



2004



Cotton Farmer Strip Trials for New Mexico

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New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Joel Tellez and Robert Sondergroth

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

Trial Description

| | | | | | | | | | | | | |
|--|--|----------------------------|--|-----------------|----------|--|------|------------|------------------|---------|----------|----------|
| Year of Harvest (yyyy) | 2004 | Country | United States | State/Province | NM | Study Design (number of replications): | | | | | | |
| Special Test (Describe) | Stacked gene cotton trial--Upland trial with D&PL | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | Longitude | | Replicated Across Sites | | | | | | |
| Planting (mm/dd/yy) | 4/30/2004 | Harvest Date(s) (mm/dd/yy) | 11/12/2004 | Latitude | | | | | | | | |
| Herbicides/Insecticides | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | | | | | | | | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | 62.0 | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | |
| Irrigation (inches) | | | | 0.00 | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | | | Total Rain | 5.60 | | | |
| Unusual Conditions (or 'none') | Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation trial. Also, DPLX01 r | | | | | | | | Total Irrigation | | | |

Results

| Brand/Co | Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronair | Length Inches | Uniformit | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a |
|----------|--------------|---------------------|-------------|-----------|-----------|---------------|-----------|--------------|--------------|------------------|---------------|
| | | Trial Mean | 3855.4 | 41.9 | 4.20 | 1.15 | 82.61 | 20.22 | 7.29 | | |
| | | LSD | 996.75 | 2.3 | 0.58 | 0.06 | 7.03 | 1.13 | 0.63 | | |
| | | LSD P > | 0.0005* | 0.0598 ns | 0.1804 ns | 0.5357 ns | 0.8865 ns | 0.0243* | 0.0047* | | |
| | | CV | 17.15 | 3.65 | 9.21 | 3.5 | 5.65 | 3.72 | 5.74 | | |
| Averages | Estimated | Bales/A | F Test | 8.63 | 2.74 | 1.77 | 0.85 | 3.6 | 5.45 | | |
| 2.75 | D&PL | 555 | 3855.8 | 43.7 | 4.24 | 1.13 | 80.2 | 19.0 | 6.4 | 1686.72 | 3.51 b |
| 2.86 | D&PL | 488 | 4014.4 | 42.0 | 4.32 | 1.16 | 82.7 | 20.5 | 7.8 | 1687.57 | 3.52 ab |
| 3.52 | D&PL | 449 | 4931.7 | 41.5 | 4.53 | 1.15 | 83.5 | 20.8 | 7.4 | 2044.72 | 4.26 ab |
| 1.45 | D&PL | DPLX 01 | 2027.8 | 40.5 | 3.97 | 1.17 | 83.5 | 20.6 | 7.7 | 820.60 | 1.71 c |
| 2.89 | D&PL | DPLX 02 | 4051.9 | 42.8 | 4.32 | 1.12 | 83.7 | 20.8 | 7.3 | 1735.91 | 3.62 ab |
| 3.04 | D&PL | DPLX 03 | 4250.9 | 40.7 | 3.83 | 1.16 | 82.1 | 19.7 | 7.1 | 1729.95 | 3.60 ab |

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Trial Description

| | | | | | | | | | | | | |
|--|--|----------------------------|--|-----------------|-------------------------|--|------|------------------|-----------|---------|----------|----------|
| Year of Harvest (yyyy) | 2004 | Country | United States | State/Province | NM | Study Design (number of replications): | | | | | | |
| Special Test (Describe) | Stacked gene cotton trial--Upland trial drip irrigation | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | Longitude | Replicated Across Sites | | | | | | | |
| Planting (mm/dd/yy) | 4/30/2004 | Harvest Date(s) (mm/dd/yy) | 11/30/2004 | Latitude | | | | | | | | |
| Herbicides/Insecticides | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | type | lb/a | type | lb/a | | | | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | 62.0 | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | |
| Irrigation (inches) | | | | 0.00 | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | |
| Plant Population (number or pounds per acre) | 52324 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | | | Total Rain | 5.60 | | | |
| Unusual Conditions (or 'none') | Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation trial | | | | | | | Total Irrigation | | | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronair | Length Inches | Uniformity | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a | |
|--------------------|---------------------|---------------|---------|-----------|---------------|------------|--------------|--------------|------------------|---------------|---------|
| | Trial Mean | 4076.9 | 43.0 | 3.8 | 1.1 | 79.1 | 19.5 | 7.2 | | | |
| | LSD | 346.64 | 1.75 | 0.29 | 0.06 | 4.63 | 1.02 | 0.63 | | | |
| | LSD P > | 0.0767 ns | 0.0463* | 0.0032* | 0.0527 ns | 0.0057* | 0.0102* | 0.8455 ns | | | |
| | CV | 5.32 | 2.55 | 4.72 | 3.26 | 3.66 | 3.26 | 5.49 | | | |
| Averages Estimated | Bales/A | F Test | 3.2 | 3.99 | 10.01 | 3.78 | 8.37 | 6.95 | 0.27 | | |
| 2.78 | D&PL | 555 | 3898.4 | 43.8 | 3.60 | 1.13 | 77.50 | 19.43 | 7.05 | 1706.82 | 3.56 b |
| 2.89 | D&PL | 488 | 4045.2 | 41.6 | 3.79 | 1.18 | 76.26 | 20.56 | 7.13 | 1684.44 | 3.51 ab |
| 3.12 | Stoneville | 5599 | 4351.7 | 42.5 | 3.67 | 1.13 | 77.23 | 19.51 | 7.26 | 1851.52 | 3.86 a |
| 2.87 | Stoneville | 5242 | 4012.2 | 44.0 | 4.24 | 1.10 | 85.31 | 18.52 | 7.25 | 1763.95 | 3.67 ab |

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Bobby Sloan

Authors: D.A. McWilliams
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Trial Description

Year of Harvest (yyyy) 2004 Country United States State/Province NM Study Design (number of replications):
 Special Test (Describe) Chaperone cotton trial on Upland. County/Area Dona Ana Replicated Within Site 3
 Soil Name & Texture sandy clay loam Soil Depth (inches) Longitude Replicated Across Sites
 Latitude
 Planting (mm/dd/yy) 5/5/2004 Harvest Date(s) (mm/dd/yy) 11/20/2004
 Herbicides/Insecticides
 Fertilizer Applied (lb/a): Nitrogen (P2O5) (K20) Other (specify) type lb/a type lb/a
 Temperature (deg F) January February March April May June July August September October November December
 Rain (inches) 71.6 78 75.7 75.4 69.6 62.6 48.5
 Irrigation (inches) 0.1 0.4 1.3 2.9 0.9 0.0 0.0
 Plant Population (number or pounds per acre) 55017 Row Spacing (inches - enter '0' for broadcast) 38.0 Total Rain 5.60
 Unusual Conditions (or 'none') Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation t Total Irrigation

Results

| Brand/Company Name | Hybrid/Variety Name | Yield gms/sample | Lint % | Micronair | Length | | Strength | | Elongation % | Yield gms/sample |
|--------------------|---------------------|---------------------|-----------|-----------|-----------|------------|-----------|-----------|-----------------|---------------------|
| | | | | | Inches | Uniformity | HVI | n | | |
| | Trial Mean | 81.4 | 43.2 | 3.8 | 1.5 | 91.1 | 30.3 | 7.6 | | |
| | LSD | 8.05 | 4.39 | 0.72 | 0.13 | 10.58 | 5.49 | 1.6 | | |
| | LSD P > | 0.0177* | 0.9741 ns | 0.5281 ns | 0.8433 ns | 0.0809 ns | 0.7819 ns | 0.2868 ns | | |
| | CV | 4.36 | 4.48 | 8.24 | 3.78 | 5.12 | 7.98 | 9.33 | | |
| Estimated Bales/A | F Test | 13.01 | 0.03 | 0.75 | 0.18 | 5.03 | 0.26 | 1.73 | | |
| 1 CHAPEROM CHECK 1 | | 78.3 | 43.7 | 3.20 | 1.45 | 91.0 | 29.4 | 7.3 | b | |
| 2 CHAPERON 5 OZ 1 | | 82.0 | 43.2 | 4.31 | 1.48 | 92.4 | 31.0 | 7.6 | b | |
| 3 CHAPERON 10 OZ 1 | | 84.0 | 42.8 | 4.00 | 1.45 | 90.0 | 30.6 | 7.8 | a | |

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Trial Description

| | | | | | | | | | | | | |
|--|--|----------------------------|--|-----------------|-------------------------|--|------------|------------------|-----------|---------|----------|----------|
| Year of Harvest (yyyy) | 2004 | Country | United States | State/Province | NM | Study Design (number of replications): | | | | | | |
| Special Test (Describe) | Stacked gene cotton trial. | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | Longitude | Replicated Across Sites | | | | | | | |
| | | | | Latitude | | | | | | | | |
| Planting (mm/dd/yy) | 5/1/2004 | Harvest Date(s) (mm/dd/yy) | 11/5/2004 | | | | | | | | | |
| Herbicides/Insecticides | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | type | lb/a | type | lb/a | | | | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | |
| Irrigation (inches) | | | | | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | |
| Plant Population (number or pounds per acre) | 55017 | | Row Spacing (inches - enter '0' for broadcast) | 38.0 | | | Total Rain | | | | | |
| Unusual Conditions (or 'none') | Soil crusting right at emergence but was lightly tilled to break soil sealing; this is a drip irrigation | | | | | | | Total Irrigation | | | | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronair | Length | | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a |
|--------------------|---------------------|-------------|-----------|-----------|-----------|------------|--------------|--------------|------------------|---------------|
| | | | | | Inches | Uniformity | | | | |
| | Trial Mean | 3937.6 | 42.4 | 3.7 | 1.1 | 81.5 | 20.5 | 6.7 | | |
| | LSD | 294.72 | 8.71 | 0.5 | 0.02 | 5.24 | 1.54 | 1.01 | | |
| | LSD P > | 0.4404 ns | 0.7364 ns | 0.0567 ns | 0.0000 ns | 0.0037* | 0.0041* | 0.1926 ns | | |
| | CV | 4.68 | 12.84 | 8.56 | 1.11 | 4.02 | 4.68 | 9.41 | | |
| Averages | F Test | 0.99 | 0.43 | 3.66 | 62.77 | 9.55 | 9.29 | 1.95 | | |
| Estimated | Bales/A | | | | | | | | | |
| 2.78 | D&PL 555 | 3898.6 | 40.8 | 3.6 | 1.2 | 78.7 | 19.8 | 6.4 | 1589.56 | 3.31 a |
| 2.88 | D&PL 488 | 4034.7 | 42.1 | 3.4 | 1.2 | 81.4 | 22.0 | 7.1 | 1696.74 | 3.53 a |
| 2.74 | Stoneville 5599 | 3829.4 | 44.9 | 3.7 | 1.1 | 77.4 | 21.6 | 6.3 | 1720.91 | 3.59 a |
| 2.85 | Stoneville 5242 | 3988.0 | 41.8 | 4.1 | 1.1 | 88.7 | 18.9 | 7.0 | 1667.29 | 3.47 a |

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Keith Deputy

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Trial Description

| | | | | | | | | | |
|----------------------------|-------------|----------------------------|---------------|-----------------|----------|--|------|------|------|
| Year of Harvest (yyyy) | 2004 | Country | United States | State/Province | NM | Study Design (number of replications): | | | |
| Special Test (Describe) | Pima trial. | | | County/Area | Dona Ana | Replicated Within Site | | 4 | |
| Soil Name & Texture | clay loam | Soil Depth (inches) | | Longitude | | Replicated Across Sites | | | |
| Planting (mm/dd/yy) | 5/1/2004 | Harvest Date(s) (mm/dd/yy) | 11/11/2004 | Latitude | | | | | |
| Herbicides/Insecticides | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | | type | lb/a | type | lb/a |

| | | | | | | | | | | | | |
|---------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|
| | January | February | March | April | May | June | July | August | September | October | November | December |
| Temperature (deg F) | | | | | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | |
| Rain (inches) | | | | | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | |
| Irrigation (inches) | | | | | | | | | | | | |

| | | | | | |
|--|--|--|------|------------------|------|
| Plant Population (number or pounds per acre) | 52323 | Row Spacing (inches - enter '0' for broadcast) | 40.0 | Total Rain | 5.60 |
| Unusual Conditions (or 'none') | Soil crusting right at emergence but was lightly tilled to break soil sealing. | | | Total Irrigation | |

Results

| Brand/Company | | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronair | Length Inches | Uniformity | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a | |
|---------------|-----------|---------------------|---------------|-----------|-----------|---------------|------------|--------------|--------------|------------------|---------------|--------|
| | | Trial Mean | 3089.8 | 47.2 | 5.0 | 1.4 | 98.2 | 32.1 | 7.4 | | | |
| | | LSD | 197.83 | 1.81 | 0.43 | 0.1 | 9.74 | 4.92 | 1.51 | | | |
| | | LSD P > | 0.0000* | 0.0516 ns | 0.0322* | 0.6668 ns | 0.4156 ns | 0.6166 ns | 0.2275 ns | | | |
| | | CV | 4 | 2.4 | 5.38 | 4.18 | 6.2 | 9.57 | 12.73 | | | |
| Averages | Estimated | Bales/A | F Test | 34.25 | 3.81 | 4.61 | 0.54 | 1.05 | 0.63 | 1.74 | | |
| | 2.15 | Phytogen | 744 | 3014.0 | 48.3 | 5.3 | 1.4 | 96.9 | 33.4 | 7.3 | 1456.87 | 3.04 b |
| | 2.14 | Phytogen | 800 | 2993.0 | 47.3 | 4.8 | 1.5 | 99.5 | 32.7 | 7.5 | 1414.27 | 2.95 b |
| | 2.57 | D&PL | 340 | 3602.0 | 47.6 | 4.7 | 1.4 | 94.6 | 30.6 | 6.8 | 1713.41 | 3.57 a |
| | 1.96 | Phytogen | 76 | 2750.0 | 45.7 | 5.1 | 1.4 | 101.8 | 31.7 | 8.3 | 1256.93 | 2.62 c |

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Keith Deputy

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Trial Description

| | | | | | | | | | | | | |
|--|--|----------------------------|--|-------|----------------|------------|--|--------|-----------|---------|------------------|----------|
| Year of Harvest (yyyy) | 2004 | Country | United States | | State/Province | NM | Study Design (number of replications): | | | | | |
| Special Test (Describe) | Acala trial. | | | | County/Area | Dona Ana | Replicated Within Site | | | | | 4 |
| Soil Name & Texture | sandy clay loam | | Soil Depth (inches) | | Longitude | | Replicated Across Sites | | | | | |
| Planting (mm/dd/yy) | 5/5/2004 | Harvest Date(s) (mm/dd/yy) | 12/22/2004 | | Latitude | | | | | | | |
| Herbicides/Insecticides | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | | (P2O5) | | (K2O) | | Other (specify) | | | | | |
| | | | | | | | | type | lb/a | type | lb/a | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | 44.3 |
| Irrigation (inches) | | | | | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | 0.0 |
| Plant Population (number or pounds per acre) | 78428 | | Row Spacing (inches - enter '0' for broadcast) | 40.0 | | Total Rain | | | | | 5.60 | |
| Unusual Conditions (or 'none') | Soil crusting right at emergence but was lightly tilled to break soil sealing. | | | | | | | | | | Total Irrigation | |

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a |
|--------------------|---------------------|-------------|-----------|------------|---------------|------------|--------------|--------------|------------------|---------------|
| | | | | | | | | | | |
| | Trial Mean | 4408.0 | 42.4 | 4.5 | 1.2 | 89.1 | 23.4 | 8.2 | | |
| | LSD | 469.8 | 1.65 | 0.69 | 0.05 | 10.57 | 1.75 | 1.17 | | |
| | LSD P > | 0.4155 ns | 0.1794 ns | 0.9574 ns | 0.0151* | 0.1230 ns | 0.5661 ns | 0.1368 ns | | |
| | CV | 6.66 | 2.43 | 9.61 | 2.42 | 7.42 | 4.69 | 8.87 | | |
| | F Test | 1.05 | 2.04 | 0.1 | 6.08 | 2.53 | 0.72 | 2.39 | | |
| Phytogen | 72 | 4403.8 | 42.3 | 4.6 | 1.2 | 85.4 | 23.6 | 8.0 | 1864.96 | 3.89 a |
| Phytogen | 78 | 4449.8 | 42.7 | 4.5 | 1.2 | 87.4 | 22.7 | 8.3 | 1900.60 | 3.96 a |
| Phytogen | 710 | 4570.5 | 43.1 | 4.5 | 1.2 | 96.9 | 23.7 | 9.0 | 1970.30 | 4.10 a |
| NM Acala | 1517-99 | 4208.0 | 41.4 | 4.4 | 1.3 | 86.8 | 23.4 | 7.7 | 1741.80 | 3.63 a |

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Trial Description

Year of Harvest (yyyy) 2004 Country United States State/Province NM Study Design (number of replications):
 Special Test (Describe) Stacked gene cotton trial--Upland County/Area Dona Ana Replicated Within Site 4
 Soil Name & Texture clay loam Soil Depth (inches) Longitude Replicated Across Sites
 Latitude
 Planting (mm/dd/yy) 5/6/2004 Harvest Date(s) (mm/dd/yy) 12/11/2004
 Herbicides/Insecticides
 Fertilizer Applied (lb/a): Nitrogen (P2O5) (K20) Other (specify) type lb/a type lb/a
 Temperature (deg F) January February March April May June July August September October November December
 Rain (inches) 71.6 78.0 75.7 75.4 69.6 62.6 48.5 44.3
 Irrigation (inches) 0.10 0.40 1.30 2.90 0.90 0.0 0.0 0.0
 Plant Population (number or pounds per acre) 65368 Row Spacing (inches - enter '0' for broadcast) 40.0 Total Rain 5.60
 Unusual Conditions (or 'none') Soil crusting right at emergence but was lightly tilled to break soil sealing. Total Irrigation

Results

| Brand/Co mpany Name | Hybrid/Variety Name | Yield lbs/a | Lint % % | Micronair | Length Inches | Uniformit | Strength HVI | Elongation % |
|---------------------------|------------------------|----------------|-------------|-----------|------------------|-----------|-----------------|-----------------|
| | Trial Mean | 2931.2 | 42.1 | 4.0 | 1.1 | 80.1 | 21.4 | 6.6 |
| | LSD | 153.48 | 1.72 | 0.61 | 0.07 | 5.61 | 3.23 | 0.75 |
| | LSD P > | 0.0018* | 0.2452 ns | 0.9652 ns | 0.9301 ns | 0.7357 ns | 0.6890 ns | 0.6546 ns |
| | CV | 3.47 | 2.7 | 10.23 | 3.81 | 4.65 | 10.03 | 7.59 |
| | F Test | 6.7 | 1.51 | 0.18 | 0.26 | 0.55 | 0.62 | 0.67 |

Averages Estimated Bales/A

| | Yield lint lbs/a | Yield bales/a |
|--------------------------|---------------------|------------------|
| 2.15 Stoneville 4892 BR | 3010.0 | 2.60 a |
| 2.10 Stoneville 4646 B2R | 2941.3 | 2.62 ab |
| 2.17 FiberMax 960 BR | 3031.5 | 2.65 a |
| 2.19 FiberMax 989 BR | 3061.6 | 2.75 a |
| 2.00 FiberMax 991 BR | 2806.6 | 2.46 bc |
| 1.95 FiberMax 800 BR | 2736.4 | 2.36 c |

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Trial Description

Year of Harvest (yyyy) 2004 Country United States State/Province NM Study Design (number of replications):
 Special Test (Describe) Stacked gene cotton trial--Upland near private school. County/Area Dona Ana Replicated Within Site 3
 Soil Name & Texture clay loam Soil Depth (inches) Longitude Replicated Across Sites
 Latitude
 Planting (mm/dd/yy) 5/7/2004 Harvest Date(s) (mm/dd/yy) 10/30/2004
 Herbicides/Insecticides
 Fertilizer Applied (lb/a): Nitrogen (P2O5) (K20) Other (specify) type lb/a type lb/a
 Temperature (deg F) January February March April May June July August September October November December
 Rain (inches) 71.6 78.0 75.7 75.4 69.6 62.6
 Irrigation (inches) 0.10 0.40 1.30 2.90 0.90 0.0
 Plant Population (number or pounds per acre) 52324 Row Spacing (inches - enter '0' for broadcast) 40.0 Total Rain 5.60
 Unusual Conditions (or 'none') Soil crusting right at emergence but was lightly tilled to break soil sealing. Total Irrigation

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronair | Length Inches | Uniformit | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a | |
|--------------------|---------------------|-------------|-----------|-----------|---------------|-----------|--------------|--------------|------------------|---------------|--------|
| | Trial Mean | 4167.5 | 43.8 | 3.4 | 1.1 | 81.4 | 21.9 | 6.5 | | | |
| | LSD | 547.83 | 3.19 | 0.41 | 0.07 | 5.97 | 2.38 | 0.92 | | | |
| | LSD P > | 0.3810 ns | 0.2767 ns | 0.1009 ns | 0.5518 ns | 0.5719 ns | 0.1040 ns | 0.1992 ns | | | |
| | CV | 7.23 | 4.01 | 6.62 | 3.13 | 4.03 | 5.97 | 7.82 | | | |
| Averages | Estimated Bales/A | F Test | 1.19 | 1.49 | 2.51 | 0.84 | 0.8 | 2.48 | 1.81 | | |
| 3.13 | Stoneville | 4892 BR | 4376.4 | 43.1 | 3.4 | 1.2 | 81.7 | 23.3 | 6.2 | 1887.64 | 3.93 a |
| 2.95 | Stoneville | 4646 B2R | 4132.0 | 43.0 | 3.1 | 1.2 | 79.8 | 21.8 | 6.0 | 1776.38 | 3.70 a |
| 2.83 | FiberMax | 960 BR | 3968.4 | 44.2 | 3.5 | 1.1 | 81.4 | 21.3 | 7.0 | 1753.23 | 3.65 a |
| 3.11 | FiberMax | 989 BR | 4359.0 | 46.1 | 3.8 | 1.1 | 84.4 | 20.8 | 6.8 | 2008.06 | 4.18 a |
| 3.02 | FiberMax | 991 BR | 4233.5 | 42.7 | 3.3 | 1.2 | 81.5 | 23.5 | 6.7 | 1806.92 | 3.76 a |
| 2.81 | D&PL | 555 BG/RR | 3935.6 | 43.9 | 3.3 | 1.2 | 79.8 | 20.9 | 6.3 | 1727.96 | 3.60 a |

New Mexico 2004 Cotton Variety Trial Results - Dona Ana County, Keith Deputy

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Trial Description

| | | | | | | | | | | | | |
|----------------------------|---|----------------------------|---------------------|-----------------|-------------------------|--|------|--------|-----------|---------|----------|----------|
| Year of Harvest (yyyy) | 2004 | Country | United States | State/Province | NM | Study Design (number of replications): | | | | | | |
| Special Test (Describe) | Stacked gene cotton trial--Upland early maturity. | | | County/Area | Dona Ana | Replicated Within Site | | 4 | | | | |
| Soil Name & Texture | clay loam | | Soil Depth (inches) | Longitude | Replicated Across Sites | | | | | | | |
| Planting (mm/dd/yy) | 5/10/2004 | Harvest Date(s) (mm/dd/yy) | 11/6/2004 | Latitude | | | | | | | | |
| Herbicides/Insecticides | | | | | | | | | | | | |
| Fertilizer Applied (lb/a): | Nitrogen | (P2O5) | (K2O) | Other (specify) | type | lb/a | type | lb/a | | | | |
| Temperature (deg F) | January | February | March | April | May | June | July | August | September | October | November | December |
| Rain (inches) | | | | | 71.6 | 78.0 | 75.7 | 75.4 | 69.6 | 62.6 | 48.5 | |
| Irrigation (inches) | | | | | 0.10 | 0.40 | 1.30 | 2.90 | 0.90 | 0.0 | 0.0 | |

Plant Population (number or pounds per acre) 52324 Row Spacing (inches - enter '0' for broadcast) 40.0 Total Rain 5.60
 Unusual Conditions (or 'none') Soil crusting right at emergence but was lightly tilled to break soil sealing. Total Irrigation

Results

| Brand/Company Name | Hybrid/Variety Name | Yield lbs/a | Lint % | Micronaire | Length Inches | Uniformity | Strength HVI | Elongation % | Yield lint lbs/a | Yield bales/a | |
|--------------------|---------------------|-------------|---------|------------|---------------|------------|--------------|--------------|------------------|---------------|--------|
| | Trial Mean | 3879.4 | 41.6 | 4.0 | 1.2 | 87.0 | 20.8 | 6.8 | | | |
| | LSD | 162.43 | 1.96 | 0.69 | 0.07 | 6.3 | 2.78 | 0.94 | | | |
| | LSD P > | 0.0198* | 0.0003* | 0.7094 ns | 0.6236 ns | 0.1023 ns | 0.0716 ns | 0.9476 ns | | | |
| | CV | 2.78 | 3.12 | 11.55 | 3.89 | 4.8 | 8.85 | 9.17 | | | |
| Averages | F Test | 3.82 | 9.59 | 0.59 | 0.71 | 2.25 | 2.57 | 0.22 | | | |
| 2.80 | D&PL | 444 | 3916.3 | 43.5 | 3.7 | 1.2 | 90.9 | 20.9 | 6.6 | 1703.14 | 3.55 a |
| 2.80 | D&PL | 424 | 3919.7 | 38.3 | 4.1 | 1.2 | 85.8 | 19.2 | 6.9 | 1500.42 | 3.13 a |
| 2.81 | D&PL | 449 | 3927.5 | 40.5 | 4.0 | 1.2 | 82.7 | 22.1 | 6.8 | 1591.78 | 3.32 a |
| 2.80 | D&PL | DPLX01W93 | 3917.4 | 43.2 | 4.2 | 1.2 | 85.7 | 22.2 | 6.6 | 1694.29 | 3.53 a |
| 2.62 | D&PL | DPLX02X39 | 3664.9 | 42.8 | 3.9 | 1.2 | 86.6 | 21.8 | 6.8 | 1569.78 | 3.27 b |
| 2.81 | D&PL | SG 215 | 3930.8 | 41.1 | 4.0 | 1.1 | 90.5 | 18.8 | 7.0 | 1615.53 | 3.37 a |

Thanks to the cooperators for these farmer trials in New Mexico and thanks to the seed and chemical companies cooperating with the projects including:

Delta & Pine Land

FiberMax

Phytogen

Stoneville

Agrivert with Chaperone

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