

2019 Dryland Grain Sorghum Hybrid Performance Trial at Sheridan Lake

| Brand | Hybrid | Grain Yield ^a | Yield | Test Weight | Emerged Plant Population | Harvest Population ^b | Tillering ^c | Plant Height | 50% Bloom | Lodging | Maturity Group ^d | Grain Color |
|-------------------|-------------|--------------------------|----------------|-------------|--------------------------|---------------------------------|------------------------|--------------|---------------------|-----------|-----------------------------|-------------|
| | | bu/ac | % of test avg. | lb/bu | plants/ac | heads/ac | heads/plant | in | days after planting | percent | | |
| Golden Acres | 2840B | 120.3 | 126% | 61.1 | 23,377 | 62,436 | 1.7 | 57 | 65 | 20 | ME | Bronze |
| Dekalb | DKS33-07 | 115.8 | 122% | 59.2 | 24,394 | 82,474 | 2.4 | 51 | 68 | 0 | M | Bronze |
| Pioneer | 87P06 | 114.4 | 120% | 60.1 | 27,443 | 81,022 | 2.0 | 45 | 57 | 0 | E | Bronze |
| Sorghum Partners | SP 31A15 | 114.2 | 120% | 56.0 | 23,813 | 60,113 | 1.5 | 50 | 65 | 0 | ME | Bronze |
| Gayland Ward Seed | 18057 | 107.2 | 113% | 60.0 | 23,232 | 67,373 | 1.9 | 54 | 64 | 40 | ME | Bronze |
| Dyna-Gro Seed | M60GB31 | 107.2 | 113% | 60.1 | 22,361 | 71,438 | 2.2 | 52 | 66 | 98 | M | Bronze |
| Dyna-Gro Seed | GX17912 | 106.6 | 112% | 57.5 | 26,136 | 78,698 | 2.0 | 50 | 60 | 0 | E | Cream |
| Warner Seed | W5911 | 105.6 | 111% | 60.1 | 24,394 | 57,209 | 1.3 | 52 | 66 | 30 | M | Bronze |
| Dyna-Gro Seed | M59GB94 | 105.5 | 111% | 58.7 | 23,958 | 67,954 | 1.8 | 54 | 66 | 83 | M | Bronze |
| Dyna-Gro Seed | M60GB88 | 105.3 | 111% | 59.1 | 23,813 | 59,822 | 1.5 | 54 | 64 | 0 | ME | Bronze |
| Dyna-Gro Seed | M54GR24 | 105.1 | 110% | 59.8 | 24,394 | 66,792 | 1.7 | 48 | 59 | 0 | E | Red |
| Dekalb | DKS29-28 | 102.5 | 108% | 59.5 | 24,103 | 70,277 | 1.9 | 42 | 56 | 0 | E | Bronze |
| Dyna-Gro Seed | M59GB57 | 100.4 | 106% | 58.3 | 23,813 | 72,890 | 2.1 | 43 | 57 | 0 | E | Bronze |
| Dekalb | DKS28-05 | 99.4 | 105% | 58.9 | 25,991 | 70,858 | 1.7 | 52 | 57 | 0 | E | Bronze |
| Sorghum Partners | SP 43M80 | 99.4 | 104% | 60.5 | 25,991 | 67,954 | 1.6 | 52 | 60 | 68 | E | Bronze |
| Dyna-Gro Seed | M57GB19 | 99.0 | 104% | 59.6 | 25,700 | 72,600 | 1.8 | 54 | 61 | 0 | ME | Bronze |
| Golden Acres | 2730B | 98.4 | 104% | 58.9 | 22,651 | 73,181 | 2.2 | 58 | 63 | 33 | ME | Bronze |
| Dyna-Gro Seed | M62GB77 | 98.4 | 103% | 60.4 | 23,087 | 61,565 | 1.7 | 53 | 64 | 95 | ME | Bronze |
| Dyna-Gro Seed | M57GC29 | 97.8 | 103% | 58.8 | 25,410 | 80,441 | 2.2 | 42 | 66 | 0 | M | Cream |
| Gayland Ward Seed | 19014 | 96.8 | 102% | 58.9 | 21,925 | 60,113 | 1.7 | 56 | 62 | 45 | ME | Bronze |
| Golden Acres | 2620C | 96.7 | 102% | 58.2 | 24,539 | 75,794 | 2.1 | 50 | 58 | 0 | E | Cream |
| Dyna-Gro Seed | GX18919 | 95.2 | 100% | 58.9 | 25,846 | 94,670 | 2.7 | 51 | 54 | 0 | VE | Cream |
| Dyna-Gro Seed | M69GB38 | 94.4 | 99% | 57.9 | 23,377 | 58,370 | 1.5 | 63 | 74 | 0 | ML | Bronze |
| Sorghum Partners | SP 33S40 | 89.2 | 94% | 59.6 | 22,651 | 67,082 | 2.0 | 55 | 61 | 0 | ME | Cream |
| Sorghum Partners | SP 25C10 | 79.7 | 84% | 59.7 | 21,635 | 68,825 | 2.2 | 44 | 55 | 0 | VE | Cream |
| Warner Seed | W5501 | 76.5 | 80% | 58.3 | 20,183 | 74,052 | 2.7 | 38 | 54 | 0 | VE | Bronze |
| Warner Seed | W5711 | 72.4 | 76% | 56.2 | 27,298 | 67,082 | 1.5 | 44 | 63 | 0 | ME | Bronze |
| Warner Seed | W5506 | 67.5 | 71% | 59.1 | 25,991 | 65,921 | 1.5 | 41 | 57 | 0 | E | Red |
| Alta Seeds | ADV XG009IG | 42.2 | 44% | 53.0 | 21,925 | 54,886 | 1.5 | 50 | 88 | 0 | L | Red |
| Alta Seeds | ADV XG390IG | 39.8 | 42% | 50.3 | 22,216 | 39,204 | 0.8 | 48 | 89 | 0 | L | Red |
| Average | | 95.1 | | 58.5 | 24,055 | 68,370 | 1.8 | 50 | 63 | 17 | | |

^aLSD (P<0.30)

7.9

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

^bTotal number of grain-producing heads/panicles taken at harvest, including tiller and main plant heads.

^cAverage number of productive (grain containing) tiller heads per plant. Does not include main plant head.

^dMaturity group: VE=very early; E=early; ME=medium-early; M=medium; ML=medium-late; L=Late. Groupings are based on trial observations in addition to company provided data.

^eIf the difference between two varieties yields equals or exceeds the LSD value, there is a 70% chance the difference is significant.

Site Information

Collaborator: Burl Scherler

Planting Date: June 20, 2019

Harvest Date: October 19, 2019

Fertilizer: Pre-plant: N at 55 lb/ac and S at 10 lb/ac; Planting: N at 5, P at 16, and Zn at 0.5 lb/ac

Herbicide: Pre-plant (fall '18): Flumioxazin at 2 oz/ac and atrazine at 1 lb/ac; Spring 2019: Flumioxazin at 1 oz/ac, and 2,4-D, glyphosate, and acetochlor at labeled rates.

Soil Type: Olney sandy loam

Trial Comments: Originally planted in late May but was sprayed out and replanted due to herbicide drift damage from adjacent field. Replanted into moisture and received ~0.5" of rain within two days. Consistent rain received throughout July and August, totaling about 3.5" in July (as 9 rain events) and 5.5" in August. About 0.75" of rain received in September through harvest in October. Killing freeze occurred on Oct. 6th. Upper leaves shredded from hail storm in early August, but no major damage. Some lodging noted at harvest.

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