

# COTTON PERFORMANCE TESTS

## In the Texas High Plains

## 2022

The Texas A&M AgriLife Research and Extension Center at Lubbock/Halfway/Pecos - 2023



Technical Report

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Texas A&M AgriLife Research - Cliff Lamb, Director

TEXAS A&M UNIVERSITY SYSTEM - COLLEGE STATION, TEXAS



# **Cotton Performance Tests in the Texas High Plains 2022<sup>1/</sup>**

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## INTRODUCTION

Cotton performance tests were planted in 2022 at the Texas A&M AgriLife Research and Extension Center in Lubbock (LREC), research station at Halfway, TX, and at the AG-CARES research farm in Lamesa, TX. Tests were conducted for response to bacterial blight at LREC and Verticillium wilt at Halfway. Uniform Variety Tests including commercial or soon to be commercially available varieties were conducted in four environments: LREC irrigated, LREC dryland, AG-CARES irrigated, and Halfway irrigated. New varieties and strains, including potential new commercial varieties or breeding lines, were tested at LREC under furrow irrigated conditions. A late-planted test including commercial varieties was conducted at LREC under furrow-irrigated conditions. Soil types, planting dates, harvest dates, irrigation, and cultural practices for each test are in Table 1.

All tests were planted in a randomized complete block design with four replications, in 2-row plots, 30-40 ft long on 40 in centers. The 2022 planting season was harsh across most of the region. Soil moisture was limited from a dry winter and early spring, while pre-plant irrigation efforts were hindered by hot, dry, and windy conditions through most of April and May. Many farmers were forced to abandon acres due to the lack adequate planting moisture even under pivots. Where planting was possible, and stands were established the crop faced above average temperatures, record highs, and unseasonably high winds through June and July. Growing conditions remained hot and dry throughout the growing season. LREC received a little over 6 inches of rainfall from June through the first of September. However, only 1.5 inch of that rainfall occurred from June 1<sup>st</sup> through August 14<sup>th</sup>. The timing of any significant rainfall this year was too late to benefit most of the crop. In Halfway, consistent stands were established but adjustments had to be made to irrigation schedules mid-season to accommodate for a decreasing water supply. In Lamesa, stands were not ideal but consistent throughout the test, and the varieties were able to overcome and compensate during the growing season. Many of the fields appeared healthy with good height and ample foliage throughout the summer, but the effect of this year's growing conditions became visually evident as the crop reached maturity. Overall boll load was light with boll size being small in many instances, and yields were ultimately affected.

Verticillium wilt pressure at Halfway was adequate to quantify variety response, although pressure was light due to low moisture throughout the season. Overall, disease and insect pressure were light. Tests were harvested before any significant weather events.

## ACKNOWLEDGMENTS

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## GLOSSARY OF TABLE HEADINGS

### Yield and Agronomic Properties - Determined from hand-snapped samples.

Yield - Pounds of lint harvested per acre.

#### Percent Lint

Picked - Lint fraction of seed cotton.

Pulled - Lint fraction of burr cotton.

Boll Size - Weight, in grams, of seed cotton per boll.

Seed Index - Weight, in grams, of 100 fuzzy seed.

Seed Per Boll - Average number of seed per boll (calculated).

### Visual Properties

Maturity - Visual assessment of relative open bolls on a given date.

Storm Resistance (SR)- Visual rating from 1 (very loose boll type, considerable seed cotton loss) to 9 (very tight boll type, no seed cotton loss).

Height – Measured average plant height, in inches.

### Disease

Rk - Number of root-knot nematodes in 500cc of soil.

LRK - Log transformation +1 of the Rk number, which is done to account for pressure in the field.

Wilt % - The percentage of plants with Verticillium wilt symptoms on a given day.

### Statistical Analysis

Mean - The average value for the trait being observed.

c.v.% - Coefficient of variation. A relative measure of variation within a test, defined as the sample standard deviation expressed as a percentage of the sample mean.

LSD - Least significant difference. If the difference between two means exceeds this value, the two means are significantly different at the 0.05 probability level.

## GLOSSARY OF TABLE HEADINGS

### Fiber Properties - Measured by High Volume Instrument (HVI®)

Micronaire (Mic)- A relative measure of fiber linear density (mass per unit length) determined by air permeability.

Length - An instrument measurement of fiber length, expressed in hundredths of an inch, approximates the classer's staple length.

Uniformity - A measure of the uniformity of fiber length in a sample, measured as the ratio of mean length to upper half mean length, expressed as a percentage.

Strength - The force required to rupture (or break) a fiber sample, expressed in grams per tex.

Elongation - The amount that a fiber sample will stretch prior to breakage. This is a measure of the deformation of fiber at rupture expressed as percent change in length based on the original fiber length.

Leaf Index <sup>1/</sup>- The visual estimate of the amount of cotton plant leaf material that remains in the lint after the ginning process, ranging from 1(low) to 7(high).

Color Grade - A function of the Rd and +b of the fiber sample. The color grade indicates the quadrant of the Nickerson-Hunter cotton colorimeter diagram in which Rd and +b values intersect.<sup>2/</sup>

<sup>1/</sup>*Plot stripper used to harvest these tests is not equipped with a field cleaner. Experimental gin set-up may not always approximate Leaf Index values obtained at commercial gins.*

<sup>2/</sup>*Fiber quality determinations are made on samples from two reps. If the color grade from these two samples are identical, only one color grade is reported.*

## COMPANY IDENTIFICATION

| Company                       | Brand                         | Variety Designation | Experimental Designation |
|-------------------------------|-------------------------------|---------------------|--------------------------|
| Americot                      | NexGen                        | NG                  | NGX                      |
| BASF                          | FiberMax                      | FM                  | BX                       |
| BASF                          | Stoneville                    | ST                  | BX                       |
| Brownfield Seed and Delinting | Brownfield Seed and Delinting | BSD                 |                          |
| Bayer Crop Science            | Deltapine                     | DP                  | 20R, 21R                 |
| Nutrien Ag Solutions          | DynaGro                       | DG                  |                          |
| ExCeed Genetics (May)         | ExCeed                        | ExCeed              | XC                       |
| Gowan Cotton Seed             | Gowan                         | GS                  |                          |
| PhytoGen                      | PhytoGen                      | PHY                 | PX                       |
| Seed Source Genetics          | Seed Source Genetics          | SSG                 |                          |

# Notes

Table 1. Locations, soil types, planting dates, harvest dates, and production information for the cotton performance tests in the Texas High Plains, 2022.

| <b>Soil Type</b>                                | <b>Date Planted</b> | <b>Date Harvested</b> | <b>Production Information</b>  |
|---|---------------------|-----------------------|--|
| <b>Lubbock Uniform Irrigated</b>                |                     |                       |  |
| Olton Clay Loam                                 | May 9               | November 7            | 1 fertilizer application<br>3 herbicide applications (1PPI, 1 pre, 1 post)<br>furrow irrigation 3.7 acre inches pre-plant<br>furrow irrigation 10.1 acre inches post plant<br>furrow irrigation 6.6 acre inches post plant RHQ<br>2 harvest aid applications |
| <b>Lubbock Late Planted Irrigated</b>           |                     |                       |  |
| Olton Clay Loam                                 | June 9              | November 7            |  |
| <b>Lubbock New Varieties and Strains (NVST)</b> |                     |                       |  |
| Olton Clay Loam                                 | May 9               | November 10           |  |
| <b>Lubbock Regional High Quality</b>            |                     |                       |  |
| Olton Clay                                      | May 23              | December 5            |  |
| <b>Lubbock Uniform Water Limited</b>            |                     |                       |  |
| Acuff Loam                                      | May 10              | October 13            | 1 fertilizer application<br>3 herbicide applications (1PPI, 1 pre, 1 post)<br>2 harvest aid applications<br>3.5 acre inches pre-irrig. for rain simulation<br>10.78 inches rainfall in season  |
| <b>Halfway Uniform Irrigated</b>                |                     |                       |  |
| Pullman Clay Loam                               | May 17              | December 1            | 1 fertilizer application<br>4 herbicide applications (1 pre, 3 post)<br>pivot irrig. 16.04 acre inches in season<br>1 harvest aid application  |
| <b>Halfway Verticillium Wilt</b>                |                     |                       |  |
| Pullman Clay Loam                               | May 17              | November 30           |  |
| <b>Lamesa Uniform Irrigated</b>                 |                     |                       |  |
| Amarillo Fine Sandy Loam                        | May 19              | November 14           | 1 fertilizer application<br>2 herbicide applications (1 pre, 1 post)<br>pivot irrig. 6.95 acre inches in season<br>2 harvest aid applications  |

**Table 2. Yield, agronomic, and fiber quality data from the irrigated uniform cotton variety performance trial at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation        | Agronomic Properties |        |           |            |               | % Open Bolls |    |        | Fiber Properties |        |            |          |            |             |             |
|--------------------|----------------------|--------|-----------|------------|---------------|--------------|----|--------|------------------|--------|------------|----------|------------|-------------|-------------|
|                    | Lint %               |        | Boll Size | Seed Index | Seed per Boll | 20-Sep       | SR | Height | Mic              | Length | Uniformity | Strength | Elongation | Color Grade | Leaf        |
|                    | Yield                | Picked | Pulled    | Index      | Boll          |              |    |        |                  |        |            |          |            |             |             |
| PHY 411 W3FE       | 1589                 | 43.9   | 35.8      | 4.8        | 9.4           | 22.0         | 74 | 6      | 32               | 5.5    | 1.07       | 82.5     | 32.8       | 6.8         | 31-1 2      |
| PHY 443 W3FE       | 1482                 | 40.2   | 32.3      | 5.1        | 8.9           | 23.0         | 79 | 6      | 34               | 5.4    | 1.11       | 83.5     | 34.4       | 6.6         | 21-2 2      |
| NG 4098 B3XF       | 1459                 | 39.4   | 31.9      | 5.0        | 8.5           | 23.2         | 63 | 4      | 31               | 4.7    | 1.20       | 81.0     | 34.1       | 6.4         | 21-2,31-1 4 |
| BSD 9X             | 1451                 | 38.5   | 30.7      | 5.8        | 8.2           | 27.3         | 70 | 5      | 33               | 5.2    | 1.12       | 82.2     | 34.1       | 5.7         | 31-1 3      |
| FM 1830GLT         | 1442                 | 42.3   | 35.4      | 5.3        | 9.7           | 23.1         | 84 | 5      | 31               | 5.3    | 1.19       | 83.1     | 33.2       | 6.0         | 21-1,31-1 2 |
| ExCeed 4498        | 1407                 | 41.7   | 34.0      | 5.2        | 9.3           | 23.0         | 79 | 4      | 32               | 5.4    | 1.17       | 83.5     | 33.0       | 7.4         | 21-2,31-1 2 |
| DP 2012 B3XF       | 1395                 | 41.2   | 34.0      | 4.6        | 7.9           | 23.7         | 80 | 5      | 33               | 5.2    | 1.16       | 82.4     | 31.5       | 6.3         | 21-1 3      |
| NG 4936 B3XF       | 1363                 | 41.9   | 34.5      | 5.0        | 8.6           | 24.4         | 79 | 4      | 32               | 5.3    | 1.20       | 83.9     | 30.9       | 7.5         | 21-1,21-2 3 |
| PHY 415 W3FE       | 1354                 | 42.7   | 34.1      | 4.5        | 8.7           | 22.1         | 74 | 6      | 32               | 5.2    | 1.13       | 83.1     | 34.2       | 6.5         | 21-4,31-3 3 |
| PHY 545 W3FE       | 1348                 | 43.2   | 34.2      | 5.0        | 9.2           | 23.3         | 77 | 5      | 32               | 5.2    | 1.07       | 82.7     | 31.0       | 6.7         | 21-2 3      |
| PHY 350 W3FE       | 1336                 | 40.2   | 32.4      | 4.7        | 8.6           | 21.9         | 81 | 6      | 32               | 5.3    | 1.11       | 82.6     | 32.4       | 6.8         | 21-2,31-1 3 |
| DP 2141NR B3XF     | 1333                 | 40.9   | 32.8      | 4.6        | 9.5           | 20.0         | 66 | 5      | 33               | 5.7    | 1.14       | 82.5     | 34.1       | 6.7         | 21-2,31-1 4 |
| NG 3500 XF         | 1332                 | 44.3   | 35.1      | 4.6        | 9.5           | 21.4         | 76 | 6      | 34               | 5.8    | 1.04       | 81.7     | 33.3       | 6.8         | 21-4,31-3 3 |
| SSG UA 222 Saberex | 1322                 | 39.0   | 33.0      | 5.2        | 8.6           | 23.3         | 63 | 4      | 29               | 5.4    | 1.19       | 83.6     | 31.8       | 7.4         | 21-2 3      |
| PHY 332 W3FE       | 1313                 | 39.1   | 30.1      | 4.7        | 8.5           | 21.9         | 68 | 6      | 35               | 5.2    | 1.14       | 82.9     | 32.0       | 6.9         | 21-2,31-3 3 |
| NG 3930 B3XF       | 1305                 | 40.6   | 32.5      | 4.5        | 8.2           | 22.4         | 86 | 7      | 32               | 5.1    | 1.14       | 82.9     | 30.8       | 6.6         | 31-1 3      |
| PHY 400 W3FE       | 1302                 | 42.3   | 34.3      | 4.4        | 8.3           | 22.1         | 78 | 6      | 27               | 5.3    | 1.12       | 81.3     | 31.5       | 6.6         | 21-1,21-2 3 |
| BSD 4X             | 1291                 | 38.4   | 29.7      | 5.5        | 8.4           | 24.9         | 85 | 6      | 32               | 4.8    | 1.11       | 81.8     | 30.9       | 5.8         | 21-1,21-2 3 |
| ST 4550GLTP        | 1289                 | 42.2   | 33.4      | 4.5        | 8.4           | 22.4         | 84 | 4      | 33               | 5.2    | 1.11       | 82.3     | 31.8       | 7.3         | 21-4,31-1 4 |
| PHY 480 W3FE       | 1283                 | 42.1   | 32.9      | 4.5        | 8.7           | 21.6         | 66 | 6      | 32               | 5.2    | 1.09       | 83.0     | 32.4       | 7.3         | 21-2 3      |
| ExCeed 4447        | 1273                 | 42.9   | 33.5      | 5.0        | 8.9           | 23.8         | 84 | 5      | 34               | 5.4    | 1.12       | 83.0     | 32.9       | 6.4         | 21-2,31-1 2 |
| FM 1621GL          | 1273                 | 41.8   | 32.2      | 5.1        | 10.1          | 20.8         | 76 | 6      | 30               | 5.3    | 1.09       | 81.9     | 34.0       | 5.5         | 21-2,31-1 4 |
| ST 5600B2XF        | 1264                 | 44.5   | 34.1      | 4.5        | 10.8          | 18.3         | 65 | 5      | 33               | 5.6    | 1.09       | 82.6     | 33.5       | 7.2         | 31-3 5      |
| BSD 224            | 1262                 | 36.0   | 28.6      | 5.3        | 7.7           | 24.5         | 79 | 6      | 31               | 5.2    | 1.14       | 82.8     | 33.6       | 5.5         | 31-1 2      |
| DP 2143NR B3XF     | 1261                 | 37.8   | 30.6      | 4.5        | 9.3           | 18.2         | 70 | 5      | 34               | 5.6    | 1.14       | 82.7     | 33.8       | 6.5         | 31-1 3      |
| FM 2498GLT         | 1260                 | 44.0   | 34.0      | 5.2        | 10.1          | 22.7         | 76 | 6      | 31               | 5.5    | 1.10       | 82.8     | 33.3       | 5.8         | 21-2 3      |
| FM 1730GLTP        | 1244                 | 40.3   | 32.6      | 5.6        | 10.0          | 22.6         | 86 | 4      | 31               | 5.3    | 1.13       | 83.1     | 34.4       | 5.9         | 21-2,31-1 3 |
| PX 1122A213-04W3FE | 1244                 | 41.7   | 32.5      | 4.9        | 8.6           | 23.6         | 80 | 7      | 30               | 4.9    | 1.14       | 82.3     | 33.2       | 6.2         | 31-1 4      |
| DP 1646 B2XF       | 1218                 | 43.3   | 36.1      | 4.2        | 9.1           | 19.7         | 74 | 4      | 36               | 5.5    | 1.16       | 82.0     | 29.9       | 7.6         | 21-1,31-1 4 |
| DG 3520 B3XF       | 1201                 | 37.4   | 30.3      | 5.1        | 8.5           | 22.3         | 75 | 6      | 32               | 5.0    | 1.18       | 83.2     | 33.6       | 7.9         | 21-2,31-1 4 |
| PHY 210 W3FE       | 1199                 | 42.1   | 32.1      | 4.8        | 8.9           | 22.9         | 80 | 7      | 28               | 5.2    | 1.09       | 82.5     | 33.0       | 5.9         | 31-1 3      |
| ST 4993B3XF        | 1186                 | 43.7   | 34.9      | 4.7        | 10.0          | 20.4         | 78 | 7      | 34               | 5.6    | 1.09       | 82.5     | 34.2       | 6.7         | 21-2 2      |
| SSG UA 248         | 1183                 | 39.6   | 32.7      | 5.4        | 8.9           | 24.0         | 75 | 4      | 29               | 5.5    | 1.14       | 83.2     | 32.6       | 7.1         | 31-1 4      |
| DP 2044 B3XF       | 1182                 | 38.9   | 31.8      | 5.0        | 8.5           | 22.6         | 64 | 3      | 32               | 4.6    | 1.21       | 81.6     | 35.2       | 6.0         | 21-2,31-1 4 |
| DP 2020 B3XF       | 1178                 | 40.3   | 31.8      | 4.4        | 7.9           | 22.6         | 83 | 6      | 33               | 5.1    | 1.17       | 83.4     | 32.1       | 5.8         | 21-1,21-2 3 |
| SSG UA 222         | 1158                 | 40.2   | 33.0      | 5.4        | 9.4           | 23.2         | 69 | 4      | 31               | 5.4    | 1.15       | 82.8     | 33.1       | 7.3         | 21-2,31-1 3 |
| PX 1122A214-04W3FE | 1148                 | 44.9   | 34.4      | 4.4        | 9.6           | 20.8         | 81 | 7      | 29               | 5.1    | 1.06       | 80.9     | 32.5       | 6.2         | 21-2,31-1 3 |
| ExCeed 6494        | 1143                 | 38.8   | 32.6      | 5.1        | 8.6           | 22.7         | 79 | 4      | 33               | 5.6    | 1.10       | 83.0     | 32.3       | 6.1         | 31-1 4      |
| ST 5707B2XF        | 1137                 | 39.4   | 32.3      | 4.5        | 9.6           | 18.6         | 71 | 5      | 34               | 5.4    | 1.12       | 82.8     | 33.8       | 6.8         | 31-3 3      |
| DP 1820 B3XF       | 1131                 | 46.8   | 37.5      | 4.4        | 10.6          | 19.2         | 81 | 6      | 33               | 5.3    | 1.16       | 82.8     | 34.8       | 5.6         | 31-1 3      |
| SSG UA 114         | 1126                 | 37.7   | 30.9      | 5.6        | 8.1           | 26.2         | 86 | 5      | 34               | 5.8    | 1.12       | 84.1     | 33.0       | 6.9         | 31-2 3      |
| ExCeed 6546        | 1116                 | 41.6   | 32.7      | 4.6        | 9.7           | 19.6         | 75 | 5      | 32               | 5.5    | 1.08       | 80.9     | 32.2       | 6.5         | 31-1 3      |
| FM 2398GLTP        | 1115                 | 45.0   | 35.8      | 5.4        | 9.9           | 24.3         | 74 | 6      | 29               | 5.8    | 1.12       | 83.2     | 31.9       | 6.1         | 21-2 2      |
| PHY 205 W3FE       | 1080                 | 39.3   | 30.7      | 4.8        | 8.0           | 23.3         | 88 | 8      | 27               | 5.4    | 1.03       | 82.5     | 31.3       | 5.8         | 31-1 3      |
| UA 48              | 1077                 | 38.7   | 30.2      | 4.6        | 8.2           | 21.7         | 88 | 5      | 30               | 5.3    | 1.20       | 83.4     | 39.3       | 5.4         | 21-2,31-1 2 |

**Table 2. cont.**

| Designation           | Yield | Agronomic Properties |        |           |            | % Open Bolls |        |    | Fiber Properties |     |        |             |          |             |             |      |
|-----------------------|-------|----------------------|--------|-----------|------------|--------------|--------|----|------------------|-----|--------|-------------|----------|-------------|-------------|------|
|                       |       | Picked               | Pulled | Boll Size | Seed Index | Boll         | 20-Sep | SR | Height           | Mic | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf |
| DP 2123 B3XF          | 1067  | 37.5                 | 31.6   | 4.9       | 8.1        | 22.5         | 80     | 5  | 33               | 5.2 | 1.15   | 82.9        | 33.8     | 5.5         | 21-2,31-1   | 2    |
| BSD Ton Buster Magnum | 1059  | 36.4                 | 29.2   | 5.6       | 7.7        | 26.4         | 79     | 5  | 31               | 5.2 | 1.10   | 81.8        | 31.5     | 5.9         | 31-1        | 3    |
| PHY 764 WRF           | 1056  | 37.2                 | 30.2   | 4.8       | 7.9        | 22.2         | 76     | 3  | 33               | 4.7 | 1.15   | 83.0        | 37.3     | 7.0         | 31-1        | 5    |
| FM 958                | 1030  | 37.8                 | 29.9   | 5.0       | 8.0        | 23.7         | 80     | 6  | 29               | 5.4 | 1.10   | 82.5        | 33.1     | 5.3         | 31-1        | 2    |
| FM 2484B2XF           | 1013  | 39.5                 | 32.4   | 4.6       | 8.5        | 21.6         | 73     | 6  | 30               | 5.0 | 1.14   | 83.0        | 33.8     | 5.7         | 21-2        | 3    |
| ExCeed 4344           | 1005  | 37.7                 | 30.3   | 5.4       | 8.0        | 25.4         | 83     | 3  | 32               | 5.4 | 1.09   | 83.0        | 32.1     | 6.5         | 31-1        | 2    |
| PHY 250 W3FE          | 967   | 38.5                 | 31.1   | 5.2       | 8.5        | 23.7         | 81     | 7  | 29               | 5.3 | 1.10   | 82.4        | 32.4     | 5.9         | 21-2,31-1   | 3    |
| PX 1122A215-04W3FE    | 964   | 39.5                 | 30.9   | 4.8       | 8.4        | 22.4         | 78     | 6  | 28               | 4.8 | 1.13   | 82.3        | 33.6     | 6.3         | 21-2,31-1   | 4    |
| BSD Ton Buster Elite  | 942   | 37.7                 | 30.2   | 4.7       | 8.1        | 22.0         | 74     | 4  | 33               | 5.5 | 1.05   | 82.2        | 30.8     | 6.7         | 21-2,31-1   | 4    |
| FM 2011GT             | 863   | 42.5                 | 32.9   | 5.9       | 10.7       | 23.3         | 65     | 7  | 30               | 5.1 | 1.07   | 82.2        | 31.7     | 5.9         | 21-1,31-1   | 3    |
| Mean                  | 1220  | 40.6                 | 32.4   | 4.9       | 8.8        | 22.5         | 77     | 5  | 32               | 5.3 | 1.12   | 82.6        | 32.9     | 6.0         |             | 3    |
| c.v.%                 | 17.3  | 2.0                  | 2.7    | 8.0       | 4.6        | 8.3          | 10.1   | 13 | 5.4              | 2.9 | 2.2    | 0.8         | 3.0      | 3.3         |             | 31.4 |
| LSD 0.05              | 247   | 1.4                  | 1.4    | 0.7       | 0.7        | 3.7          | 9      | 1  | 2                | 0.3 | 0.04   | 1.1         | 1.6      | 0.3         |             | 2    |

**Table 3. Yield, agronomic, and fiber quality data from the irrigated uniform cotton variety performance trial at Texas A&M AgriLife Research Halfway, 2022.**

| Designation            | Yield | Agronomic Properties |           |            |               | % Open Bolls |    | Fiber Properties |     |        |             |          |             |             |           |
|------------------------|-------|----------------------|-----------|------------|---------------|--------------|----|------------------|-----|--------|-------------|----------|-------------|-------------|-----------|
|                        |       | % Lint Picked        | Boll Size | Seed Index | Seed per Boll | 20-Oct       | SR | Height           | Mic | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf      |
| FM 2498GLT             | 737   | 35.2                 | 28.8      | 7.3        | 11.5          | 34.7         | 24 | 6                | 34  | 4.7    | 1.22        | 83.5     | 29.9        | 5.9         | 11-2,21-1 |
| ExCeed 6546            | 725   | 35.3                 | 28.3      | 5.8        | 10.5          | 29.1         | 40 | 4                | 32  | 4.5    | 1.24        | 82.5     | 30.7        | 6.6         | 21-2      |
| SSG UA 248             | 721   | 32.7                 | 26.7      | 5.7        | 12.0          | 27.3         | 50 | 4                | 30  | 4.0    | 1.27        | 83.0     | 31.0        | 7.4         | 21-1      |
| FM 1621GL              | 720   | 39.1                 | 32.6      | 6.4        | 10.7          | 30.1         | 38 | 6                | 30  | 4.2    | 1.19        | 82.2     | 29.8        | 5.9         | 21-1,21-2 |
| DP 2123 B3XF           | 698   | 34.8                 | 27.6      | 6.0        | 10.6          | 30.1         | 51 | 4                | 32  | 4.3    | 1.19        | 82.5     | 31.0        | 5.7         | 211       |
| ST 4993B3XF            | 698   | 38.8                 | 31.5      | 5.5        | 9.6           | 28.4         | 65 | 6                | 29  | 4.8    | 1.19        | 84.2     | 31.5        | 6.8         | 11-1,21-1 |
| PX 1122A214-04W3FE     | 678   | 37.6                 | 29.1      | 5.5        | 11.4          | 26.5         | 54 | 7                | 25  | 4.1    | 1.18        | 82.9     | 32.9        | 6.6         | 21-1      |
| ST 5600B2XF            | 663   | 35.5                 | 28.4      | 6.7        | 11.4          | 31.6         | 38 | 5                | 33  | 5.0    | 1.21        | 83.5     | 30.9        | 7.1         | 21-1,21-3 |
| NG 4098 B3XF           | 655   | 33.6                 | 27.1      | 6.9        | 11.8          | 32.0         | 24 | 5                | 30  | 3.9    | 1.29        | 82.1     | 33.6        | 6.3         | 31-1      |
| BSD 4X                 | 653   | 31.3                 | 25.4      | 6.9        | 13.0          | 30.9         | 60 | 6                | 30  | 3.9    | 1.21        | 81.7     | 30.3        | 5.9         | 11-1,21-1 |
| BSD Ton Buster Elite   | 652   | 33.3                 | 26.6      | 6.0        | 11.5          | 30.2         | 56 | 4                | 32  | 4.3    | 1.18        | 82.3     | 30.6        | 6.8         | 11-2,21-1 |
| PX 1122A215-04W3FE     | 644   | 35.0                 | 27.2      | 6.0        | 11.7          | 28.9         | 59 | 7                | 28  | 4.2    | 1.20        | 83.3     | 32.7        | 6.5         | 11-2,21-1 |
| ExCeed 6494            | 642   | 35.0                 | 27.9      | 6.0        | 11.5          | 28.5         | 43 | 6                | 35  | 4.8    | 1.17        | 83.5     | 30.4        | 6.1         | 11-1,11-2 |
| SSG UA 222             | 641   | 33.3                 | 26.6      | 5.7        | 11.5          | 28.9         | 48 | 6                | 31  | 4.0    | 1.25        | 82.2     | 29.8        | 7.4         | 21-1      |
| BSD Ton Buster Magnum  | 637   | 32.3                 | 26.0      | 6.2        | 11.7          | 32.3         | 51 | 6                | 30  | 3.9    | 1.15        | 81.7     | 28.8        | 6.1         | 11-1,11-2 |
| Stoneville ST 4550GLTP | 632   | 38.3                 | 31.2      | 5.3        | 9.9           | 27.3         | 41 | 5                | 38  | 4.3    | 1.20        | 82.9     | 30.9        | 7.1         | 11-2,21-1 |
| FM 1730GLTP            | 630   | 37.1                 | 30.0      | 5.8        | 10.5          | 29.1         | 44 | 5                | 32  | 4.3    | 1.24        | 83.0     | 31.4        | 6.0         | 11-2,21-1 |
| DP 1820 B3XF           | 628   | 38.6                 | 31.1      | 4.9        | 9.8           | 24.6         | 73 | 5                | 27  | 4.5    | 1.25        | 82.6     | 32.0        | 5.7         | 11-2      |
| PHY 250 W3FE           | 627   | 33.4                 | 25.9      | 5.6        | 10.8          | 29.7         | 56 | 5                | 28  | 4.0    | 1.20        | 82.6     | 31.4        | 6.0         | 21-1      |
| PHY 400 W3FE           | 625   | 34.5                 | 26.9      | 5.4        | 10.3          | 28.3         | 60 | 5                | 26  | 4.2    | 1.19        | 82.3     | 32.0        | 6.0         | 11-1,21-1 |
| PHY 480 W3FE           | 625   | 33.8                 | 26.9      | 6.2        | 11.1          | 31.5         | 39 | 6                | 31  | 4.0    | 1.17        | 83.1     | 29.4        | 7.4         | 11-2      |
| ExCeed 4498            | 621   | 38.3                 | 31.2      | 6.0        | 11.1          | 26.8         | 30 | 4                | 34  | 4.9    | 1.23        | 83.5     | 30.7        | 7.6         | 21-1      |
| ST 5707B2XF            | 609   | 32.1                 | 25.6      | 6.6        | 12.5          | 32.2         | 44 | 5                | 34  | 4.5    | 1.21        | 83.8     | 31.9        | 6.5         | 11-1      |
| FM 1830GLT             | 605   | 36.8                 | 29.2      | 6.3        | 11.3          | 29.0         | 54 | 6                | 32  | 4.5    | 1.24        | 82.5     | 31.8        | 5.8         | 11-1,21-2 |
| PHY 545 W3FE           | 602   | 38.4                 | 29.9      | 5.6        | 10.8          | 26.7         | 30 | 5                | 32  | 4.4    | 1.17        | 83.5     | 31.8        | 6.8         | 21-1      |
| FM 2398GLTP            | 592   | 38.0                 | 29.9      | 6.1        | 11.3          | 29.2         | 38 | 6                | 31  | 4.8    | 1.20        | 83.4     | 30.5        | 6.0         | 11-1,11-2 |
| PHY 415 W3FE           | 589   | 33.5                 | 26.4      | 5.5        | 11.6          | 26.5         | 33 | 6                | 33  | 4.4    | 1.24        | 83.2     | 31.6        | 6.7         | 21-1      |
| ExCeed 4447            | 588   | 34.6                 | 27.5      | 6.5        | 10.9          | 31.1         | 48 | 6                | 33  | 4.5    | 1.23        | 83.2     | 31.7        | 6.6         | 21-1      |
| PHY 443 W3FE           | 586   | 34.2                 | 26.5      | 6.5        | 11.6          | 30.8         | 50 | 6                | 33  | 4.6    | 1.16        | 84.0     | 31.6        | 6.6         | 11-2,21-1 |
| NG 4936 B3XF           | 582   | 31.4                 | 25.8      | 5.9        | 11.1          | 31.3         | 71 | 4                | 31  | 4.2    | 1.21        | 82.5     | 29.5        | 7.0         | 11-1,21-1 |
| PHY 205 W3FE           | 582   | 34.3                 | 26.7      | 5.7        | 11.3          | 29.0         | 56 | 7                | 23  | 4.5    | 1.14        | 83.2     | 31.9        | 6.0         | 21-1,21-2 |
| PHY 332 W3FE           | 582   | 38.1                 | 29.8      | 6.2        | 11.1          | 31.0         | 24 | 6                | 32  | 4.6    | 1.21        | 83.2     | 30.7        | 6.7         | 21-1      |
| PHY 350 W3FE           | 582   | 33.9                 | 26.9      | 6.1        | 12.1          | 29.0         | 46 | 5                | 30  | 4.6    | 1.21        | 83.7     | 30.6        | 6.8         | 11-1,21-1 |
| PHY 411 W3FE           | 575   | 37.1                 | 29.2      | 5.0        | 9.4           | 25.2         | 33 | 5                | 31  | 4.7    | 1.17        | 83.0     | 30.5        | 6.6         | 11-2,21-1 |
| DP 2143NR B3XF         | 571   | 37.3                 | 29.6      | 5.7        | 9.9           | 29.4         | 43 | 5                | 35  | 4.9    | 1.21        | 82.7     | 30.5        | 6.4         | 11-2,21-1 |
| NG 3500 XF             | 569   | 32.1                 | 25.5      | 5.5        | 11.3          | 27.1         | 36 | 6                | 34  | 4.6    | 1.19        | 84.0     | 32.4        | 7.2         | 11-4,21-3 |
| PX 1122A213-04W3FE     | 567   | 33.8                 | 25.7      | 5.6        | 11.6          | 27.3         | 49 | 6                | 27  | 3.9    | 1.19        | 83.4     | 32.5        | 6.4         | 21-1      |
| FM 2484B2XF            | 564   | 37.2                 | 29.3      | 5.1        | 11.1          | 23.9         | 46 | 5                | 27  | 4.1    | 1.21        | 82.0     | 30.9        | 5.6         | 11-1,11-2 |
| BSD 9X                 | 562   | 32.7                 | 26.1      | 6.4        | 12.1          | 31.9         | 38 | 5                | 29  | 4.3    | 1.20        | 83.1     | 31.5        | 6.1         | 21-1      |
| DP 2044 B3XF           | 557   | 34.2                 | 27.3      | 6.6        | 11.5          | 31.4         | 28 | 4                | 32  | 3.9    | 1.28        | 80.7     | 32.1        | 5.9         | 21-1,31-1 |
| DP 2012 B3XF           | 549   | 34.3                 | 27.3      | 5.3        | 9.4           | 29.5         | 55 | 5                | 32  | 4.2    | 1.18        | 82.1     | 29.3        | 5.9         | 11-1      |
| FM 2011GT              | 547   | 37.5                 | 29.3      | 6.9        | 12.2          | 30.0         | 79 | 4                | 26  | 4.0    | 1.16        | 82.8     | 30.0        | 6.0         | 21-1      |
| SSG UA 114             | 547   | 31.0                 | 25.1      | 6.1        | 11.5          | 30.9         | 68 | 4                | 29  | 4.5    | 1.22        | 84.5     | 32.3        | 7.0         | 21-2      |
| BSD 224                | 536   | 32.3                 | 25.5      | 6.5        | 12.4          | 31.3         | 38 | 5                | 32  | 4.3    | 1.21        | 83.5     | 31.8        | 5.7         | 11-2,21-1 |
| SSG UA 222 Saberex     | 533   | 31.1                 | 25.6      | 6.0        | 12.1          | 28.4         | 41 | 6                | 28  | 4.3    | 1.26        | 83.3     | 30.4        | 7.5         | 11-2,21-1 |

Table 3. cont.

| Designation    | Yield | Agronomic Properties |        |        |           | % Open     |               | Fiber Properties |     |        |      |        |             |          |             |       |       |
|----------------|-------|----------------------|--------|--------|-----------|------------|---------------|------------------|-----|--------|------|--------|-------------|----------|-------------|-------|-------|
|                |       | % Lint               | Picked | Pulled | Boll Size | Seed Index | Seed per Boll | 20-Oct           | SR  | Height | Mic  | Length | Unif-ormity | Strength | Elong-ation | Color | Grade |
| UA 48          | 530   | 30.4                 | 24.0   | 5.7    | 12.7      | 28.6       | 50            | 4                | 26  | 4.0    | 1.28 | 83.8   | 35.0        | 5.7      | 11-1,11-2   | 3     |       |
| NG 3930 B3XF   | 530   | 32.2                 | 25.4   | 5.8    | 10.7      | 30.2       | 46            | 6                | 28  | 4.2    | 1.22 | 83.0   | 29.4        | 6.7      | 11-2,21-1   | 3     |       |
| DG 3520 B3XF   | 519   | 32.0                 | 25.2   | 5.9    | 12.4      | 27.4       | 35            | 5                | 30  | 3.7    | 1.27 | 84.4   | 31.2        | 7.4      | 11-2,31-1   | 4     |       |
| DP 2020 B3XF   | 510   | 35.5                 | 27.1   | 5.6    | 10.0      | 30.3       | 40            | 5                | 31  | 4.4    | 1.22 | 83.1   | 29.4        | 6.0      | 11-1        | 3     |       |
| ExCeed 4344    | 509   | 32.0                 | 25.3   | 6.0    | 12.1      | 28.8       | 51            | 4                | 32  | 4.5    | 1.18 | 83.1   | 31.5        | 6.8      | 11-2,21-3   | 3     |       |
| FM 958         | 504   | 31.9                 | 24.8   | 6.0    | 11.8      | 30.1       | 46            | 6                | 30  | 4.1    | 1.18 | 82.3   | 31.4        | 5.6      | 11-2,21-1   | 3     |       |
| PHY 210 W3FE   | 504   | 33.0                 | 25.9   | 5.6    | 10.4      | 30.1       | 43            | 6                | 27  | 3.9    | 1.18 | 82.3   | 31.1        | 5.9      | 21-1        | 4     |       |
| DP 1646 B2XF   | 489   | 36.5                 | 29.6   | 6.1    | 9.8       | 31.7       | 54            | 5                | 32  | 4.4    | 1.28 | 83.3   | 29.0        | 7.3      | 11-2,21-1   | 4     |       |
| DP 2141NR B3XF | 480   | 34.9                 | 27.1   | 5.6    | 10.5      | 29.0       | 40            | 5                | 34  | 4.6    | 1.20 | 81.9   | 31.0        | 6.0      | 11-2,21-1   | 3     |       |
| PHY 764 WRF    | 438   | 32.9                 | 26.3   | 5.9    | 12.2      | 28.4       | 39            | 6                | 34  | 3.9    | 1.20 | 83.3   | 33.6        | 6.7      | 11-2,21-1   | 2     |       |
| Mean           | 595   | 34.6                 | 27.5   | 5.9    | 11.2      | 29.3       | 46            | 5                | 31  | 4.3    | 1.21 | 82.9   | 31.1        | 6.4      |             | 3     |       |
| c.v.%          | 17.7  | 2.8                  | 3.4    | 6.2    | 3.6       | 6.5        | 24.6          | 17               | 9.5 | 5.2    | 1.6  | 0.8    | 2.4         | 2.5      |             | 27    |       |
| LSD 0.05       | 123   | 1.6                  | 1.6    | 0.6    | 0.7       | 3.2        | 13            | 1                | 3   | 0.4    | 0.03 | 1.1    | 1.3         | 0.3      |             | 1     |       |

**Table 4. Yield, agronomic, and fiber quality data from the irrigated uniform cotton variety performance trial at the AG-CARES research farm Lamesa, 2022.**

| Designation           | Agronomic Properties |        |        |           |            |               | % Open |             |    | Fiber Properties |        |             |          |             |             |      |
|-----------------------|----------------------|--------|--------|-----------|------------|---------------|--------|-------------|----|------------------|--------|-------------|----------|-------------|-------------|------|
|                       | Yield                | Lint % | Picked | Boll Size | Seed Index | Seed per Boll | 29-Sep | Boll Height | SR | Mic              | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf |
| PHY 545 W3FE          | 1392                 | 36.5   | 29.0   | 5.1       | 9.6        | 29.3          | 80     | 27          | 5  | 5.4              | 1.11   | 81.6        | 30.9     | 7.1         | 21-1        | 1    |
| FM 2498GLT            | 1319                 | 36.3   | 29.0   | 6.1       | 10.7       | 32.3          | 79     | 29          | 6  | 5.7              | 1.14   | 82.3        | 29.9     | 6.3         | 21-1        | 1    |
| DP 2044 B3XF          | 1252                 | 37.8   | 30.6   | 5.8       | 10.4       | 33.1          | 80     | 24          | 4  | 4.3              | 1.23   | 80.2        | 32.8     | 6.3         | 21-1        | 2    |
| ST 5600B2XF           | 1247                 | 37.9   | 30.8   | 6.1       | 9.8        | 35.6          | 60     | 29          | 4  | 5.4              | 1.15   | 82.9        | 31.7     | 7.4         | 21-1        | 1    |
| PHY 400 W3FE          | 1227                 | 37.4   | 29.5   | 4.9       | 9.0        | 30.6          | 81     | 26          | 6  | 4.9              | 1.15   | 81.0        | 31.2     | 6.9         | 21-1        | 2    |
| ST 5707B2XF           | 1227                 | 32.2   | 26.0   | 6.5       | 11.1       | 34.8          | 73     | 30          | 5  | 5.2              | 1.16   | 82.6        | 32.5     | 7.1         | 11-2,21-3   | 2    |
| NG 4098 B3XF          | 1212                 | 35.1   | 29.0   | 4.6       | 10.3       | 29.1          | 72     | 26          | 3  | 4.6              | 1.22   | 80.8        | 32.3     | 6.3         | 21-1,41-3   | 5    |
| PHY 332 W3FE          | 1212                 | 35.3   | 28.3   | 5.6       | 9.3        | 34.5          | 80     | 27          | 6  | 5.1              | 1.16   | 81.3        | 30.0     | 7.0         | 11-2,21-3   | 2    |
| PHY 350 W3FE          | 1194                 | 36.9   | 29.4   | 5.4       | 10.2       | 30.3          | 88     | 29          | 5  | 5.4              | 1.14   | 81.7        | 30.2     | 6.9         | 21-1,21-2   | 1    |
| ExCeed 4498           | 1145                 | 38.0   | 30.1   | 5.3       | 9.0        | 33.3          | 80     | 28          | 5  | 5.2              | 1.19   | 82.4        | 31.8     | 7.6         | 21-1        | 1    |
| DP 2123 B3XF          | 1081                 | 32.7   | 27.1   | 4.6       | 9.6        | 31.2          | 83     | 30          | 6  | 5.0              | 1.14   | 82.0        | 29.5     | 5.9         | 11-2,21-1   | 2    |
| FM 1621GL             | 1076                 | 36.2   | 28.6   | 5.9       | 10.1       | 31.9          | 82     | 27          | 7  | 5.4              | 1.13   | 82.3        | 31.8     | 5.9         | 21-1,21-1   | 2    |
| PHY 415 W3FE          | 1074                 | 28.7   | 22.9   | 5.1       | 9.4        | 30.           | 80     | 29          | 5  | 5.2              | 1.14   | 81.2        | 32.2     | 6.9         | 21-1,21-3   | 2    |
| BSD 4X                | 1058                 | 36.1   | 28.8   | 6.4       | 11.4       | 33.6          | 89     | 26          | 6  | 4.9              | 1.10   | 81.0        | 29.1     | 6.2         | 21-1        | 1    |
| DP 2020 B3XF          | 1057                 | 35.1   | 27.6   | 4.9       | 8.7        | 32.9          | 81     | 28          | 6  | 4.8              | 1.20   | 82.7        | 30.0     | 6.1         | 11-2,21-1   | 1    |
| BSD 9X                | 1038                 | 36.2   | 29.1   | 4.6       | 10.6       | 29.0          | 86     | 27          | 5  | 5.1              | 1.15   | 80.9        | 31.4     | 6.1         | 21-1        | 2    |
| FM 1830GLT            | 1032                 | 40.0   | 31.2   | 5.5       | 9.1        | 33.8          | 79     | 26          | 5  | 4.7              | 1.16   | 81.7        | 30.6     | 6.3         | 11-1,11-2   | 1    |
| PHY 205 W3FE          | 1027                 | 35.7   | 27.5   | 5.3       | 10.7       | 28.6          | 91     | 25          | 8  | 5.4              | 1.10   | 81.1        | 30.1     | 6.6         | 11-2,21-1   | 2    |
| ExCeed 4344           | 1021                 | 34.8   | 27.8   | 6.0       | 10.6       | 33.2          | 93     | 28          | 3  | 5.3              | 1.13   | 82.6        | 31.0     | 7.0         | 21-1,21-3   | 1    |
| ExCeed 6546           | 1017                 | 34.4   | 26.5   | 5.4       | 9.0        | 34.3          | 86     | 28          | 5  | 5.1              | 1.19   | 81.4        | 32.0     | 6.7         | 11-1,21-1   | 1    |
| ST 4993B3XF           | 1017                 | 35.8   | 29.2   | 5.4       | 9.3        | 31.5          | 80     | 27          | 6  | 5.5              | 1.12   | 82.8        | 32.3     | 7.0         | 21-1        | 1    |
| BSD Ton Buster Magnum | 1012                 | 34.5   | 27.8   | 5.5       | 10.6       | 31.0          | 88     | 28          | 5  | 5.3              | 1.09   | 81.4        | 29.9     | 6.5         | 11-2,21-1   | 1    |
| PHY 480 W3FE          | 1008                 | 31.0   | 24.4   | 5.1       | 9.5        | 31.3          | 83     | 26          | 6  | 5.0              | 1.13   | 82.2        | 30.6     | 7.6         | 21-1,21-3   | 2    |
| ExCeed 6494           | 1000                 | 34.8   | 27.8   | 4.6       | 9.2        | 32.9          | 91     | 29          | 4  | 5.5              | 1.11   | 81.7        | 29.1     | 6.2         | 11-2,21-1   | 1    |
| ST 4550GLTP           | 999                  | 35.9   | 28.6   | 5.7       | 9.2        | 33.7          | 85     | 28          | 5  | 5.3              | 1.13   | 81.9        | 31.1     | 7.2         | 21-1        | 3    |
| PHY 411 W3FE          | 993                  | 35.0   | 28.2   | 4.8       | 8.4        | 32.2          | 86     | 26          | 5  | 5.4              | 1.11   | 81.5        | 31.2     | 7.2         | 11-2,21-1   | 1    |
| PHY 443 W3FE          | 992                  | 36.8   | 28.2   | 5.4       | 10.1       | 30.4          | 89     | 29          | 5  | 5.5              | 1.13   | 81.6        | 32.5     | 6.8         | 21-1,21-3   | 1    |
| DP 2012 B3XF          | 977                  | 32.6   | 24.8   | 4.8       | 8.5        | 32.6          | 80     | 30          | 6  | 4.9              | 1.19   | 82.0        | 30.3     | 6.3         | 11-2        | 2    |
| NG 3930 B3XF          | 962                  | 32.8   | 26.3   | 5.2       | 9.4        | 32.4          | 84     | 29          | 7  | 5.1              | 1.16   | 82.3        | 30.1     | 6.7         | 21-1,21-3   | 1    |
| DP 2143NR B3XF        | 953                  | 36.7   | 28.4   | 5.2       | 9.3        | 33.2          | 85     | 25          | 5  | 5.4              | 1.20   | 83.3        | 32.0     | 7.0         | 21-1        | 2    |
| FM 1730GLTP           | 951                  | 34.8   | 28.2   | 5.9       | 9.2        | 36.5          | 87     | 28          | 6  | 5.2              | 1.16   | 82.8        | 31.9     | 6.2         | 11-1,11-2   | 2    |
| SSG UA 114            | 951                  | 31.7   | 25.7   | 5.9       | 10.6       | 33.9          | 91     | 24          | 4  | 5.3              | 1.16   | 83.4        | 31.6     | 7.4         | 21-1,21-3   | 2    |
| SSG UA 248            | 938                  | 33.7   | 27.9   | 5.7       | 10.3       | 32.3          | 86     | 24          | 4  | 5.1              | 1.16   | 81.0        | 29.8     | 7.3         | 11-2,21-1   | 2    |
| SSG UA 222            | 936                  | 34.8   | 28.1   | 5.8       | 10.6       | 32.4          | 59     | 25          | 4  | 4.6              | 1.20   | 82.2        | 30.6     | 7.7         | 11-2,21-1   | 3    |
| FM 2398GLTP           | 926                  | 34.7   | 27.6   | 5.9       | 9.8        | 34.0          | 85     | 26          | 6  | 5.6              | 1.15   | 82.9        | 30.3     | 6.2         | 11-1,21-1   | 1    |
| DG 3520 B3XF          | 917                  | 37.5   | 25.2   | 4.4       | 11.2       | 20.9          | 75     | 28          | 5  | 4.4              | 1.19   | 82.4        | 31.5     | 6.9         | 11-2,21-1   | 1    |
| BSD 224               | 908                  | 33.3   | 26.3   | 5.6       | 10.9       | 31.6          | 83     | 26          | 6  | 5.0              | 1.15   | 81.7        | 31.5     | 5.7         | 21-1        | 1    |
| PX 1122A213-04W3FE    | 907                  | 35.4   | 27.0   | 5.0       | 10.4       | 27.4          | 91     | 25          | 7  | 5.3              | 1.11   | 81.8        | 31.9     | 6.5         | 21-1        | 2    |
| PHY 250 W3FE          | 906                  | 34.3   | 27.0   | 5.3       | 10.1       | 30.5          | 86     | 25          | 6  | 5.3              | 1.11   | 81.2        | 30.1     | 6.1         | 21-1        | 2    |
| NG 4936 B3XF          | 902                  | 36.5   | 28.2   | 3.7       | 8.9        | 24.2          | 87     | 25          | 4  | 5.0              | 1.18   | 82.6        | 28.7     | 7.2         | 11-1,21-2   | 1    |
| FM 958                | 892                  | 32.9   | 25.8   | 4.9       | 11.4       | 28.3          | 90     | 26          | 7  | 5.2              | 1.14   | 81.1        | 31.0     | 5.5         | 21-1        | 1    |
| PHY 764 WRF           | 891                  | 37.9   | 28.5   | 4.8       | 10.7       | 25.9          | 80     | 29          | 3  | 4.9              | 1.14   | 81.6        | 32.4     | 6.9         | 21-1,21-3   | 1    |
| PHY 210 W3FE          | 877                  | 34.7   | 27.2   | 6.5       | 9.8        | 31.5          | 86     | 26          | 7  | 5.4              | 1.11   | 81.6        | 31.2     | 6.2         | 21-1        | 2    |
| NG 3500 XF            | 865                  | 33.4   | 26.8   | 5.1       | 10.1       | 29.4          | 85     | 28          | 5  | 5.5              | 1.14   | 81.8        | 33.6     | 7.2         | 21-3,22-1   | 1    |
| ExCeed 4447           | 859                  | 33.0   | 26.4   | 5.4       | 9.7        | 32.5          | 90     | 28          | 4  | 5.4              | 1.16   | 81.7        | 30.4     | 6.7         | 21-1        | 1    |

Table 4. cont.

| Designation          | Agronomic Properties |        |             |             |            |               | % Open Boll |        |    | Fiber Properties |        |             |          |             |             |      |
|----------------------|----------------------|--------|-------------|-------------|------------|---------------|-------------|--------|----|------------------|--------|-------------|----------|-------------|-------------|------|
|                      | Yield                | Lint % | Boll Picked | Seed Pulled | Size Index | Seed per Boll | 29-Sep      | Height | SR | Mic              | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf |
| SSG UA 222 Saberex   | 854                  | 28.8   | 22.9        | 5.6         | 10.5       | 31.1          | 89          | 26     | 4  | 5.0              | 1.18   | 81.9        | 30.9     | 7.1         | 21-1        | 1    |
| DP 1820 B3XF         | 845                  | 31.8   | 24.7        | 4.6         | 9.2        | 27.6          | 80          | 23     | 4  | 5.2              | 1.15   | 81.3        | 31.8     | 6.3         | 21-1        | 2    |
| BSD Ton Buster Elite | 830                  | 32.2   | 25.0        | 6.0         | 10.7       | 33.8          | 87          | 27     | 4  | 5.2              | 1.13   | 81.1        | 29.5     | 7.5         | 21-1        | 1    |
| UA 48                | 816                  | 30.4   | 24.3        | 5.8         | 11.5       | 31.8          | 90          | 29     | 4  | 5.4              | 1.24   | 83.3        | 35.7     | 5.6         | 21-1        | 2    |
| DP 1646 B2XF         | 785                  | 36.6   | 29.0        | 4.8         | 8.2        | 32.7          | 80          | 32     | 5  | 5.1              | 1.20   | 80.4        | 29.3     | 7.4         | 11-1        | 1    |
| PX 1122A214-04W3FE   | 767                  | 34.2   | 27.4        | 5.2         | 9.8        | 29.3          | 85          | 24     | 7  | 5.2              | 1.08   | 79.7        | 30.9     | 6.7         | 11-2,21-1   | 1    |
| DP 2141NR B3XF       | 751                  | 35.6   | 27.7        | 5.1         | 9.7        | 30.0          | 79          | 25     | 5  | 5.4              | 1.17   | 81.6        | 32.1     | 6.9         | 21-3,22-1   | 1    |
| FM 2484B2XF          | 709                  | 32.8   | 26.0        | 5.2         | 10.6       | 28.9          | 78          | 27     | 6  | 4.7              | 1.16   | 81.6        | 30.8     | 6.3         | 11-2,21-1   | 1    |
| PX 1122A215-04W3FE   | 701                  | 31.8   | 24.6        | 4.9         | 9.9        | 28.1          | 92          | 26     | 7  | 5.3              | 1.08   | 79.7        | 32.5     | 6.4         | 21-1        | 1    |
| Mean                 | 991                  | 34.6   | 27.4        | 5.3         | 9.9        | 31.3          | 83          | 27     | 5  | 5.1              | 1.15   | 81.7        | 31.1     | 6.7         |             | 1    |
| c.v.%                | 16.6                 | 3.2    | 3.2         | 10.3        | 3.8        | 8.4           | 10.3        | 6.7    | 14 | 3.5              | 2.3    | 0.9         | 2.9      | 4.1         |             | 51   |
| LSD 0.05             | 193                  | 1.8    | 1.5         | 0.9         | 0.6        | 4.4           | 10          | 2      | 1  | 0.3              | 0.04   | 1.2         | 1.2      | 0.5         |             | 1    |

FM 2011GT dropped due to seed quality

**Table 5. Yield, agronomic, and fiber quality data from the water limited uniform cotton variety performance trial at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation           | Agronomic Properties |        |        |        |           |            | % Open Bolls |        | Fiber Properties |     |      |        |            |          |            |    |
|-----------------------|----------------------|--------|--------|--------|-----------|------------|--------------|--------|------------------|-----|------|--------|------------|----------|------------|----|
|                       | Yield                | Lint % | Picked | Pulled | Boll Size | Seed Index | Boll         | Height | 12-Sep           | SR  | Mic  | Length | Uniformity | Strength | Elongation | CG |
| PHY 545 W3FE          | 399                  | 39.0   | 30.9   | 4.1    | 8.2       | 18.7       | 26           | 90     | 5                | 5.1 | 0.94 | 79.4   | 28.2       | 6.7      | 31-2,31-3  | 3  |
| PHY 332 W3FE          | 362                  | 39.6   | 31.1   | 3.9    | 8.1       | 19.7       | 24           | 84     | 5                | 5.0 | 1.03 | 80.0   | 27.7       | 6.3      | 31-3,32-1  | 3  |
| PHY 415 W3FE          | 358                  | 38.6   | 32.0   | 3.7    | 8.0       | 19.0       | 24           | 88     | 5                | 4.9 | 1.01 | 80.3   | 27.6       | 6.2      | 32-1,32-2  | 3  |
| ST 5707B2XF           | 356                  | 39.8   | 32.7   | 3.8    | 9.9       | 18.7       | 25           | 84     | 5                | 5.5 | 1.03 | 81.3   | 29.6       | 6.3      | 31-3       | 3  |
| ST 5600B2XF           | 351                  | 40.6   | 32.5   | 3.8    | 7.9       | 19.4       | 26           | 86     | 5                | 5.5 | 0.98 | 81.3   | 28.4       | 6.5      | 31-3       | 3  |
| DP 2143NR B3XF        | 350                  | 38.9   | 30.5   | 3.6    | 8.0       | 13.7       | 25           | 84     | 4                | 5.8 | 1.01 | 80.4   | 28.4       | 6.1      | 31-2,41-1  | 4  |
| FM 1621GL             | 345                  | 36.8   | 36.3   | 4.9    | 8.4       | 19.6       | 24           | 93     | 6                | 5.0 | 0.94 | 78.5   | 26.1       | 5.5      | 32-1,32-2  | 4  |
| PHY 205 W3FE          | 343                  | 37.0   | 29.1   | 4.1    | 8.6       | 19.7       | 22           | 86     | 7                | 5.1 | 0.96 | 80.1   | 27.3       | 5.7      | 31-2,32-1  | 3  |
| PHY 400 W3FE          | 337                  | 40.7   | 31.0   | 3.7    | 8.3       | 17.7       | 20           | 91     | 5                | 4.9 | 0.98 | 79.1   | 28.0       | 6.1      | 31-3       | 3  |
| BSD 224               | 337                  | 33.6   | 27.6   | 3.9    | 8.6       | 20.3       | 23           | 88     | 5                | 5.0 | 0.97 | 78.3   | 26.1       | 5.4      | 31-2,32-1  | 3  |
| FM 2398GLTP           | 337                  | 42.7   | 34.4   | 4.0    | 8.4       | 19.7       | 24           | 91     | 5                | 5.4 | 1.01 | 80.2   | 27.3       | 5.8      | 31-3,32-1  | 3  |
| DP 2141NR B3XF        | 335                  | 40.7   | 31.3   | 3.6    | 8.1       | 17.8       | 26           | 88     | 4                | 5.6 | 1.02 | 80.2   | 28.8       | 6.2      | 31-3       | 2  |
| ExCeed 4498           | 335                  | 37.5   | 29.4   | 3.8    | 7.8       | 14.1       | 24           | 91     | 4                | 5.6 | 1.03 | 80.6   | 31.1       | 7.1      | 31-3       | 3  |
| PHY 480 W3FE          | 329                  | 39.0   | 31.0   | 3.4    | 7.7       | 15.3       | 22           | 90     | 6                | 5.2 | 0.95 | 80.2   | 26.6       | 6.8      | 32-1       | 3  |
| ExCeed 4344           | 328                  | 36.7   | 31.9   | 4.0    | 8.5       | 20.8       | 26           | 89     | 5                | 5.0 | 0.97 | 79.3   | 26.4       | 6.1      | 31-3,32-1  | 3  |
| FM 958                | 328                  | 34.4   | 29.9   | 4.1    | 9.0       | 20.9       | 23           | 88     | 6                | 5.0 | 1.00 | 80.3   | 26.1       | 5.2      | 31-3,32-1  | 2  |
| SSG UA 222            | 328                  | 37.4   | 29.7   | 3.8    | 9.3       | 19.1       | 23           | 89     | 4                | 5.1 | 1.02 | 81.0   | 28.9       | 6.6      | 31-3       | 3  |
| ExCeed 6546           | 323                  | 37.6   | 30.9   | 3.3    | 7.7       | 13.4       | 25           | 90     | 4                | 5.2 | 1.00 | 77.4   | 27.1       | 5.9      | 31-4       | 3  |
| PHY 250 W3FE          | 317                  | 41.0   | 30.0   | 3.6    | 8.3       | 16.9       | 21           | 89     | 6                | 4.9 | 0.96 | 78.8   | 24.2       | 5.5      | 32-1       | 3  |
| BSD 9X                | 314                  | 38.2   | 29.7   | 4.2    | 8.7       | 22.3       | 23           | 91     | 6                | 4.9 | 0.92 | 78.6   | 24.8       | 5.4      | 31-3,32-1  | 3  |
| DP 1820 B3XF          | 312                  | 40.2   | 32.6   | 3.7    | 8.1       | 16.3       | 26           | 91     | 5                | 5.3 | 1.03 | 80.3   | 29.0       | 5.5      | 31-3       | 3  |
| NG 3930 B3XF          | 309                  | 35.8   | 27.5   | 3.5    | 7.6       | 17.6       | 25           | 91     | 6                | 4.9 | 1.01 | 80.7   | 26.2       | 5.9      | 32-1,32-2  | 3  |
| NG 3500 XF            | 307                  | 37.7   | 30.6   | 3.7    | 8.4       | 19.7       | 27           | 90     | 6                | 5.4 | 0.97 | 80.0   | 28.2       | 6.4      | 32-1,32-2  | 3  |
| ST 4993B3XF           | 295                  | 37.2   | 31.5   | 3.7    | 8.4       | 16.0       | 26           | 93     | 6                | 5.3 | 1.00 | 80.9   | 28.3       | 6.1      | 31-3       | 3  |
| NG 4098 B3XF          | 293                  | 36.5   | 29.4   | 3.9    | 9.1       | 19.8       | 23           | 84     | 5                | 4.6 | 1.07 | 79.4   | 30.6       | 6.1      | 32-2,31-3  | 4  |
| PHY 443 W3FE          | 293                  | 40.5   | 31.0   | 3.9    | 8.2       | 19.2       | 26           | 93     | 5                | 5.2 | 0.95 | 78.6   | 26.7       | 6.1      | 32-1       | 3  |
| SSG UA 248            | 291                  | 36.8   | 28.8   | 3.6    | 8.9       | 17.6       | 22           | 91     | 4                | 5.2 | 1.02 | 80.4   | 28.1       | 6.7      | 31-1,31-4  | 3  |
| PX 1122A213-04W3FE    | 283                  | 33.9   | 27.1   | 3.6    | 8.4       | 18.7       | 23           | 91     | 6                | 4.6 | 0.96 | 77.9   | 25.5       | 5.7      | 31-3,32-1  | 3  |
| PHY 411 W3FE          | 282                  | 36.6   | 28.2   | 3.0    | 7.4       | 11.5       | 24           | 93     | 5                | 5.1 | 0.91 | 78.7   | 26.0       | 5.9      | 31-2,31-3  | 3  |
| SSG UA 114            | 277                  | 34.9   | 27.7   | 4.3    | 9.0       | 20.6       | 27           | 90     | 4                | 5.2 | 1.00 | 79.8   | 26.8       | 6.6      | 32-1,32-2  | 3  |
| ExCeed 4447           | 269                  | 38.1   | 28.0   | 3.6    | 8.5       | 17.9       | 27           | 90     | 4                | 5.3 | 1.03 | 80.8   | 27.6       | 5.8      | 31-3,32-2  | 3  |
| FM 2498GLT            | 269                  | 39.8   | 31.8   | 4.2    | 9.3       | 20.0       | 23           | 88     | 6                | 5.3 | 1.01 | 79.7   | 26.2       | 5.5      | 31-3       | 3  |
| DP 1646 B2XF          | 267                  | 39.1   | 31.7   | 3.6    | 7.2       | 16.7       | 27           | 89     | 5                | 5.1 | 1.03 | 79.7   | 27.6       | 6.6      | 31-1,31-3  | 3  |
| FM 1830GLT            | 261                  | 37.9   | 30.1   | 3.6    | 7.5       | 14.6       | 23           | 93     | 6                | 5.1 | 0.99 | 78.8   | 26.5       | 5.6      | 31-3       | 3  |
| ST 4550GLTP           | 261                  | 38.8   | 31.1   | 3.9    | 7.6       | 18.4       | 25           | 88     | 5                | 4.8 | 1.01 | 80.4   | 28.7       | 6.3      | 32-1       | 3  |
| DP 2123 B3XF          | 256                  | 36.9   | 29.9   | 3.8    | 8.2       | 18.5       | 24           | 90     | 5                | 4.8 | 1.01 | 79.3   | 26.2       | 5.6      | 31-3,31-4  | 4  |
| DP 2044 B3XF          | 255                  | 34.3   | 26.8   | 3.7    | 8.7       | 20.6       | 24           | 81     | 5                | 4.3 | 1.07 | 78.8   | 29.1       | 5.8      | 31-3       | 4  |
| FM 2484B2XF           | 251                  | 33.3   | 26.1   | 3.8    | 9.1       | 17.0       | 23           | 81     | 5                | 5.2 | 1.04 | 80.1   | 31.5       | 5.6      | 31-1       | 3  |
| BSD Ton Buster Magnum | 249                  | 32.8   | 25.4   | 3.8    | 8.8       | 20.8       | 26           | 91     | 5                | 4.9 | 0.96 | 78.9   | 23.9       | 5.7      | 31-3,32-1  | 3  |
| BSD 4X                | 248                  | 33.0   | 26.3   | 4.4    | 9.7       | 21.4       | 23           | 91     | 5                | 4.6 | 0.98 | 78.3   | 25.5       | 5.5      | 22-1,31-1  | 3  |
| SSG UA 222 Saberex    | 246                  | 35.1   | 27.5   | 3.7    | 9.2       | 16.8       | 22           | 88     | 4                | 5.3 | 1.03 | 80.3   | 28.1       | 6.8      | 31-1,31-3  | 3  |
| NG 4936 B3XF          | 243                  | 35.6   | 29.1   | 3.7    | 8.0       | 16.5       | 23           | 91     | 5                | 4.9 | 1.05 | 81.1   | 26.4       | 6.6      | 31-1,31-2  | 3  |
| FM 1730GLTP           | 238                  | 36.1   | 29.0   | 3.6    | 7.7       | 19.3       | 22           | 95     | 6                | 4.9 | 0.98 | 79.0   | 24.8       | 5.1      | 31-3,32-2  | 3  |
| PHY 210 W3FE          | 236                  | 34.7   | 28.4   | 3.6    | 7.7       | 18.5       | 22           | 89     | 6                | 4.8 | 0.93 | 79.3   | 24.0       | 5.6      | 32-1       | 2  |
| DP 2012 B3XF          | 233                  | 34.1   | 26.1   | 3.4    | 6.8       | 17.3       | 25           | 90     | 5                | 4.9 | 0.99 | 79.3   | 25.0       | 5.6      | 31-1,32-1  | 3  |

Table 5. cont.

| Designation          | Yield | Agronomic Properties |        |        |           |            | % Open<br>Bolls | Fiber Properties |        |        |      |      |        |                 |           |                 |
|----------------------|-------|----------------------|--------|--------|-----------|------------|-----------------|------------------|--------|--------|------|------|--------|-----------------|-----------|-----------------|
|                      |       | Lint %               | Picked | Pulled | Boll Size | Seed Index |                 | Seed per<br>Boll | Height | 12-Sep | SR   | Mic  | Length | Unif-<br>ormity | Strength  | Elong-<br>ation |
| DP 2020 B3XF         | 233   | 39.1                 | 28.7   | 3.0    | 7.2       | 16.5       | 25              | 93               | 5      | 4.9    | 1.01 | 79.9 | 25.1   | 5.5             | 31-3      | 3               |
| FM 2011GT            | 232   | 36.5                 | 28.0   | 4.4    | 10.3      | 19.5       | 23              | 93               | 6      | 4.9    | 1.01 | 80.5 | 29.5   | 5.4             | 31-1,31-3 | 3               |
| PX 1122A215-04W3FE   | 229   | 36.9                 | 27.8   | 3.2    | 8.2       | 15.5       | 23              | 91               | 7      | 4.3    | 0.97 | 78.3 | 26.6   | 6.1             | 31-3,32-1 | 3               |
| PHY 764 WRF          | 227   | 40.1                 | 28.8   | 3.1    | 8.6       | 17.0       | 24              | 86               | 4      | 4.2    | 0.97 | 78.6 | 28.7   | 6.1             | 32-1      | 3               |
| BSD Ton Buster Elite | 227   | 35.0                 | 26.3   | 3.7    | 8.6       | 20.4       | 25              | 91               | 5      | 5.0    | 0.96 | 79.7 | 25.6   | 6.0             | 31-4,32-1 | 3               |
| DG 3520 B3XF         | 225   | 35.6                 | 28.9   | 3.3    | 8.1       | 19.7       | 25              | 81               | 5      | 4.7    | 1.08 | 83.2 | 32.5   | 7.7             | 31-1,31-2 | 4               |
| ExCeed 6494          | 217   | 34.5                 | 26.3   | 3.2    | 8.4       | 16.8       | 25              | 93               | 4      | 5.0    | 0.97 | 78.9 | 24.7   | 5.6             | 32-1      | 3               |
| UA 48                | 215   | 32.1                 | 25.3   | 3.5    | 9.6       | 19.3       | 23              | 93               | 5      | 4.9    | 1.06 | 80.8 | 28.4   | 5.3             | 32-1,32-2 | 3               |
| 1122A214-04W3FE      | 208   | 34.9                 | 25.6   | 3.2    | 8.0       | 16.0       | 23              | 89               | 7      | 4.3    | 0.93 | 78.2 | 25.7   | 5.8             | 32-1      | 3               |
| PHY 350 W3FE         | 199   | 38.7                 | 30.0   | 3.2    | 8.1       | 16.5       | 22              | 90               | 6      | 4.9    | 0.96 | 79.2 | 23.7   | 6.1             | 32-1      | 3               |
| Mean                 | 286   | 37.1                 | 29.4   | 3.7    | 8.3       | 18.1       | 24              | 89               | 5      | 5.0    | 0.99 | 79.7 | 27.2   | 6.0             |           | 3               |
| c.v.%                | 26.0  | 2.6                  | 3.0    | 9.1    | 4.6       | 9.5        | 7.7             | 5.1              | 12     | 3.6    | 2.5  | 0.8  | 4.9    | 3.6             |           | 17.9            |
| LSD 0.05             | 87    | 1.6                  | 1.5    | 0.6    | 0.6       | 2.9        | 2               | 5                | 1      | 0.3    | 0.04 | 1.0  | 2.2    | 0.4             |           | 1               |

**Table 6. Yield summary over four locations of the uniform cotton variety performance trials conducted by Texas A&M Research.****Lubbock, 2022.**

| Designation           | Overall Average | Lubbock Irr Rank | Lubbock Dry Rank | Halfway Irr Rank | Lamesa Irr Rank |
|-----------------------|-----------------|------------------|------------------|------------------|-----------------|
| PHY 545 W3FE          | 935             | 10               | 1                | 26               | 1               |
| NG 4098 B3XF          | 905             | 3                | 25               | 10               | 7               |
| FM 2498GLT            | 896             | 26               | 33               | 1                | 2               |
| ST 5600B2XF           | 881             | 23               | 5                | 9                | 4               |
| ExCeed 4498           | 877             | 6                | 13               | 23               | 10              |
| PHY 400 W3FE          | 873             | 17               | 9                | 21               | 5               |
| PHY 332 W3FE          | 867             | 15               | 2                | 35               | 8               |
| PHY 411 W3FE          | 860             | 1                | 29               | 36               | 26              |
| FM 1621GL             | 854             | 22               | 7                | 4                | 12              |
| PHY 415 W3FE          | 844             | 9                | 3                | 28               | 13              |
| BSD 9X                | 841             | 4                | 20               | 41               | 16              |
| PHY 443 W3FE          | 838             | 2                | 26               | 31               | 27              |
| FM 1830GLT            | 835             | 5                | 35               | 25               | 17              |
| ST 5707B2XF           | 832             | 39               | 4                | 24               | 6               |
| PHY 350 W3FE          | 828             | 11               | 57               | 34               | 9               |
| BSD 4X                | 813             | 18               | 41               | 11               | 14              |
| DP 2044 B3XF          | 812             | 34               | 38               | 42               | 3               |
| PHY 480 W3FE          | 811             | 20               | 14               | 22               | 23              |
| ST 4993B3XF           | 799             | 32               | 24               | 6                | 21              |
| ST 4550GLTP           | 795             | 19               | 36               | 17               | 25              |
| ExCeed 6546           | 795             | 42               | 18               | 2                | 20              |
| DP 2012 B3XF          | 789             | 7                | 46               | 43               | 28              |
| DP 2143NR B3XF        | 784             | 25               | 6                | 37               | 30              |
| SSG UA 248            | 783             | 33               | 27               | 3                | 33              |
| NG 3930 B3XF          | 777             | 16               | 22               | 49               | 29              |
| DP 2123 B3XF          | 776             | 46               | 37               | 5                | 11              |
| NG 4936 B3XF          | 773             | 8                | 43               | 32               | 40              |
| NG 3500 XF            | 768             | 13               | 23               | 38               | 44              |
| FM 1730GLTP           | 766             | 27               | 44               | 18               | 31              |
| SSG UA 222            | 766             | 36               | 17               | 15               | 34              |
| BSD 224               | 761             | 24               | 10               | 46               | 37              |
| PHY 205 W3FE          | 758             | 44               | 8                | 33               | 18              |
| ExCeed 6494           | 751             | 38               | 53               | 14               | 24              |
| PX 1122A213-04W3FE    | 750             | 28               | 28               | 39               | 38              |
| ExCeed 4447           | 747             | 21               | 32               | 29               | 45              |
| DP 2020 B3XF          | 745             | 35               | 47               | 51               | 15              |
| FM 2398GLTP           | 743             | 43               | 11               | 27               | 35              |
| BSD Ton Buster Magnum | 739             | 47               | 40               | 16               | 22              |
| SSG UA 222 Saberex    | 739             | 14               | 42               | 47               | 46              |
| DP 1820 B3XF          | 729             | 40               | 21               | 19               | 47              |
| SSG UA 114            | 725             | 41               | 31               | 45               | 32              |
| DP 2141NR B3XF        | 725             | 12               | 12               | 56               | 52              |
| ExCeed 4344           | 716             | 51               | 15               | 52               | 19              |
| DG 3520 B3XF          | 716             | 30               | 52               | 50               | 36              |
| PHY 250 W3FE          | 704             | 52               | 19               | 20               | 39              |
| PHY 210 W3FE          | 704             | 31               | 45               | 53               | 43              |
| PX 1122A214-04W3FE    | 700             | 37               | 56               | 7                | 51              |
| DP 1646 B2XF          | 690             | 29               | 34               | 55               | 50              |
| FM 958                | 688             | 49               | 16               | 54               | 41              |
| BSD Ton Buster Elite  | 663             | 54               | 51               | 12               | 48              |
| UA 48                 | 660             | 45               | 55               | 48               | 49              |
| PHY 764 WRF           | 653             | 48               | 50               | 57               | 42              |
| PX 1122A215-04W3FE    | 635             | 53               | 49               | 13               | 54              |
| FM 2484B2XF           | 634             | 50               | 39               | 40               | 53              |
| FM 2011GT             | 547             | 55               | 48               | 44               | .               |

# Notes

**Table 7. Yield, agronomic, and fiber quality data from the irrigated late planted cotton variety performance trial at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation           | Agronomic Properties |        |        |       |           |            | % Open        |        | Fiber Properties |        |      |        |            |          | Color Grade | Leaf |
|-----------------------|----------------------|--------|--------|-------|-----------|------------|---------------|--------|------------------|--------|------|--------|------------|----------|-------------|------|
|                       | Yield                | Picked | Pulled | Lint% | Boll Size | Seed Index | Seed per Boll | 21-Oct | Bolls SR         | Height | Mic  | Length | Uniformity | Strength | Elongation  |      |
| PX1126B226-04W3FE     | 2064                 | 37.3   | 30.2   | 5.2   | 9.9       | 26.5       | 32            | 8      | 36               | 4.3    | 1.21 | 81.8   | 30.3       | 7.3      | 11-2,21-1   | 2    |
| PX1126B238-04W3FE     | 2003                 | 35.7   | 29.3   | 5.3   | 9.6       | 28.8       | 53            | 7      | 33               | 4.6    | 1.19 | 83.2   | 31.6       | 5.8      | 11-2,21-1   | 3    |
| PX1130B333-04W3FE     | 1978                 | 37.1   | 31.0   | 5.3   | 9.4       | 27.4       | 52            | 7      | 32               | 4.1    | 1.20 | 82.5   | 30.9       | 6.9      | 21-1,31-1   | 3    |
| PHY 415 W3FE          | 1953                 | 36.7   | 30.7   | 6.0   | 10.9      | 30.8       | 47            | 7      | 38               | 4.4    | 1.27 | 82.9   | 30.5       | 6.9      | 21-1,21-2   | 3    |
| PX1140B373-04W3FE     | 1896                 | 34.5   | 28.6   | 5.8   | 10.2      | 30.1       | 50            | 7      | 34               | 4.2    | 1.20 | 82.1   | 30.3       | 7.9      | 112,21-1    | 2    |
| DP 2012 B3XF          | 1843                 | 36.6   | 30.9   | 5.9   | 9.2       | 32.1       | 40            | 5      | 39               | 4.4    | 1.20 | 82.1   | 30.1       | 6.3      | 11-1,11-2   | 2    |
| PHY 411 W3FE          | 1831                 | 37.2   | 30.8   | 5.4   | 9.0       | 25.8       | 67            | 6      | 36               | 4.7    | 1.16 | 83.0   | 31.4       | 7.1      | 11-2,21-1   | 3    |
| PX1130B336-04W3FE     | 1831                 | 35.4   | 29.2   | 4.9   | 9.5       | 25.3       | 60            | 8      | 34               | 3.9    | 1.19 | 82.1   | 30.7       | 7.1      | 21-1        | 3    |
| PHY 443 W3FE          | 1742                 | 37.2   | 29.5   | 6.6   | 11.4      | 31.2       | 58            | 6      | 36               | 4.7    | 1.19 | 84.0   | 30.6       | 7.1      | 21-1        | 2    |
| FM 1621GL             | 1733                 | 39.2   | 32.9   | 6.3   | 9.8       | 28.2       | 53            | 7      | 32               | 4.7    | 1.22 | 82.7   | 29.8       | 6.3      | 21-2        | 4    |
| PX1125B234-04W3FE     | 1723                 | 33.6   | 27.9   | 6.5   | 10.6      | 32.3       | 48            | 6      | 33               | 4.4    | 1.19 | 83.1   | 30.5       | 6.5      | 21-1        | 4    |
| ST 4595B3XF           | 1703                 | 37.6   | 31.9   | 5.7   | 9.7       | 27.5       | 60            | 5      | 35               | 4.3    | 1.26 | 82.8   | 29.1       | 7.5      | 21-2        | 4    |
| ExCeed 6494           | 1675                 | 34.0   | 27.6   | 5.7   | 11.2      | 26.9       | 68            | 5      | 36               | 5.0    | 1.20 | 83.0   | 29.4       | 6.4      | 21-1,21-2   | 2    |
| PHY 400 W3FE          | 1660                 | 36.8   | 30.7   | 5.8   | 10.1      | 29.7       | 57            | 6      | 28               | 4.3    | 1.22 | 81.8   | 30.3       | 6.4      | 21-1,21-2   | 3    |
| ExCeed 4447           | 1658                 | 36.6   | 30.5   | 6.2   | 10.0      | 30.4       | 70            | 4      | 34               | 4.8    | 1.24 | 83.4   | 29.9       | 7.0      | 21-1,21-2   | 3    |
| PHY 332 W3FE          | 1655                 | 33.9   | 27.2   | 5.7   | 10.2      | 28.5       | 52            | 6      | 38               | 4.2    | 1.23 | 82.9   | 31.6       | 6.9      | 11-2,31-1   | 3    |
| PX1122A213-04W3FE     | 1645                 | 35.3   | 27.7   | 5.5   | 11.1      | 26.6       | 67            | 7      | 31               | 4.0    | 1.23 | 81.7   | 32.0       | 6.9      | 21-1,21-2   | 3    |
| PX1124B236-04W3FE     | 1644                 | 35.0   | 28.2   | 5.6   | 11.3      | 27.4       | 40            | 6      | 34               | 4.4    | 1.22 | 83.5   | 31.3       | 6.9      | 21-1,21-2   | 4    |
| PX1122A214-04W3FE     | 1575                 | 36.7   | 29.3   | 6.1   | 10.8      | 31.0       | 58            | 8      | 33               | 4.1    | 1.20 | 82.2   | 32.2       | 6.6      | 21-1        | 3    |
| PHY 210 W3FE          | 1554                 | 38.3   | 30.3   | 5.8   | 10.5      | 29.5       | 70            | 6      | 32               | 4.3    | 1.19 | 82.4   | 30.9       | 6.5      | 11-2,21-2   | 3    |
| PX1122A215-04W3FE     | 1554                 | 35.0   | 28.9   | 6.1   | 10.9      | 30.2       | 62            | 7      | 33               | 4.0    | 1.24 | 81.1   | 31.8       | 6.9      | 21-1        | 4    |
| ExCeed 6546           | 1548                 | 35.4   | 30.0   | 5.9   | 9.5       | 28.7       | 58            | 5      | 33               | 4.5    | 1.23 | 81.6   | 30.4       | 7.1      | 21-1        | 3    |
| PX1140A385-04W3FE     | 1531                 | 36.5   | 31.0   | 5.5   | 10.1      | 26.9       | 37            | 7      | 38               | 4.4    | 1.20 | 83.0   | 31.2       | 7.7      | 21-1,21-2   | 4    |
| ExCeed 4498           | 1514                 | 36.7   | 31.3   | 5.7   | 9.3       | 27.0       | 62            | 6      | 33               | 4.6    | 1.24 | 83.3   | 30.6       | 8.0      | 21-1        | 2    |
| DP 2123 B3XF          | 1511                 | 34.0   | 29.2   | 6.1   | 9.8       | 32.1       | 68            | 5      | 33               | 4.3    | 1.21 | 81.0   | 30.0       | 5.9      | 21-1,31-1   | 3    |
| ExCeed 4344           | 1501                 | 33.7   | 26.9   | 6.2   | 11.5      | 30.1       | 78            | 4      | 32               | 4.3    | 1.19 | 82.6   | 29.9       | 7.3      | 21-2        | 3    |
| BSD 224               | 1479                 | 32.6   | 28.4   | 6.8   | 11.3      | 34.1       | 57            | 5      | 37               | 4.2    | 1.21 | 82.6   | 31.7       | 5.9      | 11-2,21-1   | 2    |
| XC190518              | 1432                 | 34.7   | 29.3   | 6.5   | 10.5      | 32.3       | 62            | 5      | 33               | 4.5    | 1.34 | 82.6   | 31.4       | 6.4      | 21-1,21-2   | 3    |
| PHY 205 W3FE          | 1431                 | 34.4   | 27.7   | 6.3   | 11.0      | 32.0       | 57            | 7      | 30               | 4.6    | 1.17 | 83.3   | 31.7       | 6.5      | 21-1        | 3    |
| BSD 9X                | 1424                 | 34.5   | 28.2   | 6.4   | 11.9      | 30.9       | 58            | 5      | 36               | 4.2    | 1.21 | 82.2   | 31.6       | 6.3      | 21-1        | 3    |
| FM 1730GLTP           | 1424                 | 34.8   | 30.0   | 5.8   | 9.7       | 29.8       | 82            | 6      | 29               | 4.1    | 1.25 | 83.0   | 30.5       | 6.5      | 21-1        | 3    |
| PHY 250 W3FE          | 1421                 | 34.0   | 27.6   | 5.8   | 10.8      | 29.1       | 65            | 7      | 29               | 4.2    | 1.21 | 82.0   | 30.6       | 6.2      | 11-2,21-1   | 2    |
| XC190519              | 1419                 | 33.5   | 28.2   | 6.7   | 10.3      | 34.3       | 67            | 6      | 34               | 4.2    | 1.34 | 83.0   | 32.1       | 5.8      | 21-1,21-2   | 2    |
| BSD 4X                | 1399                 | 33.7   | 28.6   | 7.2   | 12.2      | 33.5       | 58            | 6      | 36               | 4.1    | 1.20 | 81.4   | 30.0       | 6.3      | 21-1        | 3    |
| PHY 350 W3FE          | 1395                 | 35.0   | 28.5   | 6.2   | 11.1      | 29.8       | 50            | 6      | 35               | 4.5    | 1.20 | 82.8   | 29.4       | 7.3      | 21-1        | 3    |
| BSD Ton Buster Magnum | 1301                 | 32.3   | 27.2   | 5.8   | 11.2      | 29.9       | 67            | 5      | 33               | 4.2    | 1.17 | 81.1   | 28.9       | 6.6      | 21-1        | 4    |
| DP 1820 B3XF          | 1263                 | 39.0   | 31.3   | 5.5   | 9.8       | 26.3       | 50            | 6      | 35               | 4.3    | 1.25 | 81.9   | 31.4       | 6.1      | 21-1        | 3    |
| BSD Ton Buster Elite  | 1262                 | 32.3   | 26.9   | 5.9   | 11.0      | 30.3       | 70            | 5      | 34               | 4.5    | 1.21 | 82.7   | 28.8       | 7.4      | 21-1        | 2    |
| Mean                  | 1610                 | 35.4   | 29.3   | 5.9   | 10.4      | 29.5       | 58            | 6      | 34               | 4.3    | 1.22 | 82.5   | 30.6       | 6.7      |             | 3    |
| c.v.%                 | 12.6                 | 2.8    | 2.7    | 6.2   | 3.9       | 5.8        | 20.8          | 12.1   | 8.7              | 3.7    | 1.3  | 0.8    | 1.6        | 2.5      |             | 28   |
| LSD 0.05              | 239                  | 1.7    | 1.3    | 0.6   | 0.7       | 2.9        | 16            | 1      | 4                | 0.3    | 0.03 | 1.1    | 0.8        | 0.3      |             | 1    |

**Table 8. Yield, agronomic, and fiber quality data from the irrigated new varieties and strains performance trial at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation           | Agronomic Properties |        |             |             |            | % Open Bolls  |        |    |        | Fiber Properties |        |            |            |             |             |
|-----------------------|----------------------|--------|-------------|-------------|------------|---------------|--------|----|--------|------------------|--------|------------|------------|-------------|-------------|
|                       | Yield                | Lint % | Boll Picked | Seed Pulled | Size Index | Seed per Boll | 21-Sep | SR | Height | Mic              | Length | Uniformity | Elongation | Color Grade | Leaf        |
| PX1150B431-04W3FE     | 1665                 | 41.1   | 32.3        | 4.8         | 8.6        | 20.9          | 65     | 6  | 31     | 5.6              | 1.06   | 81.1       | 32.5       | 7.2         | 31-1 3      |
| PX1140A385-04W3FE     | 1644                 | 42.9   | 34.3        | 4.7         | 9.2        | 20.3          | 60     | 5  | 29     | 5.4              | 1.09   | 83.6       | 32.1       | 7.7         | 21-2 2      |
| PX1150B437-04W3FE     | 1582                 | 39.9   | 32.1        | 4.7         | 9.4        | 19.9          | 79     | 5  | 30     | 5.4              | 1.05   | 81.6       | 31.6       | 7.0         | 21-1,31-1 2 |
| PX1126B238-04W3FE     | 1555                 | 38.1   | 30.5        | 5.2         | 9.9        | 25.6          | 73     | 7  | 29     | 5.4              | 1.11   | 83.5       | 32.3       | 6.2         | 21-1 2      |
| 20R745NRB3XF          | 1530                 | 41.2   | 34.3        | 5.0         | 7.8        | 24.5          | 70     | 5  | 32     | 5.3              | 1.10   | 81.1       | 30.5       | 6.6         | 31-1 3      |
| PHY 411 W3FE          | 1512                 | 41.2   | 33.0        | 4.3         | 8.3        | 19.2          | 79     | 5  | 28     | 5.5              | 1.03   | 81.4       | 30.7       | 7.0         | 21-2,31-1 3 |
| BX 2396B3XF           | 1507                 | 44.3   | 35.5        | 4.9         | 8.5        | 24.1          | 73     | 6  | 29     | 5.6              | 1.11   | 82.1       | 29.7       | 7.3         | 21-1 2      |
| BX 2394B3XF           | 1478                 | 42.0   | 33.7        | 4.4         | 7.9        | 21.1          | 79     | 5  | 31     | 5.0              | 1.09   | 81.3       | 29.8       | 6.9         | 21-1 2      |
| PHY 332 W3FE          | 1469                 | 38.5   | 32.2        | 5.1         | 9.1        | 23.1          | 78     | 5  | 31     | 5.2              | 1.13   | 82.2       | 32.3       | 7.1         | 21-1,21-2 2 |
| PX1125B234-04W3FE     | 1454                 | 38.6   | 30.8        | 4.9         | 10.1       | 22.2          | 79     | 6  | 27     | 5.7              | 1.10   | 81.0       | 30.3       | 6.7         | 31-1 3      |
| PX1140B373-04W3FE     | 1450                 | 40.5   | 31.7        | 4.7         | 9.3        | 20.1          | 75     | 6  | 28     | 5.2              | 1.08   | 81.8       | 33.4       | 8.3         | 21-2 2      |
| PX1130B336-04W3FE     | 1441                 | 39.9   | 31.3        | 4.4         | 8.8        | 21.9          | 84     | 6  | 27     | 5.2              | 1.09   | 83.1       | 33.3       | 7.3         | 21-2,31-1 2 |
| PHY 415 W3FE          | 1440                 | 40.8   | 33.0        | 4.7         | 9.2        | 22.5          | 75     | 5  | 27     | 5.1              | 1.11   | 82.5       | 32.6       | 6.8         | 31-1,31-3 3 |
| PX1122A213-04W3FE     | 1430                 | 41.5   | 33.0        | 5.3         | 10.2       | 23.5          | 84     | 7  | 25     | 4.9              | 1.15   | 82.6       | 33.2       | 6.9         | 21-1,21-2 3 |
| PX1124B236-04W3FE     | 1412                 | 38.4   | 30.5        | 5.2         | 10.0       | 21.6          | 71     | 6  | 27     | 5.6              | 1.08   | 82.3       | 32.7       | 6.9         | 21-1 3      |
| BX 2398B3XF           | 1411                 | 42.1   | 34.1        | 4.7         | 9.0        | 23.6          | 66     | 5  | 31     | 5.4              | 1.17   | 82.4       | 29.1       | 7.2         | 21-2 2      |
| PX1150A450-04W3FE     | 1403                 | 42.5   | 33.5        | 4.5         | 8.7        | 17.8          | 68     | 6  | 29     | 5.6              | 1.08   | 81.8       | 32.7       | 7.3         | 21-2 2      |
| PX1126B226-04W3FE     | 1400                 | 41.6   | 32.8        | 4.9         | 9.1        | 22.0          | 75     | 7  | 28     | 5.3              | 1.08   | 82.3       | 31.2       | 7.0         | 21-1,31-1 2 |
| PX1150B434-04W3FE     | 1395                 | 38.2   | 30.8        | 4.3         | 8.7        | 19.9          | 70     | 6  | 29     | 5.3              | 1.05   | 80.2       | 31.3       | 6.8         | 21-2 2      |
| PHY 205 W3FE          | 1383                 | 40.4   | 31.6        | 5.0         | 9.7        | 23.9          | 88     | 7  | 25     | 5.3              | 1.06   | 81.4       | 31.5       | 6.2         | 31-1 3      |
| PX1150B435-04W3FE     | 1380                 | 41.0   | 32.6        | 4.4         | 8.7        | 20.3          | 68     | 5  | 31     | 5.5              | 1.08   | 81.3       | 31.1       | 7.5         | 21-2 3      |
| DP 2349NR B3XF        | 1356                 | 44.6   | 38.5        | 4.8         | 9.3        | 18.4          | 69     | 5  | 33     | 5.4              | 1.11   | 81.9       | 30.0       | 6.6         | 21-2,31-1 2 |
| PX1130B333-04W3FE     | 1325                 | 38.3   | 30.6        | 4.6         | 8.1        | 22.1          | 81     | 6  | 28     | 5.2              | 1.07   | 82.2       | 32.9       | 6.7         | 21-2 2      |
| BSD Ton Buster Magnum | 1319                 | 38.2   | 30.5        | 5.2         | 10.8       | 24.3          | 81     | 6  | 29     | 5.2              | 1.08   | 80.6       | 29.4       | 6.2         | 21-2,31-1 3 |
| PX1122A214-04W3FE     | 1163                 | 40.6   | 31.6        | 4.5         | 9.2        | 20.7          | 86     | 6  | 26     | 4.9              | 1.09   | 81.0       | 33.5       | 6.7         | 31-1 3      |
| BX 2392B3XF           | 1110                 | 40.9   | 29.9        | 4.1         | 8.6        | 19.9          | 83     | 6  | 30     | 5.3              | 1.12   | 82.3       | 29.5       | 6.6         | 21-2 2      |
| PX1122A215-04W3FE     | 1099                 | 40.0   | 31.7        | 4.5         | 9.6        | 20.2          | 86     | 7  | 25     | 4.7              | 1.12   | 81.7       | 33.4       | 6.4         | 21-2,31-1 3 |
| BSD 4X                | 1048                 | 37.5   | 30.3        | 5.7         | 11.1       | 25.9          | 88     | 5  | 27     | 5.1              | 1.12   | 81.4       | 31.4       | 5.9         | 21-1 3      |
| XC190519              | 1036                 | 36.0   | 28.9        | 4.9         | 10.0       | 23.5          | 73     | 5  | 29     | 5.2              | 1.24   | 81.8       | 34.2       | 6.0         | 21-2,31-1 2 |
| XC190518              | 959                  | 36.9   | 30.5        | 5.0         | 9.3        | 22.1          | 80     | 5  | 27     | 5.1              | 1.20   | 81.7       | 32.9       | 6.2         | 21-2,31-1 3 |
| Mean                  | 1378                 | 40.2   | 32.2        | 4.8         | 9.2        | 21.8          | 76     | 6  | 28     | 5.3              | 1.10   | 81.8       | 31.7       | 6.8         | 2           |
| c.v.%                 | 14.7                 | 1.8    | 2.2         | 4.8         | 3.8        | 6.9           | 9.9    | 12 | 5.3    | 2.7              | 1.7    | 0.8        | 2.5        | 3.6         | 20          |
| LSD 0.05              | 238                  | 1.2    | 1.2         | 0.4         | 0.6        | 2.6           | 76     | 1  | 2      | 0.2              | 0.03   | 1.1        | 1.3        | 0.4         | 1           |

**Table 9. Yield, agronomic, and fiber quality data from the irrigated Verticillium wilt cotton variety performance trial at Texas A&M AgriLife Research Halfway, 2022.**

| Designation           | Yield | Agronomic Properties |        |      |       | % Open   |       |        | Fiber Properties |        |      |        |             |          | Vert        |             |      |            |            |
|-----------------------|-------|----------------------|--------|------|-------|----------|-------|--------|------------------|--------|------|--------|-------------|----------|-------------|-------------|------|------------|------------|
|                       |       | Lint %               |        | Boll | Seed  | Seed per | Bolls | 14-Oct | SR               | Height | Mic  | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf | Wilt 6-Sep | Def 26-Sep |
|                       |       | Picked               | Pulled | Size | Index | Boll     |       |        |                  |        |      |        |             |          |             |             |      | waller     |            |
| FM 2202GL             | 1037  | 38.4                 | 31.0   | 5.6  | 10.1  | 27.5     | 70    | 5      | 27               | 4.2    | 1.15 | 83.7   | 33.3        | 6.8      | 31-1        | 4           | 6.9  | 29.5       | l-t        |
| FM 2498GLT            | 1022  | 37.3                 | 29.3   | 6.0  | 11.0  | 28.1     | 49    | 6      | 29               | 4.8    | 1.21 | 83.4   | 31.2        | 6.0      | 21-1        | 2           | 1.0  | 26.6       | n-u        |
| BSD 224               | 992   | 34.5                 | 27.6   | 5.8  | 11.0  | 30.5     | 66    | 5      | 27               | 4.0    | 1.18 | 83.0   | 32.9        | 6.0      | 21-1,21-2   | 3           | 3.2  | 37.4       | h-o        |
| DP 2123 B3XF          | 992   | 34.7                 | 27.5   | 5.5  | 10.2  | 27.9     | 80    | 5      | 29               | 4.3    | 1.17 | 82.5   | 31.0        | 6.0      | 21-1,31-1   | 3           | 3.4  | 40.7       | f-1        |
| PX1140B373-04W3FE     | 991   | 33.9                 | 27.8   | 5.1  | 9.7   | 28.6     | 44    | 6      | 27               | 4.1    | 1.19 | 83.7   | 32.1        | 7.8      | 21-1        | 3           | 2.3  | 18.6       | t-w        |
| PX1130B333-04W3FE     | 989   | 37.0                 | 30.0   | 4.8  | 9.8   | 24.3     | 54    | 6      | 24               | 4.3    | 1.19 | 83.7   | 33.7        | 6.6      | 21-1,21-2   | 3           | 0.8  | 13.4       | vw         |
| PX1130B336-04W3FE     | 973   | 35.2                 | 28.4   | 5.0  | 9.7   | 25.6     | 54    | 6      | 25               | 4.2    | 1.19 | 83.3   | 32.0        | 7.0      | 11-2,21-1   | 3           | 0.6  | 20.5       | s-w        |
| PX1122A214-04W3FE     | 969   | 38.5                 | 29.4   | 5.0  | 10.2  | 24.4     | 86    | 6      | 23               | 4.1    | 1.13 | 82.2   | 32.3        | 6.8      | 21-2        | 2           | 3.0  | 39.4       | g-m        |
| PX1122A215-04W3FE     | 953   | 36.0                 | 29.6   | 5.6  | 11.0  | 26.5     | 79    | 7      | 26               | 4.3    | 1.20 | 82.9   | 32.5        | 6.7      | 21-1,21-2   | 2           | 2.5  | 34.5       | j-r        |
| PHY 394 W3FE          | 946   | 35.1                 | 28.2   | 5.4  | 10.9  | 26.2     | 59    | 6      | 25               | 4.1    | 1.24 | 82.2   | 31.1        | 6.2      | 321-1       | 3           | 0.3  | 14.2       | uvw        |
| PX1126B238-04W3FE     | 937   | 36.4                 | 28.5   | 4.9  | 10.4  | 24.5     | 69    | 6      | 25               | 4.7    | 1.16 | 83.8   | 33.1        | 5.6      | 21-1,31-1   | 3           | 2.3  | 27.1       | m-t        |
| ExCeed 6546           | 935   | 36.7                 | 29.8   | 5.3  | 9.9   | 25.3     | 56    | 5      | 31               | 4.5    | 1.21 | 82.3   | 31.8        | 6.7      | 21-1,31-1   | 3           | 1.0  | 32.8       | j-s        |
| PX1126B226-04W3FE     | 931   | 35.1                 | 29.1   | 5.6  | 9.6   | 30.6     | 60    | 7      | 26               | 4.2    | 1.19 | 83.9   | 32.5        | 7.2      | 11-2,21-1   | 2           | 2.3  | 29.9       | l-t        |
| 18-16-3507V           | 922   | 37.6                 | 31.2   | 6.2  | 10.7  | 29.0     | 75    | 5      | 25               | 4.4    | 1.26 | 83.8   | 32.7        | 6.1      | 21-1        | 2           | 3.9  | 37.2       | h-p        |
| BX2396B3XF            | 920   | 40.1                 | 33.7   | 5.3  | 10.1  | 27.7     | 36    | 5      | 31               | 4.7    | 1.19 | 83.3   | 29.4        | 7.5      | 11-2,21-1   | 2           | 8.0  | 49.0       | d-h        |
| BSD 9X                | 911   | 33.8                 | 26.9   | 5.9  | 11.3  | 28.8     | 61    | 5      | 29               | 4.2    | 1.19 | 83.4   | 32.9        | 6.1      | 21-1        | 2           | 4.4  | 38.4       | h-n        |
| PX1150A434-04W3FE     | 906   | 33.6                 | 26.7   | 5.3  | 9.2   | 28.7     | 40    | 5      | 31               | 4.3    | 1.14 | 81.4   | 31.3        | 6.8      | 21-1,21-2   | 3           | 0.8  | 23.6       | q-w        |
| FM 2334GLT            | 898   | 38.6                 | 30.6   | 5.2  | 10.0  | 24.6     | 64    | 6      | 27               | 4.6    | 1.26 | 83.5   | 30.8        | 6.2      | 21-1        | 2           | 1.1  | 11.6       | w          |
| ExCeed 6494           | 894   | 32.9                 | 27.7   | 5.5  | 10.9  | 26.3     | 81    | 5      | 27               | 4.7    | 1.16 | 83.1   | 31.3        | 6.2      | 21-1,21-2   | 3           | 1.2  | 51.2       | c-g        |
| PX1150A435-04W3FE     | 886   | 36.0                 | 28.6   | 4.6  | 9.6   | 23.6     | 44    | 6      | 29               | 4.2    | 1.20 | 82.1   | 32.2        | 7.0      | 21-1,21-2   | 3           | 1.6  | 26.4       | n-u        |
| PX1150A431-04W3FE     | 884   | 33.7                 | 27.8   | 5.1  | 10.0  | 27.1     | 39    | 6      | 30               | 4.4    | 1.12 | 82.3   | 32.3        | 7.1      | 21-1,21-2   | 3           | 1.7  | 24.8       | o-v        |
| ExCeed 4498           | 877   | 36.5                 | 29.3   | 5.2  | 10.0  | 25.4     | 68    | 6      | 29               | 4.7    | 1.23 | 84.0   | 32.8        | 8.0      | 21-1,21-2   | 2           | 3.4  | 23.9       | q-w        |
| DP 2020 B3XF          | 876   | 36.5                 | 28.7   | 4.8  | 9.1   | 26.9     | 89    | 6      | 26               | 4.1    | 1.20 | 83.4   | 30.9        | 6.2      | 21-1        | 3           | 3.9  | 55.4       | b-e        |
| PX1150A437-04W3FE     | 876   | 34.9                 | 27.0   | 4.5  | 9.9   | 22.3     | 58    | 5      | 27               | 4.2    | 1.15 | 82.2   | 33.2        | 7.0      | 21-1        | 3           | 2.0  | 38.4       | h-n        |
| BX2394B3XF            | 874   | 37.2                 | 30.7   | 5.0  | 8.7   | 28.1     | 79    | 6      | 29               | 3.9    | 1.18 | 82.1   | 31.7        | 7.0      | 21-1        | 3           | 10.1 | 64.6       | ab         |
| XC 190518             | 874   | 34.6                 | 28.1   | 5.9  | 9.9   | 31.4     | 70    | 5      | 26               | 4.1    | 1.34 | 82.4   | 32.9        | 6.2      | 21-1        | 3           | 5.4  | 43.9       | e-j        |
| ST 4993B3XF           | 873   | 39.0                 | 31.5   | 4.9  | 9.1   | 25.7     | 90    | 5      | 26               | 4.6    | 1.17 | 83.6   | 31.8        | 7.3      | 21-1,21-2   | 2           | 8.8  | 68.2       | a          |
| PX1140A385-04W3FE     | 872   | 37.4                 | 30.6   | 4.7  | 10.0  | 24.5     | 51    | 6      | 26               | 4.1    | 1.18 | 83.7   | 32.3        | 7.6      | 21-2,31-1   | 3           | 2.5  | 30.4       | j-t        |
| PHY 350 W3FE          | 870   | 34.0                 | 27.6   | 6.0  | 11.6  | 27.9     | 68    | 6      | 27               | 4.4    | 1.18 | 82.6   | 31.2        | 6.7      | 21-1        | 2           | 0.9  | 24.6       | p-v        |
| DP 2022 B3XF          | 865   | 31.5                 | 26.0   | 5.5  | 11.9  | 26.1     | 76    | 5      | 28               | 4.0    | 1.18 | 83.0   | 30.8        | 5.8      | 21-2,31-1   | 3           | 8.3  | 35.3       | j-q        |
| DP 1612 B2XF          | 864   | 33.0                 | 26.3   | 5.1  | 10.1  | 26.6     | 76    | 5      | 26               | 4.0    | 1.23 | 83.0   | 32.3        | 7.5      | 31-1        | 4           | 5.0  | 56.8       | a-d        |
| PX1125B234-04W3FE     | 856   | 33.8                 | 27.2   | 5.3  | 10.8  | 27.0     | 64    | 6      | 26               | 4.6    | 1.20 | 82.5   | 32.4        | 6.4      | 21-1,31-1   | 4           | 2.3  | 35.7       | i-q        |
| XC 190519             | 855   | 33.1                 | 27.0   | 5.5  | 10.2  | 29.1     | 84    | 6      | 29               | 4.4    | 1.38 | 83.0   | 34.9        | 5.8      | 21-2        | 3           | 4.4  | 47.9       | d-i        |
| BSD Ton Buster Magnum | 835   | 32.8                 | 26.4   | 5.6  | 9.3   | 34.3     | 80    | 5      | 26               | 4.3    | 1.15 | 82.2   | 29.5        | 6.1      | 21-2        | 2           | 11.1 | 64.1       | ab         |
| ExCeed 4447           | 828   | 36.8                 | 30.2   | 5.4  | 10.0  | 26.2     | 91    | 5      | 26               | 4.8    | 1.19 | 83.4   | 31.0        | 6.9      | 21-1,21-2   | 2           | 7.7  | 64.9       | ab         |
| PHY 250 W3FE          | 825   | 34.4                 | 28.0   | 6.0  | 11.7  | 28.5     | 75    | 7      | 24               | 4.4    | 1.21 | 83.1   | 32.1        | 5.8      | 21-1,21-2   | 2           | 3.7  | 22.5       | r-w        |
| PHY 210 W3FE          | 817   | 33.8                 | 26.0   | 5.1  | 10.6  | 25.2     | 88    | 7      | 25               | 4.2    | 1.18 | 83.0   | 32.8        | 6.2      | 21-2,31-1   | 3           | 4.2  | 27.7       | m-t        |
| PX1150A450-04W3FE     | 814   | 36.1                 | 29.3   | 5.7  | 9.5   | 29.3     | 25    | 5      | 32               | 4.4    | 1.16 | 83.3   | 31.9        | 6.8      | 21-1        | 2           | 1.7  | 35.7       | i-q        |
| PX1124B236-04W3FE     | 806   | 31.9                 | 25.4   | 6.1  | 11.3  | 29.9     | 30    | 6      | 31               | 4.5    | 1.22 | 83.8   | 33.5        | 6.9      | 21-1        | 4           | 0.7  | 18.6       | t-w        |
| PHY 205 W3FE          | 804   | 33.5                 | 27.7   | 5.8  | 10.8  | 28.7     | 88    | 7      | 23               | 4.6    | 1.14 | 82.5   | 33.1        | 6.3      | 21-1,21-2   | 3           | 4.3  | 28.7       | l-t        |
| PHY 415 W3FE          | 796   | 34.5                 | 27.8   | 5.0  | 11.0  | 24.8     | 41    | 5      | 28               | 4.3    | 1.23 | 83.1   | 32.1        | 6.6      | 21-2,31-1   | 3           | 5.3  | 43.0       | e-k        |
| PHY 332 W3FE          | 795   | 34.6                 | 27.6   | 5.2  | 10.8  | 25.4     | 39    | 5      | 28               | 4.5    | 1.21 | 83.2   | 31.5        | 6.4      | 21-1,21-2   | 3           | 0.3  | 20.7       | s-w        |
| BSD Ton Buster Elite  | 787   | 31.8                 | 26.4   | 4.9  | 10.3  | 26.9     | 90    | 5      | 25               | 4.0    | 1.13 | 81.5   | 30.1        | 7.0      | 21-1,21-2   | 2           | 11.2 | 62.6       | abc        |
| GS 701                | 779   | 25.7                 | 21.8   | 5.3  | 13.7  | 25.6     | 31    | 3      | 37               | 3.6    | 1.43 | 84.3   | 37.4        | 6.2      | 22-2        | 3           | 2.8  | 20.9       | s-w        |

**Table 9. cont.**

| Designation  | Yield | Agronomic Properties |        |           |            |               | % Open |        |     | Fiber Properties |      |        |             |          |             | Vert        |        |            |            |
|--------------|-------|----------------------|--------|-----------|------------|---------------|--------|--------|-----|------------------|------|--------|-------------|----------|-------------|-------------|--------|------------|------------|
|              |       | Picked               | Pulled | Boll Size | Seed Index | Seed per Boll | Bolls  | 14-Oct | SR  | Height           | Mic  | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf   | Wilt 6-Sep | Def 26-Sep |
| ST 4595B3XF  | 773   | 36.4                 | 29.6   | 4.8       | 9.3        | 23.0          | 78     | 5      | 25  | 4.3              | 1.20 | 82.2   | 29.9        | 7.1      | 21-2        | 3           | 6.4    | 56.8       | a-d        |
| BX2398B3XF   | 760   | 36.1                 | 29.6   | 5.4       | 10.0       | 29.3          | 41     | 5      | 31  | 4.7              | 1.22 | 83.8   | 28.7        | 7.3      | 11-2        | 1           | 3.1    | 59.1       | a-d        |
| ExCeed 4344  | 745   | 31.1                 | 25.4   | 5.9       | 12.0       | 28.1          | 90     | 4      | 26  | 4.5              | 1.18 | 83.6   | 32.5        | 7.1      | 21-2        | 4           | 2.8    | 52.8       | b-f        |
| FM 1730GLTP  | 740   | 35.7                 | 28.8   | 5.1       | 9.6        | 25.8          | 95     | 6      | 23  | 4.4              | 1.20 | 82.5   | 33.0        | 6.2      | 21-1,21-2   | 3           | 9.4    | 55.0       | b-e        |
| GS 1432      | 738   | 26.2                 | 22.4   | 5.8       | 13.4       | 27.3          | 43     | 4      | 37  | 4.1              | 1.38 | 83.6   | 38.4        | 6.2      | 22-2,32-1   | 3           | 1.5    | 22.4       | r-w        |
| BSD 4X       | 715   | 32.6                 | 27.0   | 6.1       | 11.9       | 29.9          | 88     | 7      | 26  | 3.8              | 1.18 | 81.2   | 30.9        | 5.9      | 21-1        | 3           | 7.6    | 42.8       | e-k        |
| DP 2012 B3XF | 715   | 35.2                 | 28.4   | 4.6       | 9.1        | 26.8          | 86     | 5      | 28  | 4.1              | 1.19 | 82.6   | 30.8        | 6.0      | 21-1        | 2           | 2.6    | 49.3       | d-h        |
| BX2392B3XF   | 643   | 36.6                 | 28.6   | 5.3       | 9.9        | 26.7          | 78     | 5      | 27  | 4.3              | 1.16 | 83.4   | 29.7        | 6.6      | 21-1        | 2           | 6.7    | 62.8       | abc        |
| Mean         | 867   | 34.8                 | 28.1   | 5.3       | 10.4       | 27.1          | 66     | 5      | 27  | 4.3              | 1.20 | 83.0   | 32.1        | 6.6      |             | 3           | 0.0001 | 0.0001     |            |
| c.v.%        | 9.9   | 2.0                  | 2.4    | 5.7       | 4.0        | 7.6           | 15.3   | 11.5   | 6.9 | 4.4              | 1.8  | 0.8    | 2.6         | 2.9      |             | 22.5        | 4.6    | 12.6       |            |
| LSD 0.05     | 100   | 1.1                  | 1.2    | 0.5       | 0.7        | 3.4           | 12     | 1      | 2   | 0.3              | 0.04 | 1.2    | 1.4         | 0.3      |             | 1           |        |            |            |

**Table 10. Yield, agronomic and fiber quality data from the irrigated regional high quality cotton performance trial at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation | Agronomic Properties |        |        |       |           | % Open Bolls |               |        | Fiber Properties |        |      |        |             |          |             |             |      |
|-------------|----------------------|--------|--------|-------|-----------|--------------|---------------|--------|------------------|--------|------|--------|-------------|----------|-------------|-------------|------|
|             | Yield                | Picked | Pulled | Lint% | Boll Size | Seed Index   | Seed per Boll | 26-Sep | SR               | Height | Mic  | Length | Unif-ormity | Strength | Elong-ation | Color Grade | Leaf |
| PHY 332W3FE | 931                  | 41.4   | 33.0   | 4.9   | 10.1      | 20.8         | 68            | 5      | 31               | 5.4    | 1.17 | 82.5   | 31.2        | 7.1      | 1-3,21-     | 2           |      |
| DP 2020B3XF | 631                  | 40.5   | 32.9   | 4.2   | 8.5       | 21.3         | 76            | 6      | 29               | 5.3    | 1.15 | 81.3   | 29.9        | 6.2      | 1-2,21-     | 2           |      |
| PHY 400W3FE | 619                  | 42.4   | 33.7   | 4.4   | 9.4       | 20.6         | 80            | 5      | 25               | 5.3    | 1.14 | 81.5   | 32.2        | 6.5      | 1-1,21-     | 3           |      |
| DP 1646B2XF | 535                  | 42.8   | 34.3   | 4.4   | 8.3       | 23.4         | 79            | 6      | 30               | 5.3    | 1.17 | 81.3   | 30.2        | 7.5      | 1-2,21-     | 3           |      |
| DP 2055B3XF | 513                  | 43.0   | 35.1   | 3.9   | 7.4       | 20.8         | 65            | 5      | 31               | 5.1    | 1.16 | 80.9   | 30.6        | 7.2      | 1-1,31-     | 2           |      |
| ARK 1405-18 | 509                  | 36.3   | 29.3   | 5.1   | 10.9      | 23.4         | 83            | 4      | 33               | 5.5    | 1.20 | 82.8   | 33.4        | 7.2      | 21-1        | 2           |      |
| FM 1730GLTP | 507                  | 41.6   | 33.8   | 4.4   | 9.2       | 18.5         | 89            | 6      | 27               | 5.5    | 1.12 | 82.1   | 33.0        | 5.9      | 1-1,21-     | 3           |      |
| ARK 1408-53 | 469                  | 37.7   | 31.2   | 5.6   | 10.8      | 24.4         | 79            | 5      | 30               | 5.4    | 1.21 | 83.1   | 32.5        | 5.9      | 1-2,31-     | 3           |      |
| DP 2012B3XF | 466                  | 41.5   | 33.0   | 3.9   | 8.2       | 18.7         | 83            | 6      | 28               | 5.3    | 1.12 | 81.4   | 29.6        | 6.0      | 21-1        | 3           |      |
| ST 4990B3XF | 454                  | 41.1   | 33.8   | 4.4   | 8.9       | 21.6         | 80            | 4      | 27               | 5.3    | 1.17 | 82.6   | 29.6        | 7.0      | 21-1        | 1           |      |
| PHY 764WRF* | 379                  | 36.9   | 29.4   | 4.4   | 10.4      | 20.9         | 76            | 4      | 29               | 4.8    | 1.14 | 82.3   | 34.5        | 7.0      | 21-1        | 2           |      |
| Mean        | 547                  | 40.4   | 32.7   | 4.5   | 9.3       | 21.3         | 78            | 5      | 29               | 5.3    | 1.16 | 82.0   | 31.5        | 6.6      |             | 2           |      |
| c.v.%       | 17.2                 | 1.5    | 2.0    | 5.3   | 2.6       | 5.8          | 12.5          | 11     | 7.3              | 3.0    | 1.3  | 0.9    | 1.8         | 2.6      |             | 55.9        |      |
| LSD 0.05    | 113                  | 1.1    | 1.2    | 0.4   | 0.4       | 2.2          | 12            | 1      | 3                | 0.3    | 0.03 | 1.3    | 1.0         | 0.3      |             | 2           |      |

**Table 11. Results of the irrigated bacterial blight cotton variety screening at Texas A&M AgriLife Research Lubbock, 2022.**

| Designation                       | %Blight waller(0.05) |
|-----------------------------------|----------------------|
| PX1124B236-04W3FE                 | 0.00 i               |
| PX1125B234-04W3FE                 | 0.00 i               |
| PX1126B226-04W3FE                 | 0.00 i               |
| PX1126B238-04W3FE                 | 0.00 i               |
| PX1130B333-04W3FE                 | 0.00 i               |
| PX1130B336-04W3FE                 | 0.00 i               |
| PX1140B373-04W3FE                 | 0.00 i               |
| PX1150B431-04W3FE                 | 0.00 i               |
| PX1150B434-04W3FE                 | 0.00 i               |
| PX1150B435-04W3FE                 | 0.00 i               |
| PX1150B437-04W3FE                 | 0.00 i               |
| NG 4098B3XF(Check)                | 1.25 i               |
| DP 2349NR B2XF                    | 2.50 hi              |
| ExCeed 4498                       | 2.50 hi              |
| 18-3-320BB                        | 3.75 ghi             |
| 18-3-505BB                        | 3.75 ghi             |
| 18-3-620BB                        | 5.00 f-i             |
| XC190519                          | 5.00 f-i             |
| ExCeed 4447                       | 6.25 e-i             |
| 18-3-605BB                        | 10.00 e-h            |
| 20R745NRB3XF                      | 10.00 e-h            |
| 18-3-206BB                        | 11.25 d-g            |
| Brownfield Seed and Delinting 224 | 13.75 de             |
| 18-3-307BB                        | 18.75 cd             |
| DP 1646B2XF(check)                | 20.00 cd             |
| XC190518                          | 22.50 c              |
| BSD 9X                            | 41.25 b              |
| ExCeed 4344                       | 42.50 b              |
| DP 1646 B2XF(check)               | 45.00 b              |
| ExCeed 6546                       | 45.00 b              |
| BSD 4X                            | 96.25 a              |
| BSD Ton Buster Elite              | 96.25 a              |
| BSD Ton Buster Magnum             | 97.50 a              |
| BX 2394B3XF                       | 98.75 a              |
| DP 2143NR B3XF(check)             | 100.00 a             |
| BX 2392B3XF                       | 100.00 a             |
| BX 2396B3XF                       | 100.00 a             |
| BX 2398B3XF                       | 100.00 a             |
| ExCeed 6494                       | 100.00 a             |
| Prob>F                            | 0.0001               |
| MSD (0.05)                        | 8.58                 |

Table 12. Variety index for the cotton performance trials conducted by Texas A&m AgriLife Research Lubbock 2022.

| Designation           | Page: | Uniform<br>OVT<br>7-15 | Location<br>Summary<br>16 | Late<br>Planted<br>18 | New<br>Varieties<br>20 | Verticillium<br>Wilt<br>22 | Regional<br>High Quality<br>24 | Bacterial<br>Blight<br>25 |
|-----------------------|-------|------------------------|---------------------------|-----------------------|------------------------|----------------------------|--------------------------------|---------------------------|
| 08-16-3507V           |       |                        |                           |                       |                        | X                          |                                |                           |
| 18-3-206BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 18-3-307BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 18-3-320BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 18-3-505BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 18-3-605BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 18-3-620BB            |       |                        |                           |                       |                        |                            |                                | X                         |
| 20R745NRB3XF          |       |                        |                           |                       | X                      |                            |                                | X                         |
| ARK 1405-18           |       |                        |                           |                       |                        |                            | X                              |                           |
| ARK 1408-53           |       |                        |                           |                       |                        |                            | X                              |                           |
| BSD 224               |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| BSD 4X                |       | X                      | X                         | X                     | X                      | X                          |                                | X                         |
| BSD 9X                |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| BSD Ton Buster Elite  |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| BSD Ton Buster Magnum |       | X                      | X                         | X                     | X                      | X                          |                                | X                         |
| BX 2392B3XF           |       |                        |                           |                       | X                      | X                          |                                | X                         |
| BX 2394B3XF           |       |                        |                           |                       | X                      | X                          |                                | X                         |
| BX 2396B3XF           |       |                        |                           |                       | X                      | X                          |                                | X                         |
| BX 2398B3XF           |       |                        |                           |                       | X                      | X                          |                                | X                         |
| DG 3520 B3XF          |       | X                      | X                         |                       |                        |                            |                                |                           |
| DP 1612 B2XF          |       |                        |                           |                       |                        | X                          |                                |                           |
| DP 1646 B2XF          |       | X                      | X                         |                       |                        |                            | X                              | X                         |
| DP 1820 B3XF          |       | X                      | X                         | X                     |                        |                            |                                |                           |
| DP 2012 B3XF          |       | X                      | X                         | X                     |                        | X                          | X                              |                           |
| DP 2020 B3XF          |       | X                      | X                         |                       |                        | X                          | X                              |                           |
| DP 2022 B3XF          |       |                        |                           |                       |                        | X                          |                                |                           |
| DP 2044 B3XF          |       | X                      | X                         |                       |                        |                            |                                |                           |
| DP 2055B3XF           |       |                        |                           |                       |                        |                            | X                              |                           |
| DP 2123 B3XF          |       | X                      | X                         | X                     |                        |                            |                                |                           |
| DP 2141NR B3XF        |       | X                      | X                         |                       |                        |                            |                                |                           |
| DP 2143NR B3XF        |       | X                      | X                         |                       |                        |                            |                                | X                         |
| DP 2349NR B2XF        |       |                        |                           |                       | X                      |                            |                                | X                         |
| ExCeed 4344           |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| ExCeed 4447           |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| ExCeed 4498           |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| ExCeed 6494           |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| ExCeed 6546           |       | X                      | X                         | X                     |                        | X                          |                                | X                         |
| FM 1621GL             |       | X                      | X                         | X                     |                        |                            |                                |                           |
| FM 1730GLTP           |       | X                      | X                         | X                     |                        | X                          | X                              |                           |
| FM 1830GLT            |       | X                      | X                         |                       |                        |                            |                                |                           |
| FM 2202GL             |       |                        |                           |                       |                        | X                          |                                |                           |
| FM 2334GLT            |       |                        |                           |                       |                        | X                          |                                |                           |
| FM 2398GLTP           |       | X                      | X                         |                       |                        |                            |                                |                           |
| FM 2484B2XF           |       | X                      | X                         |                       |                        |                            |                                |                           |
| FM 2498GLT            |       |                        |                           |                       |                        | X                          |                                |                           |
| FM 958                |       | X                      | X                         |                       |                        |                            |                                |                           |
| GS 1432               |       |                        |                           |                       |                        | X                          |                                |                           |
| GS 701                |       |                        |                           |                       |                        | X                          |                                |                           |
| NG 3500 XF            |       | X                      | X                         |                       |                        |                            |                                |                           |
| NG 3930 B3XF          |       | X                      | X                         |                       |                        |                            |                                |                           |
| NG 4098 B3XF          |       | X                      | X                         |                       |                        |                            |                                | X                         |
| NG 4936 B3XF          |       | X                      | X                         |                       |                        |                            |                                |                           |

Table 12. cont.

| Designation        | Page: | Uniform OVT<br>7-15 | Location Summary<br>16 | Late Planted<br>18 | New Varieties<br>20 | Verticillium Wilt<br>22 | Regional High Quality<br>24 | Bacterial Blight<br>25 |
|--------------------|-------|---------------------|------------------------|--------------------|---------------------|-------------------------|-----------------------------|------------------------|
| PHY 205 W3FE       |       | X                   | X                      | X                  | X                   | X                       |                             |                        |
| PHY 210 W3FE       |       | X                   | X                      | X                  |                     | X                       |                             |                        |
| PHY 250 W3FE       |       | X                   | X                      | X                  |                     | X                       |                             |                        |
| PHY 332 W3FE       |       | X                   | X                      | X                  | X                   | X                       | X                           |                        |
| PHY 350 W3FE       |       | X                   | X                      | X                  |                     | X                       |                             |                        |
| PHY 394 W3FE       |       |                     |                        |                    |                     | X                       |                             |                        |
| PHY 400 W3FE       |       | X                   | X                      |                    |                     |                         |                             |                        |
| PHY 400 W3FE       |       |                     |                        | X                  |                     |                         | X                           |                        |
| PHY 411 W3FE       |       | X                   | X                      | X                  | X                   |                         |                             |                        |
| PHY 415 W3FE       |       | X                   | X                      | X                  | X                   | X                       |                             |                        |
| PHY 443 W3FE       |       | X                   | X                      | X                  |                     |                         |                             |                        |
| PHY 480 W3FE       |       | X                   | X                      |                    |                     |                         |                             |                        |
| PHY 545 W3FE       |       | X                   | X                      |                    |                     |                         |                             |                        |
| PHY 764 WRF        |       | X                   | X                      |                    |                     |                         | X                           |                        |
| PX 1122A213-04W3FE |       | X                   | X                      |                    |                     |                         |                             |                        |
| PX 1122A214-04W3FE |       | X                   | X                      |                    |                     |                         |                             |                        |
| PX 1122A215-04W3FE |       | X                   | X                      |                    |                     |                         |                             |                        |
| PX1122A213-04W3FE  |       |                     |                        | X                  | X                   |                         |                             |                        |
| PX1122A214-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             |                        |
| PX1122A215-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             |                        |
| PX1124B236-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1125B234-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1126B226-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1126B238-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1130B333-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1130B336-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1140A385-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             |                        |
| PX1140B373-04W3FE  |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| PX1150A431-04W3FE  |       |                     |                        |                    |                     | X                       |                             |                        |
| PX1150A434-04W3FE  |       |                     |                        |                    |                     | X                       |                             |                        |
| PX1150A435-04W3FE  |       |                     |                        |                    |                     | X                       |                             |                        |
| PX1150A437-04W3FE  |       |                     |                        |                    |                     | X                       |                             |                        |
| PX1150A450-04W3FE  |       |                     |                        |                    | X                   | X                       |                             |                        |
| PX1150B431-04W3FE  |       |                     |                        |                    | X                   |                         |                             | X                      |
| PX1150B434-04W3FE  |       |                     |                        |                    | X                   |                         |                             | X                      |
| PX1150B435-04W3FE  |       |                     |                        |                    | X                   |                         |                             | X                      |
| PX1150B437-04W3FE  |       |                     |                        |                    | X                   |                         |                             | X                      |
| SSG UA 114         |       | X                   | X                      |                    |                     |                         |                             |                        |
| SSG UA 222         |       | X                   | X                      |                    |                     |                         |                             |                        |
| SSG UA 222 Saberex |       | X                   | X                      |                    |                     |                         |                             |                        |
| SSG UA 248         |       | X                   | X                      |                    |                     |                         |                             |                        |
| ST 4550GLTP        |       | X                   | X                      |                    |                     |                         |                             |                        |
| ST 4595B3XF        |       |                     |                        | X                  |                     | X                       |                             |                        |
| ST 4990B3XF        |       |                     |                        |                    |                     |                         | X                           |                        |
| ST 4993B3XF        |       | X                   | X                      |                    |                     | X                       |                             |                        |
| ST 5600B2XF        |       | X                   | X                      |                    |                     |                         |                             |                        |
| ST 5707B2XF        |       | X                   | X                      |                    |                     |                         |                             |                        |
| UA 48              |       | X                   | X                      |                    |                     |                         |                             |                        |
| XC190518           |       |                     |                        | X                  | X                   | X                       |                             | X                      |
| XC190519           |       |                     |                        | X                  | X                   | X                       |                             | X                      |