



2023 Irrigated Grain Sorghum Hybrid Performance Trial at Rocky Ford

Brand	Hybrid	Grain	Yield	2-Year Avg.	Test	Moisture	Maturity Group ^b	Grain Color
		Yield ^a		Yield	Weight			
		bu/ac	% of test avg.	bu/ac	lb/bu	percent		
Dekalb	DKS36-07	125.5	135%	127	59	19	ME	Bronze
Dyna-Gro Seed	GX22923	116.5	125%	116	59	17	E	Cream
Dyna-Gro Seed	M59GB94	115.5	124%	117	59	16	E	Bronze
Dyna-Gro Seed	M60GB31	111.5	120%	118	60	20	ME	Bronze
Channel Seed	5B70	106.0	114%	-	60	19	E	Bronze
Dyna-Gro Seed	M63GB78	104.5	112%	117	59	17	ME	Bronze
Dekalb	DKS38-16	103.5	111%	119	63	16	ME	Bronze
Dekalb	DKS29-28	95.0	102%	106	59	14	E	Bronze
Dekalb	DKS29-95	92.5	99%	108	60	14	E	Dark Red
Dyna-Gro Seed	M59GB57	86.0	92%	95	59	15	E	Bronze
Dekalb	DKS28-07	85.0	91%	104	60	14	E	Bronze
Alta Seed	ADV G2106	84.0	90%	-	60	16	M	Red
Dyna-Gro Seed	M60GB88	82.5	89%	99	61	14	ME	Bronze
Alta Seed	ADV G2168IG	82.5	89%	-	61	20	M	Red
Alta Seed	ADV G2193IG	78.0	84%	-	59	19	M	Red
Dyna-Gro Seed	M54GR24	71.0	76%	87	61	15	E	Red
Dekalb	DKS28-05	67.0	72%	95	60	15	E	Bronze
Alta Seed	ADV G1329	64.5	69%	85	61	14	E	Cream
Average		93.0	100%	107	60	16		
		^c LSD (.30)	8					
		^c LSD (.05)	16					
		Coefficient of Variation (CV)	12					

^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; M=medium. 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: CSU Arkansas Valley Research Station (Kevin Tanabe)
 Planting Date: May 24, 2023
 Harvest Date: October 10, 2023
 Herbicides: Huskie at 16 oz/ac and Starane Ultra at 6 oz/ac applied on June 21
 Soil Type: Rocky Ford silty clay loam
 GPS Coordinates: 38.0382, -103.69406
 Trial Comments: Trial had good emergence and average stands. Moderate pressure from kochia in the field. Weather station on-site showed the trial received about 7 inches of rain from planting to harvest (in addition one irrigation on August 1) and 11.7 inches since January 1st, which is 102% of the ten-year average (year-to-date).

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