



UNIVERSITY of NEBRASKA  
LINCOLN

## Lancaster 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>	Stand (plants/acre)	Lodging (%) <sup>3</sup>	Bird Damage (%)
<b>GX22937</b>	DYNAGRO	<b>98.1</b>	<b>58.6</b>	53.3	74.0	59,131	1.7	7.5
<b>M71GR91</b>	DYNAGRO	<b>82.4</b>	<b>59.2</b>	55.0	75.0	58,298	0	8.8
<b>SPSD353</b>	Sorghum Partners	80.2	<b>58.1</b>	48.3	75.0	54,334	0	6.2
<b>GX22932</b>	DYNAGRO	76.9	<b>59.6</b>	52.8	72.2	62,840	1.7	10.2
<b>ADV XG272</b>	Alta Seeds	75.4	57.8	52.3	73.7	47,945	19.5	15.9
<b>M67GB87</b>	DYNAGRO	72.1	56.3	52.7	73.2	55,040	9.2	13.9
<b>ADV G2193IG</b>	Alta Seeds	72.0	56.7	48.0	71.3	57,206	20.8	25.5
<b>SP 65M60</b>	Sorghum Partners	68.7	55.9	47.0	77.5	50,514	0	9.0
<b>M63GB78</b>	DYNAGRO	68.6	<b>58.0</b>	50.0	58.7	62,736	20.0	26.4
<b>M72GB71</b>	DYNAGRO	68.4	<b>59.1</b>	52.0	75.8	53,291	7.0	7.7
<b>AG1301</b>	Alta Seeds	66.8	55.1	46.2	73.8	59,036	21.2	13.2
<b>GX22934</b>	DYNAGRO	66.3	<b>59.7</b>	51.8	76.2	56,860	0	8.2
<b>GX22936</b>	DYNAGRO	65.2	<b>58.8</b>	49.8	69.8	63,343	17.0	19.2
<b>SP 66M16</b>	Sorghum Partners	58.2	56.4	47.0	67.3	61,909	12.5	17.2
<b>M59GB94</b>	DYNAGRO	56.4	55.7	53.2	63.3	68,289	20.8	43.1
<b>GX22923</b>	DYNAGRO	56.1	53.4	50.2	62.5	66,565	12.5	19.0
<b>Check 1</b>	NA	54.8	53.1	48.7	60.2	<b>74,806</b>	27.5	38.0
<b>M60GB88</b>	DYNAGRO	52.6	56.4	49.7	65.0	60,506	20.8	21.8
<b>ADV G1329</b>	Alta Seeds	42.5	55.1	38.3	64.8	61,143	18.3	38.0
<b>AC2103</b>	RAGT Semences	35.0	53.8	48.7	60.0	66,264	6.7	45.7
<b>AC2203</b>	RAGT Semences	33.5	51.6	53.0	61.5	<b>71,726</b>	14.2	66.5
<b>AC2104</b>	RAGT Semences	27.5	54.4	51.3	63.7	<b>69,558</b>	7.5	58.7

<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

<sup>3</sup> Lodging and bird damage estimates collected as visual percentages just before harvest.

		Yield (bu/ac)	Test Weight (lb/bu)	Height (in)	Days to 50% Bloom	Stand (plants/acre)	Lodging (%)	Bird Damage (%)
	<b>Standard Error</b>	10.5	1.0	1.2	2.0	3,170	8.8	8.1
	<b>LSD<sup>4</sup></b>	17.5	1.7	1.9	3.4	5,264	14.6	13.4
	<b>Mean<sup>5</sup></b>	62.6	56.5	50.0	69.3	60,970	11.8	23.6
	<b>CV<sup>6</sup></b>	16.8	1.8	2.3	2.9	5.2	--	--
	<b>Reps</b>	6	6	6	6	6	6	6

**SITE INFORMATION**

Collaborator:	UNL Agronomy & Horticulture Havelock Farm, Lincoln, NE
Planting Date:	May 22, 2023
Seeding Rate:	90,000 seeds/acre
Harvest Date:	October 23, 2023
GPS Coordinates:	40.853412, -96.610289
Soil Type:	Crete & Aksarben silty clay loam
Fertility and Herbicides:	90 lb/a N applied; Atrazine (1 lb/a) + Roundup (32 oz/a) + AMS (0.25 gal/a) in late May before emergence
Planting Info:	Seeded 2" deep into very dry soil on 30" centers into disked corn stubble
Notes on Trial:	Results should be used with caution because growing season conditions were highly atypical of the region. Eastern Nebraska had severe drought throughout the growing season, leading to reduced stand, increased weed and bird pressure, and poor yields. In addition to effects on yield, the drought conditions created field variability that impacted CV. Significant lodging and bird damage seen across field area. Bird damage was more significant on earlier-maturing hybrids. Check is a very early maturing hybrid designed for short-season and drought prone production regions.

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<sup>4</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>5</sup> Mean performance of all entries in the trial.

<sup>6</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.