



## 2023 Dryland Grain Sorghum Hybrid Performance Trial at Sheridan Lake



Brand	Hybrid	Grain Yield <sup>a</sup>		2-Year Avg. Yield		Test Weight		Emerged Plant Population		Harvest Population <sup>b</sup>		50% Bloom	Plant Height		Maturity Group <sup>d</sup>	Grain Color
		bu/ac	% of test avg.	bu/ac	lb/bu	percent	plants/ac	heads/ac	tillers/plant	days after planting	inches		percent			
Channel Seed	5B70	<b>127.9</b>	116%	-	61	14	29,486	52,584	0.7	74	45	20	ME	Bronze		
Hoegemeyer Seed	H6037	<b>124.4</b>	113%	88	62	13	37,311	55,650	0.5	68	45	33	ME	Red		
Dyna-Gro Seed	GX22923	<b>123.8</b>	112%	91	62	13	31,828	59,431	0.9	70	43	33	E	Cream		
Sorghum Partners	SP 45A45 DT	<b>122.4</b>	111%	83	61	13	35,490	56,751	0.5	74	45	5	ME	Bronze		
Dekalb	DKS38-16	<b>122.3</b>	111%	88	64	15	33,898	51,758	0.5	73	49	18	ME	Bronze		
Dekalb	DKS36-07	<b>121.3</b>	110%	87	62	14	34,913	62,030	0.8	72	45	33	ME	Bronze		
Sorghum Partners	SP 31A15	116.7	106%	84	62	14	34,687	53,946	0.4	72	42	3	ME	Bronze		
Dyna-Gro Seed	M59GB94	116.3	105%	85	63	13	31,594	68,034	1.1	70	47	0	E	Bronze		
Dyna-Gro Seed	M63GB78	116.3	105%	84	63	12	29,443	48,420	0.7	75	46	30	ME	Bronze		
Alta Seed	ADV G2106	115.9	105%	-	64	13	33,992	45,253	0.3	72	42	5	M	Red		
Golden Acres	GA 2630C	115.9	105%	-	63	15	33,471	61,123	0.8	70	42	28	E	Cream		
Dyna-Gro Seed	M60GB88	115.1	104%	85	63	14	28,628	52,415	0.9	75	47	18	ME	Bronze		
Sorghum Partners	SP 30A30 DT	113.1	102%	81	63	13	34,406	61,611	0.7	72	47	25	ME	Bronze		
Dyna-Gro Seed	M59GB57	111.5	101%	77	62	13	31,454	56,496	1.0	66	41	3	E	Bronze		
Hoegemeyer Seed	H6020	111.4	101%	80	63	14	30,851	55,566	0.7	68	43	30	ME	Red		
Pioneer	86P20	111.1	101%	-	62	13	36,382	49,283	0.3	70	42	10	ME	Red		
Sorghum Partners	SPSD353	111.0	101%	-	61	15	23,734	47,821	0.8	82	43	0	M	Bronze		
Sorghum Partners	SP 65M60	110.7	100%	-	59	13	34,746	40,572	0.2	88	47	0	M	Bronze		
Dyna-Gro Seed	M60GB31	109.6	99%	79	62	16	29,599	49,707	0.6	79	50	0	ME	Bronze		
Alta Seed	ADV G21681G	109.6	99%	-	63	13	29,573	53,474	0.7	73	42	5	M	Red		
Dekalb	DKS29-95	108.3	98%	84	62	14	34,998	58,449	0.7	71	45	0	E	Dark Red		
Hoegemeyer Seed	H6006	106.7	97%	-	64	16	35,416	58,558	0.6	69	41	18	ME	Red		
Dyna-Gro Seed	M54GR24	103.8	94%	76	61	15	31,273	60,753	0.9	64	43	0	E	Red		
Sorghum Partners	SP 66M16	103.2	94%	-	62	18	24,437	54,822	1.1	79	44	0	M	Bronze		
Golden Acres	GA 2730B	103.0	93%	73	63	14	30,224	49,586	0.6	70	46	13	ME	Bronze		
Sorghum Partners	SP 43M80	102.9	93%	77	63	18	32,472	42,636	0.3	71	47	0	ME	Bronze		
Dekalb	DKS28-07	102.8	93%	75	62	13	37,028	60,831	0.6	65	46	10	E	Bronze		
Dekalb	DKS29-28	102.2	93%	74	63	13	32,400	53,337	0.8	67	36	0	E	Bronze		
Dekalb	DKS28-05	99.4	90%	74	62	13	36,812	61,423	0.7	64	44	8	E	Bronze		
Alta Seed	ADV G21931G	98.4	89%	-	63	14	31,697	51,022	0.6	73	42	8	M	Red		
Golden Acres	GA 1510C	98.2	89%	68	62	15	31,467	51,040	0.6	71	42	0	E	Cream		
Alta Seed	ADV G1329	94.4	85%	-	62	13	30,470	45,842	0.6	73	36	3	E	Cream		
Pioneer	89Y79	93.4	85%	-	61	14	33,709	53,020	0.5	65	43	3	E	White		
<b>Average</b>		<b>110.4</b>	<b>100%</b>	<b>81</b>	<b>62</b>	<b>14</b>	<b>32,400</b>	<b>54,000</b>	<b>0.7</b>	<b>72</b>	<b>44</b>	<b>11</b>				
°LSD (.30)		6.8														
°LSD (.05)		12.9														
Coefficient of Variation (CV)		9.9														

<sup>a</sup>Yields adjusted to 14% moisture and hybrids ranked by yield. Hybrid yields in bold are in the top LSD group (.30).

<sup>b</sup>Harvest population is the total number of grain-producing heads/panicles counted at harvest that were mature, including tillers.

<sup>c</sup>Average number of productive (grain containing and mature) tiller heads per plant. Does not include main plant head.

<sup>d</sup>Maturity group: E=early; ME=medium-early; M=medium. Maturity groups are provided by the company and may not align with the observed flowering dates in the trial due to the latitude and relatively high elevation of the trial site (3,990 feet).

<sup>e</sup>If the difference between varieties is equal to or greater than the LSD value, the chance the difference is significant is 70% (for LSD 0.30) or 95% (for LSD 0.05). Farmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding hybrids are the same when they are actually different). Companies or researchers may use LSD (.05) to avoid false positive conclusions (concluding hybrids are different when they are actually the same).

**Site Information**

Collaborator: Scherler Farms  
 Planting Date: May 31, 2023  
 Harvest Date: October 17, 2023  
 Fertilizer: Pre-plant: N at 50 lb/ac  
 Herbicide: 2,4-D LV4 at 0.33 pt/ac applied on June 29  
 Soil Type: Olney sandy loam  
 GPS Coordinates: 38.524830,-102.473385  
 Trial Comments: Planted 1.5" deep into moisture. Very good stands and emergence and excellent weed control throughout the season. Trial average flowering date of August 10th. Radar estimates showed the trial received about 10.2 inches of rain from planting to harvest, and 17.9 inches since January 1st, which is 121% of the ten-year average (year-to-date).

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