

## 5. VARIETY SELECTION

### Keith Edmisten

*Crop Science Extension Specialist—Cotton*

Variety selection is one of the most important decisions a grower makes at the beginning of the crop year. There are several criteria for variety selection that may be important to a grower. How these criteria rank may vary from one grower to another, and the criteria may vary for the same grower from one field to the next depending on various factors such as weed pressure, soil types, planting date, and anticipated harvest schedules. Several criteria for variety selection are discussed below.

### VARIETY SELECTION CRITERIA

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#### ***Transgenic Traits***

Most cotton produced in North Carolina has been genetically engineered to have an insect control package and an herbicide resistance package. The herbicide resistance package is the one of most concern to growers in variety selection. Glyphosate-tolerant varieties have been very popular in North Carolina, but now glyphosate-resistant weeds have emerged in many areas of the state. Glyphosate-resistant Palmer amaranth—and, to a lesser extent, glyphosate-resistant horseweed—have led many growers to select varieties with gene packages that allow the application of Liberty herbicide to help control these glyphosate-resistant weeds. LibertyLink cotton varieties and Widestrike cotton varieties are both tolerant to Liberty herbicide. Tolerance of varieties with the WideStrike trait to Liberty is not complete. In contrast to LibertyLink cotton, which is highly tolerant of Liberty, some injury can be expected when Liberty is applied to WideStrike cotton. The injury is basically leaf burn and can range from very minor to rather significant. However, the injury is contact in nature, and the crop generally recovers. More information about weed control systems and varieties is available in chapter 10, “Weed Management in Cotton.”

Varieties in the tables presented in this chapter with the designation “RF” are Roundup Flex varieties that allow over-the-top applications of glyphosate. Varieties with the designation “GL” allow over-the-top applications of Liberty and glyphosate. Varieties with the designation “WRF” allow over-the-top applications of Liberty and glyphosate. The W in “WRF” also indicates that the variety has *Cry1A(2)* and *Cry1F* genes to produce Bt endotoxins that have high activity against all pest caterpillar species other than cutworm. The abbreviation B2 in a variety name indicates that the variety has *Cry1A(2)* and *Cry2A(b)* genes to produce Bt endotoxins that have high activity against all pest caterpillar species other than cutworm.

Monsanto is expecting to receive regulatory approval to offer Bollgard XtendFlex to farmers this growing season. Xtendflex varieties will have dicamba and glufosinate tolerance in addition to glyphosate tolerance. Growers trying this new technology need to make sure to pay careful attention to potential drift problems and tank clean-out when using dicamba (see chapter 10, "Weed Management in Cotton").

### ***Yield Stability***

Yield stability is the ability of a variety to perform well across various environments. Although it is tempting for a grower to put a lot of emphasis on the variety test nearest to their farm, this is not the best practice. We have consistently seen that the best predictor of how a variety will perform in the upcoming year is not how well it did at that particular location in the past year but how it performed compared to other varieties **averaged across all locations** in prior years. Some varieties tend to rank well only in favorable environments, while others tend to rank highly across all environments. In the absence of irrigation, growers need to select varieties that have performed well in favorable environments as well as under stress.

### ***Maturity***

Maturity is an indication of how long it will take from planting until harvest for a variety. Cotton variety maturity is often classified as early, medium, late, or full season. The cotton varieties we grow are day-neutral plants in that flowering is not initiated based on photoperiodism. Soybeans are day-length sensitive, and this is why later varieties of soybeans are recommended for late plantings. The opposite is true for cotton. Early varieties start fruiting at a lower node on the plant than later varieties. The typical first fruiting node for an early variety is node 5, while a late- or full-season variety might not start fruiting until node 8 or 9. For this reason, plantings after the middle of May should be devoted to early varieties in North Carolina.

Late-season varieties do offer some advantages compared to early-season varieties. Later varieties tend to not be negatively affected by stress as much as early varieties. Growers may want to lean toward mid- to late-season varieties when planting on sandy soils that are prone to drought stress if the cotton can be planted early. In general, later-season varieties tend to have better fiber quality than earlier varieties.

### ***Fiber Quality***

The price a grower receives can be positively or negatively affected by fiber quality. Fiber quality is discussed in more detail in chapter 17, "Cotton Classification." Fiber length, strength, and uniformity are heavily influenced by genetics and, to a much lesser extent, by environment. Of these, fiber length is most often the factor of concern with growers in North Carolina. Growers can usually avoid discounts for fiber length by selecting varieties with longer fiber length. Micronaire is influenced by a combination of or interaction between environment and genetics. High mike is most likely in cotton produced under stress, primarily drought stress. Growers should particularly avoid planting varieties that tend to have higher micronaire in fields that have a history of drought stress.

### ***Stormproof***

“Stormproof” is a term that indicates how tightly a variety holds lint over time. Research in North Carolina has shown that high winds and rainfall can cause losses, especially when high winds and rainfall occur simultaneously. Stormproof characteristics of a variety are usually expressed as poor, fair, good, or excellent. Varieties that are considered to have poor or fair stormproof ratings should be planted in fields that can be harvested in a timely manner. Fields that a grower expects to be harvested in a less timely manner should be devoted to varieties with good stormproof ratings. The flip side of the coin is that varieties with poor stormproof ratings tend to pick cleaner; therefore, growers may want to plant a portion of their acreage to these varieties if they can be harvested quickly. The important factor is to consider harvest schedule with variety selection and placement with regard to stormproof characteristics.

### ***Leaf Hair***

Varieties have different amounts of hairs (trichomes) on the plant. The leaf hair typical for a variety is often classified as smooth, semismooth, and hairy. Smooth leaf varieties tend to have better leaf grades when the cotton is classed (chapter 17). Desiccating cotton during defoliation can also lead to high (bad) leaf grades. It is particularly important to try to avoid desiccation of hairy leaf varieties, as the desiccated leaves will tend to adhere to the lint, resulting in poor leaf grades.

## **OFFICIAL VARIETY TESTING DATA**

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There was a tremendous amount of rainfall this past growing season, especially in the first half of the growing season. The 2014 locations used for the data presented here are from the research stations at Lewiston, Clayton, Plymouth, Rocky Mount, Jackson Springs, and from an on-farm location in Scotland County.

Every variety has both strengths and weaknesses. The more experience we have with a variety, the better we can place it on the farm and manage it. The best way to manage risk on the farm associated with variety selection is to follow these principles:

- Use as much variety testing information as you can.
- Do not plant too much acreage to any one variety, especially varieties with only one year of data available.
- Use multiple varieties to avoid putting too many eggs in one basket.

**Table 5-1. Three-Year Statewide (North Carolina) Average Performance of OVT Cotton Varieties—2012–2014**

Variety or Brand Variety	Lint Yield (Lb/Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
DP1321B2RF	1364**	45.1	37	50	1.16	83.7	29.7	4.7	6.2
Americot NG1511B2RF	1351*	46.0	36	50	1.16	83.5	29.9	4.7	6.1
DP0912B2RF	1346*	44.2	34	52	1.14	83.6	29.5	4.7	5.7
PHY499WRF	1343*	46.1	37	53	1.16	84.2	30.3	4.7	6.2
ST4946GLB2	1329*	44.3	33	52	1.14	83.5	29.5	4.8	5.8
Dyna-Gro 2285B2RF	1294	44.6	34	53	1.17	83.7	29.0	4.5	5.9
PHY375WRF	1282	44.7	37	57	1.14	83.3	29.0	4.5	5.5
DP1028B2RF	1261	45.9	36	51	1.15	83.8	28.4	4.7	6.2
Croplan CG3787B2RF	1241	45.6	38	48	1.17	84.0	28.8	4.7	6.1
DP1137B2RF	1220	44.8	40	49	1.15	84.0	28.9	4.7	5.9
ST6448GLB2	1188	43.2	36	51	1.19	83.1	29.7	4.5	4.8
DP1048B2RF	1183	45.1	38	51	1.16	83.9	28.6	4.5	6.1
DP1311B2RF	1182	45.5	36	51	1.16	83.1	28.7	4.5	6.1
DP1034B2RF	1179	45.3	38	45	1.17	84.2	28.9	4.5	6.3
DP1050B2RF	1159	45.9	39	49	1.17	84.0	28.8	4.6	6.0
+DP1252B2RF	1149	46.0	40	40	1.15	83.9	28.9	4.7	6.2
<b>MEAN</b>	<b>1255</b>	<b>45.1</b>	<b>37</b>	<b>50</b>	<b>1.16</b>	<b>83.7</b>	<b>29.2</b>	<b>4.6</b>	<b>6.0</b>
C.V.(%)	8								
B LSD(K=50)	66								
S.E	29								

\*\*Highest yielder. \*Not significantly different from highest yielder.

13 locations

+Experimental

**Table 5-2. Two-Year Statewide (North Carolina) Average Performance of OVT Cotton Varieties—2013–2014**

Variety or Brand Variety	Lint Yield (Lb/Acre)	Lint (%)	Plant Height Inches	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
PHY333WRF	1415**	46.3	37	57	1.17	83.8	29.3	4.3	5.3
DP1321B2RF	1382*	45.5	38	50	1.15	83.7	29.4	4.7	6.1
Americot NG1511B2RF	1358*	46.5	36	49	1.15	83.5	29.6	4.7	6.1
DP0912B2RF	1355*	44.7	34	52	1.14	83.6	29.3	4.7	5.5
PHY339WRF	1351*	44.4	40	54	1.16	83.6	29.1	4.4	5.4
PHY499WRF	1335*	46.7	37	51	1.14	83.9	30.0	4.7	6.0
ST4946GLB2	1331	44.6	34	51	1.13	83.4	29.1	4.7	5.8
ST4747GLB2	1323	45.1	34	60	1.18	83.0	29.4	4.4	4.4
+PHYPX30031WRF	1322	45.1	37	52	1.13	83.2	29.1	4.6	6.0
PHY375WRF	1322	45.3	37	56	1.14	83.4	28.7	4.6	5.5
Bayer FM1944GLB2	1314	43.4	36	47	1.19	83.8	30.5	4.5	5.0
Dyna-Gro 2285B2RF	1312	45.1	35	54	1.16	83.6	28.7	4.4	5.8
PHY417WRF	1293	45.4	36	58	1.15	83.3	29.0	4.2	6.1
PHY427WRF	1261	43.9	36	64	1.14	83.6	29.2	4.2	6.0
+MON12R224B2R2	1260	44.2	37	59	1.18	83.9	29.2	4.3	5.2
DP1028B2RF	1238	46.2	37	48	1.15	83.7	28.3	4.6	6.1
+DP1555B2RF	1231	46.5	38	38	1.17	83.3	30.0	4.5	5.4
Croplan CG3787B2RF	1229	45.9	38	48	1.16	83.9	28.6	4.7	6.0
DP1137B2RF	1185	45.2	40	48	1.15	83.8	28.8	4.7	5.8
ST6448GLB2	1179	43.6	36	48	1.18	82.8	29.4	4.4	4.8
DP1311B2RF	1177	46.1	36	50	1.15	83.0	28.5	4.5	6.0
DP1034B2RF	1165	45.6	39	39	1.16	84.2	28.8	4.6	6.3
DP1048B2RF	1160	45.3	39	48	1.16	83.7	28.5	4.5	5.9
DP1050B2RF	1124	46.2	39	47	1.16	83.9	28.5	4.6	6.0
+DP1252B2RF	1105	46.2	41	38	1.15	83.9	28.7	4.7	6.1
Americot NG5315B2RF	1090	45.5	40	38	1.16	84.0	28.4	4.6	6.1
<b>MEAN</b>	<b>1264</b>	<b>45.3</b>	<b>37</b>	<b>50</b>	<b>1.16</b>	<b>83.6</b>	<b>29.1</b>	<b>4.5</b>	<b>5.7</b>
C.V.(%)	9								
BLSD(K=50)	81								

\*\*Highest yielder. \*Not significantly different from highest yielder.

10 locations

+Experimental

**Table 5.3. Average Performance of Cotton Varieties Across Locations—2014**

<b>Variety or Brand Variety</b>	<b>Lint Yield (Lb/Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
PHY 333WRF	1548**	47.2	38	58	1.16	84.1	29.0	4.4	4.9
+PX 49936 W3RF	1522*	47.4	40	55	1.12	83.4	29.7	4.6	6.0
+PX 49907 W3RF	1515*	47.3	39	50	1.14	83.7	30.0	4.5	5.8
PHY 495 W3RF	1514*	46.8	39	50	1.12	84.4	30.1	4.7	5.9
+PX 554010 WRF	1501*	47.5	40	49	1.15	83.7	29.8	4.2	5.2
+PX 554057 WRF	1497*	45.6	41	45	1.19	84.5	30.3	4.1	5.0
PHY 499WRF	1495*	47.4	38	51	1.14	84.2	29.9	4.8	6.1
ST 4946GLB2	1490*	45.8	35	55	1.12	83.5	29.1	4.7	5.6
Americot NG1511B2RF	1485*	47.1	38	50	1.14	83.5	29.4	4.9	6.4
DP 0912B2RF	1484*	45.8	35	50	1.12	83.9	28.9	5.0	5.5
+PX 444413 WRF	1484*	47.0	37	44	1.23	84.5	31.2	4.0	4.8
+PX 3122B-51 WRF	1483*	46.5	37	56	1.17	84.1	29.4	4.4	5.3
+PHY PX300310WRF	1481*	45.6	40	52	1.11	82.9	28.8	4.7	6.0
FM1944GLB2	1468*	44.8	35	51	1.20	83.6	30.8	4.5	4.5
Dyna-Gro 2285B2RF	1464*	46.4	35	55	1.15	83.7	28.2	4.5	5.6
PHY 375WRF	1451*	45.9	38	60	1.13	83.3	28.1	4.5	5.1
DP 1321B2RF	1439	46.3	38	49	1.15	84.1	28.9	4.8	6.3
+PX 554063 WRF	1436	46.4	40	45	1.18	84.4	30.8	4.2	5.0
+PX 3003-14 WRF	1430	45.5	39	55	1.14	83.2	29.7	4.4	5.3
ST 5032 GLT	1423	45.3	35	55	1.19	83.0	30.2	4.1	5.2
+PX 37508 W3RF	1422	45.9	37	60	1.14	83.3	28.1	4.4	4.8
DP 1133B2RF	1419	46.9	41	47	1.16	84.5	29.1	4.7	5.8
PHY 339WRF	1404	45.6	39	58	1.18	83.8	29.1	4.3	5.4
DP 1028B2RF	1396	47.3	40	52	1.13	83.6	27.2	4.8	6.3
PHY 427WRF	1393	45.1	36	69	1.13	83.6	29.5	4.1	5.7
ST 5289 GLT	1385	45.8	37	56	1.14	82.4	28.6	4.4	4.6
PHY 417WRF	1384	46.4	35	62	1.12	83.2	28.5	4.0	5.9

*continued*

**Table 5.3. Average Performance of Cotton Varieties Across Locations—2014 (continued)**

Variety or Brand Variety	Lint Yield (Lb/ Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
Croplan CG3787B2RF	1382	46.9	39	51	1.15	84.1	28.3	4.7	6.2
+ST 5115 GLT	1381	45.7	39	43	1.15	82.9	29.6	4.3	5.1
+MON 12R224B2R2	1371	45.0	39	59	1.17	84.1	28.9	4.2	4.8
ST 4747GLB2	1365	46.1	34	62	1.18	82.4	29.0	4.5	3.7
+PX 37520 W3RF	1361	45.6	37	59	1.12	82.2	26.5	4.2	5.2
DG CT 14515	1353	47.1	39	39	1.15	83.2	30.6	4.5	5.6
DP 1137B2RF	1346	46.0	43	47	1.14	84.0	27.9	4.8	5.8
DP 1454 NR B2RF	1342	45.9	41	37	1.11	82.4	28.1	4.7	5.3
+BX 1532 GLT	1340	49.1	39	49	1.15	83.5	28.5	4.4	5.0
DP 1555 B2RF	1332	47.2	40	37	1.17	83.4	30.4	4.6	5.1
+BX 1536 GLT	1321	46.1	40	58	1.14	83.9	30.6	4.2	4.7
ST 6182GLT	1310	48.5	43	49	1.16	84.6	28.2	4.5	5.2
DP 1034B2RF	1309	46.5	43	41	1.15	84.4	27.8	4.7	6.3
DP 1311B2RF	1303	47.1	38	50	1.14	82.7	28.1	4.5	6.3
+BX 1531 GLT	1302	47.8	39	46	1.15	83.5	28.3	4.6	5.4
+BX 1533 GLT	1298	45.4	43	43	1.21	83.7	31.3	4.4	5.4
DP 1048B2RF	1292	46.2	41	49	1.16	83.7	27.8	4.7	5.8
ST 6448GLB2	1278	44.7	38	52	1.19	82.9	29.7	4.3	4.1
PHY 575 WRF	1275	44.4	43	49	1.20	83.7	29.8	4.2	5.9
DG 2355 B2RF	1251	44.1	35	61	1.14	83.7	29.7	4.5	5.8
DP 1050B2RF	1250	47.2	42	46	1.16	84.2	28.0	4.7	5.9
DP 1252B2RF	1250	47.0	42	40	1.14	84.2	28.2	4.9	6.5
+BX 1535 GLT	1235	44.5	37	45	1.21	83.8	32.4	4.2	3.8
Americot NG5315B2RF	1219	46.4	42	39	1.15	84.1	27.4	4.7	6.3
<b>MEAN</b>	<b>1390</b>	<b>46.3</b>	<b>39</b>	<b>51</b>	<b>1.15</b>	<b>83.6</b>	<b>29.2</b>	<b>4.5</b>	<b>5.4</b>
C.V.(%)	8								
BLSD(K=50)	108								
S.E	44								

\*\*Highest yielder. \*Not significantly different from highest yielder.

6 locations

+Experimental

**Table 5-4. Average Performance of Cotton Varieties at Bertie County—2014**

<b>Variety/Hybrid or Brand Variety/ Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
PHY 333WRF	1698	45.4	46	39	1.17	85.0	29.4	4.5	5.2
+PX 3122B-51 WRF	1692	44.9	43	32	1.17	84.3	29.2	4.4	5.3
Americot NG1511B2RF	1634	45.3	41	49	1.15	84.5	29.7	5.1	6.1
Dyna-Gro 2285B2RF	1629	44.1	39	36	1.17	84.5	28.4	4.8	5.8
ST 4946GLB2	1580	43.2	43	32	1.13	84.1	28.3	5.1	5.7
+PX 49907 W3RF	1552	45.8	49	32	1.15	84.8	30.0	4.7	6.4
PHY 495 W3RF	1550	44.6	51	25	1.16	85.4	30.6	4.8	6.2
DP 0912B2RF	1548	44.3	38	35	1.12	84.2	28.3	5.2	6.0
PX 37520 W3RF	1538	42.9	45	42	1.13	82.9	26.5	4.2	5.0
+PX 444413 WRF	1524	44.9	44	30	1.26	85.0	31.5	4.0	4.5
+PX 49936 W3RF	1521	45.8	48	45	1.14	83.5	30.0	5.0	5.9
Bayer FM1944GLB2	1497	41.5	38	29	1.21	84.3	31.8	4.9	4.7
+PX 554010 WRF	1494	45.9	48	35	1.16	83.7	29.1	4.2	5.6
PHY 499WRF	1490	45.8	46	28	1.17	85.5	29.1	5.0	6.1
PHY 339WRF	1487	43.6	50	40	1.19	84.3	28.6	4.4	5.5
+PX 37508 W3RF	1467	44.0	40	54	1.17	84.5	28.8	4.5	4.5
DP 1321B2RF	1460	41.7	44	34	1.16	83.8	28.8	4.7	6.4
PHY 427WRF	1455	42.1	40	56	1.15	84.6	29.4	4.4	5.9
PHY 375WRF	1448	44.2	47	44	1.15	84.4	28.3	4.7	5.4
ST 5032 GLT	1434	42.9	40	35	1.22	84.4	30.4	4.4	4.9
+PX 554057 WRF	1433	43.2	48	26	1.21	85.3	31.2	4.3	5.3
ST 5289 GLT	1421	43.8	39	41	1.17	83.0	28.6	4.4	4.9
+PX 554063 WRF	1411	44.6	49	34	1.17	84.3	29.5	4.2	5.5
+MON 12R224B2R2	1405	43.3	47	40	1.20	84.8	28.8	4.1	5.0
PHY PX300310WRF	1400	42.9	50	30	1.14	84.2	29.1	4.8	7.1
PHY 417WRF	1390	45.0	40	46	1.15	83.4	29.1	3.9	6.5
DP 1028B2RF	1355	44.8	49	43	1.15	84.1	27.2	5.0	6.6

*continued*

**Table 5-4. Average Performance of Cotton Varieties at Bertie County—2014 (continued)**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/ Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
+PX 3003-14 WRF	1354	42.6	53	26	1.16	84.5	30.3	4.5	5.9
DP 1133B2RF	1352	44.4	45	45	1.15	84.5	27.3	4.9	6.1
Croplan CG3787B2RF	1342	44.3	49	40	1.17	85.0	27.8	4.8	6.4
+ST 5115 GLT	1330	44.2	47	24	1.20	83.1	28.7	4.2	4.7
ST 4747GLB2	1324	43.3	37	36	1.19	83.2	30.4	4.8	3.6
+BX 1532 GLT	1317	47.2	40	40	1.17	83.7	28.0	4.6	5.1
+BX 1536 GLT	1264	45.0	50	36	1.15	84.1	31.3	4.3	5.3
DP 1048B2RF	1252	44.1	49	39	1.15	83.2	27.3	4.8	5.7
ST 6182GLT	1239	47.3	52	34	1.16	84.7	28.0	4.6	5.1
DG CT 14515	1238	45.8	47	17	1.16	83.4	30.0	5.0	5.4
+BX 1531 GLT	1227	44.9	46	40	1.17	83.8	28.0	4.9	5.3
DP 1034B2RF	1205	43.8	54	24	1.17	85.0	27.4	4.9	6.4
BX 1533 GLT	1200	41.7	48	32	1.26	83.5	30.1	4.4	5.6
ST 6448GLB2	1196	40.9	47	31	1.19	83.1	29.1	4.6	4.4
PHY 575 WRF	1185	41.1	51	11	1.24	84.1	29.2	4.2	6.3
DP 1252B2RF	1184	44.9	53	26	1.15	84.4	27.2	5.1	6.6
DP 1555 B2RF	1174	44.9	46	21	1.17	83.4	30.3	4.5	5.2
DP 1311B2RF	1157	45.2	43	41	1.13	82.1	27.6	4.6	6.1
DP 1137B2RF	1157	42.3	50	38	1.13	84.5	27.2	5.0	6.0
DP 1050B2RF	1147	44.6	47	42	1.18	85.1	27.1	4.9	6.1
DP 1454 NR B2RF	1134	42.0	45	20	1.12	82.9	28.1	5.1	5.6
DG 2355 B2RF	1129	40.6	37	52	1.13	83.2	28.7	4.5	6.2
Americot NG5315B2RF	1108	44.1	51	33	1.16	84.3	27.7	4.9	6.3
+BX 1535 GLT	932.7	40.8	44	42	1.21	84.6	32.0	4.4	3.8
<b>MEAN</b>	<b>1366</b>	<b>43.9</b>	<b>46</b>	<b>35</b>	<b>1.17</b>	<b>84.1</b>	<b>29.0</b>	<b>4.6</b>	<b>5.6</b>
C.V.(%)	8								
LSD_10	93								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5-5. Average Performance of Cotton Varieties at Edgecombe County—2014**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
+PX 49936 W3RF	1593**	47.1	45	48	1.13	83.3	29.0	4.5	5.5
+MON 12R224B2R2	1591*	43.9	42	53	1.17	83.5	28.8	4.3	4.6
PHY 495 W3RF	1583*	47.2	44	61	1.14	84.8	30.0	4.6	5.9
PHY PX300310WRF	1572*	46.0	44	51	1.10	82.5	27.2	4.5	5.7
PHY 499WRF	1552*	46.5	42	55	1.13	83.8	29.0	4.7	6.2
PHY 375WRF	1541*	45.3	43	57	1.12	82.9	27.7	4.5	5.0
+PX 554010 WRF	1524*	46.3	44	49	1.17	83.9	29.5	4.2	4.7
PHY 333WRF	1508*	46.4	41	59	1.17	83.6	29.6	4.7	4.7
DG CT 14515	1478*	46.0	42	43	1.17	83.4	32.0	4.6	5.2
+PX 49907 W3RF	1475*	46.7	43	45	1.15	83.5	31.0	4.6	5.6
ST 4946GLB2	1475*	44.8	40	56	1.12	83.3	27.3	4.9	5.4
ST 5032 GLT	1466*	44.9	38	41	1.20	82.9	30.4	4.3	5.1
DP 1321B2RF	1463*	45.0	43	53	1.16	83.3	28.7	4.9	6.0
+PX 444413 WRF	1450*	46.8	39	51	1.25	83.9	31.3	4.0	4.7
+PX 554063 WRF	1448*	44.5	42	33	1.21	84.8	32.2	4.2	4.8
+PX 3122B-51 WRF	1426*	45.9	39	61	1.17	84.3	29.6	4.6	5.0
ST 5289 GLT	1426*	43.9	39	56	1.13	82.0	27.7	4.5	4.3
+PX 3003-14 WRF	1418*	44.5	42	56	1.15	82.7	29.9	4.3	4.6
+PX 554057 WRF	1418*	44.1	43	27	1.23	84.9	30.5	4.3	4.5
DP 1137B2RF	1399	44.1	44	46	1.15	84.7	28.5	4.9	5.6
Croplan CG3787B2RF	1386	46.7	44	48	1.15	84.1	28.8	4.6	5.7
ST 5115 GLT	1376	45.8	42	43	1.15	82.8	29.0	4.7	5.4
+PX 37520 W3RF	1362	44.3	39	62	1.13	81.8	26.5	4.1	5.6

*continued*

**Table 5-5. Average Performance of Cotton Varieties at Edgecombe County—2014 (continued)**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
Dyna-Gro 2285B2RF	1362	43.8	40	28	1.17	83.0	28.8	4.6	5.5
DP 1555 B2RF	1346	46.0	42	34	1.19	83.3	30.6	4.7	4.7
DP 1311B2RF	1341	44.9	40	42	1.15	82.3	27.8	4.6	6.1
DP 0912B2RF	1341	44.1	39	38	1.13	83.6	29.6	4.9	5.1
PHY 427WRF	1341	43.3	40	70	1.14	84.2	30.3	3.9	5.5
PHY 417WRF	1338	44.8	39	55	1.14	83.9	28.2	4.0	5.7
PHY 339WRF	1335	43.6	44	52	1.18	83.7	28.1	4.3	5.6
+PX 37508 W3RF	1326	44.5	43	63	1.13	82.7	27.8	4.2	4.4
ST 6448GLB2	1321	44.0	41	35	1.21	83.3	30.9	4.6	3.9
DP 1133B2RF	1312	45.3	45	35	1.16	83.9	29.8	4.9	5.4
+BX 1532 GLT	1292	49.4	40	42	1.15	82.4	28.8	4.5	4.6
ST 4747GLB2	1283	44.6	39	64	1.18	81.3	28.4	4.5	3.6
DG 2355 B2RF	1279	41.9	36	61	1.17	83.4	31.5	4.5	5.4
DP 1454 NR B2RF	1271	42.9	41	35	1.14	82.9	29.1	4.9	5.1
Bayer FM1944GLB2	1270	41.7	37	49	1.21	83.0	31.1	4.5	4.0
Americot NG1511B2RF	1266	45.1	40	39	1.17	83.4	30.3	5.0	6.0
+BX 1536 GLT	1250	44.9	43	65	1.15	83.9	30.7	4.5	4.2
ST 6182GLT	1243	48.4	45	55	1.16	84.7	27.8	4.4	5.1
+BX 1535 GLT	1238	42.9	42	46	1.24	84.5	34.0	4.3	3.6
DP 1028B2RF	1228	46.7	45	47	1.15	83.6	27.2	4.9	5.9
+BX 1533 GLT	1223	43.6	41	49	1.23	84.2	32.6	4.4	5.5
Americot NG5315B2RF	1211	44.8	42	41	1.17	83.7	28.8	4.8	6.5
+BX 1531 GLT	1197	47.4	40	38	1.19	84.2	28.6	4.4	5.2
DP 1050B2RF	1193	46.4	42	48	1.17	83.8	28.5	4.9	5.5
DP 1048B2RF	1190	44.7	42	59	1.18	83.8	28.5	4.6	5.4
PHY 575 WRF	1155	42.3	46	51	1.25	83.6	30.2	4.0	5.7

*continued*

**Table 5-5. Average Performance of Cotton Varieties at Edgecombe County—2014 (continued)**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/ Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
DP 1034B2RF	1151	44.4	45	24	1.15	84.3	28.9	4.8	6.0
DP 1252B2RF	1014	47.0	43	41	1.15	84.5	28.5	5.1	6.4
<b>MEAN</b>	<b>1358</b>	<b>45.1</b>	<b>42</b>	<b>48</b>	<b>1.17</b>	<b>83.5</b>	<b>29.4</b>	<b>4.5</b>	<b>5.2</b>
C.V.(%)	13.5								
LSD_10	175								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5.6. Average Performance of Cotton Varieties at Johnston County—2014**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
FM1944GLB2	2089**	57.7	42	33	1.19	84.1	30.0	4.4	4.5
ST 4946GLB2	2038*	55.9	33	61	1.10	83.2	30.1	4.5	6.1
DP 0912B2RF	2020*	55.6	34	41	1.11	83.4	28.0	4.9	5.6
DP 1133B2RF	1935	55.6	47	38	1.17	85.0	28.6	4.5	6.2
PHY 333WRF	1893	53.3	37	58	1.16	83.8	28.2	4.5	5.3
ST 5032 GLT	1892	56.4	33	61	1.18	83.2	28.2	4.2	5.8
Americot NG1511B2RF	1882	54.0	38	38	1.12	83.4	28.5	4.8	6.7
+PX 37508 W3RF	1860	54.7	37	53	1.13	83.2	27.2	4.4	5.5
+PX 444413 WRF	1854	54.0	32	53	1.23	84.7	30.9	4.0	5.4
+PX 49936 W3RF	1834	53.5	33	65	1.08	82.5	29.5	4.6	6.3
+BX 1536 GLT	1829	55.5	42	50	1.11	82.7	29.8	4.0	4.8
+PX 3003-14 WRF	1817	56.4	33	64	1.12	82.3	29.2	4.3	5.0
DG 2355 B2RF	1817	57.1	34	64	1.13	83.7	28.5	4.2	6.0
+PX 49907 W3RF	1811	53.3	37	46	1.12	82.9	28.8	4.3	6.1
PHY 339WRF	1804	56.7	33	75	1.17	82.9	29.4	4.0	5.3
PHY 499WRF	1799	55.8	35	54	1.13	83.0	31.0	4.8	6.1
DP 1028B2RF	1797	53.3	38	52	1.12	82.2	26.8	4.6	6.9
Dyna-Gro 2285B2RF	1787	56.0	35	54	1.12	82.9	26.8	4.3	6.2
PHY 495 W3RF	1785	54.1	34	58	1.08	82.9	30.1	4.6	5.9
ST 4747GLB2	1784	55.8	28	57	1.17	81.6	28.1	4.3	3.8
Croplan CG3787B2RF	1783	53.7	35	60	1.13	83.6	27.5	4.7	7.0
DP 1321B2RF	1783	53.9	40	31	1.15	84.4	28.8	4.8	6.7
+ST 5115 GLT	1764	54.5	37	40	1.14	82.4	29.6	4.2	5.6
+PX 3122B-51 WRF	1758	52.9	40	55	1.14	83.3	28.0	4.6	5.4
ST 5289 GLT	1749	56.5	37	42	1.14	82.8	28.5	4.1	5.1
DP 1048B2RF	1742	54.8	42	41	1.13	82.8	26.9	4.6	6.2
PHY 375WRF	1737	53.3	37	57	1.10	83.2	27.8	4.5	5.4

*continued*

**Table 5.6. Average Performance of Cotton Varieties at Johnston County—2014 (continued)**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/ Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
DP 1454 NR B2RF	1721	57.3	42	24	1.10	82.0	26.8	4.7	5.4
DP 1137B2RF	1715	55.5	41	43	1.11	82.6	26.6	4.7	6.2
+PX 554057 WRF	1703	54.9	38	47	1.17	84.2	29.7	4.1	5.1
+BX 1533 GLT	1687	56.9	47	37	1.17	83.3	30.3	4.4	5.4
DP 1034B2RF	1686	54.8	40	48	1.15	84.0	27.5	4.4	6.7
PHY 427WRF	1676	57.1	33	78	1.10	82.7	28.6	3.7	6.1
+BX 1535 GLT	1665	57.1	37	41	1.19	83.6	31.0	4.0	4.3
DG CT 14515	1652	53.8	33	39	1.13	81.1	29.5	4.3	5.8
+MON 12R224B2R2	1636	56.1	38	61	1.15	83.4	28.2	4.1	5.1
+PX300310WRF	1634	52.5	35	60	1.05	82.1	27.2	4.4	6.2
DP 1252B2RF	1632	52.3	32	67	1.12	83.1	28.0	4.6	6.6
+PX 554063 WRF	1626	56.0	33	49	1.17	83.9	31.2	4.0	4.7
Americot NG5315B2RF	1615	54.6	44	31	1.15	84.4	26.7	4.7	7.1
DP 1050B2RF	1604	54.3	44	38	1.15	83.5	28.1	4.5	6.6
+PX 554010 WRF	1595	55.3	36	59	1.13	83.0	30.0	3.9	5.5
+PX 37520 W3RF	1588	54.7	30	81	1.09	82.2	26.5	4.2	5.2
ST 6448GLB2	1581	55.7	34	68	1.17	81.7	28.6	4.0	4.4
DP 1311B2RF	1558	55.3	41	42	1.13	82.4	27.5	4.1	6.7
PHY 575 WRF	1530	56.6	42	50	1.19	83.9	28.2	4.1	6.1
PHY 417WRF	1520	55.8	36	70	1.11	83.2	27.7	3.8	5.5
DP 1555 B2RF	1519	52.2	36	38	1.13	83.0	29.3	4.6	5.8
ST 6182GLT	1500	50.8	41	43	1.15	84.6	28.1	4.5	5.4
+BX 1531 GLT	1479	51.1	42	49	1.13	84.0	27.4	4.7	5.8
+BX 1532 GLT	1417	51.4	50	37	1.14	83.5	27.8	4.1	5.8
<b>MEAN</b>	<b>1729</b>	<b>54.8</b>	<b>37</b>	<b>51</b>	<b>1.13</b>	<b>83.1</b>	<b>28.5</b>	<b>4.3</b>	<b>5.7</b>
C.V.(%)	10.3								
LSD_10	144								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5.7. Average Performance of Cotton Varieties at Montgomery County—2014**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
+PX300310WRF	1691**	44.5	38	58	1.13	83.5	28.8	5.2	5.4
ST 6182GLT	1686*	48.6	41	68	1.16	85.0	28.4	4.6	5.1
+PX 49907 W3RF	1667*	45.8	34	71	1.12	83.8	29.4	4.6	5.7
+PX 49936 W3RF	1623*	46.0	38	70	1.12	84.6	30.3	4.6	5.9
+BX 1532 GLT	1618*	49.2	37	57	1.13	83.8	27.9	4.9	4.9
PHY 333WRF	1611*	47.1	32	47	1.15	85.3	29.2	4.8	5.1
PHY 495 W3RF	1596*	44.7	34	50	1.12	84.8	30.8	4.7	5.8
FM1944GLB2	1591*	44.6	32	57	1.19	83.7	31.1	4.6	4.5
+PX 554057 WRF	1590*	44.4	36	58	1.17	85.4	29.9	4.3	5.4
PHY 427WRF	1586*	43.4	33	78	1.13	84.3	29.3	4.9	5.8
+PX 554010 WRF	1586*	45.3	35	62	1.13	84.3	29.4	4.4	5.1
PHY 499WRF	1559	44.4	37	66	1.14	84.7	31.6	4.7	5.9
ST 4946GLB2	1558	44.5	31	60	1.13	83.6	29.5	5.0	5.4
+PX 444413 WRF	1552	46.2	35	43	1.23	84.3	31.4	4.0	4.7
PHY 375WRF	1542	44.6	35	65	1.13	83.8	28.5	4.7	5.2
PHY 417WRF	1530	44.2	29	69	1.12	83.7	28.4	4.4	6.4
ST 5032 GLT	1525	42.9	34	62	1.21	84.1	31.0	4.5	5.3
DP 0912B2RF	1524	44.5	34	70	1.10	84.7	28.7	5.3	5.2
Americot NG1511B2RF	1524	46.2	35	71	1.12	82.8	29.4	5.0	6.3
+BX 1531 GLT	1521	47.9	35	59	1.13	83.4	28.5	4.8	5.6
+PX 37508 W3RF	1511	45.4	35	66	1.12	83.9	27.3	4.9	4.9
DP 1034B2RF	1510	45.4	42	52	1.14	84.2	27.9	4.6	6.3
ST 5289 GLT	1509	44.5	37	61	1.13	82.6	29.4	5.2	4.8
DP 1028B2RF	1504	46.4	36	56	1.11	84.0	27.2	5.1	6.1
+PX 3003-14 WRF	1503	44.3	35	71	1.12	84.2	29.3	4.9	5.6
ST 4747GLB2	1501	44.8	33	78	1.16	82.8	28.7	4.7	3.7
DP 1133B2RF	1497	45.2	41	54	1.15	84.4	30.3	4.8	5.7
+PX 554063 WRF	1494	44.6	36	58	1.17	84.4	29.7	4.6	4.8

*continued*

**Table 5.7. Average Performance of Cotton Varieties at Montgomery County—2014 (continued)**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
DP 1555 B2RF	1486	46.2	38	43	1.19	84.6	31.1	4.9	5.1
Croplan CG3787B2RF	1485	45.5	42	59	1.15	84.1	29.0	4.7	6.0
+PX 3122B-51 WRF	1483	44.7	34	62	1.17	85.2	30.8	4.5	5.3
+PX 37520 W3RF	1476	44.8	39	57	1.11	82.7	26.6	4.6	5.4
Dyna-Gro 2285B2RF	1474	44.8	32	66	1.15	84.1	28.5	4.9	5.3
DP 1454 NR B2RF	1463	44.8	37	46	1.09	82.6	28.8	4.6	5.0
MON 12R224B2R2	1453	43.6	34	69	1.16	84.9	28.6	4.4	4.7
DP 1252B2RF	1442	46.4	41	50	1.13	85.0	29.2	4.8	6.2
DP 1321B2RF	1427	44.8	37	56	1.15	84.6	29.2	5.1	6.2
DP 1137B2RF	1416	44.4	41	57	1.16	83.8	28.4	4.8	5.7
+BX 1533 GLT	1412	42.8	42	56	1.21	83.6	32.1	4.4	5.1
DP 1311B2RF	1411	45.5	36	63	1.15	83.8	28.6	4.8	6.8
PHY 575 WRF	1407	42.8	44	73	1.16	83.0	31.0	4.4	5.7
+ST 5115 GLT	1400	44.0	34	50	1.15	83.4	30.3	4.4	5.3
PHY 339WRF	1388	43.0	38	66	1.16	84.1	29.6	4.4	5.4
DG CT 14515	1374	46.0	33	46	1.14	83.9	30.1	4.6	5.6
+BX 1536 GLT	1372	43.7	37	77	1.13	83.7	29.9	4.2	4.4
+BX 1535 GLT	1371	42.8	30	58	1.17	83.4	32.4	4.8	3.7
ST 6448GLB2	1371	42.6	34	60	1.19	82.9	30.2	4.2	4.0
Americot NG5315B2RF	1365	45.0	37	59	1.13	83.9	26.9	5.0	6.1
DP 1050B2RF	1351	45.9	37	64	1.16	84.8	29.3	4.6	5.7
DP 1048B2RF	1349	44.8	37	58	1.17	84.6	28.3	4.7	5.6
DG 2355 B2RF	1184	41.8	34	61	1.14	85.2	30.7	4.9	5.8
<b>MEAN</b>	<b>1491</b>	<b>44.9</b>	<b>36</b>	<b>61</b>	<b>1.15</b>	<b>84.0</b>	<b>29.4</b>	<b>4.7</b>	<b>5.4</b>
C.V.(%)	8								
LSD_10	118								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5.8. Average Performance of Cotton Varieties at Scotland County—2014**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
+PX 554057 WRF	1372**	44.4	39	54	1.19	83.6	31.2	4.3	4.5
+PX 554010 WRF	1337*	45.4	38	44	1.15	84.1	31.1	4.1	4.9
Americot NG1511B2RF	1336*	47.5	36	63	1.13	83.3	28.4	5.1	7.1
DP 1028B2RF	1308*	47.8	35	66	1.12	83.5	25.9	4.9	6.3
DP 1133B2RF	1286*	47.4	35	66	1.16	84.9	28.3	4.7	6.0
DP 1321B2RF	1265*	49.0	33	59	1.15	84.3	29.0	5.0	6.4
PHY 417WRF	1264*	44.8	35	71	1.11	81.8	28.0	4.3	5.7
+PX 554063 WRF	1238	44.6	42	48	1.17	84.2	31.7	4.2	5.0
Dyna-Gro 2285B2RF	1228	45.0	38	66	1.15	83.8	27.2	4.8	5.9
+ST 5115 GLT	1226	43.4	36	52	1.13	82.4	29.8	4.3	4.9
DP 1137B2RF	1223	45.7	41	60	1.15	84.5	27.6	4.8	6.1
DP 0912B2RF	1222	43.9	36	64	1.12	84.1	28.7	5.2	5.6
DP 1034B2RF	1215	46.5	40	57	1.15	83.4	27.2	4.8	6.0
DP 1555 B2RF	1215	49.3	39	53	1.17	82.6	29.8	4.6	5.0
+BX 1532 GLT	1209	50.2	33	61	1.15	83.4	29.2	4.6	5.1
PHY 333WRF	1209	47.0	34	71	1.16	84.2	28.1	4.8	4.8
+PX 49907 W3RF	1205	45.8	39	58	1.13	83.2	29.3	4.7	5.5
+PX 3122B-51 WRF	1200	45.4	30	61	1.19	84.3	29.2	4.8	5.3
PHY 427WRF	1197	43.3	38	67	1.13	83.0	28.9	4.4	5.7
PHY 575 WRF	1190	41.9	39	62	1.18	83.5	29.8	4.3	5.8
PHY PX300310WRF	1186	44.5	35	64	1.09	81.9	30.2	4.9	5.9
+PX 49936 W3RF	1173	46.2	38	51	1.11	82.6	29.2	4.5	6.2
+PX 3003-14 WRF	1166	43.5	33	67	1.15	82.2	28.9	4.7	5.0
FM1944GLB2	1163	43.2	32	69	1.21	83.2	29.7	4.9	4.2
DP 1252B2RF	1158	47.7	41	36	1.15	83.7	28.1	4.9	6.4
ST 4747GLB2	1150	43.5	33	66	1.19	83.2	28.0	4.6	3.8

*continued*

**Table 5.8. Average Performance of Cotton Varieties at Scotland County—2014 (continued)**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/Tex)</b>	<b>Mike</b>	<b>Elongation</b>
PHY 495 W3RF	1145	45.2	35	56	1.10	83.7	29.0	4.7	5.7
ST 4946GLB2	1137	44.7	32	63	1.12	83.0	28.2	4.8	5.4
DG CT 14515	1136	45.2	40	54	1.16	84.1	31.2	4.6	6.0
DP 1048B2RF	1135	44.7	40	55	1.15	83.3	27.5	4.6	5.8
DP 1050B2RF	1130	46.7	40	54	1.13	83.4	27.5	4.7	6.0
Americot NG5315B2RF	1122	46.6	39	54	1.14	82.9	26.6	4.7	6.0
Croplan CG3787B2RF	1116	46.3	34	65	1.14	83.1	28.3	4.9	6.3
+BX 1531 GLT	1115	49.0	37	45	1.13	82.4	27.5	4.8	5.3
DP 1454 NR B2RF	1111	46.3	43	43	1.10	81.5	28.0	4.9	5.6
ST 6182GLT	1093	48.9	40	40	1.15	84.0	27.6	4.6	5.2
PHY 499WRF	1084	46.0	35	60	1.13	83.4	28.9	4.8	6.2
DP 1311B2RF	1077	46.5	32	68	1.15	82.4	28.2	4.8	5.6
PHY 375WRF	1072	44.4	32	82	1.14	81.8	27.4	4.6	4.6
PHY 339WRF	1056	44.0	34	63	1.17	83.6	29.2	4.5	5.0
+PX 444413 WRF	1048	45.5	34	47	1.23	84.6	31.5	4.1	4.7
+PX 37508 W3RF	1020	44.4	30	79	1.13	81.9	27.7	4.5	5.2
ST 5032 GLT	1006	43.2	36	57	1.18	82.9	30.7	4.3	5.4
+BX 1535 GLT	1006	42.8	39	37	1.21	82.5	31.2	4.1	3.6
+BX 1533 GLT	998.6	44.3	43	40	1.19	83.5	31.5	4.5	5.4
ST 5289 GLT	996.9	44.6	36	65	1.13	82.7	28.3	4.9	4.3
ST 6448GLB2	958	43.1	36	62	1.21	83.3	28.9	4.7	4.0
DG 2355 B2RF	957.2	42.5	37	63	1.14	83.2	29.4	4.8	5.9
+MON 12R224B2R2	942.7	41.8	37	66	1.19	84.8	28.8	4.7	4.7
+BX 1536 GLT	896.8	43.7	39	65	1.15	84.2	29.8	4.3	4.9
+PX 37520 W3RF	891.3	43.3	34	70	1.13	82.1	25.7	4.4	5.0
<b>MEAN</b>	<b>1141</b>	<b>45.3</b>	<b>36</b>	<b>59</b>	<b>1.15</b>	<b>83.3</b>	<b>28.8</b>	<b>4.6</b>	<b>5.4</b>
C.V.(%)	11.5								
LSD_10	127								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5-9. Average Performance of Cotton Varieties at Washington County—2014**

<b>Variety/Hybrid or Brand Variety/Hybrid</b>	<b>Lint Yield (Lb/ Acre)</b>	<b>Lint (%)</b>	<b>Plant Height (Inches)</b>	<b>Percent Bolls Opened</b>	<b>UHM S.L. (In.)</b>	<b>Uniformity Index</b>	<b>T1 (G/TEX)</b>	<b>Mike</b>	<b>Elongation</b>
PHY 499WRF	1487**	46.1	35	43	1.15	84.9	30.0	4.8	6.1
+PX 444413 WRF	1478*	44.9	36	38	1.22	84.4	31.0	3.8	4.8
+PX 554010 WRF	1472*	46.6	37	45	1.13	83.3	29.7	4.4	5.7
+PX 554057 WRF	1467*	42.6	40	56	1.16	83.6	29.4	3.7	5.5
PHY 495 W3RF	1427*	44.9	35	49	1.13	84.8	30.4	4.9	6.1
+PX300310WRF	1404*	43.4	40	50	1.13	83.2	30.6	4.3	6.0
+PX 554063 WRF	1397*	44.2	37	47	1.19	84.9	30.6	3.9	5.3
+PX 49936 W3RF	1391*	45.8	39	49	1.12	84.1	30.1	4.7	6.1
+PX 49907 W3RF	1381*	46.6	37	47	1.15	83.8	31.9	4.4	5.7
PHY 375WRF	1368*	43.8	33	55	1.15	83.6	29.0	4.3	5.0
PHY 333WRF	1367*	44.1	39	74	1.15	82.8	29.3	3.3	4.6
DP 1454 NR B2RF	1353	42.2	41	55	1.11	82.6	27.9	4.5	5.5
PHY 339WRF	1351	42.7	37	51	1.19	84.1	29.9	4.4	5.6
+PX 37508 W3RF	1350	42.6	35	44	1.15	84.1	29.9	4.1	4.6
+PX 3122B-51 WRF	1341	45.2	38	63	1.15	83.6	29.9	3.8	5.5
+PX 3003-14 WRF	1323	41.6	38	46	1.13	83.1	30.5	3.9	5.6
+BX 1536 GLT	1316	43.8	31	55	1.17	84.7	32.2	4.2	4.4
+PX 37520 W3RF	1310	43.8	37	40	1.11	81.7	27.5	4.0	5.3
Dyna-Gro 2285B2RF	1307	45.0	30	80	1.17	83.9	29.9	3.8	5.3
DP 1311B2RF	1276	45.1	36	47	1.15	83.1	29.2	4.5	6.6
+BX 1531 GLT	1272	46.7	38	43	1.16	83.4	29.9	4.1	5.3
+BX 1533 GLT	1266	42.9	39	46	1.21	84.1	31.5	4.7	5.8
Americot NG1511B2RF	1266	44.8	37	41	1.15	83.7	30.2	4.6	6.1
PHY 417WRF	1265	43.6	33	64	1.13	83.4	29.5	3.7	5.6
DP 0912B2RF	1251	42.7	31	52	1.12	83.7	29.9	4.8	5.4

*continued*

**Table 5-9. Average Performance of Cotton Varieties at Washington County—2014 (continued)**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/TEX)	Mike	Elongation
DP 1555 B2RF	1250	44.7	37	32	1.16	83.7	31.6	4.2	4.9
DG CT 14515	1243	45.6	38	34	1.14	83.4	30.8	4.3	5.7
ST 6448GLB2	1241	41.7	34	53	1.19	83.1	30.4	4.1	4.1
DP 1321B2RF	1237	43.3	34	63	1.15	84.1	29.2	4.4	6.0
ST 5032 GLT	1213	41.7	32	74	1.17	80.7	30.4	3.2	5.2
ST 5289 GLT	1208	41.7	38	72	1.14	81.5	29.4	3.4	4.3
+MON 12R224B2R2	1198	41.0	35	65	1.17	83.6	30.2	3.5	5.0
+BX 1535 GLT	1197	40.6	34	49	1.22	84.4	33.7	3.7	3.7
FM1944GLB2	1196	40.3	31	72	1.17	83.5	31.2	3.8	5.1
+ST 5115 GLT	1191	42.8	37	48	1.15	83.3	30.3	3.9	5.1
DP 1028B2RF	1186	45.0	35	46	1.13	84.3	29.1	4.5	6.1
+BX 1532 GLT	1185	46.9	35	55	1.16	84.2	29.6	4.0	4.7
PHY 575 WRF	1185	41.6	37	47	1.21	84.2	30.6	4.2	6.0
Croplan CG3787B2RF	1181	44.8	35	37	1.15	85.0	28.7	4.9	6.0
DP 1137B2RF	1166	44.1	40	36	1.13	83.9	29.3	4.7	5.5
ST 4946GLB2	1152	41.6	33	60	1.15	83.9	31.2	4.2	5.7
ST 4747GLB2	1148	44.8	33	69	1.19	82.7	30.3	4.0	3.8
DG 2355 B2RF	1139	41.0	30	67	1.13	83.3	29.5	4.3	5.6
DP 1133B2RF	1134	43.8	36	41	1.17	84.5	30.1	4.3	5.6
PHY 427WRF	1104	41.7	33	65	1.13	83.3	30.6	3.4	5.5
ST 6182GLT	1098	47.2	42	53	1.15	84.7	29.1	4.4	5.4
DP 1034B2RF	1089	44.1	36	40	1.15	85.3	28.1	4.6	6.4
DP 1048B2RF	1083	44.2	39	45	1.16	84.6	28.3	4.7	6.5
DP 1050B2RF	1076	45.1	40	27	1.17	84.9	27.9	4.8	5.8
DP 1252B2RF	1070	43.4	42	19	1.16	84.9	28.2	5.0	6.7
Americot NG5315B2RF	891	43.6	41	17	1.15	85.3	27.6	4.5	6.0
<b>MEAN</b>	<b>1254</b>	<b>43.8</b>	<b>36</b>	<b>50</b>	<b>1.15</b>	<b>83.8</b>	<b>29.9</b>	<b>4.2</b>	<b>5.4</b>
C.V.(%)	13.7								
LSD_10	120								

\*\*Highest yielder. \*Not significantly different from highest yielder.

+Experimental

**Table 5-10. Average Performance of Conventional Cotton Varieties at Bertie County—2014**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
DP 1321B2RF	1720**	45.0	45	41	1.17	84.6	28.8	5.2	6.1
Seed Source Genetics UA222	1669*	45.1	44	27	1.23	84.8	30.5	4.4	6.2
PHY 339WRF	1655*	44.2	44	41	1.17	83.5	29.0	4.5	5.6
ST 4747GLB2	1614*	44.3	40	46	1.18	83.3	30.6	4.7	3.9
Seed Source HQ210CT	1460	42.1	38	40	1.15	83.6	30.6	4.9	5.1
<b>MEAN</b>	<b>1624</b>	<b>44.2</b>	<b>42</b>	<b>39</b>	<b>1.18</b>	<b>83.9</b>	<b>29.9</b>	<b>4.7</b>	<b>5.4</b>
C.V.(%)	12.7								
LSD_10	228								

\*\*Highest yielder. \*Not significantly different from highest yielder.

**Table 5-11. Average Performance of Conventional Cotton Varieties at Edgecombe County—2014**

Variety/Hybrid or Brand Variety/Hybrid	Lint Yield (Lb/Acre)	Lint (%)	Plant Height (Inches)	Percent Bolls Opened	UHM S.L. (In.)	Uniformity Index	T1 (G/Tex)	Mike	Elongation
DP 1321B2RF	1723**	45.5	42	49	1.15	84.4	29.1	4.9	6.4
ST 4747GLB2	1644*	45.9	38	60	1.19	82.4	28.5	4.5	4.0
PHY 339WRF	1609*	44.6	45	42	1.17	84.0	27.7	4.5	5.6
Seed Source Genetics UA222	1131	38.3	38	44	1.22	85.1	29.1	4.7	6.0
Seed Source HQ210CT	974.4	42.8	36	48	1.12	83.5	29.4	5.1	5.1
<b>MEAN</b>	<b>1416</b>	<b>43.4</b>	<b>40</b>	<b>49</b>	<b>1.17</b>	<b>83.9</b>	<b>28.7</b>	<b>4.7</b>	<b>5.4</b>
C.V.(%)	9.4								
LSD_10	147								

\*\*Highest yielder. \*Not significantly different from highest yielder.

**Table 5-12. Relative Ranking of Cotton Cultivars for Yield, Fiber Elongation and Micronaire—2014**

Variety or Brand Variety	Lint Yield (Lb/Acre)	Variety or Brand Variety	UMH S.L.> (In.)	Variety or Brand Variety	Mike
PHY 333WRF	1548	PX 444413 WRF	1.23	PX 444413 WRF	4.0
PX 49936 W3RF	1522	Seed Source Genetics UA222	1.23	PHY 417WRF	4.0
PX 49907 W3RF	1515	BX 1533 GLT	1.21	PHY 427WRF	4.1
PHY 495 W3RF	1514	BX 1535 GLT	1.21	ST 5032 GLT	4.1
DP 1321B2RF	1510	PHY 575 WRF	1.20	PX 554057 WRF	4.1
PX 554010 WRF	1501	Bayer FM1944GLB2	1.20	MON 12R224B2R2	4.2
PX 554057 WRF	1497	ST 6448GLB2	1.19	PX 554063 WRF	4.2
PHY 499WRF	1495	ST 5032 GLT	1.19	PHY 575 WRF	4.2
ST 4946GLB2	1490	PX 554057 WRF	1.19	PX 554010 WRF	4.2
Americot NG1511B2RF	1485	ST 4747GLB2	1.18	BX 1535 GLT	4.2
DP 0912B2RF	1484	PX 554063 WRF	1.18	PX 37505 W3RF	4.2
PX 444413 WRF	1484	MON 12R224B2R2	1.17	BX 1536 GLT	4.2
PX 3122B-51 WRF	1483	PHY 339WRF	1.17	ST 5115 GLT	4.3
PHY PX300310WRF	1481	DP 1555 B2RF	1.17	ST 6448GLB2	4.3
Bayer FM1944GLB2	1468	PX 3122B-51 WRF	1.17	PHY 339WRF	4.4
Dyna-Gro 2285B2RF	1464	DP 1050B2RF	1.16	ST 5289 GLT	4.4
PHY 339WRF	1461	PHY 333WRF	1.16	PHY 333WRF	4.4
PHY 375WRF	1451	DP 1133B2RF	1.16	PX 37508 W3RF	4.4
PX 554063 WRF	1436	ST 6182GLT	1.16	PX 3003-14 WRF	4.4
ST 4747GLB2	1431	DP 1048B2RF	1.16	PX 3122B-51 WRF	4.4
PX 3003-14 WRF	1430	Dyna-Gro 2285B2RF	1.15	BX 1532 GLT	4.4
ST 5032 GLT	1423	DP 1321B2RF	1.15	BX 1533 GLT	4.4
PX 37508 W3RF	1422	ST 5115 GLT	1.15	ST 4747GLB2	4.5
DP 1133B2RF	1419	DP 1034B2RF	1.15	Bayer FM1944GLB2	4.5
Seed Source Genetics UA222	1400	BX 1531 GLT	1.15	Dyna-Gro 2285B2RF	4.5
DP 1028B2RF	1396	DG CT 14515	1.15	DG 2355 B2RF	4.5
PHY 427WRF	1393	BX 1532 GLT	1.15	ST 6182GLT	4.5
ST 5289 GLT	1385	Croplan CG3787B2RF	1.15	PHY 375WRF	4.5

*continued*

**Table 5-12. Relative Ranking of Cotton Cultivars for Yield, Fiber Elongation and Micronaire—2014 (continued)**

Variety or Brand Variety	Lint Yield (Lb/Acre)	Variety or Brand Variety	UMH S.L.> (In.)	Variety or Brand Variety	Mike
PHY 417WRF	1384	Americot NG5315B2RF	1.15	DG CT 14515	4.5
Croplan CG3787B2RF	1382	PX 554010 WRF	1.15	DP 1311B2RF	4.5
ST 5115 GLT	1381	DP 1252B2RF	1.15	PX 49907 W3RF	4.5
MON 12R224B2R2	1371	BX 1536 GLT	1.14	Seed Source Genetics UA222	4.6
PX 37520 W3RF	1361	DP 1311B2RF	1.14	DP 1555 B2RF	4.6
DG CT 14515	1353	PHY 499WRF	1.14	BX 1531 GLT	4.6
DP 1137B2RF	1346	ST 5289 GLT	1.14	PX 49936 W3RF	4.6
DP 1454 NR B2RF	1342	Americot NG1511B2RF	1.14	DP 1048B2RF	4.7
BX 1532 GLT	1340	DP 1137B2RF	1.14	DP 1133B2RF	4.7
DP 1555 B2RF	1332	PX 3003-14 WRF	1.14	PHY PX300310WRF	4.7
BX 1536 GLT	1321	PX 37508 W3RF	1.14	DP 1034B2RF	4.7
ST 6182GLT	1310	DG 2355 B2RF	1.14	PHY 495 W3RF	4.7
DP 1034B2RF	1309	PX 49907 W3RF	1.14	DP 1050B2RF	4.7
DP 1311B2RF	1303	Seed Source HQ210CT	1.13	ST 4946GLB2	4.7
BX 1531 GLT	1302	PHY 427WRF	1.13	Croplan CG3787B2RF	4.7
BX 1533 GLT	1298	DP 1028B2RF	1.13	Americot NG5315B2RF	4.7
DP 1048B2RF	1292	PHY 375WRF	1.13	DP 1454 NR B2RF	4.7
ST 6448GLB2	1278	PHY 417WRF	1.12	PHY 499WRF	4.8
PHY 575 WRF	1275	ST 4946GLB2	1.12	DP 1137B2RF	4.8
DG 2355 B2RF	1251	PHY 495 W3RF	1.12	DP 1028B2RF	4.8
DP 1050B2RF	1250	PX 49936 W3RF	1.12	DP 1321B2RF	4.9
DP 1252B2RF	1250	DP 0912B2RF	1.12	Americot NG1511B2RF	4.9
BX 1535 GLT	1235	PX 37520 W3RF	1.12	DP 1252B2RF	4.9
Americot NG5315B2RF	1219	DP 1454 NR B2RF	1.11	Seed Source HQ210CT	5.0
Seed Source HQ210CT	1217	PHY PX300310WRF	1.11	DP 0912B2RF	5.0