

Table 1. Lint Yield, Gin Turnout, and Fiber Quality of Early-Maturing Cotton Varieties Grown at PDREC located in Florence, 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	<b>1729</b>	43.8	<b>1.18</b>	<b>84.7</b>	36.2	5.1	4.0
ST 5115GLT	<b>1689</b>	41.2	1.14	83.2	34.8	5.6	4.1
PHY 430W3FE <sub>2</sub>	<b>1679</b>	<b>45.8</b>	1.11	83.4	34.4	6.4	4.3
PHY 480W3FE	<b>1649</b>	43.1	1.13	84.0	33.5	<b>7.3</b>	4.1
SSG UA-222	<b>1621</b>	40.6	<b>1.20</b>	84.1	33.5	6.5	4.4
PHY 499WRF	<b>1601</b>	42.6	1.10	84.0	34.6	7.1	<b>4.7</b>
DP 1614B2XF	<b>1595</b>	44.0	<b>1.20</b>	<b>85.7</b>	32.1	6.5	<b>4.6</b>
PHY 312WRF	<b>1588</b>	42.0	1.17	<b>84.7</b>	33.7	5.6	4.2
PHY 300W3FE	<b>1548</b>	<b>44.9</b>	1.13	83.8	33.3	5.6	4.2
PX 3A96W3FE	<b>1539</b>	42.0	1.16	<b>84.7</b>	34.7	5.5	4.1
PHY 430W3FE <sub>1</sub>	<b>1534</b>	42.9	1.15	<b>85.4</b>	34.3	5.3	4.4
PX 3A82W3FE	<b>1533</b>	43.7	1.14	<b>84.7</b>	<b>37.8</b>	6.6	4.2
PX 3A99W3FE	<b>1530</b>	43.2	1.16	<b>85.2</b>	34.8	5.8	4.4
DG CPS16228NR	<b>1521</b>	44.1	<b>1.19</b>	84.0	34.8	6.6	4.4
PX 5B73W3FE	<b>1515</b>	43.4	1.14	83.4	33.4	5.6	4.1
DP 1725B2XF	1502	44.4	1.15	83.6	32.3	4.9	4.3
ST 5517GLT	1499	41.1	1.14	82.6	35.0	5.2	4.1
PHY 444WRF	1497	43.9	<b>1.20</b>	<b>85.2</b>	33.7	5.4	3.9
ST 5020GLT	1494	40.7	<b>1.18</b>	<b>85.0</b>	34.4	6.1	4.4
NG 3406B2XF	1493	41.8	1.14	83.4	32.6	6.8	4.5
PX 5B76W3FE	1489	42.2	1.16	<b>84.9</b>	34.0	5.5	4.3
PHY 490W3FE	1482	42.6	1.14	<b>85.0</b>	<b>37.0</b>	6.6	4.5
PHY 450W3FE	1459	42.1	1.12	83.2	<b>38.1</b>	6.5	4.5
PX 5A57W3FE	1454	42.8	1.16	<b>84.7</b>	35.7	5.3	4.0
SSG HQ210CT	1449	38.9	1.12	82.6	33.2	5.5	4.4
DG 3385B2XF	1448	42.2	1.14	83.8	32.0	<b>7.3</b>	<b>4.6</b>
ST 4848GLT	1427	42.4	1.15	<b>84.5</b>	33.4	5.8	4.5
PHY 330W3FE	1411	<b>44.6</b>	1.17	<b>84.7</b>	34.4	5.0	4.2
ST 4949GLT	1404	44.4	1.11	82.7	32.0	6.3	4.3
DP 1522B2XF	1401	41.1	1.14	83.0	31.9	<b>7.8</b>	<b>4.7</b>
NG 3522B2XF	1357	41.4	1.08	81.4	29.7	5.5	4.4
PHY 340W3FE	1333	<b>45.3</b>	1.13	82.7	33.1	5.2	4.3
NG 3699B2XF	1291	39.5	<b>1.20</b>	84.0	33.9	4.2	4.4
PX 2A28W3FE	1201	41.6	1.17	82.9	34.9	3.5	4.0
LSD (0.05)	226	1.3	0.03	1.4	1.5	0.6	0.2
C.V. (%)	11	2.1	1.95	1.2	3.1	7.3	4.1
Trial Mean	1499	42.7	1.15	83.9	34.0	5.9	4.3

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

<sub>1,2</sub> PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE<sub>1</sub> AND PX 4A57W3FE<sub>2</sub> in trial

Location: Pee Dee Research & Education Center  
 Soil Type: Norfolk Loamy Sand  
 GPS Coordinates: lat: 34.310866; long: -79.743927  
 Planted: May 9, 2017  
 Harvested: October 19, 2017

Table 2. Lint Yield, Gin Turnout, and Fiber Quality of Late-Maturing Cotton Varieties Grown at PDREC located in Florence, SC, in 2017. Late-Maturity Dryland OVT. M. Jones.

Variety	Lint Yield lb/acre	Gin Turnout %	Fiber Length in.	Fiber Uniformity %	Fiber Strength g/tex	Elongation	Micronaire
DP 1555B2RF	<b>1732</b>	43.6	1.15	83.6	34.0	5.5	4.3
DP 1538B2XF	<b>1690</b>	43.7	1.08	81.2	30.0	7.5	<b>4.6</b>
CG 3885B2XF	<b>1663</b>	43.1	1.12	82.2	31.2	7.3	<b>4.6</b>
DP 1646B2XF	<b>1612</b>	42.8	<b>1.21</b>	84.1	31.1	6.8	4.4
ST 6182GLT	<b>1601</b>	<b>45.6</b>	1.12	82.8	30.7	5.5	<b>4.6</b>
PHY 444WRF	<b>1571</b>	43.5	<b>1.21</b>	<b>85.8</b>	33.7	5.6	3.9
ST 5517GLT	<b>1567</b>	41.8	1.13	81.7	33.3	5.7	4.2
PHY 430W3FE <sub>1</sub>	<b>1561</b>	43.0	1.12	84.1	33.5	6.0	4.3
DP 1639B2XF	<b>1554</b>	42.7	1.13	83.2	34.1	6.9	4.3
DG CPS17330	<b>1553</b>	44.8	1.16	<b>84.4</b>	<b>34.4</b>	6.1	<b>4.7</b>
DP 1553B2XF	<b>1552</b>	43.0	1.16	83.3	31.3	6.8	4.5
PHY 430W3FE <sub>2</sub>	<b>1548</b>	<b>46.6</b>	1.09	83.1	<b>34.2</b>	6.6	4.2
DP 1747NRB2XF	<b>1543</b>	44.5	1.13	82.5	33.1	5.9	<b>4.7</b>
CG 9608B3XF	1531	44.0	1.14	82.7	29.5	5.2	4.2
DP 1840B3XF	1526	42.1	<b>1.18</b>	82.8	32.5	6.0	4.0
AMX 1711B2XF	1505	41.6	1.16	81.7	31.8	6.1	4.2
PX 5B76W3FE	1503	41.9	1.16	<b>84.9</b>	33.1	5.5	4.2
DG 3526B2XF	1493	43.1	1.08	82.5	30.1	<b>8.8</b>	4.5
PHY 499WRF	1491	42.7	1.11	82.7	34.0	7.2	<b>4.7</b>
MN 16R353B3XF	1490	<b>44.8</b>	1.11	82.4	33.7	7.1	4.4
PX 3A82W3FE	1480	43.4	1.15	84.0	<b>34.7</b>	6.5	4.1
PHY 312WRF	1473	41.2	1.15	84.1	32.5	5.9	4.0
NG 4601B2XF	1448	42.3	1.16	83.7	33.4	5.6	4.4
NG 5007B2XF	1426	41.6	1.13	82.6	29.4	7.4	4.4
PHY 490W3FE	1421	41.8	1.15	84.0	<b>35.0</b>	7.0	4.4
DG 3757B2XF	1419	44.2	1.13	82.8	30.2	7.0	4.4
PHY 300W3FE	1418	43.7	1.14	82.7	32.1	5.7	4.3
SSG HQ210CT	1413	38.2	1.07	80.6	32.5	6.0	4.5
ST 5020GLT	1409	40.2	1.17	83.6	32.7	6.4	4.4
PHY 330W3FE	1405	43.5	1.14	83.1	32.4	5.4	4.0
DG 3635B2XF	1399	41.2	1.12	82.9	33.2	6.3	4.3
ST 5115GLT	1398	41.3	1.14	81.9	32.8	5.9	4.2
PHY 440W3FE	1394	42.8	<b>1.19</b>	<b>84.3</b>	<b>35.3</b>	5.6	3.9
DP 1851B3XF	1381	42.3	1.15	82.8	<b>34.6</b>	7.0	4.2
PHY 340W3FE	1372	43.4	1.13	82.9	31.4	5.6	4.2
PX 3A99W3FE	1349	42.3	1.15	83.3	33.6	5.8	4.2
SSG UA-222	1339	40.3	<b>1.18</b>	83.4	31.3	7.3	4.2
PX 5B73W3FE	1324	42.6	1.12	83.3	32.0	6.0	4.2
ST 4949GLT	1322	43.6	1.10	82.3	31.5	6.7	4.4
PHY 450W3FE	1317	42.4	1.11	84.0	<b>35.5</b>	7.0	<b>4.7</b>
PX 3A96W3FE	1307	41.6	1.14	83.8	31.7	6.1	4.2
PX 5A57W3FE	1297	41.9	1.14	83.7	34.0	5.9	4.0
PHY 480W3FE	1268	42.1	1.11	84.2	32.8	7.4	4.2
PX 2A28W3FE	1201	41.9	1.16	81.7	32.6	4.1	4.0
LSD (0.05)	196	1.8	0.03	1.6	1.4	0.6	0.2
C.V. (%)	10	3.0	2.01	1.4	3.0	7.2	4.0
Trial Mean	1461	42.7	1.14	83.1	32.6	6.3	4.3

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

<sub>1,2</sub> PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE<sub>1</sub> AND PX 4A57W3FE<sub>2</sub> in trial

Location: Pee Dee Research & Education Center  
 Soil Type: Norfolk Loamy Sand  
 GPS Coordinates: lat: 34.311282 long: -79.743412  
 Planted: May 9, 2017  
 Harvested: October 20, 2017

Table 3. Lint Yield, Gin Turnout, and Fiber Quality of Early-Maturing Cotton Varieties Grown at PDREC located in Florence, SC, in 2017. Early-Maturity Irrigated OVT. M. Jones.

Variety	Lint Yield lb/acre	Gin Turnout %	Fiber Length in.	Fiber Uniformity %	Fiber Strength g/tex	Elongation	Micronaire
ST 5020GLT	<b>1708</b>	42.2	1.20	85.0	35.0	5.8	4.3
PHY 430W3FE <sub>2</sub>	<b>1706</b>	<b>46.0</b>	1.12	83.9	34.9	5.7	4.2
PHY 430W3FE <sub>1</sub>	<b>1680</b>	<b>45.0</b>	1.14	84.7	34.2	5.6	4.4
PHY 444WRF	<b>1680</b>	<b>44.9</b>	<b>1.24</b>	<b>86.9</b>	33.6	5.3	3.9
DP 1725B2XF	<b>1643</b>	<b>45.7</b>	1.17	85.0	33.3	4.7	4.2
PHY 440W3FE	<b>1618</b>	44.4	1.20	85.2	<b>36.1</b>	4.5	4.0
PHY 499WRF	<b>1614</b>	44.5	1.15	85.3	<b>35.8</b>	6.4	<b>4.8</b>
PX 3A99W3FE	<b>1608</b>	43.9	1.17	84.2	33.9	5.2	4.1
ST 5517GLT	<b>1608</b>	41.4	1.19	83.7	34.7	4.9	4.1
PHY 312WRF	<b>1602</b>	42.5	1.18	84.9	32.7	5.9	4.2
DG CPS16228NR	<b>1600</b>	<b>45.5</b>	1.18	83.8	33.2	6.2	4.4
SSG UA-222	<b>1599</b>	41.9	1.19	83.9	33.3	6.6	4.5
PX 3A82W3FE	<b>1596</b>	44.6	1.14	84.7	<b>36.7</b>	6.4	4.1
ST 5115GLT	<b>1593</b>	42.9	1.15	82.9	33.5	5.3	4.1
PHY 480W3FE	<b>1578</b>	44.3	1.16	84.5	33.5	6.5	4.0
SSG HQ210CT	<b>1570</b>	40.3	1.13	82.8	34.4	5.1	<b>4.6</b>
PHY 300W3FE	<b>1564</b>	44.6	1.17	84.7	34.1	5.2	4.3
ST 4848GLT	<b>1555</b>	43.9	1.18	83.9	33.0	5.4	4.2
DP 1522B2XF	<b>1526</b>	42.4	1.15	84.2	33.3	<b>7.3</b>	<b>4.7</b>
PX 5B76W3FE	<b>1526</b>	43.6	1.17	84.6	34.5	4.9	4.2
DP 1614B2XF	<b>1522</b>	<b>45.0</b>	1.19	85.0	31.7	<b>6.8</b>	<b>4.8</b>
PX 5B73W3FE	<b>1521</b>	<b>45.3</b>	1.16	84.4	33.1	5.5	4.3
ST 4949GLT	1517	<b>45.3</b>	1.12	83.4	32.5	6.1	4.2
DG 3385B2XF	1514	42.9	1.15	83.9	30.7	<b>7.0</b>	4.5
PHY 450W3FE	1481	43.3	1.14	84.4	<b>36.6</b>	6.1	4.5
PHY 340W3FE	1480	<b>44.8</b>	1.17	84.6	33.2	5.3	4.2
PHY 490W3FE	1464	43.4	1.15	83.6	<b>36.2</b>	6.4	4.2
NG 3522B2XF	1453	43.2	1.11	83.0	30.8	5.8	4.2
PHY 330W3FE	1447	43.7	1.16	84.1	34.4	4.7	4.2
PX 3A96W3FE	1430	42.3	1.16	83.9	32.9	5.6	4.1
PX 2A28W3FE	1424	42.6	1.18	83.5	34.1	3.7	4.0
NG 3699B2XF	1411	41.0	1.19	82.9	33.1	4.1	4.2
PX 5A57W3FE	1406	43.7	1.16	84.5	<b>35.5</b>	5.9	3.7
NG 3406B2XF	1384	42.5	1.13	82.9	31.7	6.6	4.4
LSD (0.05)	188	1.3	0.03	1.3	1.6	0.6	0.3
C.V. (%)	9	2.2	1.95	1.1	3.3	7.8	4.4
Trial Mean	1548	43.6	1.16	84.2	33.8	5.7	4.2

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

<sub>1,2</sub> PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE<sub>1</sub> AND PX 4A57W3FE<sub>2</sub> in trial

Location: Pee Dee Research & Education Center  
 Soil Type: Norfolk Loamy Sand  
 GPS Coordinates: lat: 34.310308 long: -79.746394  
 Planted: May 8, 2017  
 Harvested: October 5, 2017

Table 4. Lint Yield, Gin Turnout, and Fiber Quality of Late-Maturing Cotton Varieties Grown at PDREC located in Florence, SC, in 2017. Late-Maturity Irrigated OVT. M. Jones.

Variety	Lint Yield lb/acre	Gin Turnout %	Fiber Length in.	Fiber Uniformity %	Fiber Strength g/tex	Elongation	Micronaire
DP 1555B2RF	<b>1984</b>	<b>46.2</b>	1.17	83.8	34.3	5.8	4.2
CG 9608B3XF	<b>1920</b>	<b>46.9</b>	1.15	82.8	31.2	5.0	4.1
ST 6182GLT	<b>1825</b>	<b>47.7</b>	1.15	83.9	31.7	6.3	4.0
PHY 430W3FE <sub>2</sub>	<b>1819</b>	<b>46.2</b>	1.11	83.1	34.2	6.5	3.9
DP 1538B2XF	<b>1814</b>	45.0	1.10	83.6	31.0	7.4	<b>4.3</b>
PHY 430W3FE <sub>1</sub>	<b>1806</b>	44.6	1.14	<b>84.3</b>	33.3	6.2	4.1
ST 5517GLT	<b>1796</b>	42.1	1.17	83.1	<b>35.7</b>	5.0	4.0
DG 3757B2XF	<b>1791</b>	45.5	1.14	83.5	31.0	6.7	<b>4.4</b>
CG 3885B2XF	<b>1790</b>	45.3	1.15	83.6	32.1	7.2	<b>4.4</b>
DG 3526B2XF	<b>1782</b>	46.0	1.12	83.6	31.2	<b>8.2</b>	<b>4.4</b>
DG CPS17330	<b>1780</b>	<b>47.1</b>	1.18	<b>84.5</b>	<b>35.3</b>	5.8	<b>4.4</b>
ST 5020GLT	<b>1774</b>	42.7	1.19	<b>84.9</b>	34.4	6.6	4.2
NG 5007B2XF	<b>1769</b>	43.9	1.17	83.9	31.0	6.9	<b>4.3</b>
DP 1646B2XF	<b>1761</b>	44.3	<b>1.22</b>	<b>84.6</b>	31.5	7.0	4.0
PHY 444WRF	<b>1737</b>	44.8	<b>1.22</b>	<b>85.7</b>	33.3	5.4	3.8
PX 3A99W3FE	1731	43.8	1.15	84.2	34.2	5.9	4.0
DP 1747NRB2XF	1727	<b>46.5</b>	1.14	83.3	34.7	6.2	<b>4.5</b>
ST 5115GLT	1713	42.8	1.16	84.2	33.2	5.8	4.1
PHY 440W3FE	1699	45.5	<b>1.21</b>	<b>85.0</b>	<b>36.2</b>	4.6	3.9
PHY 312WRF	1695	43.6	1.14	<b>84.6</b>	33.6	5.7	4.1
PX 5B76W3FE	1692	42.3	1.15	83.6	32.9	5.3	<b>4.4</b>
PHY 480W3FE	1686	45.0	1.14	83.0	33.7	6.7	4.0
NG 4601B2XF	1684	44.5	1.14	83.3	33.9	6.1	<b>4.5</b>
PX 3A82W3FE	1680	43.8	1.15	<b>84.8</b>	<b>36.2</b>	6.5	3.9
PX 2A28W3FE	1665	43.2	1.17	83.4	34.4	3.7	3.9
DP 1851B3XF	1665	44.1	1.16	83.4	<b>35.6</b>	6.9	4.0
DP 1840B3XF	1661	44.6	<b>1.22</b>	<b>85.2</b>	32.3	6.3	4.0
PX 5A57W3FE	1654	43.4	1.15	<b>84.5</b>	<b>35.1</b>	5.7	3.6
PX 5B73W3FE	1647	43.9	1.15	84.1	33.6	5.7	3.8
PHY 499WRF	1634	43.9	1.11	83.9	<b>35.0</b>	6.6	<b>4.6</b>
MN 16R353B3XF	1623	<b>47.1</b>	1.15	83.2	<b>35.2</b>	6.7	4.3
PHY 330W3FE	1609	45.4	1.17	82.9	33.5	5.3	4.1
PHY 300W3FE	1600	45.5	1.14	83.8	34.1	5.4	4.3
AMX 1711B2XF	1580	43.9	1.19	83.1	32.5	6.4	4.2
SSG UA-222	1580	41.0	1.15	83.5	33.2	6.9	4.2
PX 3A96W3FE	1570	42.1	1.15	84.1	32.6	5.8	4.0
ST 4949GLT	1568	45.5	1.13	82.4	33.3	6.4	4.3
PHY 340W3FE	1567	45.7	1.16	83.8	32.7	5.6	4.1
DP 1553B2XF	1550	45.0	1.17	84.0	32.1	7.2	4.1
PHY 490W3FE	1525	44.6	1.15	84.0	<b>35.8</b>	6.4	4.1
DP 1639B2XF	1525	45.7	1.13	83.8	34.9	6.7	<b>4.3</b>
PHY 450W3FE	1520	42.8	1.11	83.6	<b>36.5</b>	7.4	<b>4.4</b>
SSG HQ210CT	1457	39.3	1.09	81.4	31.5	6.2	<b>4.4</b>
DG 3635B2XF	1345	42.7	1.13	82.5	34.3	6.0	4.1
LSD (0.05)	250	1.6	0.03	1.4	1.6	0.7	0.3
C.V. (%)	11	2.5	1.87	1.2	3.4	8.4	5.4
Trial Mean	1682	44.4	1.15	83.8	33.6	6.2	4.1

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

<sup>1,2</sup> PHY 430W3FE is a 50/50 blend of sister lines tested as PX 4A54W3FE<sub>1</sub> AND PX 4A57W3FE<sub>2</sub> in trial

Location: Pee Dee Research & Education Center  
 Soil Type: Norfolk Loamy Sand  
 GPS Coordinates: lat: 34.310095; long: -79.746206  
 Planted: May 8, 2017  
 Harvested: October 5, 2017