



UNIVERSITY of NEBRASKA  
LINCOLN

## Perkins County Rainfed 2020 Dryland Sorghum Trial

Name	Company	Plant Height (in)	Test Weight (lb/bu)	Population (plants/acre)	Yield (bu/a) <sup>1</sup>
KS310	S&W Seeds/Sorghum Partners	44.2	55.4	31,189	71.6
M59GB57	Dyna-Gro Seed	39.8	55.4	28,866	69.6
2620C	LG Seeds	43.2	54.7	30,608	67.9
DKS44-07	DEKALB	45.0	56.5	32,409	67.4
SP 31A15	S&W Seeds/Sorghum Partners	44.6	54.3	32,525	67.1
18072	Gayland Ward Seeds	47.6	53.9	29,156	66.3
DKS38-16	DEKALB	48.6	56.0	25,671	65.8
DKS36-07	DEKALB	45.4	54.1	29,969	65.1
DKS37-07	DEKALB	45.2	56.0	31,363	64.3
GX18919	Dyna-Gro Seed	39.8	55.8	25,497	63.3
2950B	LG Seeds	36.8	54.4	29,272	62.9
ADV XG116IG	ADVANTA	42.8	54.5	27,530	62.8
AG1201	ADVANTA	36.6	54.0	33,628	62.6
18567	Gayland Ward Seeds	47.4	50.9	24,975	62.4
18057	Gayland Ward Seeds	44.2	53.9	30,202	62.0
SP 25C10	S&W Seeds/Sorghum Partners	43.0	55.6	26,659	60.9
1510C	LG Seeds	33.4	54.5	28,401	60.5
M60GB88	Dyna-Gro Seed	44.8	54.1	20,154	60.4
ADV XG9127	ADVANTA	45.4	53.3	26,659	59.9
SP 43M80	S&W Seeds/Sorghum Partners	45.0	56.0	25,729	59.8
19015	Gayland Ward Seeds	47.2	54.4	35,545	59.3
ADV G2106	ADVANTA	45.8	53.4	30,957	59.0
19014	Gayland Ward Seeds	49.6	53.7	36,148	58.5
AG1301	ADVANTA	40.0	53.1	24,219	58.4
AS212	Arrow Seed	40.6	55.9	32,641	58.2
GX17912	Dyna-Gro Seed	41.2	43.2	27,762	57.8
LGS 5002	Legend Seeds	42.0	55.2	31,537	57.6
NK 2212	S&W Seeds/Sorghum Partners	38.1	56.5	25,112	57.4
M57GC29	Dyna-Gro Seed	37.8	54.3	16,959	55.3
2730B	LG Seeds	47.8	53.0	27,472	54.9
AG 1401	ADVANTA	41.0	54.9	25,149	54.6
M54GR24	Dyna-Gro Seed	41.6	54.4	27,530	52.6
M60GB31	Dyna-Gro Seed	45.4	43.3	25,381	52.2
Check	NA	46.0	54.5	26,542	50.8
ADV G1329	ADVANTA	36.8	54.1	16,669	50.4

<sup>1</sup> Adjusted to 56 lb/bu and 14% moisture.

<b>ADV XG076</b>	ADVANTA	43.2	51.3	15,043	50.2
<b>19016</b>	Gayland Ward Seeds	45.8	47.7	28,750	49.3
<b>M59GB94</b>	Dyna-Gro Seed	44.6	55.2	25,207	47.2
<b>AS248FG</b>	Arrow Seed	43.2	32.2	17,482	43.9
<b>M57GB19</b>	Dyna-Gro Seed	46.2	44.5	34,500	42.8
<b>LGS 5508W</b>	Legend Seeds	45.8	44.0	15,682	39.3
<b>18036</b>	Gayland Ward Seeds	47.8	54.9	31,305	31.0
<b>19017</b>	Gayland Ward Seeds	45.8	25.5	27,936	30.3
<b>ADV XG390IG</b>	ADVANTA	42.8	41.7	21,548	26.4
	<b>Standard Error</b>	2.9	5.9	4,386	9.3
	<b>LSD<sup>2</sup></b>	4.8	9.8	7,255	15.5
	<b>Mean<sup>3</sup></b>	43.4	51.9	27,217	56.4
	<b>CV<sup>4</sup></b>	6.7	11.4	16.1	16.5
	<b>Reps</b>	5	5	5	5

**SITE INFORMATION**

Collaborator: Stumpf Research Farm, Grant, NE  
 Planting Date: May 20, 2020  
 Harvest Date: October 30, 2020  
 Seeding Information: 55,000 seeds per acre using precision vacuum seeder with liquid in-furrow starter fertilizer (5 gal/acre 10-34-0).  
 Planting Conditions: Seeding depth of 1" into very low moisture. Planted into no-till pea residue. Very little residue was remaining.  
 GPS: 40.845111, -101.687252  
 Notes: High variability in stand and yield due to dry planting and growing conditions. Field received approximately 10" of precipitation, which is at least 5" less than average during growing season. Recommended to consider multi-year and multi-site averages. Weed control pre-plant with 32 oz Roundup.  
 Further details regarding hybrid characteristics, maturities, and cultural practices will be forthcoming in the Spring Seed Guide.

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<sup>2</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>3</sup> Mean performance of all entries in the trial.

<sup>4</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.