



UNIVERSITY of NEBRASKA  
LINCOLN

## Perkins County Rainfed 2023 Grain Sorghum Hybrid Trial

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Height (in)	Days to 50% Bloom <sup>2</sup>
SP 31A15	Sorghum Partners	<b>107.3</b>	49.0	43.8	63
Polansky 5433	Polansky Seed, Inc.	<b>106.9</b>	53.0	42.0	53
SP 25C10	Sorghum Partners	<b>105.2</b>	52.1	45.5	60
M59GB57	DYNAGRO	<b>99.6</b>	50.9	41.3	59
ADV G1329	Alta Seeds	<b>99.3</b>	53.2	45.7	63
6R65	Channel	<b>96.8</b>	52.5	47.7	74
Polansky 5512	Polansky Seed, Inc.	<b>94.9</b>	49.1	46.0	68
AG1301	Alta Seeds	<b>94.3</b>	49.4	41.7	67
M63GB78	DYNAGRO	<b>93.2</b>	407	46.3	63
GA 2620C	Golden Acres	<b>93.2</b>	51.1	44.8	70
GA 1510C	Golden Acres	88.6	52.9	44.7	63
ADV XG272	Alta Seeds	87.1	49.1	46.2	70
M60GB88	DYNAGRO	84.7	51.0	46.0	66
6B55	Channel	84.4	52.4	44.5	70
ADV G2193IG	Alta Seeds	82.1	50.0	47.5	65
M59GB94	DYNAGRO	81.7	50.9	45.3	68
Check 1	NA	79.2	51.7	43.7	58
Polansky 5522	Polansky Seed, Inc.	75.8	50.4	42.0	72
AC2103	RAGT Semences	74.4	<b>54.3</b>	42.0	60
AC2104	RAGT Semences	74.2	<b>54.5</b>	41.8	60
251	Sorghum Partners	73.7	<b>53.5</b>	44.7	57
M54GR24	DYNAGRO	73.4	<b>53.4</b>	44.7	56
Polansky 5629	Polansky Seed, Inc.	73.1	47.1	47.8	72
Check 2	NA	72.7	52.0	46.3	58
GX22923	DYNAGRO	71.9	51.0	47.8	66
GA 2730B	Golden Acres	71.3	50.3	45.3	63
AC2203	RAGT Semences	70.9	<b>54.5</b>	46.3	60
SP 43M80	Sorghum Partners	70.0	52.2	41.8	64
M67GB87	DYNAGRO	67.9	44.9	39.5	73
M60GB31	DYNAGRO	63.8	44.3	45.7	72

<sup>1</sup> Yield values corrected to 14% moisture. Bolded values indicate highest LSD grouping.

<sup>2</sup> Measured as days to 50% of the plot flowering

		Yield (bu/ac)	Test Weight (lb/bu)	Height (in)	Days to 50% Bloom
	<b>Standard Error</b>	10.1	0.7	2.3	1
	<b>LSD<sup>3</sup></b>	16.7	1.1	3.8	2
	<b>Mean<sup>4</sup></b>	83.7	51.1	44.6	65.2
	<b>CV<sup>5</sup></b>	12.0	1.3	5.1	1.9
	<b>Reps</b>	6	6	6	6

**SITE INFORMATION**

Collaborator:	Stumpf International Wheat Research Center, Grant, NE
Planting Date:	June 8, 2023
Seeding Rate:	60,000 seeds/acre
Harvest Date:	November 15, 2023
Soil Type:	Rosebud-Canyon & Kuma silt loams
Pre-Emergent Herbicides:	32oz Buccaneer 5 (Glyphosate), AMS, 10.6oz Verdict, 10.6oz Parallel (S-metolachlor), 32oz Atrazine
Planting Info:	Seeded 1.25" deep on 30" centers into no-till wheat stubble with excellent soil moisture. 10 lb P applied at planting as 10-34-0
Notes on Trial:	Soil tests indicated adequate residual nitrogen, so no supplemental N was applied. 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 observed, some weed pressure, but reasonable yields. Note that some field variability contributed to a slightly greater than optimal CV.

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<sup>3</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

<sup>4</sup> Mean performance of all entries in the trial.

<sup>5</sup> 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.