



UNIVERSITY of NEBRASKA
LINCOLN

Cheyenne County Rainfed 2023 Grain Sorghum Hybrid Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Height (in)
SP 25C10	Sorghum Partners	85.8	52.0	40.3
Check 1	NA	79.3	52.1	46.4
AC2103	RAGT Semences	75.1	53.5	45.4
Check 2	NA	74.7	53.9	39.8
ADV G1329	Alta Seeds	73.8	51.8	44.4
SP 30A30 DT	Sorghum Partners	72.5	49.7	44.9
M59GB94	DYNAGRO	72.4	48.0	44.9
SP 43M80	Sorghum Partners	68.9	51.6	39.1
M59GB57	DYNAGRO	68.8	53.3	41.5
AC2104	RAGT Semences	68.4	53.7	42.4
GX22923	DYNAGRO	68.3	49.6	41.2
M54GR24	DYNAGRO	67.4	53.5	44.2
GA 1510C	Golden Acres	66.5	50.8	37.6
GA 2620C	Golden Acres	64.8	48.8	42.7
251	Sorghum Partners	64.3	53.9	43.5
SP 31A15	Sorghum Partners	62.0	49.6	43.3
AC2203	RAGT Semences	61.3	53.4	42.3
GA 2730B	Golden Acres	55.6	46.4	41.8
ADV G2193IG	Alta Seeds	55.1	50.2	40.2
SP 45A45 DT	Sorghum Partners	50.0	47.3	41.7
AG1301	Alta Seeds	49.1	39.0	41.2
ADV XG272	Alta Seeds	45.5	44.3	39.3
	Standard Error	10.8	2.0	2.8
	LSD²	18.0	3.4	NS
	Mean³	65.9	50.3	42.2
	CV⁴	16.4	4.0	NA
	Reps	5	5	5

¹ Yield values corrected to 14% moisture. Bolded values indicate highest LSD grouping.

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.

SITE INFORMATION

Collaborator:	High Plains Agricultural Lab, Sidney, NE
Planting Date:	June 7, 2023
Seeding Rate:	45,000 seeds/acre
Harvest Date:	November 13, 2023
Soil Type:	Kuma, Duroc, & Alliance silt loams
Fertility and Herbicides:	32 oz/a Roundup, 2 qt/a Warrant, 1% Class Act applied as pre-emergent weed control. 2,4-D and manual weeding used in season as needed for spotty weed pressure
Planting Info:	Seeded 1.25" deep on 30" centers into no-till wheat stubble with good soil moisture. 10 lb P applied at planting as 10-34-0.
Notes on Trial:	Some drought pressure shortly after emergence and throughout season. Required freeze in late October to finish the season, but lower than average test weights still occurred. Little to no lodging, reasonable yields, less bird damage than in previous years.

Recommended to use results with caution due to higher than anticipated field variability (CV>15%). Part of the field had poor early stand, resulting in the need to drop one full replication and employ spatial corrections.

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