


2006 New Mexico Farmer Cotton Trials



Dr. Denise McWilliams, Extension Agronomist, 
NMSU Cooperative Extension

| New Mexico, 2006, Cotton-Pima, Deputy - Chamberino | | | | | | | | | | | | | |
|---|--|----------------------------|--|-----------------|------------------|-------------|-----------------|----------------------------|--|-----------|------------------|----------|---|
| Authors: McWilliams, D.A. | | | | | | | | | | | | | |
| Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu | | | | | | | | | | | | | |
| URL for Further Information: www.cahe.nmsu.edu | | | | | | | | | | | | | |
| Trial Description | | | | | | | | | | | | | |
| Year of Harvest (yyyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Pima cotton for New Mexico | | | | | County/Area | Dona Ana | Replicated Within Site | | | | | 4 |
| Soil Name & Texture | sandy clay loam | Soil Depth (inches) | 30" plus | | | Longitude | 31°58.678N | Replicated Across Sites | | | | | 1 |
| | | | | | | Latitude | 106°38.730W | | | | | | |
| Planting (mm/dd/yy) | 5/1/2006 | Harvest Date(s) (mm/dd/yy) | 11/5/2006 | | | | | | | | | | |
| Herbicides/Insecticides | Prowl, Caparol and Zorial at planting; sprayed for bollworm and Lygus. | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | | | | At planting and sidedress. | | | | | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December | |
| Rain (inches) | | | | | 75.6 | 82.4 | 81.0 | 76.0 | 68.7 | 60.1 | 51.7 | | |
| Irrigation (inches) | | | | | 0.00 | 0.26 | 5.05 | 2.35 | 0.84 | 0.9 | 0.0 | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | | | | 40.0 | | Total Rain | | | 9.40 | |
| Unusual Conditions (or 'none') | Some scattered hail in August with cloudy weather throughout August. | | | | | | | | Total Irrigation | | | | |
| Results | | | | | | | | | | | | | |
| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade % | Color +b | Color RD | Yield bales/a | | |
| | Trial Mean | 2296.41 | 44.06 | 3.9533 | 1.3947 | 86.9867 | 35.06 | 5 | 10.9867 | 61.4933 | 2.11 | | |
| | LSD | 248.1394 | 2.8949 | 0.4909 | 0.0233 | 0.8316 | 5.1485 | 0 | 0.5913 | 2.2732 | 0.1712 | | |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | |
| | CV | 6.76 | 4.11 | 6.5955 | 0.8863 | 0.5077 | 7.7993 | 0 | 2.8582 | 1.9633 | 5.07 | | |
| | F Test | 0.00001*** | 0.3264 ns | 0.0408* | 0.0674 ns | 0.0346* | 0.8971 ns | ns | 0.0615 ns | 0.4573 ns | 0.00001*** | | |
| Delta & Pine Land | DP744 | 3186.5625 a | 45.0131 a | 4.4667 a | 1.41 a | 87.6 a | 35.7667 a | 5.0 a | 10.5667 a | 60.9667 a | 2.9793 a | | |
| Delta & Pine Land | DP353 | 2143.125 b | 43.7672 a | 3.85 b | 1.3875 a | 86.45 c | 34.5 a | 5.0 a | 10.95 a | 61.4 a | 1.9530 b | | |
| Delta & Pine Land | DP340 | 2088.75 b | 42.7264 a | 3.725 b | 1.4 a | 87.275 ab | 34.95 a | 5.0 a | 10.975 a | 62.3 a | 1.8590 b | | |
| Delta & Pine Land | HTO | 1767.1875 c | 44.7506 a | 3.9 b | 1.385 a | 86.775 bc | 35.2 a | 5.0 a | 11.35 a | 61.175 a | 1.6471 c | | |

| New Mexico, 2006, Cotton-Upland, Ogaz D&PL Flex Upland - Garfield | | | | | | | | | | | | | |
|---|---|---|---|------------------------|---------------|-------------------|-----------------------|--------------|---|--------------------------------|--------------|----------|------|
| Authors: | | McWilliams, D.A. | | | | | | | | | | | |
| Corresponding Author: | | New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu | | | | | | | | | | | |
| URL for Further Information: www.cahe.nmsu.edu | | | | | | | | | | | | | |
| Trial Description | | | | | | | | | | | | | |
| Year of Harvest (yyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Flex Upland cotton for New Mexico | | | | | | County/Area | Sierra | Replicated Within Site | | 4 | | |
| Soil Name & Texture | sandy clay loam | Soil Depth (inches) | 30" plus | | | | Longitude | 32°45.353N | | Replicated Across Sites | | | |
| | | | | | | | Latitude | 107°16.688W | | | | | |
| Planting (mm/dd/yy) | 5/16/2006 | Harvest Date(s) (mm/dd/yy) | 12/5/2006 | | | | | | | | | | |
| Herbicides/Insecticides | Caparol plus Dual as an early post herbicide mix; no insecticide. | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | | | | manure | 2000 | type | lb/a | type | lb/a |
| | January | February | March | April | May | June | July | August | September | October | November | December | |
| Temperature (deg F) | | | | | 73.8 | 79.4 | 79.9 | 74.0 | 68.8 | 59.8 | 50.5 | 40.2 | |
| Rain (inches) | | | | | 0.00 | 0.00 | 0.47 | 3.17 | 0.20 | 3.8 | 0.0 | 0.8 | |
| Irrigation (inches) | | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | | | | 38.0 | | Total Rain | | | 8.44 | |
| Unusual Conditions (or 'none') | Cloudy August. | | | | | | | | Total Irrigation | | | | |
| Results | | | | | | | | | | | | | |
| Brand/Company Name | Hybrid/Variety Name | Yield | Lint % | Micronaire | Length | Uniformity | Strength | Color | Color +b | Color RD | Yield | | |
| | | lbs/a | % | | Inches | | HVI | % | | | bales/a | | |
| | Trial Mean | 3489.03 | 40.18 | 2.7917 | 1.16 | 80.5667 | 26.65 | 48.9167 | 6.8083 | 71.375 | 2.9189 | | |
| | LSD | 4.1973 | 2.1213 | 0.2687 | 0.0332 | 1.5337 | 1.625 | 6.8792 | 0.5603 | 4.0387 | 5.1899 | | |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | |
| | CV | 5.14 | 3.03 | 6.3855 | 1.8974 | 1.2631 | 4.0457 | 9.3309 | 5.4607 | 3.7543 | 5.46 | | |
| | F Test | 0.0138* | 0.1190 ns | 0.4696 ns | 0.0033** | 0.1422 ns | 0.0025** | 0.2098 ns | 0.1514 ns | 0.2840 ns | 0.0058* | | |
| Delta & Pine Land | DP444Br | 3785.355 a | 40.8902 a | 2.775 a | 1.12 c | 80.125 a | 25.675 b | 48.5 a | 6.775 a | 71.15 a | 3.2249 a | | |
| Delta & Pine Land | DP117B2RF | 3581.46 ab | 40.8715 a | 2.725 a | 1.1575 b | 80.65 a | 28.2 a | 48.5 a | 6.675 a | 70.3 a | 3.0386 ab | | |
| Delta & Pine Land | DP434R | 3542.06 abc | 39.1317 a | 2.75 a | 1.1425 bc | 79.475 a | 25.575 b | 46.0 a | 6.4 a | 73.725 a | 2.8887 bc | | |
| Delta & Pine Land | DPLX06W660F | 3381.505 bc | 39.9315 a | 2.9 a | 1.725 ab | 81.6 a | 26.25 b | 46.0 a | 7.15 a | 72.825 a | 2.8122 bc | | |
| Delta & Pine Land | DPLX06W650 | 3352.94 bc | 39.1847 a | 2.7 a | 1.17 ab | 80.775 a | 25.675 b | 53.5 a | 6.9 a | 69.625 a | 2.7373 c | | |
| Delta & Pine Land | DP110RF | 3290.885 c | 41.0709 a | 2.9 a | 1.1975 a | 80.775 a | 28.525 a | 51.0 a | 6.95 a | 70.625 a | 2.8120 bc | | |

| New Mexico, 2006, Cotton-Upland, Ogaz Acala Upland - Garfield | | | | | | | | | | | | | |
|---|--|----------------------------|--|------------|---------------|------------|------------------------|------------------|--|-------------------------|---------------|----------|---|
| Authors: McWilliams, D.A. | | | | | | | | | | | | | |
| Correspondence: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu | | | | | | | | | | | | | |
| URL for Further Information: www.cahe.nmsu.edu | | | | | | | | | | | | | |
| Trial Description | | | | | | | | | | | | | |
| Year of Harvest (yyyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Acala Upland cotton for New Mexico | | | | County/Area | Sierra | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | 30" plus | | | Longitude | 32°45.353N | | Replicated Across Sites | | | 1 |
| | | | | | | Latitude | 107°16.756W | | | | | | |
| Planting (mm/dd/yy) | 5/16/2006 | Harvest Date(s) (mm/dd/yy) | | 12/6/2007 | 12/7/2007 | | | | | | | | |
| Herbicides/Insecticides | Caparol plus Dual as an early post herbicide mix; no insecticide. | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | none. | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December | |
| Temperature (deg F) | | | | | 73.8 | 79.4 | 79.9 | 74.0 | 68.8 | 59.8 | 50.5 | 40.2 | |
| Rain (inches) | | | | | 0.00 | 0.00 | 0.47 | 3.17 | 0.20 | 3.8 | 0.0 | 0.8 | |
| Irrigation (inches) | | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 38.0 | | | | Total Rain | 8.44 | | | | |
| Unusual Conditions (or 'none') | Cloudy August. | | | | | | | Total Irrigation | | | | | |
| Results |  | | | | | | | | | | | | |
| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade % | Color +b | Color RD | Yield bales/a | | |
| Trial Mean | | 3706.31 | 39.89 | 3.2813 | 1.2175 | 82.3563 | 30.3875 | 54.75 | 6.0438 | 68.8313 | 3.0799 | | |
| LSD | | 127.94 | 2.06 | 0.4399 | 0.0341 | 1.0305 | 2.345 | 7.9979 | 0.5732 | 2.4657 | 0.19 | | |
| LSD P > | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | |
| CV | | 2.16 | 3.23 | 8.381 | 1.7531 | 0.7823 | 4.8244 | 9.1324 | 5.929 | 2.2395 | 3.92 | | |
| F Test | | 0.5188 ns | 0.8571 ns | 0.5918 ns | 0.2710 ns | 0.1687 ns | 0.6329 ns | 0.8017 ns | 0.7175 ns | 0.5521 ns | 0.6850ns | | |
| NM | 1517-99 | 3758.76 a | 39.8780 a | 3.15 a | 1,215 a | 82.05 a | 29.6 a | 56.0 a | 6.0 a | 68.0 a | 3.1233 a | | |
| Dyna-Gro | A0265 BR | 3697.69 a | 40.0375 a | 3.425 a | 1.2 a | 82.1 a | 30.5 a | 56.0 a | 5.975 a | 69.125 a | 3.0847 a | | |
| Dyna-Gro | A0265 BR | 3691.78 a | 40.1917 a | 3.275 a | 1.225 a | 82.225 a | 30.5 a | 53.5 a | 6.225 a | 68.65 a | 3.0912 a | | |
| NM | 1517-99 | 3677.005 a | 39.4404 a | 3.275 a | 1.23 a | 83.05 a | 30.95 a | 53.5 a | 5.975 a | 69.55 a | 3.0204 a | | |

New Mexico, 2006, Cotton-Upland, Ogaz Upland - Garfield

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Trial Description

| | | | | | | | | | | | | | |
|---|---|-----------------------------------|---|----------|--------------|--------------------|------------------------|-------------------------------|---|---------|-------------------|----------|--|
| Year of Harvest (yyyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Upland cotton for New Mexico | | | | | County/Area | Sierra | Replicated Within Site | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | 30" plus | | Longitude | 32°45.355N | | Replicated Across Sites | 1 | | | |
| | | | | | | Latitude | 107°16.875W | | | | | | |
| Planting (mm/dd/yy) | 5/16/2006 | Harvest Date(s) (mm/dd/yy) | 12/7/2007 | | | | | | | | | | |
| Herbicides/Insecticides | Caparol plus Dual as an early post herbicide mix; no insecticide. | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | none. | type | lb/a | type | lb/a | |
| | | | | | | | | | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December | |
| Temperature (deg F) | | | | | 73.8 | 79.4 | 79.9 | 74.0 | 68.8 | 59.8 | 50.5 | 40.2 | |
| Rain (inches) | | | | | 0.00 | 0.00 | 0.47 | 3.17 | 0.20 | 3.8 | 0.0 | 0.8 | |
| Irrigation (inches) | | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | | | 38.0 | | | | | Total Rain | 8.44 | |
| Unusual Conditions (or 'none') | Cloudy August. | | | | | | | | Total Irrigation | | | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade | Color +b | Color RD | Yield |
|---------------------------|----------------------------|--------------|---------------|-------------------|----------------------|-------------------|---------------------|--------------------|-----------------|-----------------|--------------|
| | | lbs/a | % | | | | | % | | | bales/a |
| | Trial Mean | 3784.37 | 39.73 | 2.95 | 1.1713 | 80.7125 | 26.55 | 47.25 | 6.5375 | 72.7125 | 3.1324 |
| | LSD | 147.88 | 2.07 | 0.3789 | 0.0557 | 0.8153 | 3.9865 | 7.9561 | 0.7277 | 5.9939 | 0.1476 |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | CV | 1.74 | 2.32 | 5.7059 | 2.1131 | 0.4489 | 6.6724 | 7.4826 | 4.9467 | 3.6631 | 2.0934 |
| | F Test | 0.0956 ns | 0.2418 ns | 0.7027 ns | 0.5266 ns | 0.0486* | 0.3601 ns | 0.3910 ns | 0.0092** | 0.1004 ns | 0.0987 ns |
| All Tex | Marathon | 3791.265 a | 38.9680 a | 2.925 a | 1.1775 a | 80.3 b | 25.875 a | 46.0 a | 5.85 b | 74.925 a | 3.0775 a |
| Stoneville | 4554 | 3777.475 a | 40.4840 a | 2.975 a | 1.165 a | 81.125 a | 27.225 a | 48.5 a | 7.225 a | 70.5 a | 3.1873 a |

New Mexico, 2006, Cotton-Upland, Sloan D&PL Flex Upland - La Mesa

Authors: McWilliams, D.A.
 Corresponding Author: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu

URL for Further Information: www.cahe.nmsu.edu

Trial Description

| | | | | | | | | | | | | |
|--|---|----------------------------|--|-----------|-------|----------------|-----------------|----------------------------|--|------------------|------------|----------|
| Year of Harvest (yyyy) | 2006 | Country | United States | | | State/Province | NM | | Study Design (number of replications): | | | |
| Special Test (Describe) | Flex Upland cotton for New Mexico | | | | | County/Area | Dona Ana | | Replicated Within Site | | 4 | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | 30" plus | | Longitude | 32°06.676N | | Replicated Across Sites | | 1 | |
| | | | | | | Latitude | 106°41.525W | | | | | |
| Planting (mm/dd/yy) | 4/28/2006 | Harvest Date(s) (mm/dd/yy) | 11/4/2006 | 11/5/2006 | | | | | | | | |
| Herbicides/Insecticides | Caporal plus Treflan plus B90 additive at planting; no insecticide. | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | At planting and sidedress. | type | lb/a | type | lb/a |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | 0.45 | 2.53 | 1.50 | 1.72 | 1.27 | 1.47 | 1.7 | 0.0 | |
| Irrigation (inches) | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | | | | | | Total Rain | 10.64 |
| Unusual Conditions (or 'none') | Cloudy August with scattered hail. | | | | | | | | | Total Irrigation | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade % | Color +b | Color RD | Yield bales/a |
|--------------------|---------------------|----------------|-------------|------------|------------------|------------|-----------------|---------------------|------------|-----------|------------------|
| | Trial Mean | 4075.8094 | 41.3502 | 3.4677 | 1.193 | 81.4839 | 29.4806 | 48.7419 | 5.9677 | 74.1806 | 3.5078 |
| | LSD | 143.2363 | 1.2771 | 0.4547 | 0.0375 | 1.156 | 1.4312 | 7.6508 | 0.2828 | 2.4587 | 0.1658 |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | CV | 2.3899 | 2.1003 | 7.6984 | 1.8473 | 0.833 | 2.8504 | 9.216 | 2.7827 | 1.946 | 3.2133 |
| | F Test | 0.00001*** | 0.00001*** | 0.0565 ns | 0.0001*** | 0.0001*** | 0.00001*** | 0.5271 ns | 0.00001*** | 0.0484* | 0.00001*** |
| Delta & Pine Land | DP164 | 4654.5675 a | 40.1256 ef | 3.075 a | 1.22 ab | 80.75 de | 30.175 bc | 51.0 a | 6.075 b | 73.4 b | 3.8929 a |
| Delta & Pine Land | DP143 | 4215.3375 b | 39.6161 ef | 3.55 a | 1.2325 a | 80.125 e | 29.275 cd | 51.0 a | 5.725 c | 73.125 b | 3.4794 cd |
| Delta & Pine Land | DP167 | 4079.2125 bc | 39.4144 f | 3.3 a | 1.2175 ab | 81.55 bcd | 29.875 bc | 48.5 a | 6.025 b | 74.625 ab | 3.3506 de |
| Delta & Pine Land | DP455 | 4071.045 c | 43.7079 a | 3.55 a | 1.1875 bcd | 82.15 abc | 30.625 ab | 46.0 a | 6.925 a | 74.0 ab | 3.7065 b |
| Delta & Pine Land | DP494 | 4021.1325 c | 40.7544 de | 3.6 a | 1.1975 bc | 82.8 a | 31.675 a | 48.5 a | 6.175 b | 73.4 b | 3.4156 de |
| Delta & Pine Land | DP454 | 4012.965 c | 43.2789 ab | 3.75 a | 1.1425 e | 82.5 ab | 28.375 d | 51.0 a | 5.775 c | 73.425 b | 3.6171 bc |
| Delta & Pine Land | DP555 | 3786.9975 d | 41.7733 cd | 3.5667 a | 1.1533 de | 80.6333 de | 26.8667 e | 47.6667 a | 5.3 d | 76.2 a | 3.2959 e |
| Delta & Pine Land | DP555 | 3765.2175 d | 42.1309 bc | 3.375 a | 1.1825 cd | 81.15 cd | 28.325 d | 46.0 a | 5.575 c | 75.775 a | 3.3045 e |

| New Mexico, 2006, Cotton-Upland, Sloan FM Flex Upland - La Mesa | | | | | | | | | | | | | |
|--|---|-------------|--|------------|---------------|------------|------------------------|----------------------------|--|----------|---------------|----------|--|
| Authors: McWilliams, D.A. | | | | | | | | | | | | | |
| Correspon: New Mexico State University, Las Cruces, NM, 88003, demcwill@nmsu.edu | | | | | | | | | | | | | |
| URL for Further Information: www.cahe.nmsu.edu | | | | | | | | | | | | | |
| Trial Description | | | | | | | | | | | | | |
| Year of Harvest (yyyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | FM Flex Upland cotton for New Mexico | | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | 30" plus | | Longitude | 32°06.583N | | Replicated Across Sites 1 | | | | |
| | | | | | | Latitude | 106°41.523W | | | | | | |
| Planting (mm/dd/yy) | 4/28/2006 | | Harvest Date(s) (mm/dd/yy) | 11/5/2006 | | | | | | | | | |
| Herbicides/Insecticides | Caporal plus Treflan plus B90 additive at planting; no insecticide. | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | At planting and sidedress. | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December | |
| Temperature (deg F) | | | | 67.5 | 77.0 | 82.9 | 83.6 | 77.8 | 72.6 | 63.2 | 54.0 | | |
| Rain (inches) | | | | 0.45 | 2.53 | 1.50 | 1.72 | 1.27 | 1.47 | 1.7 | 0.0 | | |
| Irrigation (inches) | | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | | | Total Rain | 10.64 | | | | |
| Unusual Conditions (or 'none') | Cloudy August with scattered hail. | | | | | | | Total Irrigation | | | | | |
| Results | | | | | | | | | | | | | |
| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade % | Color +b | Color RD | Yield bales/a | | |
| | Trial Mean | 4568.8088 | 40.0704 | 3.625 | 1.2213 | 81.8625 | 29.85 | 51 | 5.675 | 73.925 | 3.8137 | | |
| | LSD | 459.6631 | 1.0741 | 0.4774 | 0.0716 | 0.6545 | 1.2118 | 0 | 0.4501 | 1.3595 | 0.3859 | | |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | | |
| | CV | 4.4709 | 1.1912 | 5.8519 | 2.6055 | 0.3553 | 1.8041 | 0 | 3.5242 | 0.8173 | 4.4971 | | |
| | F Test | 0.5495 ns | 0.6258 ns | 1.3910 ns | 0.3089 ns | 0.0463* | 0.0348* | ns | 0.5305 ns | 0.0227* | 0.6319 ns | | |
| FiberMax | BCSX0680B2F | 4617.36 a | 39.9790 a | 3.7 a | 1.2075 a | 82.2 a | 29.15 b | 51.0 a | 5.725 a | 74.85 a | 3.8459 a | | |
| FiberMax | FM960B2F | 4520.2575 a | 40.1618 a | 3.55 a | 1.235 a | 81.525 b | 30.55 a | 51.0 a | 5.625 a | 73.0 b | 3.7815 a | | |

New Mexico, 2006, Cotton-Upland, Sondergroth-Tellez D&PL Flex Upland - La Union

Authors: McWilliams, D.A.
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Trial Description

| | | | | | | | | | | | | | |
|--|--|----------|--|------------|-------|-------------|-----------------|----------------------------|--|---------|------------------|----------|---|
| Year of Harvest (yyyy) | 2006 | Country | United States | | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Flex Upland cotton for New Mexico | | | | | County/Area | Dona Ana | Replicated Within Site | | | | | 4 |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | 30" plus | | Longitude | 31°57.230N | | Replicated Across Sites | | | 1 | |
| | | | | | | Latitude | 106°39.287W | | | | | | |
| Planting (mm/dd/yy) | 4/22/2006 | | Harvest Date(s) (mm/dd/yy) | 11/10/2006 | | | | | | | | | |
| Herbicides/Insecticides | Caporal plus Treflan plus B90 additive at planting | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | At planting and sidedress. | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December | |
| Temperature (deg F) | | | | 67.5 | 77.0 | 82.9 | 83.6 | 77.8 | 72.6 | 63.2 | 54.0 | | |
| Rain (inches) | | | | 0.45 | 2.53 | 1.50 | 1.72 | 1.27 | 1.47 | 1.7 | 0.0 | | |
| Irrigation (inches) | | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | | | | | | Total Rain | 10.64 | |
| Unusual Conditions (or 'none') | Cloudy August. | | | | | | | | | | Total Irrigation | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade | Color +b | Color RD | Yield bales/a |
|--------------------|---------------------|-------------|------------|------------|---------------|------------|--------------|-------------|-----------|-----------|---------------|
| | Trial Mean | 2324.7844 | 41.867 | 4.5393 | 1.1286 | 80.5107 | 28.6571 | 50.6429 | 6.5143 | 71.4176 | 2.0265 |
| | LSD | 596.1768 | 1.7642 | 0.3973 | 0.0387 | 1.5089 | 1.4769 | 4.3894 | 0.4557 | 2.2492 | 0.53 |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | CV | 17.4874 | 2.8734 | 5.891 | 2.3068 | 1.2615 | 3.4691 | 5.8344 | 4.7087 | 2.1199 | 17.9719 |
| | F Test | 0.2880 ns | 0.0002*** | 0.1030 ns | 0.00001*** | 0.3412 ns | 0.0084** | 0.2816 ns | 0.0815 ns | 0.0469* | 0.4230 ns |
| Delta & Pine Land | DP164B2RF | 2688.925 a | 40.3550 c | 4.325 a | 1.1625 a | 80.25 a | 28.825 abc | 51.0 a | 6.575 a | 71.8 ab | 2.2650 a |
| Delta & Pine Land | DP143B2RF | 2504.55 a | 41.6573 bc | 4.425 a | 1.1675 a | 79.7 a | 27.575 c | 53.5 a | 6.45 a | 69.375 c | 2.1787a |
| Delta & Pine Land | DP555Br | 2492.75 a | 42.7350 ab | 4.35 a | 1.095 b | 80.2 a | 27.95 bc | 48.5 a | 6.15 a | 72.925 a | 2.2176 a |
| FiberMax | BCSX0680B2F | 2295.8375 a | 41.425 bc | 4.75 a | 1.14 a | 80.875 a | 29.275 ab | 51.0 a | 6.475 a | 72.225 ab | 1.9800 a |
| Delta & Pine Land | DP455Br | 2205.8625 a | 43.6369 a | 4.825 a | 1.0925 b | 80.5 a | 29.2 ab | 48.5 a | 6.9 a | 71.9 ab | 2.0062 a |
| Delta & Pine Land | DP167RF | 2185.5813 a | 40.4578 c | 4.6 a | 1.1725 a | 81.475 a | 30.25 a | 51.0 a | 6.4 a | 71.625 ab | 1.8431 a |
| Delta & Pine Land | DP454BR | 2039.1875 a | 44.2111 a | 4.5 a | 1.07 b | 80.575 a | 27.525 c | 51.0 a | 6.65 a | 70.075 bc | 1.8788 a |

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Trial Description

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|--|---|----------------------------|--|-----------------|------|----------------|----------------------------|--|-------------------------|---------|----------|----------|
| Year of Harvest (yyy) | 2006 | Country | United States | | | State/Province | NM | Study Design (number of replications): | | | | |
| Special Test (Describe) | Upland cotton for New Mexico | | | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | |
| Soil Name & Texture | sandy clay loam | Soil Depth (inches) | 30" plus | | | Longitude | 31°56.182N | | Replicated Across Sites | | | |
| | | | | | | Latitude | 106°38.660W | | | | | |
| Planting (mm/dd/yy) | 4/22/2006 | Harvest Date(s) (mm/dd/yy) | 11/11/2006 | | | | | | | | | |
| Herbicides/Insecticides | Caporal plus Treflan plus B90 additive at planting; sprayed for bollworm and Lygus. | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | | | At planting and sidedress. | | | | | |
| | January | February | March | April | May | June | July | August | September | October | November | December |
| Temperature (deg F) | | | | 67.5 | 77.0 | 82.9 | 83.6 | 77.8 | 72.6 | 63.2 | 54.0 | |
| Rain (inches) | | | | 0.45 | 2.53 | 1.50 | 1.72 | 1.27 | 1.47 | 1.7 | 0.0 | |
| Irrigation (inches) | | | | | | | | | | | | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | | | 40.0 | | Total Rain | | | 10.64 | |
| Unusual Conditions (or 'none') | Cloudy August. | | | | | | | | Total Irrigation | | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % % | Micronaire | Length Inches | Uniformity | Strength HVI | Color Grade | Color +b | Color RD | Yield bales/a |
|--------------------|---------------------|----------------|-------------|------------|------------------|------------|-----------------|----------------|-----------|-----------|------------------|
| | Trial Mean | 4534.14 | 40.1707 | 4.1333 | 1.1883 | 82.225 | 26.8542 | 53.9167 | 5.9625 | 68.9333 | 3.7935 |
| | LSD | 122.5658 | 2.1569 | 0.2581 | 0.04 | 1.2307 | 1.4113 | 6.502 | 0.2424 | 2.5902 | 0.2123 |
| | LSD P > | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| | CV | 1.7936 | 3.5625 | 4.1436 | 2.2335 | 0.9931 | 3.487 | 8.0013 | 2.6971 | 2.4932 | 3.7141 |
| | F Test | 0.0034** | 0.0022** | 0.0331* | 0.0598 ns | 0.2761 ns | 0.00001*** | 0.5915 ns | 0.0002*** | 0.3159 ns | 0.0030** |
| All Tex | APEX B2RF | 4623.84 a | 41.0270 a | 4.125 abc | 1.1875 a | 81.625 a | 25.45 c | 53.5 a | 5.75 cd | 69.35 a | 3.9512 a |
| Dyna-Gro | DG2520B2RF | 4580.55 a | 41.1797 a | 4.125 abc | 1.2075 a | 82.275 a | 25.525 c | 53.5 a | 6.075 b | 69.875 a | 3.9292 ab |
| Stoneville | 6611B2RF | 4574.7 a | 37.8257 b | 4.2 ab | 1.22 a | 82.6 a | 27.875 b | 51.0 a | 6.35 a | 68.175 a | 3.6056 c |
| All Tex | MarathonB2RF | 4555.98 a | 37.9152 b | 3.9 c | 1.1625 a | 81.65 a | 25.775 c | 53.5 a | 5.625 d | 70.15 a | 3.5966 c |
| Delta & Pine Land | DP494R | 4525.56 a | 41.9699 a | 4.075 bc | 1.17 a | 82.425 a | 30.375 a | 56.0 a | 6.075 b | 67.9 a | 3.9574 a |
| Dyna-Gro | DG2242B2RF | 4344.21 b | 41.1065 a | 4.375 a | 1.1825 a | 82.775 a | 26.125 c | 56.0 a | 5.9 bc | 68.15 a | 3.7208 bc |