

Table 35. Results of the irrigated nematode cotton variety test at the AG-CARES Farm, Lamesa, TX, 2002.

| Designation          | Source    | Yield | Agronomic Properties |      |        |        |           |            |            |               | % Open        |                  |           |
|----------------------|-----------|-------|----------------------|------|--------|--------|-----------|------------|------------|---------------|---------------|------------------|-----------|
|                      |           |       | % Turnout            |      | % Lint |        | Boll Size | Seed Index | Lint Index | Seed Per Boll | Bolls 9-16-02 | Storm Resistance | Nematodes |
|                      |           |       | Lint                 | Seed | Picked | Pulled |           |            |            |               |               |                  |           |
| Stoneville 5599 BR   | 01-44-403 | 1403  | 32.0                 | 44.3 | 42.9   | 34.0   | 5.3       | 8.8        | 6.9        | 32.5          | 53            | 2.3              | 2220      |
| TW 1318xTW 1320      |           | 1237  | 30.9                 | 44.1 | 39.0   | 29.5   | 4.6       | 9.6        | 6.5        | 27.8          | 67            | 2.7              | 1300      |
| Paymaster 2167 RR    |           | 1236  | 30.2                 | 45.7 | 40.8   | 31.6   | 4.7       | 8.4        | 6.1        | 31.6          | 79            | 2.7              | 13770     |
| Deltapine 458 B/RR   |           | 1216  | 31.7                 | 45.4 | 39.7   | 30.8   | 4.0       | 7.7        | 5.3        | 29.8          | 51            | 2.3              | 16140     |
| Stoneville 5303 R    |           | 1180  | 31.9                 | 44.5 | 41.7   | 32.0   | 5.0       | 8.8        | 6.6        | 31.5          | 67            | 2.3              | 43080     |
| PhytoGen 98M-3196    |           | 1158  | 30.8                 | 42.3 | 41.9   | 32.0   | 4.3       | 8.6        | 6.6        | 27.2          | 72            | 2.0              | 7740      |
| Deltapine 555 BG/RR  |           | 1123  | 32.0                 | 41.7 | 43.2   | 33.6   | 3.9       | 6.9        | 5.5        | 30.9          | 57            | 2.1              | 17880     |
| Stoneville 457       |           | 1115  | 30.2                 | 43.3 | 39.4   | 29.7   | 4.2       | 8.7        | 6.1        | 27.4          | 74            | 2.1              | 6330      |
| All-Tex Top-Pick     |           | 1104  | 27.3                 | 43.6 | 39.2   | 28.6   | 4.7       | 9.0        | 6.1        | 30.5          | 62            | 2.3              | 25800     |
| Suregrow 215 BG/RR   |           | 1085  | 30.3                 | 43.4 | 39.7   | 30.3   | 4.5       | 8.8        | 6.1        | 28.9          | 61            | 2.2              | 18000     |
| Stoneville LA 887    | Check     | 1042  | 29.9                 | 40.5 | 41.0   | 30.6   | 5.2       | 9.7        | 7.2        | 29.4          | 52            | 2.2              | 1165      |
| All-Tex Atlas        | Check     | 1004  | 27.9                 | 46.8 | 36.2   | 27.1   | 4.6       | 10.0       | 6.0        | 28.2          | 75            | 2.8              | 7170      |
| Syngenta 2723c       |           | 1004  | 30.1                 | 42.7 | 39.9   | 29.8   | 4.6       | 10.2       | 7.1        | 25.8          | 86            | 2.7              | 1240      |
| Deltapine 5690 RR    |           | 996   | 30.2                 | 47.1 | 37.8   | 30.2   | 4.2       | 8.5        | 5.4        | 29.0          | 75            | 2.0              | 11865     |
| Paymaster 2266 RR    |           | 978   | 26.9                 | 45.4 | 37.0   | 28.0   | 5.2       | 10.2       | 6.4        | 29.9          | 86            | 2.7              | 23130     |
| FiberMax 5024 BXN    |           | 974   | 26.5                 | 45.1 | 38.6   | 28.2   | 3.9       | 8.6        | 5.7        | 26.8          | 75            | 3.0              | 11280     |
| Syngenta 00516       |           | 965   | 27.6                 | 43.5 | 39.8   | 30.3   | 4.4       | 9.8        | 6.8        | 25.6          | 61            | 2.4              | 11070     |
| Paymaster 2280 BG/RR |           | 935   | 28.9                 | 47.7 | 36.5   | 28.2   | 4.5       | 8.6        | 5.2        | 31.6          | 81            | 2.7              | 9900      |
| Paymaster 2344 BG/RR |           | 916   | 27.2                 | 47.3 | 35.2   | 26.8   | 4.7       | 10.5       | 6.2        | 26.4          | 77            | 2.8              | 8310      |
| All-Tex Atlas RR     |           | 901   | 28.6                 | 47.1 | 37.4   | 28.3   | 4.3       | 9.3        | 5.8        | 27.5          | 81            | 2.8              | 11340     |
| Holland x TW 1318    | 01-44-404 | 897   | 28.7                 | 45.8 | 37.3   | 28.4   | 4.9       | 9.4        | 5.9        | 30.9          | 81            | 3.0              | 960       |
| Paymaster 2326 RR    |           | 890   | 27.8                 | 47.3 | 37.5   | 28.6   | 4.3       | 8.7        | 5.5        | 29.1          | 80            | 2.8              | 3060      |
| All-Tex Excess       |           | 868   | 27.7                 | 43.8 | 37.8   | 29.2   | 4.8       | 9.7        | 6.2        | 29.1          | 88            | 2.7              | 13890     |
| All-Tex 211          |           | 761   | 30.2                 | 45.9 | 38.6   | 29.7   | 4.6       | 8.9        | 5.8        | 30.5          | 79            | 2.4              | 9150      |
| Mean                 |           | 1041  | 29.4                 | 44.7 | 39.1   | 29.8   | 4.5       | 9.0        | 6.1        | 29.1          | 72            | 2.5              |           |
| C.V.%                |           | 11.8  | 3.5                  | 2.3  | 2.5    | 3.3    | 6.7       | 3.6        | 6.4        | 4.6           | 13.3          | 8.9              |           |
| LSD 0.05             |           | 145   | 1.8                  | 1.8  | 1.6    | 1.7    | 0.5       | 0.6        | 0.7        | 2.6           | 11            | 0.3              |           |

Nematode Counts were obtained September 6th 2002



Table 35A. Results of the irrigated nematode variety test at the AG-CARES Farm, Lamesa, TX, 2002.

| Designation          | Source    | Micro-<br>naire | Length | Uni-<br>formity | Strength | Elon-<br>gation | Leaf<br>Index | Rd   | +b  | Color<br>Grade <sup>1/</sup> | Loan<br>Value | Gross Loan Value per Acre |      |
|----------------------|-----------|-----------------|--------|-----------------|----------|-----------------|---------------|------|-----|------------------------------|---------------|---------------------------|------|
|                      |           |                 |        |                 |          |                 |               |      |     |                              |               | \$                        | Rank |
| Stoneville 5599 BR   | 01-44-403 | 4.6             | 1.06   | 80.8            | 28.7     | 5.0             | 2             | 77.7 | 8.4 | 31-1                         | 0.5158        | 724.57                    | 1    |
| TW 1318xTW 1320      |           | 4.5             | 0.99   | 80.0            | 25.0     | 5.2             | 2             | 77.9 | 8.1 | 31-1                         | 0.4798        | 583.87                    | 4    |
| Paymaster 2167 RR    |           | 4.6             | 0.98   | 81.1            | 27.0     | 5.4             | 3             | 77.4 | 8.3 | 31-2                         | 0.4755        | 576.29                    | 5    |
| Deltapine 458 B/RR   |           | 4.6             | 1.06   | 82.0            | 29.1     | 6.4             | 2             | 80.9 | 7.5 | 21-2                         | 0.5150        | 644.82                    | 2    |
| Stoneville 5303 R    |           | 4.7             | 1.04   | 82.9            | 30.4     | 5.1             | 2             | 78.3 | 8.3 | 31-2                         | 0.5113        | 597.05                    | 3    |
| PhytoGen 98M-3196    |           | 4.4             | 1.05   | 81.9            | 28.4     | 6.4             | 2             | 77.6 | 8.9 | 21-2                         | 0.5168        | 524.73                    | 11   |
| Deltapine 555 BG/RR  |           | 4.2             | 1.02   | 80.1            | 27.0     | 4.5             | 2             | 80.6 | 7.1 | 31-2                         | 0.4908        | 479.95                    | 15   |
| Stoneville 457       |           | 4.4             | 1.04   | 82.1            | 28.9     | 7.9             | 2             | 76.9 | 8.3 | 31-2                         | 0.5165        | 534.97                    | 10   |
| All-Tex Top-Pick     |           | 4.5             | 1.11   | 83.0            | 28.3     | 6.0             | 1             | 80.4 | 8.2 | 21-2                         | 0.5440        | 564.75                    | 7    |
| Suregrow 215 BG/RR   |           | 4.7             | 1.02   | 81.8            | 25.7     | 6.6             | 2             | 77.0 | 9.2 | 21-2                         | 0.5025        | 545.72                    | 9    |
| Stoneville LA 887    | Check     | 4.8             | 1.07   | 82.3            | 29.4     | 5.7             | 3             | 76.3 | 8.7 | 31-2                         | 0.5328        | 571.49                    | 6    |
| All-Tex Atlas        | Check     | 4.6             | 1.02   | 82.0            | 30.0     | 6.0             | 3             | 77.5 | 7.8 | 31-2                         | 0.5068        | 548.01                    | 8    |
| Syngenta 2723c       |           | 4.0             | 1.02   | 82.2            | 26.5     | 5.1             | 2             | 77.2 | 8.9 | 31-1                         | 0.4913        | 499.59                    | 13   |
| Deltapine 5690 RR    |           | 4.2             | 1.06   | 81.8            | 29.9     | 5.1             | 2             | 80.9 | 7.8 | 21-2                         | 0.5213        | 478.59                    | 16   |
| Paymaster 2266 RR    |           | 4.3             | 1.00   | 82.2            | 28.6     | 7.0             | 3             | 76.6 | 7.9 | 31-2                         | 0.4743        | 461.95                    | 19   |
| FiberMax 5024 BXN    |           | 4.0             | 1.03   | 81.9            | 28.6     | 5.5             | 2             | 80.0 | 7.8 | 31-1                         | 0.5045        | 510.87                    | 12   |
| Syngenta 00516       |           | 4.1             | 1.07   | 81.5            | 28.9     | 6.5             | 2             | 75.0 | 8.0 | 31-2                         | 0.5275        | 482.48                    | 14   |
| Paymaster 2280 BG/RR |           | 4.3             | 1.05   | 81.9            | 29.0     | 5.6             | 3             | 76.9 | 8.0 | 31-2                         | 0.5165        | 462.59                    | 18   |
| Paymaster 2344 BG/RR |           | 4.6             | 1.03   | 82.5            | 28.9     | 6.3             | 2             | 77.0 | 7.1 | 31-2                         | 0.5040        | 468.15                    | 17   |
| All-Tex Atlas RR     |           | 4.4             | 1.01   | 82.2            | 27.9     | 6.0             | 2             | 78.0 | 8.0 | 31-1                         | 0.4905        | 411.58                    | 21   |
| Holland x TW 1318    | 01-44-404 | 4.6             | 0.96   | 80.4            | 25.2     | 5.9             | 2             | 75.1 | 9.1 | 31-4                         | 0.4618        | 384.38                    | 22   |
| Paymaster 2326 RR    |           | 4.2             | 1.02   | 82.1            | 29.6     | 6.4             | 3             | 77.2 | 7.8 | 41-1                         | 0.5040        | 444.62                    | 20   |
| All-Tex Excess       |           | 4.7             | 1.00   | 81.4            | 27.9     | 4.8             | 3             | 75.9 | 7.9 | 41-1                         | 0.4728        | 372.55                    | 24   |
| All-Tex 211          |           | 4.7             | 1.01   | 81.7            | 29.0     | 4.4             | 2             | 78.0 | 8.4 | 31-2                         | 0.4913        | 382.39                    | 23   |
| Mean                 |           | 4.4             | 1.03   | 81.7            | 28.2     | 5.8             | 2             | 77.7 | 8.1 |                              | 0.5030        | 510.70                    |      |
| C.V. %               |           | 6.7             | 0.8    | 0.9             | 2.6      | 7.5             | 33.8          | 1.4  | 4.2 |                              | 3.5           | 14.6                      |      |
| LSD 0.05             |           | 0.5             | 0.03   | 1.3             | 1.3      | 0.7             | 1             | 1.9  | 0.6 |                              | 0.0301        | 127.50                    |      |

<sup>1/</sup> Fiber quality determinations are made on samples from two reps. If the color grades from these two samples are identical, only one color grade is reported. If they are different, both are reported.