



**CROP PERFORMANCE
TESTING**

**Perkins County Rainfed
2021 Grain Sorghum Variety Trial**

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Head Height (in)	Final Stand (plants/acre)	Grain Color
DKS36-07	DEKALB	73.2	54.6	35.9	29,190	Bronze
DKS38-16	DEKALB	72.8	52.3	34.2	37,058	Bronze
GA 2620C	Golden Acres	68.5	54.8	34.7	28,885	Cream
AC2104	RAGT Semences	67.4	56.2	35.2	36,938	Red
ADV XG272	Alta Seeds	66.3	51.9	36.5	35,739	Bronze
GA 2730B	Golden Acres	65.9	55.3	32.9	41,758	Bronze
DKS29-95	DEKALB	65.8	55.3	32.6	41,804	Red
SP 43M80	Sorghum Partners	65.1	55.2	33.9	28,226	Bronze
Early Check	NA	62.3	55.7	29.7	33,369	Bronze
GA 1510C	Golden Acres	61.8	55.5	27.3	41,528	Cream
SP 25C10	Sorghum Partners	59.2	56.2	32.2	26,999	Cream
251	Sorghum Partners	58.6	56.2	31.7	37,038	Red
ADV G1329	Alta Seeds	58.4	55.6	29.5	32,390	Cream
M60GB88	Dyna-Gro Seed	57.7	51.7	35.8	38,249	Bronze
M59GB57	Dyna-Gro Seed	57.5	54.9	31.0	31,197	Bronze
M59GB94	Dyna-Gro Seed	56.8	52.4	32.1	28,653	Bronze
AC2103	RAGT Semences	53.1	54.9	35.0	25,007	Cream
DKS28-05	DEKALB	53.0	53.2	34.0	34,515	Bronze
GX20973	Dyna-Gro Seed	52.8	56.5	34.0	31,695	Bronze
ADV G1153	Alta Seeds	52.6	49.9	34.2	34,008	Red
M54GR24	Dyna-Gro Seed	51.5	56.2	35.3	38,025	Red
AG1201	Alta Seeds	50.9	54.5	29.9	39,875	Red
ADV G2168IG	Alta Seeds	50.9	53.6	31.9	29,430	Red
LGS 5002	Legend Seeds	47.8	55.6	31.3	35,160	Red
M63GB78	Dyna-Gro Seed	46.6	53.4	32.3	34,765	Bronze
LGS 6321	Legend Seeds	46.5	53.0	35.2	28,987	Bronze
M60GB31	Dyna-Gro Seed	43.4	49.8	33.8	29,180	Bronze
AC2102	RAGT Semences	41.7	54.9	39.7	40,663	Red
ADV G1120IG	Alta Seeds	31.2	46.8	34.2	26,076	Red
ADV XG015IG	Alta Seeds	27.2	42.9	33.7	30,041	Red

¹ Yield values based on 56 lb/bu test weight and corrected to 14% moisture.

	Standard Error	10.7	1.8	1.8	5,590	-
	LSD²	18.1	3.0	3.0	9,344	-
	Mean³	55.5	53.6	33.3	33,548	-
	CV⁴	19.3	3.3	5.4	16.7	-
	Reps	3	4	4	4	-

SITE INFORMATION

Collaborator: Stumpf International Wheat Research Center, Grant, NE
 Planting Date: June 3, 2021
 Target Population: 60,000 seeds/acre
 Harvest Date: November 16, 2021
 Fertility: 5 gal/a 10-34-0
 Herbicide/Fungicides: Pre-plant burndown with 32 oz Glyphosate and 16 oz 2,4-D; additional 1 lb atrazine used
 Soil Type: Alliance silt loam
 GPS: 40.845316, -101.686794
 Notes: Planted into no-till wheat stubble. Difficult conditions at planting and heavy weed pressure led to lower than anticipated stand and yield.

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² For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

³ Mean performance of all entries in the trial.

⁴ Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.