	5.0
DG 3635B2XF	1023	40.1	1.14	83.3	33.1	6.8	4.9
DG CPS17330	1010	43.9	1.15	83.8	34.7	6.6	4.7
DP 1747NRB2XF	979	42.9	1.13	83.2	34.2	6.3	5.1
DG 3526B2XF	979	40.4	1.13	84.0	32.5	8.8	4.8
DP 1553B2XF	958	41.8	1.15	83.5	31.2	7.9	4.7
PX 2A28W3FE	862	41.4	1.15	82.5	32.8	4.7	4.6
LSD (0.05)	218	2.1	0.04	1.5	1.6	0.8	0.2
C.V. (%)	14	3.7	2.27	1.3	3.4	8.1	3.2
Trial Mean	1134	41.5	1.15	83.8	33.4	6.5	4.6

Bold numbers are not statistically different at the 0.05 level of probability.

^{1,2} PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE₁ AND PX 4A57W3FE₂ in trial

Location: Pete Player Farm, St. Charles, SC

Soil Type: Norfolk Sandy Loam

GPS Coordinates: lat: 34.098159; long: -80.228097

Planted: May 23, 2017

Harvested: November 21, 2017