

## 2022 Dryland Grain Sorghum Hybrid Performance Trial at Walsh

Source	Hybrid	Grain		2-Year		Plant Lodging	Emerged		50% Bloom	GDD <sup>b</sup>	50% Mature	Maturity Group <sup>c</sup>	Grain Color
		Yield <sup>a</sup>	Yield	Average Yield	Test Weight		Plant Population	Plant Height					
		bu/ac	% of test average	bu/ac	lb/bu	percent	plants/ac	in	days after planting	days after planting			
Dekalb	DKS36-07	<b>93.4</b>	117	73	61	10	28,700	48	76	2199	124	ME	Bronze
Dyna-Gro Seed	GX21991	<b>90.1</b>	112	--	61	1	24,000	45	81	2302	129	M/ME	Bronze
Dyna-Gro Seed	M63GB78	<b>87.8</b>	110	61	60	4	25,600	48	82	2321	130	M/ME	Bronze
Dyna-Gro Seed	GX22923	<b>87.7</b>	109	--	61	7	21,700	46	77	2217	127	ME/E	Cream
Dekalb	DKS38-16	<b>83.7</b>	104	--	62	4	24,800	48	76	2199	124	ME	Bronze
Sorghum Partners	SPSD352	81.4	102	--	62	4	24,400	46	78	2240	127	ME/M	Bronze
Dyna-Gro Seed	GX22916	81.2	101	--	60	14	20,500	47	83	2342	134	M/ME	Bronze
Dyna-Gro Seed	M59GB94	80.8	101	68	61	7	25,600	47	77	2217	128	ME/E	Bronze
Dyna-Gro Seed	M54GR24	80.2	100	58	61	2	25,200	47	76	2199	125	ME/E	Red
Dekalb	DKS28-07	80.0	100	--	61	2	20,900	44	72	2078	123	E	Bronze
Sorghum Partners	SP 43M80	79.8	100	65	62	3	28,700	48	75	2175	124	ME	Bronze
Dyna-Gro Seed	M60GB88	78.5	98	60	61	4	30,800	48	75	2175	124	ME	Bronze
Dyna-Gro Seed	M60GB31	78.3	98	57	61	6	20,900	47	83	2342	129	M/ME	Bronze
Dyna-Gro Seed	M57GC29	78.3	98	--	61	0	21,700	40	72	2078	121	E	Cream
Dekalb	DKS29-95	78.3	98	59	61	1	21,700	43	71	2048	119	E	Dark Red
Sorghum Partners	SP 68M57	77.0	96	--	61	4	22,500	47	76	2199	125	ME/M	Bronze
Dekalb	DKS29-05	76.3	95	58	61	10	22,500	46	71	2048	120	E	Bronze
Dekalb	DKS29-28	74.8	93	58	61	1	27,100	41	69	1995	119	E	Bronze
Sorghum Partners	SPSD353	67.6	84	--	61	1	19,800	47	82	2321	130	M	Bronze
Dyna-Gro Seed	M59GB57	67.3	84	54	62	4	25,600	41	71	2048	120	E	Bronze
<b>Average</b>		<b>80.1</b>		<b>61</b>	<b>61</b>	<b>4</b>	<b>24,100</b>	<b>46</b>	<b>76</b>	<b>2187</b>	<b>125</b>	<b>ME</b>	

<sup>a</sup>LSD (P<0.20)

<sup>a</sup>LSD (P<0.05)

<sup>b</sup>Yields adjusted to 14% moisture and hybrids ranked by yield. Hybrid yields in bold are in the top LSD group.

<sup>b</sup>GDD: Sorghum growing degree days to 50% bloom date.

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

<sup>d</sup>Farmers selecting a hybrid based on yield should use the LSD (.20) 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: Plainsman Research Center (Kevin Larson & Brett Pettinger)

Planting Date: June 2, 2022 at 43,500 seeds/ac, planting depth 1.5 in.

Harvest Date: November 16, 2022 with a harvest area of 10 ft. by 44 ft. per plot

Previous Crop: Wheat

Herbicide: Preemergence: Flumioxazin at 3.0 oz/ac, Atrazine at 1.0 lb/ac, Mesotrione at 6.4 oz/ac, and Metolachlor at 1.33 pts/ac; Post emergence: Huskie at 15 oz/ac, Atrazine at 0.5 lb/ac, and AMS at 1.0 lb/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. Slow emergence and adequate stands. Total rainfall for the growing season was nearly average. August was wet with 4.40 in. (4.36 in. in one rain event). September and October were dry. Weed control was good. Some, mostly minor, lodging noted at harvest.

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