



2019 Dryland Grain Sorghum Hybrid
Performance Trial at Akron

Brand	Hybrid	Grain Yield ^a bu/ac	Yield % of test avg.	Test Weight lb/bu	Emerged Plant Population plants/ac	Harvest Population ^b heads/ac	Tillering ^c heads/plant	Plant Height in	50% Bloom days after planting	Lodging percent	Maturity Group ^d	Grain Color
Dekalb	DKS29-28	80.1	146%	57.6	35,719	65,630	0.8	41	79	0	E	Bronze
Golden Acres	2620C	79.6	145%	57.1	31,218	72,019	1.3	52	82	29	ME	Cream
Dyna-Gro Seed	M60GB88	77.3	141%	57.4	33,396	60,403	0.8	49	81	8	ME	Bronze
Dekalb	DKS28-05	76.4	139%	57.6	31,508	71,438	1.3	50	78	19	E	Bronze
Dyna-Gro Seed	GX17912	76.3	139%	58.5	31,508	66,792	1.1	53	82	15	ME	Cream
Dyna-Gro Seed	GX18919	76.2	139%	57.6	31,799	58,370	0.8	47	77	58	E	Cream
Sorghum Partners	SP 31A15	75.7	138%	56.6	28,750	45,012	0.6	47	82	3	ME	Bronze
Dyna-Gro Seed	M54GR24	74.3	135%	59.2	33,251	72,600	1.2	44	76	15	E	Red
Dyna-Gro Seed	M59GB57	73.7	134%	58.1	29,766	57,209	0.9	44	76	8	E	Bronze
Golden Acres	2950B	71.0	129%	56.5	29,476	71,148	1.4	40	80	5	ME	Bronze
Golden Acres	2730B	69.7	127%	56.5	29,766	56,047	0.9	52	83	39	ME	Bronze
Sorghum Partners	SP 43M80	69.7	127%	58.5	32,234	49,658	0.5	51	82	5	ME	Bronze
Dyna-Gro Seed	M57GC29	68.8	126%	56.7	30,637	82,183	1.7	38	80	1	ME	Cream
Sorghum Partners	SP 25C10	67.8	124%	58.3	31,073	69,115	1.2	43	73	8	VE	Cream
Pioneer	87P06	66.8	122%	58.0	33,832	71,438	1.1	47	80	1	ME	Bronze
Dyna-Gro Seed	M59GB94	63.8	116%	56.8	29,330	54,305	0.9	54	85	46	M	Bronze
Dyna-Gro Seed	M57GB19	60.3	110%	57.8	33,251	55,466	0.7	51	83	25	ME	Bronze
Sorghum Partners	SP 33S40	59.7	109%	59.4	25,555	43,270	0.7	50	78	5	E	Cream
Dyna-Gro Seed	M62GB77	59.4	108%	56.8	30,347	47,916	0.6	53	86	1	M	Bronze
Gayland Ward Seed	19015	59.0	108%	57.4	29,911	49,949	0.7	50	87	0	M	Bronze
Gayland Ward Seed	18100	49.9	91%	56.2	26,281	56,918	1.2	48	88	0	M	Bronze
Gayland Ward Seed	18273	48.3	88%	52.6	29,621	56,338	0.9	51	92	30	M	Bronze
Gayland Ward Seed	18357	45.9	84%	55.6	20,183	49,658	1.5	49	88	1	M	Bronze
Gayland Ward Seed	18274	38.6	70%	52.0	25,846	49,949	0.9	48	90	1	M	Bronze
Gayland Ward Seed	18044	38.4	70%	49.0	28,169	40,946	0.5	53	92	0	M	Bronze
Gayland Ward Seed	18275	37.1	68%	52.1	25,700	44,431	0.7	48	91	0	M	Bronze
Dekalb	DKS33-07	33.1	60%	49.6	34,412	69,406	1.0	45	92	0	M	Bronze
Dyna-Gro Seed	M69GB38	29.3	53%	50.8	24,248	63,888	1.6	56	95	0	M	Bronze
Gayland Ward Seed	19014	27.9	51%	55.1	24,539	44,722	0.8	57	91	0	M	Bronze
Gayland Ward Seed	18057	26.2	48%	52.2	23,813	46,754	1.0	50	93	0	M	Bronze
Dyna-Gro Seed	M60GB31	24.5	45%	49.1	28,459	39,785	0.4	45	93	1	M	Bronze
Alta Seeds	ADV XG390IG	3.7	7%	46.3	23,958	39,494	0.6	47	106	0	L	Red
Alta Seeds	ADV XG009IG	1.0	2%	49.3	31,073	42,689	0.4	41	104	0	L	Red
Average		54.8		55.2	29,352	56,514	0.9	48	85	10		

^aLSD (P<0.30)

5.4

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

^bTotal number of grain-producing heads/panicles taken at harvest, including tiller and main plant heads.

^cAverage number of productive (grain containing) tiller heads per plant. Does not include main plant head.

^dMaturity group: VE=very early; E=early; ME=medium-early; M=medium; ML=medium-late; L=Late. Groupings are based on trial observations in addition to company provided data.

^eIf the difference between two varieties yields equals or exceeds the LSD value, there is a 70% chance the difference is significant.

Site Information

Collaborator: USDA-ARS Central Great Plains Research Center

Planting Date: June 3, 2019

Harvest Date: October 26, 2019

Fertilizer: Pre-plant: N at 45 lb/ac; Starter: 4.6 lb/ac of N and 10 lb/ac of Sulfur

Herbicide: Pre-plant: Lumax EZ at 1.75 qt/ac, glyphosate at 1 qt/ac, and 2,4-D LV6 at 1 pt/ac applied May 24. Post-Emerge: Brawl at 1.33 pt/ac, Sterling Blue at 0.5 pt/ac, atrazine at 1 pt/ac applied June 24. Glyphosate at 0.5 qt/ac, Sterling Blue at 0.5 pt/ac with hooded sprayer between rows.

Soil Type: Rago silt loam

Trial Comments: Planted into moisture and heavy wheat stripper-header stubble, which caused slow seedling emergence. Trial received 0.5" rain within a week of planting. Consistent rain received throughout July and August, totaling about 3.4" in July and 2.3" in August. About 0.36" of rain received in September through harvest in October. Killing freeze occurred on Oct. 9th. Despite herbicide program, there was a heavy infestation of pigweed on about 2% of the trial, and heavily infested plots were not used for data. Rest of the trial had light weed pressure. Some 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.