



2022 Irrigated Grain Sorghum Hybrid Performance Trial at Brush

| Brand | Hybrid | Grain | | Test | | Emergent Plant | | Maturity Group ^b | Grain Color |
|------------------|-------------|-----------------------------|-------------------------|-----------------|---------------------|-------------------------|-------------------------------------|-----------------------------|-------------|
| | | Yield ^a bu/ac | Yield % of test avg. | Weight lb/bu | Moisture percent | Population plants/ac | 50% Maturity days after planting | | |
| Dyna-Gro Seed | M59GB94 | 148.2 | 132% | 61 | 14 | 53,100 | 115 | E | Bronze |
| Channel | 6B02 | 130.2 | 116% | 60 | 14 | 63,500 | 116 | ME | Bronze |
| Alta Seed | ADV G1120IG | 125.1 | 111% | 59 | 16 | 34,000 | 119 | ME | Red |
| Dyna-Gro Seed | M60GB31 | 123.0 | 109% | 60 | 15 | 58,800 | 117 | ME | Bronze |
| Alta Seed | AG1201 | 120.0 | 107% | 58 | 13 | 54,700 | 109 | E | Red |
| Dyna-Gro Seed | GX22923 | 120.0 | 107% | 59 | 13 | 59,900 | 114 | E | Cream |
| Channel | 5R45 | 119.7 | 106% | 59 | 14 | 40,700 | 112 | ME | Red |
| Sorghum Partners | SP 30A30 DT | 115.8 | 103% | 60 | 15 | 43,300 | 117 | ME | Bronze |
| Sorghum Partners | SP 45A45 DT | 115.8 | 103% | 60 | 15 | 46,300 | 118 | ME | Bronze |
| Dekalb | DKS29-95 | 114.9 | 102% | 60 | 13 | 53,300 | 111 | E | Dark Red |
| Dyna-Gro Seed | M59GB57 | 113.1 | 101% | 59 | 13 | 58,800 | 109 | E | Bronze |
| Sorghum Partners | SP 43M80 | 111.0 | 99% | 61 | 15 | 55,900 | 115 | ME | Bronze |
| Alta Seed | ADV G1329 | 108.0 | 96% | 59 | 12 | 51,500 | 111 | E | Cream |
| Dyna-Gro Seed | M54GR24 | 107.1 | 95% | 59 | 14 | 54,200 | 108 | E | Red |
| Sorghum Partners | SP 31A15 | 104.1 | 93% | 59 | 12 | 55,500 | 111 | ME | Bronze |
| Dyna-Gro Seed | M57GC29 | 103.8 | 92% | 59 | 12 | 46,000 | 109 | E | Cream |
| Sorghum Partners | SP 25C10 | 98.4 | 87% | 59 | 11 | 56,000 | 107 | E | Cream |
| Sorghum Partners | 251 | 81.0 | 72% | 58 | 11 | 50,000 | 104 | E | Red |
| Alta Seed | ADV XG272 | 77.7 | 69% | 59 | 17 | 36,800 | 119 | ME | Bronze |
| Average | | 112.5 | 100% | 59 | 14 | 51,200 | 113 | | |
| °LSD (.30) | | 10 | | | | | | | |
| °LSD (.05) | | 19 | | | | | | | |

^aYields adjusted to 14% moisture and hybrids ranked by yield. Hybrid yields in bold are in the top LSD group (.30).

^bMaturity group: E=early; ME=medium-early. Maturity groups are provided by the company and may not align with the observed flowering dates in the trial due to the latitude and relatively high elevation of the trial site (3,990 feet).

^cFarmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same).

Site Information

| | |
|------------------|---|
| Collaborator: | RM Bar Farms |
| Planting Date: | May 16, 2022 |
| Harvest Date: | October 14, 2022 |
| Herbicide: | Information will be added soon |
| Previous Crop: | Winter wheat |
| Soil Type: | Heldt clay |
| GPS Coordinates: | 40.31427, -103.57654 |
| Trial Comments: | Trial planted into irrigated wheat stubble. Excellent emergence and stands. Leaf shredding from hail received in July prior to the boot stage. Excellent weed control throughout the season. Some early maturity hybrids reached black-layer (maturity) the week of August 29th. Radar estimates showed the trial received about 9 inches of rain from planting to harvest (in addition to full irrigation) and 11.5 inches since January 1st, which is 74% of the ten-year average (year-to-date). |

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