



2022 Dryland Grain Sorghum Hybrid Performance Trial at Akron

Brand	Hybrid	Grain Yield ^a		2-Year	Test	Moisture	Emergent Plant		Maturity Group ^d	Grain Color
		bu/ac	% of test avg.	Avg. Yield bu/ac	Weight lb/bu		Population plants/ac	50% Bloom days after planting		
Sorghum Partners	SP 25C10	34.8	128%	45	54	9	30,700	66	E	Cream
Dekalb	DKS28-05	34.5	127%	50	53	8	24,500	66	E	Bronze
Dekalb	DKS28-07	33.9	125%	-	53	9	28,400	67	E	Bronze
Channel	5B27	32.4	119%	51	54	9	27,800	64	ME	Bronze
Dyna-Gro Seed	GX22923	31.8	117%	-	55	9	29,600	72	E	Cream
Hoegemeyer Seed	H6041	31.8	117%	-	57	10	19,600	68	ME	Cream
Sorghum Partners	251	30.3	112%	43	55	9	25,700	66	E	Red
Dyna-Gro Seed	M59GB57	30.0	110%	50	52	8	30,600	68	E	Bronze
Hoegemeyer Seed	H6037	29.7	109%	-	56	11	20,500	70	ME	Red
Alta Seed	AG1201	29.1	107%	48	55	10	32,100	73	E	Red
Golden Acres	GA 2620C	29.1	107%	50	54	10	24,000	70	ME	Cream
Dyna-Gro Seed	M59GB94	28.2	104%	48	55	10	33,600	71	E	Bronze
Channel	5R45	28.2	104%	-	55	9	24,600	76	ME	Red
Hoegemeyer Seed	H6020	27.9	103%	50	55	11	20,200	70	ME	Red
Dyna-Gro Seed	M57GC29	27.9	103%	-	55	10	22,200	71	E	Cream
Dyna-Gro Seed	M54GR24	27.6	102%	43	55	11	21,600	70	E	Red
Dekalb	DKS29-28	27.6	102%	50	54	9	32,100	67	E	Bronze
Sorghum Partners	SP 43M80	26.1	96%	44	56	11	33,300	70	ME	Bronze
Golden Acres	GA 2730B	25.2	93%	50	55	10	26,000	71	ME	Bronze
Dekalb	DKS29-95	24.0	88%	45	55	10	25,700	72	E	Dark Red
Sorghum Partners	SP 30A30 DT	23.7	87%	-	55	13	27,700	72	ME	Bronze
Golden Acres	GA 1510C	23.4	86%	44	56	10	21,000	72	E	Cream
Sorghum Partners	SP 31A15	22.8	84%	47	53	9	27,200	72	ME	Bronze
Sorghum Partners	SP 45A45 DT	20.7	76%	-	54	11	25,100	73	ME	Bronze
Dyna-Gro Seed	M60GB31	16.5	61%	37	56	11	22,800	82	ME	Bronze
Alta Seed	ADV G1120IG	9.0	33%	34	51	11	26,700	90	ME	Red
Average		27.2	100%	46	55	10	26,300	71		
°LSD (.30)		4								
°LSD (.05)		8								

^aYields adjusted to 14% moisture and hybrids ranked by yield. Hybrid yields in bold are in the top LSD group (.30).

^bMaturity group: E=early; ME=medium-early. Maturity groups are provided by the company and may not align with the observed flowering dates in the trial due to the latitude and relatively high elevation of the trial site (4,659 feet).

^cFarmers selecting a hybrid based on yield should use the LSD (.30) 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: USDA-ARS Central Great Plains Research Center
 Planting Date: June 10, 2022
 Harvest Date: October 30, 2022
 Fertilizer: Pre-emerge: N at 50 lb/ac
 Herbicide: Pre-emerge: Lumax at 1.75 pt/ac, Buccanneer plus at 1 qt/ac; Post-emerge (hooded sprayer): Starane at 0.4 pt/ac, 2,4-D amine at 1 pt/ac on Aug. 2; Sterling blue at 6 oz/ac and 2,4-D amine at 0.75 pt/ac on Aug. 17th.
 Previous Crop: Triticale
 Soil Type: Keith-Kuma complex
 GPS Coordinates: 40.161784, -103.143933
 Trial Comments: Planted June 10th into excellent moisture. Average stands and emergence, triticale stubble in field. Most hybrids were flowering by week of Aug. 22nd. Plants were showing significant drought stress by mid-August which lasted through the grain-fill period (hence low test weights). Good weed control throughout the season. No lodging noted at harvest. Radar estimates showed the trial received about 6 inches of rain from planting to harvest, and 11.2 inches since January 1st, which is 76% of the ten-year average (year-to-date).

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