



**CROP PERFORMANCE
TESTING**

**Cheyenne County Rainfed
2022 Sorghum Hybrid Trial**

Name	Company	Plant Height (in)	Days to 50% Heading	Days to 50% Bloom	Yield (bu/ac) ¹
GA 2730B	Golden Acres	30.0	67.5	72.5	20.7
251	Sorghum Partners	28.3	57.5	62.8	20.2
M54GR24	DynaGro	26.8	68.3	72.8	19.8
SP 31A15	Sorghum Partners	30.5	69.4	70.5	19.0
AC2103	RAGT Semences	32.7	63.0	68.0	18.4
GA 2620C	Golden Acres	27.8	68.3	72.3	17.7
SP 25C10	Sorghum Partners	27.9	62.0	67.3	16.9
FILL	DEKALB	27.1	61.3	66.5	16.8
ADV G1329	Alta Seeds	25.1	65.4	69.8	15.6
GA 1510C	Golden Acres	26.0	71.3	75.3	15.1
AC2104	RAGT Semences	34.1	63.8	69.5	13.8
DKS28-05	DEKALB	24.4	68.5	73.0	13.1
DKS36-07	DEKALB	27.6	73.1	77.8	12.6
AC2203	RAGT Semences	31.1	65.0	70.0	12.6
M59GB57	DynaGro	26.8	64.3	68.5	12.4
DKS28-07	DEKALB	24.9	66.1	71.1	12.2
ADV G2106	Alta Seeds	30.1	66.8	71.7	11.7
DKS29-95	DEKALB	27.7	68.1	72.8	11.5
SP 43M80	Sorghum Partners	28.6	.	.	9.8
ADV G2168IG	Alta Seeds	29.3	.	.	9.1
SP 68M57	Sorghum Partners	28.6	.	.	8.2
M59GB94	DynaGro	25.6	.	.	6.6
ADV G2165	Alta Seeds	30.5	.	.	5.5
ADV XG272	Alta Seeds	34.4	.	.	5.5
ADV G1120IG	Alta Seeds	31.1	.	.	4.8
ADV G1153	Alta Seeds	30.5	.	.	2.1
M57GC29	DynaGro	25.9	.	.	.
	Standard Error	2.2	3.6	3.4	4.1
	LSD²	3.7	6.0	5.6	6.9
	Mean³	28.6	68.2	72.8	12.8
	CV⁴	7.7	5.3	4.6	32.3
	Reps	4	4	4	4

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

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.

SITE INFORMATION

Collaborator: High Plains Ag Lab, UNL, Sidney, NE
Planting Date: June 2, 2022
Target Population 45,000 seeds/acre
Harvest Date: 10/17/2022
Fertility: 5 gal/a 10-34-0 applied in-furrow at planting, 40 lb N as 42-0-0 pre-plant
Herbicide/Fungicides: Pre-plant burn down with 32 oz of glyphosate and 1 lb atrazine
Soil Type: Rosebud loam
GPS: 41.2325272, -103.0159375
Notes: Planted 1.5-1.75" into dry no-till wheat stubble. Drought conditions severely impacted yield and reduced test weights. Bolded values in the table indicate highest LSD group. CV for yield higher than optimal, reflected in large LSD for yield.

Hybrids for which yields are less than 10 bu/a had minimal heading and never overcame drought conditions to reach flowering.

No significant differences for stand or test weight among the hybrids tested, mean values were 31,508 plants/acre and 58.5 lb/bu, respectively.

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