

Table 32. Results of the irrigated new varieties and strains test at the Texas Agricultural Experiment Station, Lubbock, TX, 2006.

| Designation | Yield | Agronomic Properties | | | | | | | | % Open | |
|--|-------|----------------------|------|--------|--------|------|-------|-------|----------|----------|------------|
| | | % Turnout | | % Lint | | Boll | Seed | Lint | Seed Per | Bolls | Storm |
| | | Lint | Seed | Picked | Pulled | Size | Index | Index | Boll | 09-25-06 | Resistance |
| Deltapine 455 BG/RR | 1356 | 34.9 | 47.2 | 43.2 | 33.8 | 4.3 | 8.2 | 6.6 | 27.9 | 78 | 2.6 |
| FiberMax 989 | 1344 | 30.7 | 43.8 | 40.2 | 29.9 | 5.0 | 9.9 | 7.0 | 28.5 | 73 | 2.8 |
| FiberMax 958 | 1337 | 33.2 | 47.0 | 42.3 | 31.0 | 4.9 | 9.7 | 7.4 | 27.5 | 80 | 3.0 |
| Downer Genetics X1374 | 1329 | 31.0 | 45.1 | 41.2 | 32.3 | 5.6 | 10.5 | 7.7 | 29.8 | 76 | 2.8 |
| Syngenta DX25105N | 1288 | 32.8 | 43.3 | 42.0 | 33.9 | 5.4 | 9.7 | 7.4 | 30.7 | 85 | 2.9 |
| Syngenta DX44708 | 1263 | 34.7 | 48.0 | 41.6 | 32.7 | 4.8 | 9.8 | 7.4 | 26.8 | 80 | 2.9 |
| Downer Genetics X1365 | 1248 | 32.6 | 47.5 | 39.9 | 28.5 | 4.7 | 9.6 | 6.8 | 27.3 | 88 | 2.8 |
| Downer Genetics X1459 | 1209 | 33.3 | 46.2 | 41.8 | 32.6 | 5.2 | 9.7 | 7.3 | 30.3 | 93 | 2.8 |
| Downer Genetics X1362 | 1202 | 33.5 | 47.8 | 40.2 | 30.9 | 5.4 | 10.2 | 7.2 | 30.1 | 86 | 3.0 |
| Syngenta DX34701-2 | 1198 | 33.7 | 46.3 | 41.7 | 31.0 | 4.6 | 9.1 | 7.6 | 25.9 | 84 | 2.8 |
| Syngenta DX34902-3 | 1197 | 29.4 | 45.8 | 38.7 | 28.6 | 4.7 | 10.2 | 6.8 | 27.0 | 73 | 2.7 |
| Downer Genetics X1353 | 1177 | 29.7 | 41.8 | 41.3 | 32.3 | 5.3 | 10.4 | 7.8 | 27.9 | 68 | 2.7 |
| Syngenta DX241203-16 | 1167 | 32.4 | 47.7 | 41.1 | 29.5 | 4.3 | 9.1 | 6.7 | 26.3 | 82 | 2.7 |
| Downer Genetics X1366 | 1140 | 27.6 | 45.3 | 38.5 | 30.2 | 5.2 | 9.9 | 6.5 | 30.7 | 82 | 2.7 |
| Deltapine X05H521 BR | 1105 | 31.6 | 42.5 | 42.4 | 35.0 | 5.3 | 8.2 | 6.5 | 34.8 | 42 | 3.0 |
| Downer Genetics X1471 | 1073 | 31.0 | 45.7 | 40.1 | 33.7 | 4.9 | 9.6 | 6.8 | 28.7 | 84 | 2.7 |
| Beltwide Cotton Genetics XBCG-1270 BII | 1053 | 30.1 | 47.0 | 39.1 | 31.6 | 4.7 | 8.9 | 6.0 | 30.3 | 81 | 2.7 |
| Downer Genetics X1264 | 1044 | 27.9 | 44.1 | 38.6 | 29.1 | 4.6 | 9.7 | 6.4 | 27.5 | 87 | 2.8 |
| All-Tex 65097 RF | 1023 | 28.3 | 40.7 | 39.5 | 27.9 | 3.9 | 8.3 | 6.0 | 25.0 | 91 | 2.8 |
| Syngenta DX441308 | 967 | 27.4 | 40.6 | 42.2 | 30.7 | 4.6 | 9.5 | 7.3 | 26.2 | 75 | 2.7 |
| Syngenta DX44902 | 965 | 27.4 | 44.9 | 41.5 | 29.2 | 3.9 | 9.2 | 6.9 | 23.3 | 88 | 2.7 |
| Dyna-Gro 06064 B2RF | 956 | 28.3 | 42.0 | 39.5 | 30.6 | 4.5 | 8.4 | 5.9 | 29.7 | 87 | 2.8 |
| All-Tex 65096 B2RF | 954 | 29.4 | 46.4 | 39.3 | 30.0 | 4.3 | 8.6 | 6.0 | 28.2 | 88 | 2.7 |
| Syngenta DX241203-9 | 943 | 30.3 | 45.4 | 40.3 | 32.5 | 4.6 | 9.2 | 6.6 | 28.3 | 87 | 2.7 |
| All-Tex 55039 RF | 893 | 26.5 | 45.2 | 36.2 | 27.0 | 4.8 | 10.5 | 6.3 | 27.1 | 88 | 2.9 |
| Mean | 1137 | 30.7 | 45.1 | 40.5 | 31.0 | 4.7 | 9.4 | 6.8 | 28.2 | 81 | 2.8 |
| C.V.% | 19.3 | 5.1 | 5.5 | 2.1 | 5.2 | 10.0 | 4.9 | 5.7 | 9.3 | 14.8 | 3.0 |
| LSD 0.05 | 259 | 2.7 | 4.2 | 1.4 | 2.8 | 0.8 | 0.8 | 0.7 | 4.5 | 14 | 0.1 |

Table 32A. Results of the irrigated new varieties and strains test at the Texas Agricultural Experiment Station, Lubbock, TX, 2006.

| Designation | Micro- | | Uni- | | Elon- | | Leaf | | Color | | Loan Value | Gross Loan Value per Acre | |
|--|--------|--------|---------|----------|--------|-------|------|-----|---------------------|--------|------------|---------------------------|--|
| | naire | Length | formity | Strength | gation | Index | Rd | +b | Grade ^{1/} | \$ | | Rank | |
| Deltapine 455 BG/RR | 4.1 | 1.09 | 80.3 | 28.6 | 7.5 | 3 | 78.2 | 8.6 | 31-1 | 0.5555 | 753.26 | 1 | |
| FiberMax 989 | 4.5 | 1.11 | 82.2 | 29.9 | 7.2 | 3 | 78.6 | 7.4 | 31-2 | 0.5483 | 736.92 | 3 | |
| FiberMax 958 | 4.5 | 1.14 | 82.0 | 29.8 | 6.3 | 3 | 78.1 | 7.2 | 31-2,41-1 | 0.5588 | 747.12 | 2 | |
| Downer Genetics X1374 | 4.7 | 1.10 | 81.4 | 31.0 | 7.1 | 3 | 78.3 | 7.8 | 31-1,31-2 | 0.5320 | 707.03 | 4 | |
| Syngenta DX25105N | 4.8 | 1.09 | 81.9 | 26.1 | 8.8 | 4 | 76.7 | 8.3 | 31-2,31-4 | 0.5133 | 661.13 | 10 | |
| Syngenta DX44708 | 4.8 | 1.10 | 82.0 | 26.7 | 7.5 | 3 | 78.1 | 7.9 | 31-1,31-2 | 0.5308 | 670.40 | 8 | |
| Downer Genetics X1365 | 4.5 | 1.10 | 81.7 | 29.0 | 7.7 | 3 | 76.6 | 7.8 | 31-2,41-1 | 0.5418 | 676.17 | 6 | |
| Downer Genetics X1459 | 4.8 | 1.10 | 82.2 | 29.7 | 7.4 | 3 | 77.2 | 7.3 | 31-1,41-1 | 0.5510 | 666.16 | 9 | |
| Downer Genetics X1362 | 4.5 | 1.09 | 82.1 | 29.3 | 7.3 | 4 | 78.3 | 7.3 | 31-2,41-1 | 0.5403 | 649.44 | 11 | |
| Syngenta DX34701-2 | 4.7 | 1.09 | 81.5 | 25.8 | 8.4 | 4 | 76.7 | 8.0 | 31-1,41-1 | 0.5323 | 637.70 | 13 | |
| Syngenta DX34902-3 | 4.4 | 1.17 | 82.9 | 31.2 | 6.8 | 3 | 79.0 | 7.7 | 31-1 | 0.5760 | 689.47 | 5 | |
| Downer Genetics X1353 | 4.4 | 1.07 | 81.7 | 30.2 | 7.4 | 3 | 77.9 | 8.1 | 31-1,31-2 | 0.5420 | 637.93 | 12 | |
| Syngenta DX241203-16 | 4.4 | 1.19 | 82.6 | 32.8 | 6.7 | 3 | 79.4 | 7.8 | 31-1 | 0.5775 | 673.94 | 7 | |
| Downer Genetics X1366 | 4.4 | 1.14 | 82.4 | 28.8 | 9.1 | 4 | 78.8 | 7.4 | 31-2 | 0.5198 | 592.57 | 14 | |
| Deltapine X05H521 BR | 3.8 | 1.14 | 81.4 | 30.6 | 7.4 | 4 | 79.1 | 7.3 | 31-2 | 0.5138 | 567.75 | 18 | |
| Downer Genetics X1471 | 4.3 | 1.10 | 82.4 | 30.4 | 7.4 | 3 | 79.3 | 7.7 | 31-1 | 0.5468 | 586.72 | 15 | |
| Beltwide Cotton Genetics XBCG-1270 BII | 4.3 | 1.09 | 81.6 | 29.7 | 7.2 | 3 | 79.6 | 6.8 | 31-1,41-1 | 0.5405 | 569.15 | 17 | |
| Downer Genetics X1264 | 4.4 | 1.10 | 80.7 | 27.4 | 7.3 | 3 | 78.6 | 7.6 | 31-1,31-2 | 0.5520 | 576.29 | 16 | |
| All-Tex 65097 RF | 4.7 | 1.00 | 81.2 | 29.1 | 7.6 | 4 | 76.1 | 8.1 | 41-1,41-3 | 0.4795 | 490.53 | 23 | |
| Syngenta DX441308 | 4.3 | 1.09 | 81.9 | 26.8 | 8.6 | 3 | 78.3 | 8.3 | 31-1 | 0.5500 | 531.85 | 19 | |
| Syngenta DX44902 | 3.9 | 1.07 | 82.4 | 27.0 | 8.3 | 3 | 79.2 | 7.4 | 31-1,31-2 | 0.5350 | 516.28 | 21 | |
| Dyna-Gro 06064 B2RF | 3.9 | 1.09 | 80.9 | 24.8 | 8.4 | 4 | 77.9 | 7.4 | 31-2,41-1 | 0.5000 | 478.00 | 24 | |
| All-Tex 65096 B2RF | 4.7 | 1.06 | 82.1 | 27.5 | 9.0 | 3 | 79.4 | 8.2 | 31-1 | 0.5253 | 501.14 | 22 | |
| Syngenta DX241203-9 | 4.4 | 1.14 | 81.0 | 30.2 | 7.5 | 3 | 79.1 | 7.8 | 31-1 | 0.5598 | 527.89 | 20 | |
| All-Tex 55039 RF | 4.6 | 1.05 | 82.0 | 33.9 | 7.1 | 4 | 76.2 | 7.9 | 31-2,41-1 | 0.5243 | 468.20 | 25 | |
| Mean | 4.4 | 1.10 | 81.8 | 29.0 | 7.6 | 3 | 78.2 | 7.7 | | 0.5380 | | | |
| C.V.% | 7.4 | 1.7 | 0.8 | 6.9 | 5.3 | 9.0 | 1.5 | 4.3 | | 4.9 | | | |
| LSD 0.05 | 0.6 | 0.03 | 1.1 | 3.4 | 0.7 | 1 | 2.0 | 0.6 | | 0.0446 | | | |

^{1/} 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.