

2022 Sprinkler Irrigated Grain Sorghum Hybrid Performance Trial at Walsh

Source	Hybrid	Grain		Test Weight	Plant Lodging	Emerged		50% Bloom	GDD ^c	50% Mature	Maturity Group ^d	Grain Color
		Yield ^a	Yield			Plant Population ^b	Plant Height					
		bu/ac	% of test average	lb/bu	percent	plants/ac	in	days after planting		days after planting ^c		
Dyna-Gro Seed	M60GB31	111.2	116	63.5	0	35,300	53	79	2107	127	M/ME	Bronze
Alta Seed	AG1201	109.2	114	61.3	0	30,400	47	82	2192	129	M/E	Bronze
Sorghum Partners	SPSD353	105.1	110	62.9	0	27,200	54	85	2275	131	ML/M	Bronze
Dyna-Gro Seed	M63GB78	104.6	109	61.9	9	30,800	52	80	2141	130	M/ME	Bronze
Alta Seed	ADV XG272	102.2	107	63.0	0	22,800	54	86	2306	132	ML/ME	Bronze
Dyna-Gro Seed	M60GB88	99.8	104	62.2	0	40,500	52	74	1947	123	ME	Bronze
Sorghum Partners	SPSD352	99.2	104	64.0	0	40,000	51	77	2040	126	M	Bronze
Dyna-Gro Seed	M59GB94	94.7	99	62.8	7	26,800	50	74	1947	122	ME/E	Bronze
Sorghum Partners	SP 68M57	93.1	97	62.7	0	26,400	51	73	1916	122	ME/M	Bronze
Dyna-Gro Seed	M54GR24	91.0	95	61.9	4	33,300	47	70	1846	118	E	Red
Dyna-Gro Seed	M59GB57	89.6	94	62.2	0	33,300	47	70	1846	119	E	Bronze
Alta Seed	ADV G1329	87.8	92	60.8	0	23,200	43	72	1889	121	E	Cream
Alta Seed	ADV G1120IG	86.7	91	62.6	5	26,800	54	81	2164	128	M/ME	Red
Dyna-Gro Seed	M57GC29	81.7	85	60.8	0	26,800	43	71	1865	120	E	Cream
Sorghum Partners	SP 43M80	81.2	85	63.3	8	36,900	51	73	1916	122	ME	Bronze
Average		95.8		62.4	2	30,700	50	76	2026	125	M	

^fLSD (P<0.20)

^fLSD (P<0.05)

^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.

^dFarmers 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: May 20, 2022 at 50,000 seeds/ac.

Harvest Date: November 30, 2022, harvest area was 10 ft. by 800 ft. (average)

Previous Crop: Corn

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: Bromoxynil at 1.5 pts/ac and Fluroxypyr at 6.4 oz/ac

Fertilizer: Anhydrous N at 150 lb/ac and 10-34-0 at 7.5 gal/ac was strip till applied and 10-34-0 at 5 gal/ac at planting

Soil Type: Wiley loam

Comments: Planted into strip tilled corn stalks. Slow emergence caused reduced stand counts. Near normal precipitation for the growing season with a wet August (mostly from a single 4.36 in. rain event) and dry for the months of September and October. Weed control was fair and required cultivation. Five hybrids had 9% or less lodging, most hybrids had no lodging at harvest.

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