



Table 1. Lint yield results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|----------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Lint yield (lb/acre) ----- | | | | | |
| PhytoGen 499WRF | 1281 | 1332 | 1771 | 1462 | 1644 | 1507 |
| Deltapine 1219B2RF | 1148 | 1271 | 1682 | 1367 | 1636 | 1434 |
| NexGen 1511B2RF | 1132 | 1353 | 1589 | 1358 | 1617 | 1423 |
| FiberMax 1944GLB2 | 1156 | 1108 | 1512 | 1258 | 1603 | 1345 |
| Grower's FiberMax 1740B2F | 1089 | 1153 | 1517 | 1253 | -- | -- |
| NexGen 4012B2RF | 999 | 1106 | 1493 | 1199 | 1465 | 1266 |
| Stoneville 4288B2F | 951 | 1085 | 1507 | 1181 | -- | -- |
| All-Tex Nitro 44 B2RF | 990 | 1047 | 1281 | 1106 | 1529 | 1212 |
| Stoneville 5458B2F | -- | -- | -- | -- | 1506 | -- |
| Test average | 1093 | 1182 | 1544 | 1273 | 1571 | 1364 |
| CV, % | 4.1 | 2.3 | 7.5 | | 3.8 | |
| OSL | <0.0001 | <0.0001 | 0.0064 | | 0.0166 | |
| LSD | 78 | 48 | 202 | | 105 | |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level.



Table 2. Storm resistance results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|--|----------|---------|--------|---------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Storm resistance (visual rating: 1 loose, 9 tight) ----- | | | | | |
| FiberMax 1944GLB2 | 7.0 | 7.0 | 6.2 | 6.7 | 5.7 | 6.5 |
| Grower's FiberMax 1740B2F | 6.0 | 6.7 | 6.0 | 6.2 | -- | -- |
| NexGen 4012B2RF | 6.0 | 5.7 | 5.8 | 5.8 | 7.2 | 6.2 |
| All-Tex Nitro 44 B2RF | 5.7 | 5.0 | 6.2 | 5.6 | 7.0 | 6.0 |
| Stoneville 4288B2F | 5.7 | 5.0 | 5.5 | 5.4 | -- | -- |
| PhytoGen 499WRF | 5.0 | 5.7 | 4.5 | 5.1 | 4.8 | 5.0 |
| NexGen 1511B2RF | 3.7 | 5.3 | 5.3 | 4.8 | 4.2 | 4.6 |
| Deltapine 1219B2RF | 4.0 | 4.3 | 5.2 | 4.5 | 6.2 | 4.9 |
| Stoneville 5458B2F | -- | -- | -- | -- | 5.2 | -- |
| Test average | 5.4 | 5.6 | 5.6 | 5.5 | 5.8 | 5.5 |
| CV, % | 6.6 | 7.2 | 9.3 | -- | 5.5 | -- |
| OSL | <0.0001 | <0.0001 | 0.0183 | -- | <0.0001 | -- |
| LSD | 0.6 | 0.7 | 0.9 | -- | 0.6 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level.



Table 3. Plant height results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|-----------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Plant height (inches) ----- | | | | | |
| PhytoGen 499WRF | 34.8 | 35.6 | 34.3 | 34.9 | 37.4 | 35.5 |
| NexGen 4012B2RF | 33.2 | 34.8 | 35.6 | 34.5 | 39.0 | 35.7 |
| Deltapine 1219B2RF | 34.2 | 34.9 | 32.0 | 33.7 | 34.5 | 33.9 |
| NexGen 1511B2RF | 31.8 | 33.6 | 35.0 | 33.5 | 32.5 | 33.2 |
| All-Tex Nitro 44 B2RF | 30.0 | 31.4 | 34.4 | 31.9 | 31.9 | 31.9 |
| FiberMax 1944GLB2 | 30.2 | 31.0 | 31.6 | 30.9 | 30.1 | 30.7 |
| Grower's FiberMax 1740B2F | 29.0 | 29.4 | 31.1 | 29.8 | -- | -- |
| Stoneville 4288B2F | 27.7 | 28.5 | 30.6 | 28.9 | -- | -- |
| Stoneville 5458B2F | -- | -- | -- | -- | 29.8 | -- |
| Test average | 31.4 | 32.4 | 33.1 | 32.3 | 33.6 | 33.5 |
| CV, % | 7.7 | 4.0 | 4.9 | -- | 6.2 | -- |
| OSL | 0.0261 | <0.0001 | 0.0090 | -- | 0.0009 | -- |
| LSD | 4.2 | 2.3 | 2.8 | -- | 3.7 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level.



Table 4. Loan value results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|--------------------------------|----------|---------|--------|---------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Loan value (\$/lb) ----- | | | | | |
| All-Tex Nitro 44 B2RF | 0.5812 | 0.5808 | 0.5807 | 0.5809 | 0.5817 | 0.5811 |
| Deltapine 1219B2RF | 0.5803 | 0.5748 | 0.5793 | 0.5781 | 0.5765 | 0.5777 |
| PhytoGen 499WRF | 0.5810 | 0.5782 | 0.5648 | 0.5747 | 0.5758 | 0.5750 |
| FiberMax 1944GLB2 | 0.5802 | 0.5738 | 0.5562 | 0.5701 | 0.5750 | 0.5713 |
| Stoneville 4288B2F | 0.5692 | 0.5775 | 0.5522 | 0.5663 | -- | -- |
| NexGen 4012B2RF | 0.5797 | 0.5540 | 0.5597 | 0.5645 | 0.5718 | 0.5663 |
| NexGen 1511B2RF | 0.5715 | 0.5567 | 0.5412 | 0.5565 | 0.5707 | 0.5600 |
| Grower's FiberMax 1740B2F | 0.5783 | 0.5292 | 0.5413 | 0.5496 | -- | -- |
| Stoneville 5458B2F | -- | -- | -- | -- | 0.5673 | -- |
| Test average | 0.5777 | 0.5656 | 0.5594 | 0.5676 | 0.5741 | 0.5719 |
| CV, % | 1.1 | 2.4 | 1.7 | -- | 0.9 | -- |
| OSL | 0.2374 | 0.0051 | 0.0008 | -- | 0.0844† | -- |
| LSD | NS | 0.0 | 0.0 | -- | 0.0074 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.

Note: Color grades set to 21, leaf grades set to 2 for entire trial.



Table 5. Net value results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|---------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Net value (\$/acre) ----- | | | | | |
| PhytoGen 499WRF | 775 | 829 | 1101 | 902 | 1033 | 935 |
| Deltapine 1219B2RF | 705 | 801 | 1090 | 865 | 1046 | 911 |
| NexGen 1511B2RF | 663 | 802 | 932 | 799 | 1010 | 852 |
| FiberMax 1944GLB2 | 705 | 674 | 927 | 769 | 1022 | 832 |
| NexGen 4012B2RF | 607 | 680 | 924 | 737 | 936 | 787 |
| Grower's FiberMax 1740B2F | 653 | 653 | 900 | 735 | -- | -- |
| Stoneville 4288B2F | 567 | 695 | 935 | 732 | -- | -- |
| All-Tex Nitro 44 B2RF | 604 | 683 | 815 | 701 | 997 | 775 |
| Stoneville 5458B2F | -- | -- | -- | -- | 954 | -- |
| Test average | 660 | 727 | 953 | 780 | 1000 | 848 |
| CV, % | 4.8 | 3.4 | 7.9 | -- | 3.9 | -- |
| OSL | <0.0001 | <0.0001 | 0.0056 | -- | 0.0379 | -- |
| LSD | 56 | 43 | 132 | -- | 69 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.



Table 6. Micronaire results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|--------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Micronaire (units) ----- | | | | | |
| NexGen 1511B2RF | 4.8 | 4.9 | 5.4 | 5.0 | 4.5 | 4.9 |
| Grower's FiberMax 1740B2F | 4.5 | 5.0 | 5.3 | 4.9 | -- | -- |
| Stoneville 4288B2F | 4.8 | 4.8 | 5.2 | 4.9 | -- | -- |
| FiberMax 1944GLB2 | 4.2 | 4.7 | 5.2 | 4.7 | 4.4 | 4.6 |
| PhytoGen 499WRF | 4.4 | 4.6 | 4.9 | 4.6 | 4.4 | 4.6 |
| NexGen 4012B2RF | 4.4 | 4.0 | 5.0 | 4.5 | 4.2 | 4.4 |
| Deltapine 1219B2RF | 4.2 | 4.5 | 4.7 | 4.5 | 4.3 | 4.4 |
| All-Tex Nitro 44 B2RF | 4.3 | 3.7 | 4.7 | 4.2 | 4.0 | 4.2 |
| Stoneville 5458B2F | -- | -- | -- | -- | 4.7 | -- |
| Test average | 4.5 | 4.5 | 5.1 | 4.7 | 4.4 | 4.5 |
| CV, % | 4.6 | 6.1 | 2.9 | -- | 4.7 | -- |
| OSL | 0.0108 | 0.0006 | 0.0001 | -- | 0.0401 | -- |
| LSD | 0.4 | 0.5 | 0.3 | -- | 0.4000 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.



Table 7. Staple results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|---------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Staple (32nds inch) ----- | | | | | |
| All-Tex Nitro 44 B2RF | 39.1 | 39.0 | 38.4 | 38.8 | 37.9 | 38.6 |
| FiberMax 1944GLB2 | 38.3 | 36.0 | 37.6 | 37.3 | 36.2 | 37.0 |
| Deltapine 1219B2RF | 38.0 | 35.8 | 38.0 | 37.3 | 35.9 | 36.9 |
| Stoneville 4288B2F | 36.2 | 36.3 | 37.1 | 36.5 | -- | -- |
| PhytoGen 499WRF | 37.0 | 35.9 | 36.6 | 36.5 | 36.1 | 36.4 |
| NexGen 4012B2RF | 37.0 | 35.7 | 35.6 | 36.1 | 35.3 | 35.9 |
| NexGen 1511B2RF | 36.6 | 35.4 | 35.2 | 35.7 | 35.4 | 35.7 |
| Grower's FiberMax 1740B2F | 36.0 | 34.1 | 35.3 | 35.1 | -- | -- |
| Stoneville 5458B2F | -- | -- | -- | -- | 35.3 | -- |
| Test average | 37.3 | 36.0 | 36.7 | 36.7 | 36.0 | 36.8 |
| CV, % | 1.6 | 2.7 | 1.9 | -- | 1.5 | -- |
| OSL | 0.0002 | 0.0026 | 0.0002 | -- | 0.0010 | -- |
| LSD | 1.1 | 1.7 | 1.2 | -- | 1.0 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.



Table 8. Strength results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|------------------------------|----------|---------|--------|--------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Strength (g/tex) ----- | | | | | |
| All-Tex Nitro 44 B2RF | 34.0 | 34.2 | 35.2 | 34.5 | 32.0 | 33.9 |
| Deltapine 1219B2RF | 34.9 | 32.3 | 35.0 | 34.1 | 31.3 | 33.4 |
| PhytoGen 499WRF | 33.3 | 32.4 | 33.0 | 32.9 | 31.5 | 32.6 |
| FiberMax 1944GLB2 | 33.3 | 30.8 | 33.2 | 32.4 | 29.5 | 31.7 |
| NexGen 1511B2RF | 32.5 | 31.4 | 32.4 | 32.1 | 30.2 | 31.6 |
| NexGen 4012B2RF | 32.3 | 31.0 | 31.6 | 31.6 | 29.0 | 31.0 |
| Grower's FiberMax 1740B2F | 32.1 | 30.2 | 31.0 | 31.1 | -- | -- |
| Stoneville 4288B2F | 30.8 | 30.6 | 31.3 | 30.9 | -- | -- |
| Stoneville 5458B2F | -- | -- | -- | -- | 29.8 | -- |
| Test average | 32.9 | 31.6 | 32.8 | 32.5 | 30.5 | 32.3 |
| CV, % | 1.7 | 3.3 | 2.1 | -- | 2.2 | -- |
| OSL | <0.0001 | 0.0084 | <0.0001 | -- | 0.0011 | -- |
| LSD | 1.0 | 1.9 | 1.2 | -- | 1.2 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.



Table 9. Uniformity results from the Extension irrigated RACE trials, 2012.

Sorted by 3-Site Mean Ranking

| County ==> | Beckham | Caddo | Custer | 3-Site | Harmon | All-Site |
|---------------------------|----------------------------|----------|---------|--------|---------|----------|
| Irrigation Type ==> | Pivot | Pivot | Pivot | Mean | Drip | Mean |
| Location ==> | Erick | Carnegie | Hydro | | Hollis | |
| Cooperator ==> | Gamble | Holsted | Schantz | | Cox | |
| Entry | ----- Uniformity (%) ----- | | | | | |
| PhytoGen 499WRF | 83.3 | 82.5 | 83.4 | 83.1 | 82.6 | 83.0 |
| All-Tex Nitro 44 B2RF | 83.0 | 83.0 | 83.2 | 83.1 | 83.2 | 83.1 |
| Grower's FiberMax 1740B2F | 82.6 | 81.3 | 82.2 | 82.0 | -- | -- |
| NexGen 1511B2RF | 82.7 | 82.1 | 80.8 | 81.9 | 82.4 | 82.0 |
| FiberMax 1944GLB2 | 82.2 | 81.7 | 81.7 | 81.9 | 80.8 | 81.6 |
| Stoneville 4288B2F | 81.9 | 81.6 | 82.1 | 81.9 | -- | -- |
| NexGen 4012B2RF | 82.4 | 81.2 | 81.7 | 81.8 | 81.2 | 81.6 |
| Deltapine 1219B2RF | 81.7 | 80.8 | 81.9 | 81.5 | 80.4 | 81.2 |
| Stoneville 5458B2F | -- | -- | -- | -- | 80.7 | -- |
| Test average | 82.5 | 81.8 | 82.1 | 82.1 | 81.6 | 82.1 |
| CV, % | 0.1 | 0.7 | 0.8 | -- | 0.5 | -- |
| OSL | 0.0780† | 0.0057 | 0.0055 | -- | <0.0001 | -- |
| LSD | 0.9 | 1.0 | 1.1 | -- | 0.7 | -- |

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.