



UNIVERSITY of NEBRASKA  
LINCOLN

# 2019 Grain Sorghum Variety Trial, Rainfed, Perkins County, Nebr.

Planting date: May 17, 2019

Harvest date: Nov. 3, 2019

Yield (bu/ac), performance ranking, and variety characteristics of 24 grain sorghum varieties grown in 15- and 30-inch rows at Grant, Nebraska in 2019.

Company	Variety	15-inch rows		30-inch rows		Yield difference (15- vs 30-inch rows)	Variety characteristics				
		Yield (bu/ac) <sup>1</sup>	Rank	Yield (bu/ac)	Rank		Type/Class <sup>2</sup>	Grain Color <sup>3</sup>	Plant Color <sup>4</sup>	Relative Maturity <sup>5</sup>	Days to Mid-bloom
Arrow seed	AS212	114	13	125	2	-11	C	R	P	E	51
Arrow seed	AS248FG	113	18	95	14	+17	F	W	T	E/M	60
Arrow seed	AS262	86	24	58	22	+28	C	R	P	M	65
Dyna-Gro	M54GR24	123	7	97	12	+26	C	B	P	E	54
Dyna-Gro	M57GB19	128	2	63	21	+66	C	B	P	E	57
Dyna-Gro	M59GB57	118	9	132	1	-13	C	B	P	E	59
Dyna-Gro	M60GB31	117	10	84	19	+33	C	B	P	M	60
Dyna-Gro	M60GB88	113	17	89	16	+24	C	B	P	E/M	60
Dyna-Gro	M62GB77	109	19	94	15	+15	C	B	P	M	62
Golden Acres	2620C	107	20	95	13	+12	C	C	P	ME	58
Golden Acres	2730B	114	14	84	20	+31	C	B	P	ME	59
Golden Acres	2950B	132	1	122	4	+10	C	B	P	ME	58
Hoegemeyer	HPT 6020	124	5	124	3	0	C	R	.	E	62
Hoegemeyer	HPT 6064	99	23	22	24	+77	C	B	.	ME	66
Hoegemeyer	XP4720	106	21	57	23	+49	C	B	.	M	66
Pioneer	86P20	127	3	120	5	+8	C	R	P	E	64
Pioneer	87P10	113	16	85	18	+28	C	R	P	E	63
Pioneer	88P71	115	12	115	7	0	C	R	P	E	62
Sorghum Partners	SP 25C10	117	11	87	17	+30	C	C	P	E	51
Sorghum Partners	SP 31A15	104	22	107	9	-3	C	B	P	E	57
Sorghum Partners	KS310	124	4	105	10	+19	C	B	P	E	57
Sorghum Partners	SP 33S40	114	15	117	6	-3	F	C	T	ME	58
Sorghum Partners	SP 43M80	119	8	114	8	+5	C	B	P	ME	60
Sorghum Partners	SP 68M57	123	6	100	11	+23	C	B	P	ME	67
Average of all varieties		115		95		+20					
Difference at 5% level (LSD)		17		15							
Coefficient of variation (CV)		9		12							

<sup>1</sup> Yield at 56 lbs/bu adjusted to 14% grain moisture      <sup>2</sup> C = commercial hybrid, F = food hybrid

<sup>3</sup> B = bronze, C = cream, R = red, Y = yellow, W = white, etc.      <sup>4</sup> P = purple, T = Tan

<sup>5</sup> E = early, E/M = early-medium, M = medium, M/L = medium-late, L = late

**Note:** This trial was conducted by Extension Educator Strahinja Steponovic. Please contact him at [strahinja.steponovic@unl.edu](mailto:strahinja.steponovic@unl.edu) for more information.

**Ranking of grain sorghum varieties by their performance in 15- and 30-inch rows**

Rank	15-inch rows			30-inch rows		
	Company	Variety	Yield (bu/ac) <sup>1</sup>	Company	Variety	Yield (bu/ac)
1	Golden Acres	2950B	132	Dyna-Gro	M59GB57	132
2	Dyna-Gro	M57GB19	128	Arrow seed	AS212	125
3	Pioneer	86P20	127	Hoegemeyer	HPT 6020	124
4	Sorghum Partners	KS310	124	Golden Acres	2950B	122
5	Hoegemeyer	HPT 6020	124	Pioneer	86P20	120
6	Sorghum Partners	SP 68M57	123	Sorghum Partners	SP 33S40	117
7	Dyna-Gro	M54GR24	123	Pioneer	88P71	115
8	Sorghum Partners	SP 43M80	119	Sorghum Partners	SP 43M80	114
9	Dyna-Gro	M59GB57	118	Sorghum Partners	SP 31A15	107
10	Dyna-Gro	M60GB31	117	Sorghum Partners	KS310	105
11	Sorghum Partners	SP 25C10	117	Sorghum Partners	SP 68M57	100
12	Pioneer	88P71	115	Dyna-Gro	M54GR24	97
13	Arrow seed	AS212	114	Golden Acres	2620C	95
14	Golden Acres	2730B	114	Arrow seed	AS248FG	95
15	Sorghum Partners	SP 33S40	114	Dyna-Gro	M62GB77	94
16	Pioneer	87P10	113	Dyna-Gro	M60GB88	89
17	Dyna-Gro	M60GB88	113	Sorghum Partners	SP 25C10	87
18	Arrow seed	AS248FG	113	Pioneer	87P10	85
19	Dyna-Gro	M62GB77	109	Dyna-Gro	M60GB31	84
20	Golden Acres	2620C	107	Golden Acres	2730B	84
21	Hoegemeyer	XP4720	106	Dyna-Gro	M57GB19	63
22	Sorghum Partners	SP 31A15	104	Arrow seed	AS262	58
23	Hoegemeyer	HPT 6064	99	Hoegemeyer	XP4720	57
24	Arrow seed	AS262	86	Hoegemeyer	HPT 6064	22
	Difference at 5% level (LSD)		17			15

<sup>1</sup> Yield at 56 lbs/bu adjusted to 14% grain moisture

**Trial summary**

**Site description**

- **Soil type:** Kuma silt loam
- **Previous crop:** Wheat (stripper header)
- **Tillage:** no-till
- **Irrigation:** none
- **Rainfall (May to Oct):** 16 inch

**Agronomic practices**

- **Planting date:** May 17, 2019
- **Harvest date:** Nov 3, 2019
- **Row spacing:** 15 and 30 inch rows
- **Seeding rate:** 65,000 seeds/ac
- **Final population:** ~45,000 plants/ac
- **Herbicide + Fertilizer (Apr 27):**
  - 32 oz Buccaneer 5 + AMS
  - 14 oz Verdict
  - 16 oz Atrazine 4L
  - 29 gal of 32-0-0 (100 lbs N/ac)

