

Cheyenne County Rainfed 2024 Grain Sorghum Hybrid Trial

Name	Company	Head Color ¹	Yield (bu/ac)²	Test Weight (lb/bu)	Plant Height (in)	Stand (plants/acre)	Days to 50% Bloom
5B29	Channel	BR	65.5	47.7	37.5	22,154	68.0
M62GC23	DYNAGRO	С	63.0	46.9	42.2	22,900	77.7
DKS28-05	DeKalb	BR	62.1	47.5	39.4	23,620	68.2
AC2103	RAGT Semences	С	61.0	51.9	41.5	21,101	69.0
SP 31A15	Sorghum Partners	BR	59.1	46.7	35.6	23,534	76.2
Polansky 5433	Polansky Seed	С	57.9	49.8	34.1	18,179	79.0
BH 3818	BH Genetics	R	55.8	49.2	35.9	22,115	77.7
BH 3701C	BH Genetics	С	54.8	46.4	38.9	24,411	76.5
Polansky X61R-A15	Polansky Seed	BR*	54.7	49.7	38.7	21,156	81.5
Polansky 5512	Polansky Seed	С	51.1	46.6	40.2	22,024	80.0
M59GB94	DYNAGRO	BR	50.7	48.4	42.7	24,757	80.2
SP 45A45 DT ³	Sorghum Partners	BR	50.3	47.5	38.0	22,518	81.0
BH 3520	BH Genetics	BR	50.0	48.1	39.3	23,797	72.0
M59GB57	DYNAGRO	BR	49.7	48.7	37.2	25,196	72.8
GX24991	DYNAGRO	R*	49.3	49.1	35.2	24,993	78.2
251	Sorghum Partners	R	49.2	52.8	35.7	23,152	67.3
SP 30A30 DT	Sorghum Partners	BR	47.8	47.5	41.2	23,583	78.5
SP 25C10	Sorghum Partners	С	46.9	48.1	36.2	21,415	68.3
SP 58M85 DT	Sorghum Partners	BR	46.5	49.1	39.4	20,389	74.2
M54GR24	DYNAGRO	R	44.4	51.7	39.4	18,699	71.2
5B27	Channel	BR	44.3	48.2	38.7	21,688	70.7
SWGS2714 DT	Sorghum Partners	BR	41.4	47.4	36.5	14,376	76.7
SP 43M80	Sorghum Partners	BR	37.8	49.9	41.1	17,634	79.2
SWGS2744 DT	Sorghum Partners	С	32.1	48.1	38.4	15,597	77.2
SWGS4764 DT	Sorghum Partners	BR	29.2	47.8	37.7	15,369	82.3
SWGS4754 DT	Sorghum Partners	BR	24.5	46.1	38.0	16,730	78.2
S7G014	RAGT Semences	R	14.8	41.1	45.9	14,659	93.8
S8G031	RAGT Semences	R	12.1	40.0	43.6	10,946	94.0
	Standard Error		5.8	1.0	1.8	2,247	3.6
	LSD ⁴		9.6	1.6	3.0	3,722	5.9
	Mean⁵		46.6	48.2	38.9	20,596	76.8

¹ Head colors: BR, bronze; R, red; C, cream. Those noted with * are as classified in field whereas others are classifications provided by seed company.

² Yield values corrected to 15.5% moisture content. Bolded values indicate highest LSD grouping.

³ DT, Double Team sorghum hybrids carry non-GM trait for FirstAct/quizalofop tolerance.

⁴ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁵ Mean performance of all plots in the trial.

CV	/ 6	12.5	2.0	4.6	10.9	4.6
Re	ps	6	6	6	6	6

SITE INFORMATION

SITE IN SIMILATION		
Collaborator:	UNL High Plains Ag Lab and Jacob Hansen	
Planting Date:	5/24/2024	
Seeding Rate:	45,000 seeds/a	
Harvest Date:	10/16/2024	
Fertility:	50 lb N applied on April 5	
Herbicide/Fungicides:	1 lb atrazine applied fall pre-plant, pre-plant burndown in spring with 32 oz/a glyphosate; field cultivator used at ~V4 for weed control. Hand weeding employed as necessary during the season.	
Soil Type:	Alliance loam	
GPS:	41.228883, -103.002388	
Planting Info:	Planted 1" into good soil moisture in no-till wheat stubble	
Notes on Trial:	Yields good considering lower than optimal final stand and persistent drought throughout growing season. Stand impacted by moderate hail damage early in season and, to a lesser extent, cultivator blight. Moderate rains in August provided benefit to final grain fill and late frost ensured most hybrids reached physiological grain maturity. Test weights reflect drought conditions. Grain protein means available upon request.	

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⁶ 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.

