

New Mexico 2016 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

| Brand/Company Name | Hybrid/Variety Name | Sorghum Type | Maturity Group | Moisture | | | CP | NDF | NDFD 48hr | Ash | TDN | NE ₁ | Milk/Ton | Milk/Acre |
|--------------------|-----------------------|--------------|----------------|------------|--------------|------------|--------|--------|-----------|--------|---------|-----------------|----------|-----------|
| | | | | Dry Forage | Green Forage | at Harvest | | | | | | | | |
| | | | | t/a | t/a | % | % | % | % | % | Mcal/lb | lb/t | lb/a | |
| Gayland Ward Seed | Ensile Master | Conv | ML | 4.2 | 14.1 | 70.6 | 8.3 | 51.0 | 63.0 | 5.0 | 58.1 | 0.591 | 2627 | 10892 |
| CPS Dyna-Gro Seed | F73FS10 | Conv | M | 3.9 | 13.3 | 70.5 | 9.0 | 50.5 | 60.6 | 5.3 | 57.9 | 0.589 | 2589 | 10160 |
| Blue River Hybrids | Blackhawk | BMR | ML | 3.5 | 13.0 | 72.9 | 9.5 | 54.1 | 67.9 | 6.0 | 61.3 | 0.627 | 2896 | 10313 |
| CHS Seed Resources | HighYield Conv | Conv | L | 3.5 | 12.2 | 71.5 | 8.1 | 53.0 | 60.3 | 5.3 | 56.5 | 0.574 | 2489 | 8678 |
| CHS Seed Resources | SiloSorghum Conv | Conv | L | 3.2 | 11.1 | 71.6 | 9.8 | 50.5 | 61.8 | 5.8 | 60.0 | 0.613 | 2756 | 8693 |
| CPS Dyna-Gro Seed | 705F | Conv | ME | 3.1 | 10.7 | 70.8 | 9.6 | 50.1 | 63.4 | 5.6 | 61.0 | 0.623 | 2839 | 8870 |
| Gayland Ward Seed | Super Sugar DM | Conv | L | 3.0 | 10.6 | 71.3 | 8.8 | 54.2 | 61.7 | 5.6 | 58.5 | 0.595 | 2645 | 8056 |
| CHS Seed Resources | HighYield BMR PS | BMR | L (PPS) | 2.8 | 12.3 | 77.4 | 9.8 | 55.6 | 72.6 | 6.5 | 62.4 | 0.639 | 3011 | 8342 |
| CHS Seed Resources | HighYield BMR Dwarf | BMR | ME | 2.8 | 9.9 | 72.0 | 9.1 | 49.7 | 70.6 | 5.3 | 66.9 | 0.689 | 3317 | 9140 |
| CHS Seed Resources | SiloSorghum BMR MS | BMR | L | 2.7 | 10.9 | 75.2 | 9.6 | 52.7 | 71.8 | 6.2 | 61.1 | 0.625 | 2913 | 7886 |
| Gayland Ward Seed | Sweet Forever BMR | BMR | PS | 2.7 | 10.3 | 73.7 | 8.9 | 55.8 | 67.9 | 5.5 | 61.2 | 0.626 | 2887 | 7775 |
| Gayland Ward Seed | GW 400 BMR | BMR | ME | 2.6 | 10.1 | 73.9 | 9.0 | 46.3 | 65.9 | 6.0 | 57.9 | 0.589 | 2636 | 6939 |
| CHS Seed Resources | HighYield BMR | BMR | L | 2.6 | 10.3 | 75.0 | 10.5 | 52.6 | 68.7 | 6.5 | 59.7 | 0.609 | 2788 | 7166 |
| Gayland Ward Seed | GW 2120 | Conv | M | 2.4 | 9.4 | 74.0 | 9.2 | 50.0 | 62.8 | 5.7 | 60.0 | 0.612 | 2759 | 6723 |
| Blue River Hybrids | Nighthawk | BMR | E | 2.0 | 8.0 | 75.2 | 11.9 | 52.9 | 68.4 | 7.2 | 59.4 | 0.605 | 2762 | 5473 |
| CHS Seed Resources | SiloSorghum BMR Dwarf | BMR | L | 2.0 | 7.3 | 72.9 | 10.2 | 53.3 | 68.8 | 5.7 | 60.1 | 0.614 | 2819 | 5518 |
| Trial Mean | | | | 2.9 | 10.8 | 73.0 | 9.4 | 52.0 | 66.0 | 5.82 | 60.1 | 0.613 | 2796 | 8163 |
| LSD | | | | 0.7 | 2.4 | 2.2 | 0.93 | 3.8 | 2.63 | 0.84 | 2.25 | 0.025 | 173 | 2071 |
| LSD P > | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.050 | 0 | 0.05 |
| CV | | | | 14.8 | 13.2 | 1.8 | 5.9 | 4.4 | 2.4 | 8.6 | 2.2 | 2.4 | 4 | 15.2 |
| F Test | | | | <.0001 | <.0001 | <.0001 | 0.0169 | 0.0015 | 0.9685 | 0.0009 | <.0001 | <.0001 | <.0001 | <.0001 |

New Mexico 2015 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: A. Mesbah, A. Scott, and B. Niece

Test Description

| Location: | Management Practices: | Growing Conditions: |
|----------------------------|---|------------------------------------|
| County/Area: Curry | Previous Crop: fallow | |
| Longitude: -103.22 | Planting Date: 21-Jun | |
| Latitude: 34.60 | Harvest Date: 20-Oct | |
| Elevation: 4435 ft. | | |
| Soil Name: Olton | | |
| Soil Texture: clay loam | | |
| Soil Depth: >60 in. | | |
| | Production Inputs | |
| | <u>Rate</u> <u>Date</u> | |
| | Fertilizer: | |
| | carryover 10 lb/a carryover | |
| | Nitrogen 21 lb/ac 6-May | |
| | P ₂ O ₅ 20 lb/ac 6-May | |
| | S 2.8 lb/ac 6-May | |
| | Zn 1 qt/ac 6-May | |
| | Nitrogen 60 lb/ac 24-Jun | |
| | S 11 lb/ac 24-Jun | |
| | Herbicides: | |
| | Atrazine 1.5 pt/ac 24-Jun | |
| | Glyphosate 32 oz/ac 24-Jun | |
| | Sharpen 2 oz/ac 24-Jun | |
| | Yukon 4 oz/ac 13-Jul | |
| | Atrazine 8 oz/ac 13-Jul | |
| | Brox 8 oz/ac 13-Jul | |
| | Insecticides: | |
| | Sivanto 7 oz/ac 8-Sep | |
| Test Design: | | |
| Replications: 3 | | |
| Plot Length: 20 ft. | | |
| Rows per Plot: 2 | | |
| Row Spacing: 30 in. | | |
| Seeding Rate: 50000 seed/a | | |
| | | Average |
| | | Temp. Precip. Irrigation |
| | | °F in. in. |
| | | January 35.8 |
| | | February 42.8 |
| | | March 49.3 |
| | | April 53.6 |
| | | May 59.9 |
| | | June 72.8 4.26 |
| | | July 78.5 0.48 |
| | | August 73.0 3.25 |
| | | September 67.0 2.05 |
| | | October 61.5 0.01 |
| | | November |
| | | December |
| | | Seasonal Precipitation: 10.1 in. |
| | | Total Irrigation: 0.0 in. |
| | | Date of Last Spring Frost: 3-May |
| | | Date of First Fall Frost: 6-Nov |
| | | Frost Free Period: 178 days |