



**CROP PERFORMANCE  
TESTING**

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

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Head Height (in)	Final Stand (plants/acre)	Days to Flowering <sup>2</sup>	Grain Color
M67GB87	Dyna-Gro Seed	173.1	58.7	55.9	69,612	63.3	Bronze
GX20998	Dyna-Gro Seed	168.8	<b>61.7</b>	50.7	73,765	63.2	Bronze
M60GB31	Dyna-Gro Seed	167.1	60.4	49.8	60,460	63.3	Bronze
DKS44-07	DEKALB	166.8	<b>62.2</b>	50.6	<b>79,103</b>	64.4	Red
ADV G2106	Alta Seeds	166.4	60.4	49.8	68,408	62.0	Red
ADV XG160	Alta Seeds	164.1	60.2	51.4	65,298	64.6	-
GX20970	Dyna-Gro Seed	163.9	61.2	50.9	69,431	65.7	Bronze
ADV G2275	Alta Seeds	163.0	60.6	52.5	61,501	63.4	Red
M63GB78	Dyna-Gro Seed	162.6	60.6	51.2	69,370	62.8	Bronze
GX20973	Dyna-Gro Seed	162.3	<b>62.7</b>	54.1	72,826	61.3	Bronze
SPSA308	Sorghum Partners	160.6	60.2	53.6	72,042	62.4	Bronze
DKS36-07	DEKALB	159.7	60.0	55.3	<b>79,125</b>	61.1	Bronze
SP 68M57	Sorghum Partners	158.8	59.8	47.4	60,470	62.8	Bronze
ADV G1153	Alta Seeds	157.6	60.6	48.4	57,602	64.3	Red
DKS38-16	DEKALB	157.3	<b>62.6</b>	56.3	77,222	62.3	Bronze
ADV G2193IG	Alta Seeds	155.6	60.3	48.4	65,232	63.6	Red
ADV XG272	Alta Seeds	155.5	59.7	53.0	57,244	63.6	-
M59GB94	Dyna-Gro Seed	155.1	59.7	54.3	70,693	59.8	Bronze
LGS 6321	Legend Seeds	154.7	60.5	52.1	70,587	63.0	Bronze
Medium Maturity Check	NA	153.5	61.4	52.1	75,001	62.5	Bronze
GX21965	Dyna-Gro Seed	153.4	60.9	49.5	67,770	66.9	Bronze
ADV G1120IG	Alta Seeds	152.8	58.1	54.6	57,041	63.3	Red
M60GB88	Dyna-Gro Seed	151.6	59.6	50.6	77,521	62.8	Bronze
M71GR91	Dyna-Gro Seed	150.5	<b>62.0</b>	53.7	59,811	67.5	Red
ADV G2165	Alta Seeds	148.0	60.6	52.3	61,591	63.5	Red
Early Maturity Check	NA	146.2	52.4	45.9	<b>82,754</b>	<b>56.4</b>	Bronze
DKS54-07	DEKALB	142.0	61.3	56.6	67,029	70.5	Red
ADV XG015IG	Alta Seeds	140.7	60.3	46.5	57,560	65.5	Red
M72GB71	Dyna-Gro Seed	140.5	<b>61.9</b>	54.8	68,451	68.9	Bronze
Imazamox Tolerant Check	NA	140.4	60.5	47.1	63,914	65.3	Red

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

<sup>2</sup> Calculated as days from planting to 50% of the plot flowering,

<b>LGS X6922</b>	Legend Seeds	140.1	60.0	<b>61.5</b>	62,810	69.4	Bronze
<b>SP 43M80</b>	Sorghum Partners	131.7	59.3	50.7	62,872	60.0	Bronze
<b>SP 25C10</b>	Sorghum Partners	129.2	55.5	44.8	70,583	<b>56.1</b>	Cream
<b>251</b>	Sorghum Partners	118.1	56.6	42.4	72,680	<b>55.7</b>	Red
<b>ADV XG034IG</b>	Alta Seeds	114.0	60.0	48.9	50,230	68.1	-
	<b>Standard Error</b>	7.9	0.7	0.9	2,425	0.8	-
	<b>LSD<sup>3</sup></b>	13.2	1.1	1.6	4,025	1.4	-
	<b>Mean<sup>4</sup></b>	152.2	60.1	51.4	67,360	63.4	-
	<b>CV<sup>5</sup></b>	5.2	1.1	1.8	3.6	1.3	-
	<b>Reps</b>	4	4	4	4	4	-

**SITE INFORMATION**

Collaborator: Department of Agronomy & Horticulture Havelock Farm, Lincoln, NE  
 Planting Date: May 24, 2021  
 Target Population: 90,000 seeds/acre  
 Harvest Date: November 8, 2021  
 Fertility: 80 lbs of N  
 Herbicide/Fungicides: 32 oz/a of Roundup and 1 lb/a atrazine pre-emergent  
 Soil Type: Crete and Aksarben silty clay loam  
 GPS: 40.853442, -96.610309  
 Notes: Planted into disked oat stubble, had excellent yields.

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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.