



CROP PERFORMANCE TESTING

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

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Head Height (in)	Days to Flowering ²	Final Stand (plants/acre)	Grain Color
Check	NA	52.9	54.9	33.2	74.8	33,396	Bronze
GA 2620C	Golden Acres	51.9	53.4	34.0	75.8	28,053	Cream
ADV G1329	Alta Seeds	51.8	55.3	31.8	76.2	28,111	Cream
DKS28-05	DEKALB	47.7	52.9	36.6	75.0	33,744	Bronze
DKS29-95	DEKALB	47.6	53.8	33.6	76.0	31,305	Red
GA 2730B	Golden Acres	47.4	53.1	36.4	76.2	31,073	Bronze
GA 1510C	Golden Acres	47.4	55.5	29.8	76.0	32,409	Cream
M59GB94	Dyna-Gro Seed	45.6	51.3	34.2	76.2	26,252	Bronze
5B29	Channel Seed	45.2	52.6	34.0	74.6	33,396	Bronze
SP 43M80	Sorghum Partners	44.1	55.2	37.8	76.4	25,149	Bronze
M59GB57	Dyna-Gro Seed	43.6	53.4	34.2	75.4	25,613	Bronze
SP 25C10	Sorghum Partners	43.4	54.2	32.8	74.4	25,381	Cream
AG1201	Alta Seeds	42.2	54.1	30.0	75.4	29,737	Red
M54GR24	Dyna-Gro Seed	41.8	54.6	34.0	75.4	26,426	Red
DKS27-80	DEKALB	41.6	53.6	34.8	74.4	31,944	Bronze
LGS 5508W	Legend Seeds	41.4	54.1	38.2	76.2	24,742	White
5C35	Channel Seed	40.9	54.4	34.4	75.0	27,878	Cream
LGS 5002	Legend Seeds	40.5	55.6	34.8	75.0	30,202	Red
DKS36-07	DEKALB	40.4	53.0	33.2	76.9	29,969	Bronze
251	Sorghum Partners	39.2	55.3	32.6	75.2	23,522	Red
ADV G1120IG	Alta Seeds	22.8	47.1	36.8	-	23,827	Red
ADV XG015IG	Alta Seeds	-	-	30.0	-	25,497	Red
	Standard Error	4.0	0.9	1.8	0.5	1,731	-
	LSD³	6.6	1.4	3.0	0.8	2,879	-
	Mean⁴	43.8	53.7	34.0	75.5	28,528	-
	CV⁵	9.1	1.6	5.3	0.7	6.1	-
	Reps	5	5	5	5	5	-

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

² Calculated as days from planting to 50% of the plot flowering,

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

⁴ Mean performance of all entries in the trial.

⁵ 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: May 28, 2021
Target Population 45,000 seeds/acre
Harvest Date: November 11, 2021
Fertility: 70 lbs of N as 32-0-0 preplant; 5 gal/acre 10-34-0
Herbicide/Fungicides: Pre-plant burndown with 32 oz Glyphosate and 16 oz 2,4-D; additional 1 lb atrazine used
Soil Type: Alliance loam
GPS: 41.235949, -103.002516
Notes: Planted into no-till wheat stubble. ADV XG015IG and ADV G1120IG are both bred to include a tolerance to imazamox. Both showed lower than expected numbers of heading, with XB015IG having not enough heads to calculate yield, and G1120IG showing sporadic heading and overall low yield.

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