

2022 Irrigated Grain Sorghum Hybrid Performance Trial at Rocky Ford

Brand	Hybrid	Grain	Yield	Test	Moisture	Maturity	Grain Color
		Yield ^a	% of test avg.	Weight	percent	Group ^b	
		bu/ac		lb/bu			
Dekalb	DKS38-16	134.4	117%	60	19	ME	Bronze
Dyna-Gro Seed	M63GB78	130.2	114%	58	26	ME	Bronze
Dekalb	DKS36-07	127.8	112%	57	25	ME	Bronze
Dyna-Gro Seed	M60GB31	125.4	110%	59	25	ME	Bronze
Alta Seed	AG1201	125.1	109%	58	18	E	Red
Dekalb	DKS29-95	123.6	108%	59	17	E	Dark Red
Dekalb	DKS28-07	123.0	107%	58	19	E	Bronze
Dekalb	DKS28-05	122.7	107%	60	15	E	Bronze
Dyna-Gro Seed	M59GB94	118.5	104%	56	26	E	Bronze
Dekalb	DKS29-28	117.6	103%	59	18	E	Bronze
Dyna-Gro Seed	M60GB88	115.5	101%	59	18	ME	Bronze
Dyna-Gro Seed	GX22923	115.2	101%	55	26	E	Cream
Alta Seed	ADV G1329	106.2	93%	58	19	E	Cream
Alta Seed	ADV XG272	104.7	91%	56	30	ME	Bronze
Dyna-Gro Seed	M59GB57	103.5	90%	58	18	E	Bronze
Dyna-Gro Seed	M54GR24	102.3	89%	59	18	E	Red
Dyna-Gro Seed	M57GC29	101.4	89%	58	20	E	Cream
Dyna-Gro Seed	GX21991	98.4	86%	57	22	ME	Bronze
Alta Seed	ADV G1120IG	97.2	85%	57	27	ME	Red
Dyna-Gro Seed	GX22916	96.9	85%	57	24	ME	Bronze
Average		114.5	100%	58	21		
		^c LSD (.30)	9				
		^c LSD (.05)	17				

^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 (4,180 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: Arkansas Valley Research Station (Kevin Tanabe and Lane Simmons)
 Planting Date: May 31, 2022
 Harvest Date: October 11, 2022
 Previous Crop: Forage sorghum
 Soil Type: Rocky Ford silty clay loam
 GPS Coordinates: 38.0382, -103.69406
 Trial Comments: Trial had excellent emergence and stands. Trial cultivated one time for weed control. Light pressure from volunteer forage sorghum in the field. Radar estimates showed the trial received about 7 inches of rain from planting to harvest (in addition to full irrigation) and 11.7 inches since January 1st, which is 102% of the ten-year average (year-to-date).

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