

Table 5-1A. Three-Year Statewide (North Carolina) Average Performance of OVT Cotton CONVENTIONAL Varieties—2013 – 2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| PHY 339 WRF | 1501 ** | 44.4 | 41 | 43 | 1.15 | 82.3 | 28.8 | 4.5 | 5.2 |
| ST 4747 GLB2 | 1413 * | 43.9 | 34 | 39 | 1.18 | 83.1 | 29.6 | 4.6 | 4.5 |
| Seed Source Genetics UA 222 | 1274 * | 43.1 | 36 | 28 | 1.20 | 83.4 | 29.8 | 4.7 | 6.0 |
| Seed Source Genetics HQ 210 CT | 1185 | 41.5 | 33 | 35 | 1.13 | 82.5 | 30.1 | 4.9 | 5.8 |
| MEAN | 1343 | 43.2 | 36 | 36 | 1.17 | 82.8 | 29.6 | 4.7 | 5.4 |
| C.V. (%) | 12 | | | | | | | | |
| BLSD (K=50) | 286 | | | | | | | | |
| S.E. | 93 | | | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
 3 locations
 +Experimental

Table 5-1B. Three-Year Statewide (North Carolina) Average Performance of OVT Cotton TRANSGENIC Varieties—2013 – 2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| PHY 333 WRF | 1207 ** | 46.4 | 36 | 61 | 1.15 | 83.0 | 28.8 | 4.3 | 5.4 |
| ST 4946 GLB2 | 1150 * | 44.7 | 33 | 51 | 1.12 | 82.9 | 28.9 | 4.6 | 5.9 |
| PHY 499 WRF | 1149 * | 46.8 | 35 | 53 | 1.13 | 83.2 | 29.8 | 4.7 | 6.3 |
| FM 1944 GLB2 | 1136 * | 43.9 | 35 | 49 | 1.17 | 82.9 | 29.8 | 4.5 | 5.0 |
| PHY 487 WRF | 1120 | 45.3 | 35 | 55 | 1.11 | 82.6 | 28.8 | 4.6 | 6.1 |
| DP 1555 B2RF | 1091 | 47.1 | 36 | 43 | 1.14 | 82.5 | 29.3 | 4.6 | 5.7 |
| PHY 427 WRF | 1070 | 44.4 | 35 | 62 | 1.13 | 83.0 | 28.7 | 4.3 | 6.1 |
| ST 6448 GLB2 | 1039 | 43.8 | 35 | 51 | 1.17 | 82.3 | 29.1 | 4.4 | 4.9 |
| ST 4747 GLB2 | 1010 | 45.8 | 30 | 68 | 1.15 | 82.2 | 28.4 | 4.3 | 4.8 |
| MEAN | 1111 | 45.3 | 35 | 54 | 1.14 | 82.7 | 29.1 | 4.5 | 5.6 |
| C.V. (%) | 10 | | | | | | | | |
| BLSD (K=50) | 79 | | | | | | | | |
| S.E. | 31 | | | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
 3 locations
 +Experimental

Table 5-2A. Two-Year Statewide (North Carolina) Average Performance of OVT Cotton CONVENTIONAL Varieties—2014 – 2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|-------------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| PHY 339 WRF | 1361 ** | 46.0 | 37 | 45 | 1.16 | 82.8 | 28.7 | 4.5 | 5.4 |
| ST 4747 GLB2 | 1298 * | 44.9 | 33 | 42 | 1.18 | 82.4 | 29.2 | 4.6 | 4.0 |
| Seed Source Genetics UA 222 | 1204 * | 42.8 | 34 | 34 | 1.22 | 84.1 | 30.5 | 4.6 | 6.3 |
| Seed Source Genetics HQ2 10CT | 1070 | 42.5 | 34 | 40 | 1.14 | 82.9 | 30.7 | 5.0 | 5.4 |
| MEAN | 1234 | 44.0 | 35 | 40 | 1.18 | 83.1 | 29.8 | 4.7 | 5.3 |
| C.V. (%) | 12.5 | | | | | | | | |
| BLSD (K=50) | 227 | | | | | | | | |
| S.E. | 77.3 | | | | | | | | |

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

4 locations

+Experimental

Table 5-2B. Two-Year Statewide (North Carolina) Average Performance of OVT Cotton TRANSGENIC Varieties—2014 – 2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| PHY 333 WRF | 1241 ** | 47.5 | 36 | 66 | 1.14 | 83.0 | 28.7 | 4.6 | 5.2 |
| PHY 495 W3RF | 1215 * | 47.0 | 35 | 58 | 1.10 | 83.0 | 30.0 | 4.7 | 6.3 |
| PHY 499 WRF | 1213 * | 47.0 | 36 | 59 | 1.12 | 83.2 | 29.9 | 4.8 | 6.5 |
| ST 4946 GLB2 | 1201 * | 45.7 | 33 | 60 | 1.11 | 82.7 | 28.8 | 4.7 | 5.9 |
| PHY 312 WRF | 1199 * | 46.9 | 35 | 64 | 1.14 | 83.4 | 29.4 | 4.5 | 5.5 |
| PHY 487 WRF | 1190 * | 45.6 | 36 | 60 | 1.09 | 82.1 | 28.5 | 4.7 | 6.2 |
| PHY 444 WRF | 1184 * | 47.3 | 34 | 51 | 1.19 | 83.3 | 30.7 | 4.1 | 5.2 |
| PHY 552 WRF | 1163 * | 46.5 | 37 | 56 | 1.14 | 83.2 | 30.3 | 4.3 | 5.3 |
| +BX 1532 GLT | 1149 | 49.8 | 35 | 58 | 1.12 | 82.5 | 28.2 | 4.6 | 5.3 |
| ST 5032 GLT | 1143 | 45.2 | 33 | 62 | 1.15 | 81.9 | 29.5 | 4.3 | 5.6 |
| FM 1944 GLB2 | 1140 | 44.7 | 33 | 58 | 1.17 | 82.4 | 30.2 | 4.5 | 4.6 |
| ST 5115 GLT | 1136 | 46.3 | 35 | 55 | 1.12 | 81.9 | 29.2 | 4.4 | 5.4 |
| BX 1531 GLT | 1129 | 48.9 | 36 | 57 | 1.11 | 82.2 | 27.8 | 4.8 | 5.6 |
| DG 2615 B2RF | 1128 | 46.9 | 36 | 49 | 1.13 | 82.7 | 30.1 | 4.6 | 5.8 |
| DP 1555 B2RF | 1127 | 47.6 | 37 | 49 | 1.14 | 82.3 | 29.7 | 4.7 | 5.4 |
| ST 5289 GLT | 1114 | 45.7 | 36 | 65 | 1.11 | 82.1 | 28.3 | 4.6 | 4.8 |
| ST 4747 GLB2 | 1112 | 45.9 | 32 | 67 | 1.14 | 81.5 | 28.1 | 4.5 | 4.1 |
| ST 6182 GLT | 1107 | 48.8 | 39 | 57 | 1.13 | 83.2 | 27.9 | 4.7 | 5.3 |
| PHY 427 WRF | 1104 | 45.1 | 35 | 71 | 1.11 | 82.9 | 29.0 | 4.3 | 6.0 |
| ST 6448 GLB2 | 1059 | 44.6 | 36 | 58 | 1.17 | 82.2 | 29.5 | 4.5 | 4.4 |
| MEAN | 1153 | 46.6 | 35 | 59 | 1.13 | 82.6 | 29.2 | 4.5 | 5.4 |
| C.V. (%) | 8.8 | | | | | | | | |
| BLSD (K=50) | 81 | | | | | | | | |
| S.E. | 29.4 | | | | | | | | |

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

4 locations

+Experimental

Table 5-3A. Average Performance of Cotton Varieties Across Locations—CONVENTIONAL VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| DP 1252 B2RF | 1191 ** | 47.4 | 35 | 38 | 1.13 | 82.2 | 28.5 | 4.9 | 6.8 |
| PHY 339 WRF | 1090 * | 47.5 | 30 | 48 | 1.16 | 81.9 | 29.1 | 4.5 | 5.2 |
| Seed Source Genetics UA 222 | 1009 * | 43.8 | 28 | 32 | 1.22 | 83.3 | 31.2 | 4.7 | 6.5 |
| ST 4747 GLB2 | 968 * | 44.7 | 27 | 31 | 1.18 | 82.0 | 28.8 | 4.7 | 4.1 |
| Seed Source Genetics HQ 210 CT | 923 * | 42.6 | 32 | 37 | 1.14 | 82.3 | 31.5 | 4.9 | 5.7 |
| MEAN | 1036 | 45.2 | 30 | 37 | 1.17 | 82.3 | 29.8 | 4.7 | 5.7 |
| C.V. (%) | 12.6 | | | | | | | | |
| S.E. | 299 | | | | | | | | |
| BLSD (K=50) | 92.6 | | | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
6 locations
+Experimental

Table 5-3B. Average Performance of Cotton Varieties Across Locations—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-----------------------|----------------------|-------------------|------------------|------------|------|------------|
| DP 1558 NRB 2RF | 965 ** | 47.3 | 33 | 61 | 1.12 | 82.3 | 29.5 | 5.0 | 5.8 |
| DG 3757 B2XF | 960 * | 47.9 | 31 | 67 | 1.08 | 81.4 | 26.6 | 4.7 | 6.3 |
| +BX 1532 GLT | 959 * | 50.6 | 30 | 73 | 1.10 | 81.6 | 27.9 | 4.8 | 5.6 |
| +BX 1531 GLT | 957 * | 49.9 | 31 | 74 | 1.08 | 80.9 | 27.3 | 5.0 | 5.8 |
| DG 3526 B2XF | 953 * | 48.8 | 33 | 65 | 1.08 | 82.1 | 27.2 | 4.9 | 6.9 |
| NG 3522 B2XF | 944 * | 47.3 | 30 | 74 | 1.05 | 80.5 | 25.7 | 4.8 | 5.5 |
| DP 1639 B2XF | 942 * | 47.6 | 32 | 65 | 1.10 | 82.7 | 29.2 | 5.0 | 6.3 |
| DP 1646 B2XF | 940 * | 48.1 | 34 | 70 | 1.16 | 81.8 | 28.3 | 4.6 | 6.3 |
| DP 1522 B2XF | 934 * | 46.6 | 33 | 76 | 1.10 | 82.1 | 28.0 | 4.9 | 7.1 |
| PHY 333 WRF | 934 * | 47.8 | 33 | 79 | 1.11 | 82.0 | 28.4 | 4.7 | 5.5 |
| DP 1614 B2XF | 931 * | 47.7 | 30 | 74 | 1.12 | 81.6 | 27.9 | 4.9 | 6.1 |
| PHY 499 WRF | 931 * | 46.6 | 32 | 70 | 1.09 | 82.1 | 29.8 | 4.8 | 6.8 |
| MON 15R513 B2XF | 926 * | 45.6 | 33 | 77 | 1.12 | 82.1 | 28.5 | 4.9 | 6.0 |
| DP 1555 B2RF | 921 * | 47.9 | 33 | 67 | 1.10 | 81.3 | 29.1 | 4.9 | 5.8 |
| PHY 495 W3RF | 916 * | 47.2 | 30 | 70 | 1.08 | 81.6 | 29.8 | 4.7 | 6.6 |
| DP 1538 B2XF | 916 * | 47.7 | 32 | 70 | 1.07 | 81.9 | 27.4 | 4.8 | 6.1 |
| PHY 312 WRF | 914 * | 47.3 | 31 | 77 | 1.12 | 82.7 | 29.4 | 4.7 | 5.6 |
| ST 4946 GLB2 | 912 * | 45.6 | 30 | 68 | 1.09 | 81.9 | 28.6 | 4.7 | 6.2 |
| DP 1553 B2XF | 905 * | 47.2 | 35 | 61 | 1.14 | 82.7 | 28.5 | 4.7 | 6.2 |
| ST 6182 GLT | 905 * | 49.1 | 32 | 69 | 1.11 | 81.8 | 27.7 | 4.9 | 5.5 |
| DG 2615 B2RF | 903 * | 46.7 | 32 | 64 | 1.11 | 82.1 | 29.7 | 4.7 | 6.0 |
| NG 3405 B2XF | 902 * | 46.8 | 30 | 75 | 1.05 | 80.9 | 25.1 | 4.7 | 5.5 |
| ST 4949 GLT | 900 * | 48.7 | 32 | 71 | 1.07 | 81.1 | 27.6 | 4.9 | 6.0 |
| PHY 487 WRF | 898 * | 45.7 | 31 | 72 | 1.08 | 81.4 | 28.2 | 4.7 | 6.3 |
| ST 4848 GLT | 896 * | 48.2 | 31 | 73 | 1.09 | 81.6 | 27.9 | 5.0 | 5.6 |
| DP 1612 B2XF | 894 * | 46.0 | 30 | 75 | 1.10 | 81.7 | 28.5 | 4.8 | 6.7 |
| PHY 552 WRF | 891 * | 46.5 | 32 | 72 | 1.10 | 82.1 | 29.7 | 4.5 | 5.7 |
| ST 5115 GLT | 890 * | 46.9 | 30 | 72 | 1.09 | 80.9 | 28.8 | 4.5 | 5.6 |
| PHY 444 WRF | 884 * | 47.5 | 30 | 63 | 1.15 | 82.1 | 30.1 | 4.3 | 5.6 |
| DG 3385 B2XF | 880 * | 47.1 | 31 | 71 | 1.10 | 82.1 | 27.9 | 4.8 | 6.5 |
| NG 5007 B2XF | 871 * | 47.3 | 31 | 69 | 1.10 | 81.3 | 27.1 | 4.7 | 6.2 |
| NG 3406 B2XF | 868 | 47.1 | 31 | 73 | 1.08 | 81.9 | 27.0 | 4.7 | 6.7 |

continued

Table 5-3B. Average Performance of Cotton Varieties Across Locations—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| ST 5032 GLT | 863 | 45.1 | 30 | 72 | 1.10 | 80.9 | 28.8 | 4.5 | 6.0 |
| ST 4747 GLB2 | 858 | 45.6 | 29 | 75 | 1.11 | 80.6 | 27.2 | 4.6 | 4.5 |
| DP 1518 B2XF | 857 | 45.6 | 31 | 79 | 1.10 | 81.3 | 27.1 | 4.5 | 5.6 |
| ST 5289 GLT | 843 | 45.6 | 33 | 79 | 1.08 | 81.7 | 28.0 | 4.7 | 5.1 |
| ST 6448 GLB2 | 840 | 44.5 | 33 | 69 | 1.15 | 81.5 | 29.3 | 4.6 | 4.6 |
| +BX 1634 GLT | 833 | 46.9 | 30 | 71 | 1.10 | 81.4 | 28.2 | 4.7 | 4.6 |
| PHY 427 WRF | 815 | 45.2 | 33 | 75 | 1.09 | 82.1 | 28.5 | 4.5 | 6.3 |
| FM 1944 GLB2 | 813 | 44.5 | 30 | 67 | 1.14 | 81.1 | 29.5 | 4.6 | 4.7 |
| MEAN | 902 | 47.0 | 31 | 71 | 1.10 | 81.7 | 28.2 | 4.7 | 5.9 |
| C.V. (%) | 8.1 | | | | | | | | |
| BLSD (K=50) | 95 | | | | | | | | |
| S.E. | 29.7 | | | | | | | | |

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

6 locations

+Experimental

Table 5-4A. Average Performance of Cotton Varieties at Bertie County—CONVENTIONAL VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| DP 1252 B2RF | 1328 ** | 46.7 | 43 | 08 | 1.14 | 81.3 | 28.4 | 4.8 | 6.7 |
| PHY 339 WRF | 1030 | 46.5 | 33 | 29 | 1.17 | 81.4 | 28.8 | 4.6 | 5.1 |
| Seed Source Genetics UA 222 | 966 | 42.3 | 32 | 02 | 1.24 | 83.1 | 30.3 | 4.8 | 6.4 |
| ST 4747 GLB2 | 939 | 43.7 | 29 | 18 | 1.21 | 82.6 | 28.9 | 4.8 | 4.0 |
| Seed Source Genetics HQ 210 CT | 817 | 41.3 | 32 | 15 | 1.15 | 81.3 | 30.9 | 4.9 | 5.7 |
| MEAN | 1016 | 44.1 | 34 | 14 | 1.18 | 81.9 | 29.4 | 4.8 | 5.6 |
| C.V. (%) | 12.8 | | | | | | | | |
| LSD_10 | 144 | | | | | | | | |

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

+Experimental

Table 5-4B. Average Performance of Cotton Varieties at Bertie County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-----------------------|----------------------|-------------------|------------------|------------|------|------------|
| DP 1555 B2RF | 1423 ** | 47.5 | 34 | 30 | 1.15 | 82.3 | 29.6 | 4.8 | 5.7 |
| +BX 1531 GLT | 1385 * | 49.7 | 32 | 44 | 1.13 | 81.2 | 27.9 | 5.0 | 5.8 |
| DP 1558 NR B2RF | 1336 * | 46.7 | 34 | 22 | 1.15 | 82.8 | 29.3 | 5.1 | 5.9 |
| DG 3757 B2XF | 1334 * | 47.7 | 31 | 22 | 1.14 | 82.2 | 26.8 | 4.7 | 6.4 |
| ST 4848 GLT | 1327 * | 47.8 | 30 | 50 | 1.14 | 83.2 | 28.4 | 4.8 | 6.1 |
| PHY 499 WRF | 1326 * | 46.8 | 32 | 43 | 1.11 | 83.3 | 29.9 | 4.8 | 7.0 |
| NG 3522 B2XF | 1292 * | 47.7 | 27 | 39 | 1.09 | 80.1 | 25.7 | 4.8 | 5.6 |
| NG 3405 B2XF | 1291 * | 46.8 | 30 | 33 | 1.10 | 80.6 | 25.9 | 4.5 | 5.6 |
| DG 3526 B2XF | 1288 * | 48.2 | 33 | 28 | 1.15 | 82.6 | 27.9 | 4.8 | 7.3 |
| DP 1646 B2XF | 1285 * | 49.7 | 34 | 27 | 1.23 | 83.6 | 28.0 | 4.5 | 6.4 |
| DP 1614 B2XF | 1279 * | 48.3 | 27 | 37 | 1.15 | 80.3 | 26.6 | 5.0 | 6.9 |
| DP 1538 B2XF | 1276 * | 47.2 | 34 | 23 | 1.11 | 82.4 | 27.2 | 4.7 | 6.6 |
| ST 4747 GLB2 | 1265 * | 44.9 | 29 | 30 | 1.19 | 82.0 | 30.0 | 4.7 | 3.9 |
| ST 5115 GLT | 1263 * | 49.3 | 26 | 35 | 1.14 | 82.1 | 29.1 | 4.6 | 5.9 |
| +BX 1532 GLT | 1261 * | 50.6 | 30 | 44 | 1.13 | 81.4 | 27.4 | 4.4 | 5.3 |
| DG 2615 B2RF | 1261 * | 47.9 | 31 | 19 | 1.14 | 82.3 | 30.4 | 4.3 | 5.8 |
| DP 1639 B2XF | 1225 | 46.7 | 33 | 31 | 1.16 | 83.8 | 30.3 | 4.9 | 6.3 |
| ST 4946 GLB2 | 1218 | 45.4 | 28 | 37 | 1.15 | 82.7 | 29.0 | 4.9 | 6.0 |
| PHY 495 W3RF | 1214 | 46.6 | 30 | 27 | 1.10 | 81.8 | 29.5 | 4.6 | 6.6 |
| MON 15R513 B2XF | 1212 | 44.8 | 32 | 42 | 1.21 | 83.2 | 30.0 | 4.9 | 5.9 |
| PHY 552 WRF | 1207 | 46.3 | 32 | 32 | 1.17 | 82.9 | 29.9 | 4.3 | 5.6 |
| DG 3385 B2XF | 1207 | 47.5 | 31 | 39 | 1.13 | 82.0 | 27.0 | 5.2 | 6.1 |
| ST 6448 GLB2 | 1198 | 43.8 | 31 | 29 | 1.19 | 82.4 | 29.2 | 4.6 | 4.5 |
| PHY 444 WRF | 1196 | 46.6 | 32 | 41 | 1.24 | 83.5 | 30.5 | 4.1 | 5.4 |
| NG 5007 B2XF | 1195 | 47.0 | 32 | 47 | 1.13 | 82.5 | 26.6 | 4.7 | 6.1 |
| ST 4949 GLT | 1173 | 48.3 | 33 | 36 | 1.13 | 82.4 | 28.8 | 4.5 | 6.3 |
| DP 1553 B2XF | 1158 | 45.9 | 34 | 24 | 1.19 | 83.8 | 28.6 | 4.5 | 6.8 |
| PHY 487 WRF | 1158 | 44.4 | 31 | 40 | 1.11 | 81.0 | 28.0 | 4.7 | 5.9 |
| PHY 333 WRF | 1151 | 48.1 | 30 | 49 | 1.14 | 81.9 | 28.8 | 5.0 | 5.3 |
| +BX 1634 GLT | 1150 | 45.8 | 32 | 27 | 1.17 | 82.9 | 30.1 | 4.9 | 4.9 |
| DP 1612 B2XF | 1142 | 46.0 | 30 | 49 | 1.16 | 82.1 | 28.0 | 4.9 | 6.5 |
| ST 5032 GLT | 1130 | 44.2 | 27 | 31 | 1.18 | 82.0 | 29.3 | 4.5 | 5.4 |

continued

Table 5-4B. Average Performance of Cotton Varieties at Bertie County—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| ST 6182 GLT | 1128 | 49.3 | 31 | 46 | 1.13 | 82.4 | 27.4 | 4.7 | 5.5 |
| FM 1944 GLB2 | 1112 | 43.5 | 28 | 30 | 1.19 | 81.6 | 30.8 | 4.8 | 4.5 |
| PHY 312 WRF | 1110 | 45.3 | 31 | 50 | 1.16 | 82.4 | 28.8 | 4.7 | 4.9 |
| DP 1522 B2XF | 1090 | 47.4 | 30 | 49 | 1.14 | 83.1 | 27.6 | 5.2 | 7.1 |
| DP 1518 B2XF | 1083 | 45.5 | 31 | 53 | 1.15 | 82.1 | 27.1 | 4.5 | 5.8 |
| ST 5289 GLT | 1071 | 45.6 | 29 | 60 | 1.11 | 81.2 | 28.4 | 5.0 | 4.9 |
| NG 3406 B2XF | 1043 | 45.6 | 32 | 29 | 1.13 | 81.7 | 27.6 | 4.8 | 6.7 |
| PHY 427 WRF | 1026 | 45.2 | 35 | 34 | 1.12 | 83.4 | 27.4 | 4.6 | 6.4 |
| MEAN | 1212 | 46.8 | 31 | 37 | 1.15 | 82.3 | 28.4 | 4.7 | 5.9 |
| C.V. (%) | 15.1 | | | | | | | | |
| LSD_10 | 183 | | | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
+Experimental

Table 5-5A. Average Performance of Cotton Varieties at Edgecombe County—CONVENTIONAL VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| DP 1252 B2RF | 1149 ** | 48.6 | 27 | 68 | 1.15 | 82.5 | 29.4 | 4.4 | 5.4 |
| PHY 339 WRF | 1054 * | 48.1 | 27 | 68 | 1.11 | 83.0 | 28.6 | 5.0 | 6.8 |
| Seed Source Genetics UA 222 | 1052 * | 45.3 | 25 | 62 | 1.21 | 83.5 | 32.1 | 4.5 | 6.6 |
| ST 4747 GLB2 | 1030 | 43.9 | 32 | 59 | 1.12 | 83.4 | 32.1 | 5.0 | 5.8 |
| Seed Source Genetics HQ 210 CT | 996 | 45.7 | 24 | 43 | 1.16 | 81.3 | 28.8 | 4.7 | 4.2 |
| MEAN | 1056 | 46.3 | 27 | 60 | 1.15 | 82.7 | 30.2 | 4.7 | 5.8 |
| C.V. (%) | 10.2 | | | | | | | | |
| LSD_10 | 118 | | | | | | | | |

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

+Experimental

Table 5-5B. Average Performance of Cotton Varieties at Edgecombe County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-----------------------|----------------------|-------------------|------------------|------------|------|------------|
| PHY 499 WRF | 1279 ** | 47.5 | 28 | 66 | 1.11 | 83.7 | 31.4 | 5.1 | 6.7 |
| PHY 312 WRF | 1276 * | 47.8 | 24 | 77 | 1.10 | 84.1 | 30.3 | 5.0 | 5.9 |
| PHY 444 WRF | 1275 * | 48.9 | 25 | 56 | 1.17 | 82.7 | 32.3 | 4.1 | 5.6 |
| PHY 495 W3RF | 1258 * | 48.3 | 23 | 81 | 1.07 | 83.2 | 31.2 | 4.7 | 6.4 |
| DP 1558 NR B2RF | 1258 * | 48.0 | 28 | 62 | 1.11 | 82.5 | 32.1 | 5.5 | 6.0 |
| +BX 1532 GLT | 1250 * | 50.8 | 26 | 73 | 1.13 | 82.7 | 29.7 | 5.1 | 5.0 |
| PHY 333 WRF | 1229 * | 48.4 | 28 | 82 | 1.12 | 83.5 | 30.2 | 4.9 | 5.8 |
| DP 1639 B2XF | 1204 * | 49.6 | 27 | 73 | 1.13 | 84.5 | 31.0 | 5.3 | 6.3 |
| ST 6182 GLT | 1197 * | 50.2 | 28 | 77 | 1.12 | 83.0 | 29.5 | 5.2 | 5.7 |
| +BX 1531 GLT | 1197 * | 51.4 | 24 | 72 | 1.08 | 81.4 | 27.6 | 5.3 | 5.5 |
| DP 1614 B2XF | 1196 * | 48.8 | 26 | 69 | 1.18 | 84.5 | 30.4 | 5.1 | 6.6 |
| DP 1555 B2RF | 1192 * | 49.1 | 31 | 68 | 1.10 | 81.9 | 31.2 | 4.9 | 5.7 |
| ST 4949 GLT | 1187 * | 49.9 | 22 | 68 | 1.06 | 82.1 | 29.0 | 5.5 | 6.3 |
| NG 3522 B2XF | 1176 * | 47.3 | 27 | 79 | 1.03 | 81.1 | 26.3 | 5.1 | 5.5 |
| DP 1553 B2XF | 1172 * | 48.2 | 31 | 59 | 1.14 | 83.0 | 30.0 | 4.9 | 6.5 |
| DG 3757 B2XF | 1158 * | 49.1 | 25 | 74 | 1.09 | 82.4 | 28.2 | 5.1 | 6.6 |
| DG 3526 B2XF | 1141 | 49.9 | 29 | 71 | 1.09 | 82.6 | 28.6 | 5.2 | 6.9 |
| DP 1522 B2XF | 1136 | 47.7 | 30 | 68 | 1.13 | 82.6 | 30.6 | 4.9 | 7.5 |
| NG 3406 B2XF | 1131 | 47.9 | 27 | 74 | 1.09 | 82.5 | 29.2 | 4.9 | 6.3 |
| DG 2615 B2RF | 1129 | 46.5 | 26 | 66 | 1.08 | 81.7 | 30.4 | 4.9 | 5.8 |
| PHY 552 WRF | 1124 | 46.3 | 28 | 70 | 1.11 | 83.4 | 32.3 | 4.5 | 5.9 |
| NG 3405 B2XF | 1119 | 47.1 | 26 | 88 | 1.07 | 82.0 | 26.5 | 4.5 | 5.6 |
| ST 5115 GLT | 1112 | 46.3 | 27 | 73 | 1.06 | 80.8 | 30.6 | 4.3 | 5.6 |
| NG 5007 B2XF | 1111 | 47.8 | 28 | 76 | 1.11 | 81.0 | 27.3 | 4.7 | 6.0 |
| ST 4946 GLB2 | 1107 | 45.4 | 25 | 72 | 1.12 | 82.8 | 30.9 | 4.4 | 6.2 |
| DP 1538 B2XF | 1104 | 48.9 | 27 | 69 | 1.07 | 82.6 | 27.5 | 5.1 | 6.2 |
| DP 1646 B2XF | 1100 | 48.5 | 31 | 71 | 1.18 | 83.1 | 30.6 | 4.7 | 6.3 |
| DP 1518 B2XF | 1093 | 47.2 | 25 | 79 | 1.07 | 81.8 | 28.7 | 4.8 | 5.6 |
| ST 4848 GLT | 1092 | 48.7 | 23 | 70 | 1.10 | 82.7 | 30.9 | 5.3 | 5.5 |
| PHY 487 WRF | 1090 | 44.7 | 28 | 72 | 1.08 | 81.9 | 29.6 | 4.0 | 6.0 |
| MON 15R513 B2XF | 1066 | 47.4 | 29 | 76 | 1.13 | 83.1 | 29.4 | 5.3 | 6.0 |
| +BX 1634 GLT | 1064 | 46.5 | 25 | 84 | 1.12 | 82.3 | 30.4 | 4.6 | 4.5 |

continued

Table 5-5B. Average Performance of Cotton Varieties at Edgecombe County—TRANSGENIC Varieties—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| DP 1612 B2XF | 1063 | 45.8 | 26 | 69 | 1.15 | 83.2 | 31.3 | 5.0 | 6.7 |
| ST 6448 GLB2 | 1053 | 45.6 | 28 | 76 | 1.18 | 82.7 | 31.3 | 4.7 | 4.4 |
| ST 5289 GLT | 1038 | 44.8 | 33 | 78 | 1.12 | 83.5 | 31.5 | 4.5 | 4.9 |
| ST 4747 GLB2 | 1018 | 45.5 | 25 | 85 | 1.11 | 81.1 | 28.2 | 4.5 | 4.5 |
| ST 5032 GLT | 1007 | 45.6 | 26 | 76 | 1.12 | 81.7 | 31.0 | 4.9 | 6.2 |
| DG 3385 B2XF | 959 | 47.7 | 24 | 73 | 1.13 | 84.2 | 28.9 | 4.8 | 6.6 |
| FM 1944 GLB2 | 944 | 43.6 | 25 | 69 | 1.19 | 82.2 | 32.5 | 4.5 | 4.6 |
| PHY 427 WRF | 888 | 44.7 | 28 | 81 | 1.10 | 81.4 | 30.8 | 4.6 | 6.0 |
| MEAN | 1130 | 47.6 | 27 | 73 | 1.11 | 82.6 | 30.0 | 4.9 | 5.9 |
| C.V. (%) | 11.8 | | | | | | | | |
| LSD_10 | 122 | | | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
+Experimental

Table 5-6. Average Performance of Cotton Varieties at Johnston County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-------------------|------------------|------------|------|------------|
| ST 6182 GLT | 1061 ** | 50.2 | 1.10 | 81.8 | 26.2 | 4.9 | 5.8 |
| +BX 1531 GLT | 1028 * | 50.2 | 1.07 | 81.0 | 26.4 | 4.8 | 6.0 |
| +BX 1532 GLT | 1013 * | 50.9 | 1.10 | 82.6 | 26.5 | 4.7 | 5.9 |
| ST 4946 GLB2 | 993 * | 44.8 | 1.06 | 81.5 | 27.0 | 4.7 | 6.7 |
| DP 1646 B2XF | 990 * | 48.0 | 1.18 | 82.2 | 27.9 | 4.4 | 6.4 |
| DP 1553 B2XF | 986 * | 47.2 | 1.15 | 83.4 | 29.4 | 4.4 | 6.6 |
| PHY 312 WRF | 967 | 47.2 | 1.13 | 83.1 | 29.3 | 4.7 | 6.1 |
| DG 3757 B2XF | 966 | 48.7 | 1.04 | 81.4 | 25.4 | 4.7 | 6.6 |
| DP 1558 NR B2RF | 963 | 46.4 | 1.10 | 83.3 | 30.1 | 4.9 | 5.9 |
| PHY 333 WRF | 955 | 47.8 | 1.12 | 82.6 | 26.9 | 4.5 | 5.7 |
| DG 3526 B2XF | 949 | 48.2 | 1.09 | 83.2 | 26.0 | 4.7 | 7.6 |
| NG 3522 B2XF | 943 | 47.7 | 1.03 | 80.2 | 24.2 | 4.6 | 5.6 |
| DP 1522 B2XF | 942 | 44.4 | 1.09 | 81.9 | 26.4 | 4.5 | 7.7 |
| MON 15R513 B2XF | 939 | 44.1 | 1.11 | 81.4 | 27.2 | 4.4 | 6.5 |
| ST 5032 GLT | 929 | 45.0 | 1.13 | 81.4 | 27.4 | 4.4 | 6.7 |
| ST 4747 GLB2 | 926 | 45.4 | 1.10 | 79.9 | 26.0 | 4.4 | 4.9 |
| ST 4949 GLT | 926 | 49.6 | 1.06 | 81.5 | 27.8 | 4.7 | 6.1 |
| DP 1612 B2XF | 926 | 44.3 | 1.10 | 82.2 | 27.6 | 4.6 | 7.1 |
| DP 1639 B2XF | 924 | 48.2 | 1.06 | 82.4 | 28.7 | 4.9 | 6.6 |
| PHY 552 WRF | 907 | 45.9 | 1.12 | 82.7 | 28.8 | 4.3 | 5.2 |
| FM 1944 GLB2 | 900 | 44.3 | 1.12 | 80.7 | 27.1 | 4.4 | 4.5 |
| PHY 495 W3RF | 895 | 46.3 | 1.09 | 82.1 | 30.2 | 4.6 | 7.4 |
| ST 5115 GLT | 895 | 45.4 | 1.09 | 80.3 | 28.3 | 4.2 | 6.1 |
| DG 3385 B2XF | 887 | 47.4 | 1.07 | 81.5 | 26.5 | 5.0 | 7.4 |
| PHY 487 WRF | 878 | 46.8 | 1.04 | 80.7 | 26.9 | 4.7 | 6.3 |
| DP 1538 B2XF | 869 | 47.6 | 1.07 | 82.6 | 27.2 | 4.7 | 6.7 |
| PHY 499 WRF | 869 | 45.8 | 1.10 | 81.7 | 29.7 | 4.5 | 7.5 |
| ST 4848 GLT | 866 | 48.4 | 1.09 | 81.6 | 27.1 | 4.6 | 6.0 |
| NG 3405 B2XF | 855 | 47.0 | 1.02 | 81.0 | 23.8 | 4.7 | 5.2 |
| ST 5289 GLT | 849 | 44.7 | 1.09 | 80.9 | 26.2 | 4.5 | 4.9 |
| DG 2615 B2RF | 844 | 45.8 | 1.13 | 82.1 | 31.0 | 4.6 | 6.6 |
| +BX 1634 GLT | 839 | 47.8 | 1.05 | 79.7 | 25.1 | 4.2 | 4.5 |

continued

Table 5-6. Average Performance of Cotton Varieties at Johnston County—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-------------------|------------------|-------------|------------|------------|
| DP 1555 B2RF | 837 | 47.1 | 1.10 | 80.9 | 28.4 | 4.6 | 6.1 |
| DP 1614 B2XF | 834 | 46.7 | 1.12 | 82.2 | 26.2 | 4.7 | 6.2 |
| DP 1518 B2XF | 827 | 44.3 | 1.11 | 81.0 | 26.7 | 4.1 | 5.3 |
| ST 6448 GLB2 | 819 | 44.5 | 1.19 | 81.6 | 30.9 | 4.5 | 4.7 |
| PHY 444 WRF | 794 | 46.1 | 1.18 | 81.6 | 29.8 | 4.0 | 5.6 |
| NG 3406 B2XF | 792 | 46.8 | 1.04 | 80.6 | 24.7 | 4.5 | 7.2 |
| PHY 427 WRF | 789 | 44.4 | 1.09 | 82.2 | 28.5 | 4.2 | 6.7 |
| NG 5007 B2XF | 663 | 47.6 | 1.08 | 80.0 | 26.3 | 4.6 | 6.3 |
| MEAN | 901 | 46.7 | 1.09 | 81.6 | 27.4 | 4.6 | 6.1 |
| C.V. (%) | 9.8 | | | | | | |
| LSD_10 | 84 | | | | | | |

**Highest yielder. *Not significantly different from highest yielder.
+Experimental

Table 5-7. Average Performance of Cotton Varieties at Scotland County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-----------------------|----------------------|-------------------|------------------|------------|------|------------|
| DP 1553 B2XF | 573 ** | 48.5 | 35 | 92 | 1.04 | 79.2 | 24.7 | 4.8 | 5.6 |
| NG 3522 B2XF | 550 * | 46.1 | 32 | 97 | 1.01 | 78.6 | 23.5 | 4.8 | 4.9 |
| DP 1538 B2XF | 549 * | 48.3 | 30 | 96 | 1.01 | 79.7 | 25.6 | 4.9 | 5.7 |
| DP 1558 NR B2RF | 530 * | 49.0 | 31 | 92 | 1.08 | 80.6 | 26.9 | 4.9 | 5.2 |
| DP 1522 B2XF | 529 * | 46.5 | 33 | 96 | 1.04 | 80.1 | 26.2 | 4.7 | 6.4 |
| DP 1639 B2XF | 512 | 49.5 | 30 | 97 | 1.02 | 79.4 | 26.5 | 5.1 | 6.0 |
| DG 3757 B2XF | 508 | 48.4 | 31 | 93 | 1.00 | 79.4 | 23.3 | 4.8 | 5.5 |
| NG 5007 B2XF | 499 | 47.3 | 26 | 86 | 1.09 | 79.5 | 26.6 | 4.7 | 5.8 |
| DG 3526 B2XF | 492 | 49.5 | 34 | 94 | 0.99 | 78.6 | 24.0 | 4.9 | 6.3 |
| DG 2615 B2RF | 481 | 45.4 | 33 | 95 | 1.04 | 80.1 | 26.7 | 5.0 | 5.8 |
| DP 1612 B2XF | 474 | 45.3 | 29 | 97 | 1.02 | 77.6 | 26.1 | 4.5 | 6.0 |
| DP 1646 B2XF | 470 | 49.3 | 29 | 98 | 1.06 | 77.8 | 25.5 | 4.8 | 6.2 |
| PHY 487 WRF | 469 | 46.3 | 28 | 96 | 1.01 | 79.9 | 25.5 | 5.2 | 6.5 |
| ST 5115 GLT | 468 | 45.2 | 29 | 93 | 0.99 | 78.7 | 26.3 | 4.7 | 5.2 |
| PHY 312 WRF | 458 | 47.4 | 34 | 95 | 1.07 | 81.7 | 27.7 | 4.7 | 5.3 |
| DG 3385 B2XF | 458 | 44.9 | 32 | 86 | 1.03 | 79.2 | 25.9 | 4.6 | 6.3 |
| NG 3406 B2XF | 454 | 46.6 | 31 | 97 | 1.02 | 79.9 | 25.1 | 4.8 | 6.1 |
| ST 6448 GLB2 | 451 | 44.6 | 36 | 95 | 1.06 | 78.7 | 24.4 | 4.7 | 4.0 |
| DP 1555 B2RF | 449 | 50.9 | 30 | 95 | 1.02 | 77.7 | 25.8 | 4.8 | 5.3 |
| PHY 333 WRF | 443 | 47.0 | 35 | 97 | 1.04 | 77.8 | 24.6 | 4.3 | 4.4 |
| MON 15R513 B2XF | 438 | 44.9 | 34 | 99 | 1.04 | 80.0 | 25.9 | 4.6 | 5.5 |
| PHY 495 W3RF | 438 | 47.4 | 31 | 98 | 1.01 | 79.4 | 28.0 | 4.7 | 5.8 |
| PHY 552 WRF | 436 | 47.2 | 34 | 96 | 1.04 | 80.4 | 29.0 | 4.7 | 5.2 |
| NG 3405 B2XF | 430 | 44.0 | 27 | 94 | 0.97 | 77.6 | 22.3 | 4.7 | 4.5 |
| +BX 1532 GLT | 427 | 51.5 | 30 | 89 | 1.05 | 78.8 | 26.5 | 4.9 | 5.1 |
| PHY 427 WRF | 425 | 44.3 | 32 | 95 | 1.02 | 80.0 | 26.8 | 4.4 | 6.5 |
| PHY 499 WRF | 424 | 47.5 | 32 | 96 | 1.01 | 80.0 | 27.5 | 4.8 | 6.3 |
| ST 4946 GLB2 | 408 | 45.6 | 29 | 76 | 1.01 | 79.7 | 26.5 | 4.7 | 5.7 |
| DP 1614 B2XF | 407 | 48.0 | 31 | 100 | 1.04 | 79.4 | 25.3 | 4.7 | 6.1 |
| ST 6182 GLT | 402 | 50.3 | 30 | 92 | 1.03 | 78.5 | 25.1 | 4.8 | 5.1 |

continued

Table 5-7. Average Performance of Cotton Varieties at Scotland County—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| PHY 444 WRF | 402 | 46.9 | 29 | 93 | 1.08 | 80.8 | 28.0 | 4.4 | 5.0 |
| ST 4848 GLT | 395 | 47.5 | 35 | 88 | 1.05 | 78.6 | 26.2 | 5.0 | 5.2 |
| DP 1518 B2XF | 373 | 43.6 | 30 | 99 | 1.02 | 78.2 | 24.1 | 4.3 | 4.7 |
| +BX 1634 GLT | 367 | 45.6 | 30 | 98 | 1.00 | 78.1 | 24.5 | 4.8 | 3.6 |
| ST 4747 GLB2 | 366 | 45.7 | 25 | 96 | 1.02 | 78.1 | 23.5 | 4.7 | 3.6 |
| +BX 1531 GLT | 358 | 50.2 | 32 | 84 | 1.02 | 79.6 | 25.4 | 4.9 | 5.6 |
| ST 4949 GLT | 342 | 47.5 | 36 | 96 | 1.02 | 78.5 | 24.9 | 5.0 | 5.1 |
| FM 1944 GLB2 | 338 | 43.4 | 32 | 93 | 1.06 | 77.2 | 26.1 | 4.5 | 4.1 |
| ST 5032 GLT | 320 | 44.8 | 30 | 99 | 1.03 | 78.8 | 27.2 | 4.4 | 5.5 |
| ST 5289 GLT | 297 | 44.9 | 31 | 93 | 1.03 | 79.7 | 25.7 | 4.7 | 4.6 |
| MEAN | 440 | 46.9 | 31 | 94 | 1.03 | 79.1 | 25.7 | 4.7 | 5.4 |
| C.V. (%) | 12.8 | | | | | | | | |
| LSD_10 | 49 | | | | | | | | |

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

+Experimental

Table 5-8. Average Performance of Cotton Varieties at Washington County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-------------------|------------------|------------|------|------------|
| DP 1522 B2XF | 1100 ** | 47.6 | 1.11 | 83.4 | 27.6 | 4.8 | 6.6 |
| DP 1639 B2XF | 1089 * | 45.4 | 1.17 | 84.4 | 28.6 | 4.6 | 6.3 |
| DP 1614 B2XF | 1071 * | 45.1 | 1.19 | 82.8 | 31.0 | 4.5 | 4.1 |
| DG 3526 B2XF | 1065 * | 47.3 | 1.15 | 83.5 | 29.3 | 4.4 | 6.2 |
| MON 15R513 B2XF | 1050 * | 46.5 | 1.15 | 82.2 | 29.9 | 4.7 | 5.6 |
| ST 5289 GLT | 1038 * | 47.9 | 1.15 | 84.0 | 28.3 | 4.2 | 5.8 |
| DP 1518 B2XF | 1035 * | 46.8 | 1.19 | 83.3 | 29.4 | 4.3 | 6.4 |
| ST 4949 GLT | 1023 * | 47.2 | 1.13 | 81.9 | 29.0 | 4.6 | 5.7 |
| DG 2615 B2RF | 1022 * | 46.7 | 1.17 | 84.1 | 29.7 | 4.4 | 5.3 |
| NG 3406 B2XF | 1017 * | 47.9 | 1.17 | 84.1 | 29.1 | 4.3 | 6.5 |
| NG 5007 B2XF | 1007 * | 47.4 | 1.13 | 83.2 | 29.0 | 4.5 | 6.2 |
| +BX 1532 GLT | 1006 * | 49.5 | 1.13 | 83.3 | 28.4 | 4.5 | 5.8 |
| FM 1944 GLB2 | 1000 * | 48.4 | 1.19 | 84.0 | 31.1 | 4.4 | 5.3 |
| +BX 1531 GLT | 999 * | 48.1 | 1.16 | 82.7 | 30.0 | 4.6 | 5.4 |
| DG 3757 B2XF | 999 * | 45.7 | 1.14 | 82.0 | 29.3 | 4.2 | 6.0 |
| DP 1558 NR B2RF | 998 * | 47.7 | 1.19 | 83.9 | 29.0 | 4.0 | 6.1 |
| DG 3385 B2XF | 987 * | 46.7 | 1.21 | 84.2 | 31.5 | 4.2 | 5.4 |
| DP 1612 B2XF | 984 * | 48.8 | 1.15 | 83.8 | 30.3 | 4.6 | 6.1 |
| DP 1646 B2XF | 981 * | 44.5 | 1.15 | 82.9 | 30.1 | 4.4 | 6.2 |
| PHY 487 WRF | 980 * | 45.6 | 1.16 | 83.7 | 30.5 | 4.7 | 6.1 |
| ST 5032 GLT | 970 * | 43.9 | 1.10 | 80.7 | 29.2 | 4.2 | 5.6 |
| ST 4747 GLB2 | 969 | 46.2 | 1.13 | 82.9 | 29.4 | 4.2 | 5.9 |
| ST 4848 GLT | 962 | 47.2 | 1.14 | 82.4 | 28.3 | 4.5 | 4.7 |
| PHY 495 W3RF | 957 | 47.3 | 1.17 | 83.4 | 30.1 | 4.5 | 6.0 |
| PHY 444 WRF | 954 | 47.8 | 1.11 | 82.6 | 28.7 | 4.6 | 6.4 |
| +BX 1634 GLT | 946 | 47.7 | 1.19 | 83.7 | 30.5 | 4.4 | 5.5 |
| NG 3405 B2XF | 946 | 48.2 | 1.11 | 83.8 | 27.3 | 4.6 | 6.6 |
| NG 3522 B2XF | 938 | 45.3 | 1.17 | 83.0 | 30.1 | 4.5 | 5.9 |
| PHY 499 WRF | 934 | 45.3 | 1.14 | 82.7 | 30.6 | 4.5 | 6.5 |
| ST 5115 GLT | 931 | 47.0 | 1.21 | 83.8 | 30.7 | 4.2 | 4.8 |

continued

Table 5-8. Average Performance of Cotton Varieties at Washington County—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-------------------|------------------|-------------|------------|------------|
| PHY 427 WRF | 923 | 46.4 | 1.16 | 83.2 | 28.7 | 4.4 | 5.1 |
| DP 1538 B2XF | 916 | 45.6 | 1.20 | 83.8 | 31.5 | 4.4 | 5.2 |
| PHY 552 WRF | 913 | 45.7 | 1.14 | 83.8 | 28.8 | 4.2 | 6.2 |
| ST 6182 GLT | 910 | 45.3 | 1.15 | 82.8 | 29.9 | 4.6 | 5.0 |
| DP 1555 B2RF | 908 | 46.4 | 1.14 | 83.2 | 29.8 | 5.0 | 6.2 |
| PHY 333 WRF | 901 | 44.6 | 1.19 | 84.3 | 30.9 | 4.3 | 6.4 |
| ST 6448 GLB2 | 900 | 44.4 | 1.19 | 83.1 | 31.3 | 4.1 | 5.3 |
| PHY 312 WRF | 899 | 46.3 | 1.21 | 83.1 | 31.4 | 4.1 | 5.3 |
| ST 4946 GLB2 | 895 | 43.8 | 1.19 | 83.3 | 29.8 | 4.1 | 5.7 |
| DP 1553 B2XF | 837 | 46.6 | 1.16 | 83.0 | 29.6 | 4.5 | 5.3 |
| MEAN | 974 | 46.5 | 1.16 | 83.2 | 29.7 | 4.4 | 5.7 |
| C.V. (%) | 13.9 | | | | | | |
| LSD_10 | 130 | | | | | | |

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

+Experimental

Table 5-9. Average Performance of Cotton Varieties at Montgomery County—TRANSGENIC VARIETIES—2015

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|----------|-----------------------|----------------------|-------------------|------------------|------------|------|------------|
| PHY 333 WRF | 923 ** | 50.8 | 38 | 89 | 1.09 | 81.8 | 29.0 | 5.3 | 5.7 |
| ST 4946 GLB2 | 852 | 48.6 | 38 | 85 | 1.04 | 81.4 | 28.4 | 5.4 | 7.1 |
| MON 15R513 B2XF | 849 | 45.8 | 40 | 89 | 1.08 | 82.5 | 28.9 | 5.5 | 6.8 |
| PHY 427 WRF | 839 | 45.9 | 39 | 87 | 1.04 | 82.6 | 29.0 | 5.0 | 7.4 |
| ST 5032 GLT | 823 | 46.9 | 37 | 84 | 1.05 | 80.9 | 28.9 | 4.8 | 6.8 |
| DP 1646 B2XF | 816 | 48.7 | 41 | 85 | 1.15 | 81.7 | 27.7 | 5.1 | 6.7 |
| PHY 487 WRF | 812 | 46.2 | 37 | 80 | 1.07 | 81.1 | 28.5 | 5.2 | 7.0 |
| DP 1522 B2XF | 805 | 46.3 | 38 | 89 | 1.08 | 81.7 | 29.7 | 5.3 | 7.6 |
| DP 1614 B2XF | 799 | 49.0 | 35 | 90 | 1.03 | 80.5 | 28.0 | 5.5 | 7.0 |
| +BX 1532 GLT | 797 | 50.3 | 35 | 83 | 1.08 | 81.0 | 28.8 | 5.1 | 6.4 |
| DG 3757 B2XF | 792 | 48.0 | 38 | 78 | 1.06 | 80.9 | 26.6 | 5.0 | 6.8 |
| DG 3526 B2XF | 785 | 49.7 | 37 | 66 | 1.04 | 82.0 | 27.4 | 5.2 | 7.1 |
| DG 3385 B2XF | 784 | 48.2 | 38 | 85 | 1.06 | 81.7 | 27.8 | 5.2 | 7.3 |
| DP 1538 B2XF | 784 | 48.4 | 39 | 90 | 1.00 | 80.4 | 25.4 | 5.3 | 6.3 |
| DP 1612 B2XF | 777 | 45.8 | 34 | 85 | 1.03 | 81.2 | 27.8 | 5.1 | 7.6 |
| PHY 312 WRF | 775 | 50.0 | 37 | 86 | 1.06 | 82.2 | 28.8 | 4.9 | 6.4 |
| NG 3406 B2XF | 773 | 48.0 | 36 | 92 | 1.06 | 82.6 | 26.3 | 5.0 | 7.5 |
| +BX 1531 GLT | 773 | 50.0 | 37 | 94 | 1.01 | 79.7 | 26.6 | 5.3 | 6.4 |
| NG 3405 B2XF | 770 | 47.4 | 36 | 83 | 1.05 | 80.3 | 25.1 | 5.0 | 5.8 |
| NG 3522 B2XF | 768 | 49.7 | 36 | 81 | 1.00 | 80.4 | 24.2 | 5.2 | 5.8 |
| ST 5289 GLT | 764 | 45.6 | 40 | 86 | 1.02 | 81.2 | 27.9 | 5.2 | 5.5 |
| PHY 552 WRF | 758 | 47.9 | 35 | 88 | 1.03 | 79.4 | 29.6 | 4.8 | 6.3 |
| PHY 499 WRF | 754 | 46.6 | 36 | 74 | 1.10 | 81.5 | 30.1 | 5.2 | 7.1 |
| NG 5007 B2XF | 752 | 46.8 | 39 | 67 | 1.10 | 81.6 | 26.9 | 5.1 | 6.7 |
| ST 4949 GLT | 751 | 49.5 | 39 | 84 | 1.01 | 80.7 | 26.2 | 5.5 | 6.5 |
| PHY 495 W3RF | 736 | 46.9 | 37 | 73 | 1.06 | 80.0 | 30.2 | 5.0 | 7.7 |
| DP 1518 B2XF | 733 | 46.4 | 39 | 85 | 1.05 | 81.4 | 26.7 | 4.9 | 6.1 |
| ST 4848 GLT | 731 | 49.5 | 35 | 86 | 1.02 | 81.3 | 26.8 | 5.6 | 6.0 |

continued

Table 5-9. Average Performance of Cotton Varieties at Montgomery County—TRANSGENIC VARIETIES—2015 (continued)

| Variety or Brand Variety | Lint Yield (lb/acre) | Lint (%) | Plant Height (inches) | Percent Bolls Opened | UHM S.L. (inches) | Uniformity Index | T1 (G/Tex) | Mike | Elongation |
|--------------------------|----------------------|-------------|-----------------------|----------------------|-------------------|------------------|-------------|------------|------------|
| ST 6182 GLT | 730 | 49.1 | 40 | 61 | 1.13 | 82.5 | 28.3 | 5.1 | 5.9 |
| DP 1555 B2RF | 719 | 46.5 | 39 | 74 | 1.12 | 81.7 | 29.6 | 5.0 | 5.7 |
| DP 1558 NR B2RF | 706 | 45.9 | 39 | 67 | 1.10 | 80.7 | 29.8 | 5.3 | 6.1 |
| DP 1553 B2XF | 702 | 46.4 | 40 | 70 | 1.16 | 83.7 | 28.8 | 4.8 | 6.6 |
| DP 1639 B2XF | 700 | 46.1 | 37 | 60 | 1.09 | 81.8 | 30.5 | 5.2 | 6.3 |
| PHY 444 WRF | 685 | 48.7 | 35 | 61 | 1.15 | 81.7 | 31.3 | 4.8 | 6.0 |
| DG 2615 B2RF | 684 | 47.6 | 38 | 74 | 1.10 | 82.4 | 29.9 | 5.2 | 6.7 |
| ST 5115 GLT | 671 | 47.9 | 38 | 86 | 1.03 | 79.5 | 28.3 | 5.2 | 6.1 |
| +BX 1634 GLT | 634 | 47.9 | 35 | 76 | 1.05 | 82.0 | 28.5 | 5.4 | 4.9 |
| ST 6448 GLB2 | 617 | 44.4 | 37 | 76 | 1.11 | 80.5 | 28.6 | 4.9 | 4.9 |
| ST 4747 GLB2 | 605 | 45.9 | 37 | 88 | 1.10 | 79.6 | 26.6 | 5.3 | 4.3 |
| FM 1944 GLB2 | 585 | 44.0 | 37 | 75 | 1.12 | 81.1 | 29.8 | 5.1 | 5.2 |
| MEAN | 753 | 47.6 | 37 | 80 | 1.07 | 81.3 | 28.2 | 5.2 | 6.4 |
| C.V. (%) | 9.4 | | | | | | | | |
| LSD_10 | 58 | | | | | | | | |

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

+Experimental

Table 5-10A. Relative Ranking of CONVENTIONAL Cotton Cultivars for Yield, Fiber Elongation and Micronaire—2015

| YIELD | | FIBER ELONGATION | | MICRONAIRE | |
|--------------------------------|----------------------|--------------------------------|--------------------|--------------------------------|------|
| Variety or Brand Variety | Lint Yield (lb/acre) | Variety or Brand Variety | UMH S.L.> (inches) | Variety or Brand Variety | Mike |
| DP 1252 B2RF | 1191 | Seed Source Genetics UA 222 | 1.22 | PHY 339 WRF | 4.5 |
| PHY 339 WRF | 1090 | ST 4747 GLB2 | 1.18 | Seed Source Genetics UA 222 | 4.7 |
| Seed Source Genetics UA 222 | 1009 | PHY 339 WRF | 1.16 | ST 4747 GLB2 | 4.7 |
| ST 4747 GLB2 | 968 | Seed Source Genetics HQ 210 CT | 1.14 | DP 1252 B2RF | 4.9 |
| Seed Source Genetics HQ 210 CT | 923 | DP 1252 B2RF | 1.13 | Seed Source Genetics HQ 210 CT | 4.9 |

Table 5-10B. Relative Ranking of TRANSGENIC Cotton Cultivars for Yield, Fiber Elongation and Micronaire—2015

| YIELD | | FIBER ELONGATION | | MICRONAIRE | |
|--------------------------|----------------------|--------------------------|--------------------|--------------------------|------|
| Variety or Brand Variety | Lint Yield (lb/acre) | Variety or Brand Variety | UMH S.L.> (inches) | Variety or Brand Variety | Mike |
| DP 1558 NR B2RF | 965 | DP 1646 B2XF | 1.16 | PHY 444 WRF | 4.3 |
| DG 3757 B2XF | 960 | ST 6448 GLB2 | 1.15 | PHY 552 WRF | 4.5 |
| +BX 1532 GLT | 959 | PHY 444 WRF | 1.15 | DP 1518 B2XF | 4.5 |
| +BX 1531 GLT | 957 | FM 1944 GLB2 | 1.14 | ST 5032 GLT | 4.5 |
| DG 3526 B2XF | 953 | DP 1553 B2XF | 1.14 | PHY 427 WRF | 4.5 |
| NG 3522 B2XF | 944 | DP 1558 NR B2RF | 1.12 | ST 5115 GLT | 4.5 |
| DP 1639 B2XF | 942 | MON 15R513 B2XF | 1.12 | FM 1944 GLB2 | 4.6 |
| DP 1646 B2XF | 940 | PHY 312 WRF | 1.12 | ST 6448 GLB2 | 4.6 |
| DP 1522 B2XF | 934 | DP 1614 B2XF | 1.12 | ST 4747 GLB2 | 4.6 |
| PHY 333 WRF | 934 | PHY 333 WRF | 1.11 | DP 1646 B2XF | 4.6 |
| DP 1614 B2XF | 931 | DG 2615 B2RF | 1.11 | PHY 312 WRF | 4.7 |
| PHY 499 WRF | 931 | ST 6182 GLT | 1.11 | DP 1553 B2XF | 4.7 |
| MON 15R513 B2XF | 926 | ST 4747 GLB2 | 1.11 | NG 3405 B2XF | 4.7 |
| DP 1555 B2RF | 921 | NG 5007 B2XF | 1.10 | PHY 495 W3RF | 4.7 |
| PHY 495 W3RF | 916 | DG 3385 B2XF | 1.10 | ST 5289 GLT | 4.7 |
| DP 1538 B2XF | 916 | DP 1639 B2XF | 1.10 | PHY 333 WRF | 4.7 |
| PHY 312 WRF | 914 | DP 1555 B2RF | 1.10 | NG 5007 B2XF | 4.7 |
| ST 4946 GLB2 | 912 | DP 1612 B2XF | 1.10 | ST 4946 GLB2 | 4.7 |
| DP 1553 B2XF | 905 | ST 5032 GLT | 1.10 | +BX 1634 GLT | 4.7 |
| ST 6182 GLT | 905 | PHY 552 WRF | 1.10 | DG 2615 B2RF | 4.7 |
| DG 2615 B2RF | 903 | +BX 1532 GLT | 1.10 | NG 3406 B2XF | 4.7 |
| NG 3405 B2XF | 902 | DP 1518 B2XF | 1.10 | DG 3757 B2XF | 4.7 |
| ST 4949 GLT | 900 | BX 1634 GLT | 1.10 | PHY 487 WRF | 4.7 |
| PHY 487 WRF | 898 | DP 1522 B2XF | 1.10 | DP 1612 B2XF | 4.8 |
| ST 4848 GLT | 896 | ST 4946 GLB2 | 1.09 | BX 1532 GLT | 4.8 |
| DP 1612 B2XF | 894 | PHY 499 WRF | 1.09 | PHY 499 WRF | 4.8 |
| PHY 552 WRF | 891 | ST 4848 GLT | 1.09 | DG 3385 B2XF | 4.8 |
| ST 5115 GLT | 890 | ST 5115 GLT | 1.09 | NG 3522 B2XF | 4.8 |
| PHY 444 WRF | 884 | PHY 427 WRF | 1.09 | DP 1538 B2XF | 4.8 |
| DG 3385 B2XF | 880 | ST 5289 GLT | 1.08 | DP 1555 B2RF | 4.9 |

continued

Table 5-10B. Relative Ranking of TRANSGENIC Cotton Cultivars for Yield, Fiber Elongation and Micronaire—2015 (continued)

| YIELD | | FIBER ELONGATION | | MICRONAIRE | |
|--------------------------|----------------------|--------------------------|--------------------|--------------------------|------|
| Variety or Brand Variety | Lint Yield (lb/acre) | Variety or Brand Variety | UMH S.L.> (inches) | Variety or Brand Variety | Mike |
| NG 5007 B2XF | 871 | DG 3526 B2XF | 1.08 | DG 3526 B2XF | 4.9 |
| NG 3406 B2XF | 868 | PHY 495 W3RF | 1.08 | MON 15R513 B2XF | 4.9 |
| ST 5032 GLT | 863 | NG 3406 B2XF | 1.08 | ST 6182 GLT | 4.9 |
| ST 4747 GLB2 | 858 | DG 3757 B2XF | 1.08 | DP 1522 B2XF | 4.9 |
| DP 1518 B2XF | 857 | +BX 1531 GLT | 1.08 | DP 1614B2XF | 4.9 |
| ST 5289 GLT | 843 | PHY 487 WRF | 1.08 | ST 4949 GLT | 4.9 |
| ST 6448 GLB2 | 840 | DP 1538 B2XF | 1.07 | DP 1558 NR B2RF | 5.0 |
| BX 1634 GLT | 833 | ST 4949 GLT | 1.07 | ST 4848 GLT | 5.0 |
| PHY 427 WRF | 815 | NG 3522 B2XF | 1.05 | DP 1639 B2XF | 5.0 |
| FM 1944 GLB2 | 813 | NG 3405 B2XF | 1.05 | BX 1531 GLT | 5.0 |