



2021 Drip-Irrigated Grain Sorghum Hybrid
Performance Trial at Walsh

Source	Hybrid	Yield Percent				Plant Population ^b	Plant Height	50% Bloom	GDD ^c	50% Mature	Maturity Group ^d	Grain Color
		Grain Yield ^a	of Trial Average	Test Weight	Plant Lodging							
		bu/ac	percent	lb/bu	percent	plants/ac thousand	in					
Golden Acres	GA 2840B	114.0	131	63	27	48.4	54	61	1614	108	ME	Bronze
Dyna-Gro Seed	M60GB88	107.8	124	61	35	55.0	53	61	1614	105	ME	Bronze
S&W Seed	SWGS3183	107.6	124	62	3	55.8	56	60	1598	105	ME/M	Bronze
Sorghum Partners	SP 68M57	105.2	121	62	15	43.4	51	64	1696	110	M	Bronze
Golden Acres	GA 4880R	98.8	114	62	10	50.2	52	71	1885	117	ML	Red
Dyna-Gro Seed	M54GR24	97.0	112	62	4	47.2	48	59	1574	102	E	Red
Dekalb	DKS29-95	96.6	111	61	3	47.2	48	58	1552	103	E	Dark Red
Dekalb	DKS36-07	94.0	108	62	9	48.0	47	66	1752	113	M/ME	Bronze
Sorghum Partners	KS310	89.8	103	61	2	45.2	48	61	1614	106	ME	Bronze
Sorghum Partners	SP 31A15	89.8	103	61	7	47.2	51	61	1614	105	ME	Bronze
Sorghum Partners	251	89.8	103	61	0	52.2	47	52	1363	97	E	Red
Dyna-Gro Seed	M63GB78	88.8	102	61	8	53.4	55	64	1696	111	M/ME	Bronze
Golden Acres	GA 3180B	85.6	99	60	38	57.6	49	65	1721	110	M	Bronze
Dekalb	DKS29-28	85.0	98	62	1	55.8	46	57	1536	101	E	Bronze
Dekalb	DKS38-16	81.6	94	61	29	41.8	55	61	1614	106	ME	Bronze
Dyna-Gro Seed	GX20973	78.6	90	61	50	48.4	53	60	1598	106	ME	Bronze
Dyna-Gro Seed	M59GB57	78.0	90	61	11	47.6	47	57	1536	102	E	Bronze
S&W Seed	SWGS9011	77.6	89	61	2	49.2	45	60	1598	105	ME	Bronze
Sorghum Partners	SP 43M80	77.6	89	62	8	45.0	51	60	1598	106	ME	Bronze
Dekalb	DKS27-80	75.2	87	60	2	57.2	42	58	1552	103	E	Bronze
Sorghum Partners	SP 25C10	74.4	86	61	0	45.6	47	54	1418	99	E	Cream
Dyna-Gro Seed	M60GB31	73.4	84	62	22	48.0	56	66	1752	112	M/ME	Bronze
S&W Seed	SWGS3001	72.0	83	60	6	41.8	45	61	1614	106	ME	Bronze
Dyna-Gro Seed	M59GB94	69.8	80	61	12	53.8	46	62	1637	109	ME/E	Bronze
Dekalb	DKS28-05	65.0	75	61	15	48.4	52	59	1574	104	E	Bronze
Average		86.9		61	13	49.3	50	61	1613	106	ME	

^fLSD (P<0.2)

20.0

16

^aYields adjusted to 14% moisture and hybrids ranked by yield.

^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. Maturity groupings with two classes are trial observation/seed company description.

^eDays after planting or seed maturation.

^fThe 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 4, 2021

Harvest Date: October 22, 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 125 lb/ac and 10-34-0 at 7.5 gal/ac (30 lb P2O5/ac, 9 lb N/ac) was strip till applied.

Soil Type: Richfield silt loam

Comments: Planted into strip tilled sunflower stalks. Rapid emergence and good stands. From planting (June 4) 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. Only three hybrids had 35% or greater lodging, most hybrids had minor lodging at harvest.

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