



2021 Dryland Grain Sorghum Hybrid
Performance Trial at Walsh

| Source | Hybrid | Grain Yield ^a bu/ac | Yield % of test avg. | Test Weight lb/bu | Plant Lodging % | Plant Population ^b plants/ac thousand | Plant Height in | 50% Bloom days after planting | GDD ^c | 50% Mature days after planting | Maturity Group ^d | Grain Color |
|--------------------------|----------|-----------------------------------|-------------------------|----------------------|--------------------|---|--------------------|----------------------------------|------------------|-----------------------------------|-----------------------------|-------------|
| Dyna-Gro Seed | M59GB94 | 56 | 137 | 60 | 4 | 32.2 | 42 | 65 | 1710 | 111 | ME/E | Bronze |
| Dekalb | DKS36-07 | 53 | 131 | 58 | 5 | 36.4 | 40 | 67 | 1769 | 113 | ME | Bronze |
| Sorghum Partners | SP 43M80 | 51 | 125 | 60 | 2 | 30.2 | 42 | 66 | 1740 | 111 | ME | Bronze |
| Hoegemeyer Seed | H6064 | 49 | 120 | 58 | 24 | 33.0 | 36 | 74 | 1948 | 119 | M | Bronze |
| Sorghum Partners | SP 31A15 | 48 | 118 | 59 | 6 | 36.4 | 34 | 64 | 1682 | 108 | ME | Bronze |
| Warner Seeds, Inc. | W5716 | 48 | 117 | 60 | 2 | 32.0 | 35 | 75 | 1973 | 119 | M/E | Red |
| S&W Seed | SWGS9011 | 47 | 117 | 60 | 6 | 31.8 | 38 | 65 | 1710 | 109 | ME | Bronze |
| Sorghum Partners | KS310 | 44 | 107 | 60 | 2 | 29.8 | 39 | 64 | 1682 | 108 | ME | Bronze |
| Dyna-Gro Seed | GX20973 | 43 | 106 | 60 | 35 | 33.2 | 43 | 67 | 1769 | 113 | ME | Bronze |
| Dyna-Gro Seed | M60GB88 | 42 | 103 | 59 | 12 | 33.2 | 41 | 66 | 1740 | 110 | ME | Bronze |
| Channel Seed | 5C76 | 42 | 103 | 59 | 14 | 33.8 | 38 | 68 | 1790 | 113 | ME | Cream |
| Hoegemeyer Seed | H6020 | 42 | 103 | 59 | 29 | 33.8 | 40 | 61 | 1597 | 107 | E/ME | Red |
| Dekalb | DKS29-28 | 41 | 102 | 59 | 9 | 38.2 | 33 | 61 | 1597 | 106 | E | Bronze |
| S&W Seed | SWGS3183 | 41 | 100 | 60 | 1 | 33.8 | 42 | 67 | 1769 | 113 | ME/M | Bronze |
| Channel Seed | 5B27 | 40 | 100 | 59 | 10 | 31.0 | 36 | 54 | 1438 | 97 | E/ME | Red |
| Dyna-Gro Seed | M59GB57 | 40 | 98 | 58 | 19 | 31.6 | 37 | 57 | 1503 | 103 | E | Bronze |
| Dekalb | DKS28-05 | 39 | 97 | 58 | 34 | 37.2 | 37 | 59 | 1543 | 104 | E | Bronze |
| Dekalb | DKS29-95 | 39 | 97 | 58 | 6 | 35.6 | 39 | 64 | 1682 | 108 | ME/E | Dark Red |
| S&W Seed | SWGS3001 | 38 | 92 | 59 | 7 | 28.0 | 36 | 63 | 1651 | 108 | ME | Bronze |
| Dyna-Gro Seed | M60GB31 | 36 | 88 | 59 | 2 | 27.6 | 35 | 77 | 2028 | 121 | M/ME | Bronze |
| Dyna-Gro Seed | M54GR24 | 36 | 88 | 59 | 5 | 33.2 | 39 | 62 | 1625 | 106 | E | Red |
| Hoegemeyer Seed | H6037 | 36 | 88 | 59 | 27 | 30.6 | 37 | 61 | 1597 | 106 | E/ME | Red |
| Dekalb | DKS27-80 | 34 | 84 | 60 | 9 | 35.6 | 41 | 57 | 1503 | 102 | E | Bronze |
| Dyna-Gro Seed | M63GB78 | 34 | 83 | 58 | 9 | 30.2 | 31 | 75 | 1973 | 119 | M/ME | Bronze |
| Hoegemeyer Seed | H6041 | 33 | 82 | 59 | 39 | 31.0 | 43 | 59 | 1543 | 103 | E/ME | Cream |
| Sorghum Partners | SP 25C10 | 30 | 74 | 59 | 4 | 30.6 | 37 | 56 | 1482 | 97 | E | Cream |
| Sorghum Partners | 251 | 30 | 74 | 59 | 13 | 29.4 | 35 | 55 | 1465 | 97 | E | Red |
| Warner Seeds, Inc. | W5916 | 26 | 64 | 59 | 0 | 39.6 | 36 | 90 | 2398 | 126 | L/ME | Orange |
| Average | | 41 | | 59 | 12 | 32.8 | 38 | 65 | 1711 | 109 | ME | |
| ^a LSD (P<0.2) | | 12 | | | 3 | | | | | | | |

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

^bPlant population taken after final stand. Main plants only, does not include tillers.

^cGDD: Sorghum growing degree days to 50% bloom date.

^dMaturity Group: E=early; ME=medium-early; M=medium; ML=medium late; L=late. Maturity groupings with two classes are trial observation/seed company description.

^eThe LSD can be used to judge whether the observed difference between any two entries is meaningful. The LSD (P<0.2) means there is a 20% chance that the observed difference between two entries as great or greater than the LSD are not different, but due to random error instead.

Site Information

Collaborator: Plainsman Research Center (Kevin Larson & Brett Pettinger)
 Planting Date: June 7, 2021
 Harvest Date: October 19, 2021
 Previous Crop: Wheat
 Herbicide: Preemergence: Flumioxazin at 2.5 oz/ac; Atrazine at 1.0 lb/ac, Mesotrione at 6.4 oz/ac; and Metolachlor at 1.33 pts/ac; Post emergence: 2,4-D amine at 12 oz/ac.
 Fertilizer: Anhydrous N at 60 lb/ac and 10-34-0 at 5 gal/ac (20 lb P2O5/ac, 6 lb N/ac) was strip till applied.
 Soil Type: Richfield silt loam
 Comments: Planted into strip tilled wheat stubble. Rapid emergence and good stands. From planting (June 7) to Aug. 1, the trial received 6.49 inches of rain. The rest of the growing season was dry, totaling 1.54 inches of rain from Aug. 2 to October 16 (first freeze). Weed control was good. Some, mostly minor, lodging noted at harvest.

The data included in this table may not be republished without permission. Contact Kevin Larson at kevin.larson@colostate.edu or Sally Jones-Diamond at sally.jones@colostate.edu.