



**2022 Dryland Grain Sorghum Hybrid
Performance Trial at Sheridan Lake**



Brand	Hybrid	Grain		3-Year Test			Emergent Plant		Harvest		Maturity Group ^d	Grain Color
		Yield ^a bu/ac	Yield % of test avg.	Avg. Yield bu/ac	Weight lb/bu	Moisture percent	Population plants/ac	Population ^b heads/ac	Tillering ^c tillers/plant	50% Bloom days after planting		
Dyna-Gro Seed	GX22916	66.0	136%	-	56	22	39,300	43,100	0.1	71	ME	Bronze
Dekalb	DKS29-95	59.7	123%	55	58	17	40,000	47,500	0.2	68	E	Dark Red
Dyna-Gro Seed	GX22923	58.5	120%	-	55	21	40,100	51,000	0.3	70	E	Cream
Dyna-Gro Seed	M60GB88	54.3	112%	56	58	18	40,700	45,100	0.1	70	ME	Bronze
Dyna-Gro Seed	M59GB94	53.7	110%	59	56	21	40,700	45,700	0.1	66	E	Bronze
Dekalb	DKS38-16	52.8	109%	-	58	21	40,500	49,900	0.2	68	ME	Bronze
Dekalb	DKS36-07	51.9	107%	-	56	22	43,800	44,900	0.0	70	ME	Bronze
Dyna-Gro Seed	M63GB78	51.9	107%	-	57	23	39,400	47,200	0.2	74	ME	Bronze
Sorghum Partners	SP 31A15	51.9	107%	54	57	16	42,300	45,000	0.1	67	ME	Bronze
Hoegemeyer Seed	H6037	51.0	105%	57	59	16	44,700	51,000	0.1	65	ME	Red
Sorghum Partners	SP 43M80	50.7	104%	56	58	20	45,000	45,200	0.0	67	ME	Bronze
Dyna-Gro Seed	M57GC29	50.1	103%	-	57	19	40,600	46,800	0.1	66	E	Cream
Dyna-Gro Seed	GX21991	49.5	102%	-	55	21	41,300	39,400	0.0	65	ME	Bronze
Hoegemeyer Seed	H6020	49.5	102%	61	58	20	37,500	42,900	0.1	63	ME	Red
Dyna-Gro Seed	M54GR24	48.6	100%	57	59	18	39,400	43,000	0.1	65	E	Red
Dyna-Gro Seed	M60GB31	48.6	100%	53	56	25	39,100	34,300	0.0	75	ME	Bronze
Sorghum Partners	SP 30A30 DT	48.6	100%	-	56	22	38,200	46,900	0.2	67	ME	Bronze
Dekalb	DKS28-05	48.0	99%	57	58	18	44,000	58,400	0.3	59	E	Bronze
Dekalb	DKS28-07	47.7	98%	-	57	18	44,300	51,400	0.2	63	E	Bronze
Dekalb	DKS29-28	45.6	94%	53	58	19	45,100	50,400	0.1	64	E	Bronze
Hoegemeyer Seed	H6041	45.6	94%	57	58	16	39,400	52,500	0.3	65	ME	Cream
Golden Acres	GA 2620C	45.3	93%	56	58	18	42,900	52,300	0.2	66	ME	Cream
Alta Seed	AG1201	44.7	92%	-	57	20	40,400	43,800	0.1	69	E	Red
Sorghum Partners	SP 45A45 DT	43.5	89%	-	57	22	42,800	56,500	0.3	67	ME	Bronze
Golden Acres	GA 2730B	42.9	88%	54	57	20	41,200	55,600	0.4	65	ME	Bronze
Dyna-Gro Seed	M59GB57	42.3	87%	53	57	19	41,000	46,400	0.1	62	E	Bronze
Golden Acres	GA 1510C	38.7	80%	53	56	23	41,000	46,300	0.1	69	E	Cream
Alta Seed	ADV G1120IG	20.7	43%	-	52	27	38,500	19,000	0.0	96	ME	Red
Average		48.7	100%	56	57	20	41,200	46,500	0.2	68		
¹LSD (.30)		5										
²LSD (.05)		10										

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

^bHarvest population is the total number of grain-producing heads/panicles counted at harvest that were mature, including tillers.

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

^dMaturity 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).

^eFarmers 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: Scherler Farms

Planting Date: May 31, 2022

Harvest Date: October 12, 2022

Fertilizer: Pre-plant: N at 50 lb/ac

Herbicide: Pre-plant (spring): s-metolachlor at 22 oz/ac and 2,4-D at labeled rate

Previous Crop: Failed winter wheat

Soil Type: Fort Collins sandy loam

GPS Coordinates: 38.53702, -102.43399

Trial Comments: Planted into good moisture and heavy wheat residue. Very good stands and emergence. Most plots flowered by the week of August 15th. Sandbur in the trial was sprayed on July 14th with a hooded sprayer. Moderate to heavy sandbur pressure was still present within crop rows, and especially in plots where plants did not canopy well. Hail damage caused minor leaf shredding in July. Trial was harvested before fall freeze, so grain moisture was higher than what is typical. Radar estimates showed the trial received about 11 inches of rain from planting to harvest, and 14.3 inches since January 1st, which is 96% of the ten-year average (year-to-date).

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