



UNIVERSITY of NEBRASKA
LINCOLN

Perkins 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
Polansky X61R-A15	Polansky Seed	BR*	70.7	46.1	41.8	28,082	75.8
BH 3701C	BH Genetics	C	61.2	45.6	41.6	29,145	73.4
GX24991	DYNAGRO	R*	61.1	42.9	40.4	23,142	76.4
M59GB94	DYNAGRO	BR	59.6	47.2	49.4	25,287	73.7
M62GC23	DYNAGRO	C	59.4	46.6	41.6	26,586	74.5
M59GB57	DYNAGRO	BR	55.3	49.9	37.7	30,896	71.0
BH 3520	BH Genetics	BR	54.9	48.7	41.6	27,732	73.9
BH 3818	BH Genetics	R	50.1	52.3	38.6	27,089	75.6
SWGS4754 DT	Sorghum Partners	BR	49.9	43.9	43.8	18,739	79.3
SP 30A30 DT	Sorghum Partners	BR	49.8	44.6	42.2	23,828	76.2
Polansky 5433	Polansky Seed	C	48.9	52.6	37.0	22,295	72.0
M63GB78	DYNAGRO	BR	48.9	54.7	40.2	24,679	78.6
5B29	Channel	BR	48.7	45.2	37.8	24,963	69.1
5B27	Channel	BR	47.3	43.7	39.2	20,935	68.2
SP 58M85 DT	Sorghum Partners	BR	47.0	45.7	43.0	22,608	73.2
SWGS4764 DT	Sorghum Partners	BR	46.8	44.6	43.4	18,404	79.0
SP 31A15	Sorghum Partners	BR	45.7	42.9	39.8	20,289	75.0
M67GB87	DYNAGRO	BR	45.1	51.1	51.6	19,860	78.7
SP 45A45 DT	Sorghum Partners	BR	45.1	45.4	43.8	22,260	78.0
Polansky 5512	Polansky Seed	C	42.3	43.0	43.0	21,329	78.2
SP 25C10	Sorghum Partners	C	41.9	48.0	37.6	20,885	68.6
SWGS2714 DT	Sorghum Partners	BR	41.7	49.3	39.0	20,382	72.6
M60GB88	DYNAGRO	BR	40.5	51.8	45.0	22,138	77.8
AC2103	RAGT Semences	C	39.3	49.4	40.4	22,363	71.6
M54GR24	DYNAGRO	R	38.6	56.2	39.0	24,961	70.0
SP 43M80	Sorghum Partners	BR	38.5	56.4	44.8	25,944	73.4
Polansky 6531 DT	Polansky Seed	BR	38.4	47.4	41.0	19,403	75.9
SWGS2744 DT	Sorghum Partners	C	38.3	48.2	42.2	18,095	72.6
M60GB31	DYNAGRO	BR	35.6	54.6	49.8	21,616	78.4
S7G014	RAGT Semences	R	35.2	42.6	53.2	19,316	78.8
S7G013	RAGT Semences	R	34.5	43.5	50.2	20,222	78.9

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.

S7G015	RAGT Semences	R	29.5	46.7	56.0	21,407	79.0
S8G021	RAGT Semences	R	28.5	45.9	48.8	18,537	77.6
251	Sorghum Partners	R	26.6	53.6	36.4	18,918	69.4
S8G035	RAGT Semences	R	23.2	41.9	56.6	16,821	77.9
S8G031	RAGT Semences	R	19.6	43.0	54.2	14,821	77.2
	Standard Error		5.2	2.7	2.4	2,001	1.5
	LSD³		8.6	4.5	4.0	3,314	2.5
	Mean⁴		44.1	47.7	43.7	22,333	75.0
	CV⁵		11.8	5.6	5.6	9.0	2.0
	Reps		5	5	5	5	5

SITE INFORMATION

Collaborator:	UNL Stumpf International Wheat Research Center and Justin Richardson
Planting Date:	5/30/2024
Seeding Rate:	60,000 seeds/a
Harvest Date:	11/4/2024
Soil Type:	Kuma and Alliance silt loams
GPS:	40.845224, -101.686776
Planting Info:	Planted 1" into good soil moisture in no-till wheat stubble
Notes on Trial:	Late season rains delayed dry down and harvest date. Overall had poorer than expected yields and stand due to persistent drought during the growing season. Some experimental hybrids were poorly adapted and drove down mean yields and stands. Weed pressure lower than in most years. Grain protein means available upon request.

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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 plots 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.