



2019 Dryland Grain Sorghum Variety  
Performance Trial at Walsh

Source	Hybrid	Grain Yield <sup>a</sup>	Yield	Test Weight	Plant Lodging	Plant Population <sup>b</sup>	Plant Height	50% Bloom	GDD <sup>c</sup>	50% Mature	Maturity Group <sup>d</sup>	Grain Color
		bu/ac	% of test avg.	lb/bu	%	plants/ac	in	days after planting		days after planting <sup>e</sup>		
Dyna-Gro Seed	M57GB19	<b>64.0</b>	124	59.7	2	35,600	38	65	2075	110	ME	Bronze
Dekalb	DKS29-28	<b>63.0</b>	122	60.1	0	32,500	34	62	1989	105	E	Bronze
Dyna-Gro Seed	M59GB94	<b>61.1</b>	118	60.1	5	36,000	38	67	2140	112	ME	Bronze
Dyna-Gro Seed	GX17912	59.4	115	59.8	0	31,400	36	64	2048	105	E	Cream
Dyna-Gro Seed	M62GB77	58.6	114	60.9	5	36,800	40	67	2140	113	ML	Bronze
Alta Seeds	AG1201	57.8	112	58.2	1	40,300	34	66	2106	108	ME	Bronze
Pioneer	86P20	57.7	112	59.6	1	38,000	38	61	1959	105	E	Bronze
Dyna-Gro Seed	M69GB38	57.6	112	59.2	2	33,700	42	75	2357	122	ML	Bronze
Sorghum Partners	SP68M57	57.5	111	59.4	7	28,700	43	69	2191	115	M	Bronze
Dekalb	DKS33-07	57.4	111	59.1	0	37,200	40	74	2325	121	ML	Bronze
Sorghum Partners	SP31A15	57.2	111	58.4	1	32,900	39	68	2165	112	ME	Bronze
Dekalb	DKS28-05	57.2	111	58.6	1	32,500	37	63	2023	106	E	Bronze
Sorghum Partners	SP43M80	56.9	110	60.1	9	36,000	42	67	2140	112	ME	Bronze
Dyna-Gro Seed	GX18919	56.0	109	59.3	1	34,100	37	59	1901	102	E	Cream
Alta Seeds	ADV G1150	55.1	107	59.7	4	29,000	39	67	2140	112	ME	Bronze
Alta Seeds	ADV G2106	54.5	106	59.2	4	32,100	39	67	2140	112	ME	Bronze
Dyna-Gro Seed	M60GB88	53.4	103	58.2	4	37,600	42	66	2106	108	ME	Bronze
Dyna-Gro Seed	M54GR24	52.8	102	59.2	0	38,000	37	65	2075	106	E	Red
Alta Seeds	ADV G1329	52.0	101	58.9	0	35,200	32	65	2075	108	ME	Cream
Sorghum Partners	SP25C10	51.4	100	59.4	0	39,900	37	58	1874	101	E	Cream
Alta Seeds	ADV XG9127	51.0	99	59.8	1	29,800	42	70	2216	114	M	Bronze
Dyna-Gro Seed	M59GB57	49.7	96	59.4	0	31,000	34	63	2023	106	E	Bronze
Dyna-Gro Seed	M57GC29	46.6	90	58.9	0	36,800	32	67	2140	112	ME	Cream
Dyna-Gro Seed	M60GB31	45.3	88	60.6	29	34,900	41	70	2216	116	ME	Bronze
Gayland Ward Seed	18057	44.5	86	58.7	3	41,800	46	70	2216	114	M	Bronze
Sorghum Partners	SP33S40	44.4	86	59.9	0	41,800	39	68	2165	112	ME	Cream
Advanta	ADV XG390IG	15.5	30	54.8	0	32,100	35	93	2846	SD	L	Bronze
Advanta	ADV XG009IG	7.3	14	52.7	0	39,900	35	98	2976	LM	L	Bronze
<b>Average</b>		<b>51.6</b>		<b>59.0</b>	<b>3</b>	<b>35,200</b>	<b>38</b>	<b>68</b>	<b>2170</b>	<b>110</b>	<b>ME</b>	
<sup>f</sup> LSD (P<0.20)		3.6			3							

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

<sup>b</sup>Plant population taken after final stand. Main plants only, does not include tillers.

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

<sup>d</sup>Maturity Group: E=early; ME=medium-early; M=medium; ML=medium late; L=late;

<sup>e</sup>Days after planting or seed maturation. LM=late milk; SD=soft dough.

<sup>f</sup>If the difference between two varieties yields equals or exceeds the LSD value, there is an 80% chance the difference is significant.

**Site Information**

Collaborator: Plainsman Research Center (Kevin Larson & Brett Pettinger)  
 Planting Date: June 6, 2019  
 Harvest Date: November 14 and 15, 2019  
 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: Huskie at 16 oz/ac, Atrazine at 0.75 lb/ac.  
 Fertilizer: Anhydrous N at 50 lb/ac and 10-34-0 at 5 gal/ac was strip-till applied.  
 Soil Type: Richfield silt loam  
 Comments: Planted into strip-tilled wheat stubble. Rapid emergence and good stands. From planting (June 6) to July 2, the trial received 5.96 inches of rain. The rest of the growing season was dry, totaling 2.61 inches of rain from July 3 to October 11 (first freeze). Weed control was good, except for a moderate infestation of sandbur, which required cultivation. Some, mostly minor, lodging noted at harvest. The two hybrids from Alta at the bottom of the table are new herbicide resistant hybrids that are not adapted to the Colorado growing environment.

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