



2019 Limited- Irrigation Grain Sorghum Variety
Performance Trial at Walsh

Source	Hybrid	Yield Percent		Test Weight	Plant Lodging	Plant Population ^b	Plant Height	50% Bloom	GDD ^c	50% Mature	Maturity Group ^d	Grain Color
		Grain Yield ^a	of Trial Average									
		bu/ac	percent	lb/bu	%	plants/ac	in	days after planting		days after planting ^e		
Dekalb	DKS45-23	104.6	141	59.9	7	65,100	49	75	1839	120	ML	Bronze
Dekalb	DKS33-07	90.2	122	59.1	3	58,900	45	76	1873	121	ML	Bronze
Sorghum Partners	SP 43M90	86.8	117	56.7	18	57,300	48	66	1578	111	ME	Bronze
Alta Seeds	AG1201	85.3	115	58.1	3	56,500	39	67	1607	111	ME	Bronze
Dekalb	DKS38-16	84.7	114	60.3	1	55,800	48	72	1756	117	M	Bronze
Alta Seeds	ADV XG9127	83.7	113	57.1	1	50,000	44	77	1898	122	ML	Bronze
Dekalb	DKS47-07	81.0	109	57.9	8	49,600	48	76	1873	124	ML	Bronze
Warner Seed	W5911	80.1	108	59.3	4	60,400	43	71	1722	115	M	Bronze
Dekalb	DKS29-28	79.4	107	58.5	0	53,400	37	63	1493	108	E	Bronze
Gayland Ward Seed	18036	79.2	107	58.8	13	58,100	52	73	1781	119	ML	Bronze
Dyna-Gro Seed	M69GB38	78.6	106	60.0	3	50,300	44	78	1924	125	ML	Bronze
Dyna-Gro Seed	M59GB57	78.4	106	56.7	1	59,600	37	62	1472	108	E	Bronze
Gayland Ward Seed	18057	78.2	105	57.4	2	61,200	49	74	1808	119	ML	Bronze
Alta Seeds	ADV G2106	77.8	105	58.0	12	52,700	47	71	1722	116	M	Bronze
Golden Acres	2840B	77.3	104	58.4	26	60,800	43	66	1578	110	ME	Bronze
Warner Seed	W5506	74.2	100	57.4	4	59,200	40	61	1445	107	E	Bronze
Gayland Ward Seed	18094	74.2	100	56.7	3	59,200	50	75	1839	121	ML	Bronze
Dekalb	DKS29-05	73.6	99	58.0	2	53,700	39	61	1445	107	E	Bronze
Alta Seeds	ADV G1329	72.3	97	58.4	3	67,000	37	67	1607	113	ME	Cream
Gayland Ward Seed	18093	72.2	97	59.0	2	51,900	45	72	1756	116	M	Bronze
Golden Acres	2730B	71.6	96	57.9	10	67,000	39	65	1544	110	ME	Bronze
Warner Seed	W5711	69.5	94	57.7	1	53,100	37	66	1578	109	ME	Bronze
Gayland Ward Seed	18071	68.9	93	57.5	19	56,900	45	77	1898	125	ML	Bronze
Alta Seeds	ADV G1150	68.9	93	57.3	10	49,600	40	72	1756	116	M	Bronze
Sorghum Partners	SP 33S40	68.7	93	57.9	3	49,200	41	65	1544	109	ME	Cream
Dyna-Gro Seed	M62GB77	68.5	92	59.3	2	59,200	42	72	1756	116	M	Bronze
Sorghum Partners	SP 68M57	68.3	92	58.5	6	53,400	43	67	1607	111	ME	Bronze
Dyna-Gro Seed	M60GB88	68.1	92	58.4	7	59,600	46	66	1578	110	ME	Bronze
Gayland Ward Seed	19016	66.4	89	57.8	10	54,200	51	81	2006	127	L	Bronze
Golden Acres	3960B	64.0	86	59.1	16	55,800	40	71	1722	115	M	Bronze
Sorghum Partners	SP 31A15	63.7	86	56.7	3	58,100	41	65	1544	109	ME	Bronze
Dyna-Gro Seed	M60GB31	59.6	80	58.9	7	58,500	42	72	1756	115	M	Bronze
Warner Seed	W5501	55.5	75	56.0	3	43,000	34	62	1472	108	E	Bronze
Gayland Ward Seed	19017	43.7	59	52.0	9	50,000	51	87	2169	134	L	Bronze
Average		74.0		58.0	7	56,100	43	70	1704	115	M	

^fLSD (P<0.20)

11.5

7

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

^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; L=late.

^eDays after planting or seed maturation.

^fIf the difference between two varieties yields equals or exceeds the LSD value, there is an 80% (at P<0.20) chance the difference is statistically significant.

Site Information

Collaborator: Plainsman Research Center (Kevin Larson & Brett Pettinger)
 Planting Date: May 28, 2019
 Harvest Date: November 16 and 18, 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 125 lb/ac and 10-34-0 at 7.5 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 (May 28) to July 2, the trial received 6.65 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 heavy infestation of sandbar, which required cultivation. Some, mostly minor, lodging noted at harvest.

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