

College Station

2023 Grain Sorghum Performance Trial

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX22934	76	61	5	0	14.5	59.7	7,529
DEKALB	DKS 54-07	78	63	6	0	14.4	59.1	7,510
Integra	G3711	78	62	5	0	15.2	60.6	7,501
Golden Acres	4880R	79	60	4	0	14.4	59.7	7,095
DEKALB	DKS 44-07	74	55	5	0	13.7	60.2	7,082
Integra	G3665	73	56	5	0	13.2	58.7	6,981
DEKALB	DKS 50-07	77	59	4	0	15.1	60.1	6,928
Integra	G3640	75	56	6	0	13.5	59.5	6,813
Dyna-Gro	GX22937	75	58	5	0	13.8	59.7	6,784
Dyna-Gro	GX22936	74	56	7	0	13.8	59.8	6,639
DEKALB	DKS 45-60	76	60	8	0	14.2	60.2	6,597
DEKALB	DKS 40-76	75	57	8	0	14.0	59.2	6,559
Dyna-Gro	M71GR91	78	59	6	0	14.4	59.9	6,495
Dyna-Gro	M72GB71	77	61	6	0	13.8	59.7	6,251
Dyna-Gro	GX22932	77	60	5	0	13.8	60.2	6,235
Dyna-Gro	M67GB87	76	59	4	0	13.6	58.4	6,208
Sorghum Partners	SP65M60	74	56	5	0	12.9	57.7	5,822
Dyna-Gro	M63GB78	74	54	6	0	13.5	59.3	5,665
Sorghum Partners	SP7715	77	57	6	0	14.3	59.1	5,511
Scott Seed	S75N495	78	63	6	0	14.5	59.7	5,375
Innvictis	X166R23	77	54	3	0	14.4	59.2	5,036

*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.

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Golden Acres	3070R	76	53	4	0	14.0	59.4	4,585
Dyna-Gro	M60GB31	76	50	5	0	14.0	58.2	4,537
Innvictis	GS62R23	75	64	7	0	13.4	59.4	4,430
Scott Seed	S75A60	79	59	3	0	14.2	59.0	4,228
Innvictis	GS71R23	80	58	3	0	13.7	59.1	4,048
Scott Seed	S75N75	76	63	7	0	13.8	58.8	3,946
Scott Seed	S78A30	80	54	2	0	13.8	58.3	3,732
Innvictis	GS70R23	80	53	1	0	12.8	57.8	3,540

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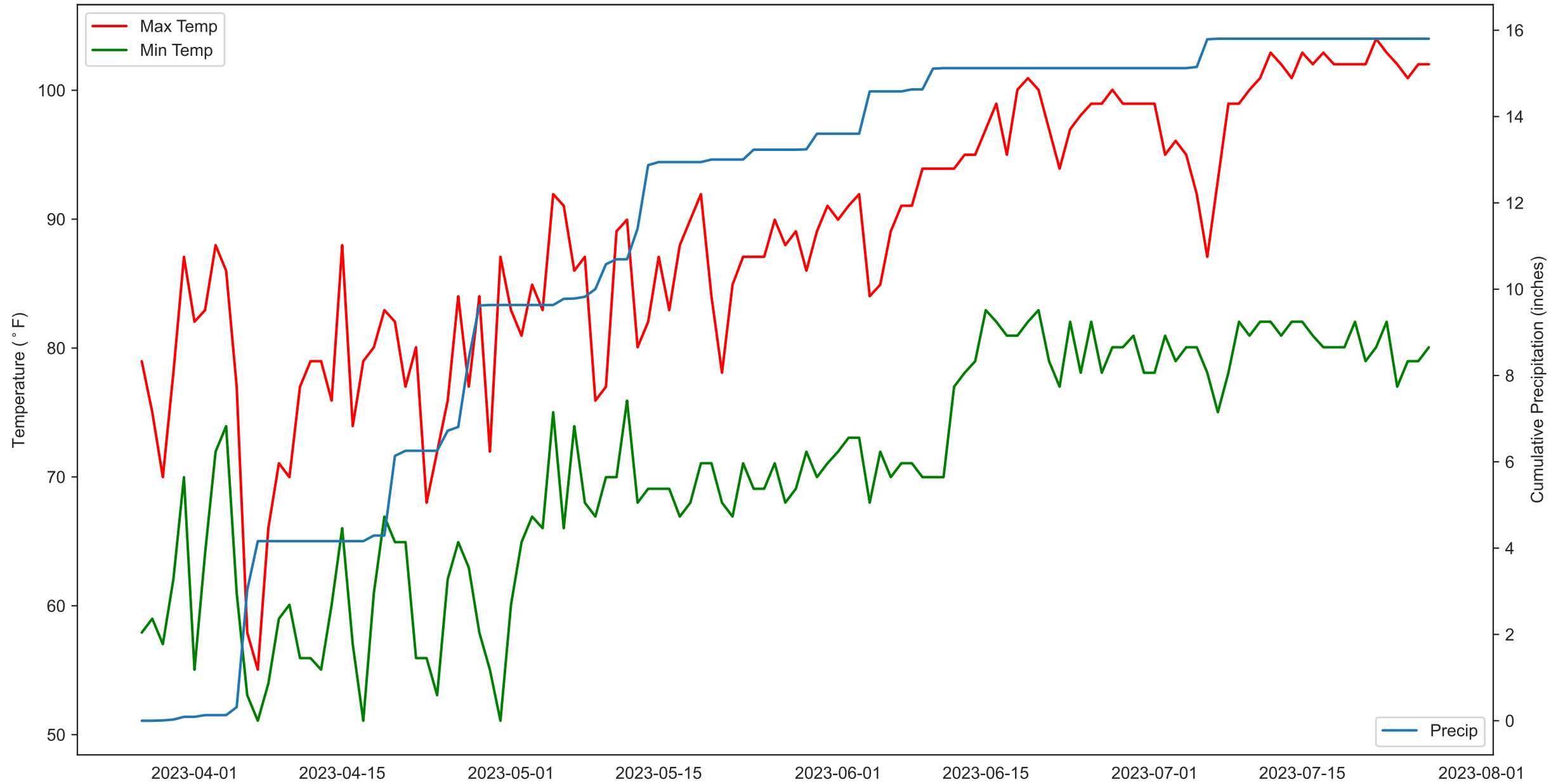
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Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)	
Agronomic information		Mean	76	58	5	0.0	13.9	59.3	5,850
Plant Date	3/27/2023	C.V. %	1.7	2.9	17.9		5.8	0.9	10.0
Harvest Date	7/27/2023	P>f (hybrid)	0.000	0.000	0.000		0.078	0.000	0.000
Irrigated	Yes	L.S.D.	1.9	2.5	1.3		0.8	0.8	969.6
Row Spacing (in)	30	Trial Notes							Cooperator: Texas A&M AgriLife
Number of Rows	2	<p>Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from planting date through the harvest date. For additional information contact:</p> <p>Dr. Ronnie Schnell / Katrina Horn ronnie.schnell@ag.tamu.edu / katrina.horn@ag.tamu.edu 979-845-2935 / 979-845-8505</p>							
Target Seeds per Acre	80,000								
Precipitation (in)	15.8								
Irrigation (in)	2								
Herbicide	4 pt/ac Atrazine 4L + 10 oz/ac Outlook	* Mehlich 3 by ICP, soiltesting.tamu.edu							
Soil Type	Weswood silty clay loam	** Samples collected at planting, some locations may have applied fertilizer							
Tillage	Conventional	Fertilizer Applied		Soil Analysis Report**					
Previous Crop	Grain Sorghum	N (lb/ac)	100	NO3-N (ppm)	12	pH	7.5		
		P2O5 (lb/ac)	0	P (ppm)*	44	Conductivity (umho/cm)	61		
		K2O (lb/ac)	0	K (ppm)*	192	Ca (ppm)*	5,409		
		S (lb/ac)	18	S (ppm)*	47	Mg (ppm)*	182		
		Zn (lb/ac)	0			Na (ppm)*	14		

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Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Weathering Rating (0-9)	Iron Chlorosis Rating
Sorghum Partners	SP65M60	62,726	63,815	78	0.07	0.0	0.09		
Sorghum Partners	SP7715	59,895	66,211	75	0.11	0.0	0.08		
Scott Seed	S75A60		44,431	67		0.0	0.09		
Scott Seed	S75N495		59,024	76	0.17	0.0	0.09		
Scott Seed	S75N75		35,066	54	0.18	0.0	0.11		
Scott Seed	S78A30		49,876	66	0.08	0.0	0.07		
Integra	G3640	68,171	71,003	85	0.24	0.0	0.10		
Integra	G3665	69,406	73,762	87	0.11	0.0	0.09		
Integra	G3711	67,954	69,696	85	0.03	0.0	0.11		
Innvictis	GS62R23		37,462	64		0.0	0.12		
Innvictis	GS70R23	36,590	41,237	46	0.54	0.0	0.08		
Innvictis	GS71R23		45,085	62	0.13	0.0	0.09		
Innvictis	X166R23	47,335	48,497	59	0.22	0.0	0.10		
Golden Acres	3070R	38,333	43,778	48	0.48	0.0	0.11		
Golden Acres	4880R	64,469	69,478	81	0.12	0.0	0.10		
Dyna-Gro	GX22932	59,242	66,865	74	0.13	0.0	0.09		
Dyna-Gro	GX22934	63,307	66,211	79	0.08	0.0	0.11		
Dyna-Gro	GX22936	68,171	70,567	85	0.09	0.0	0.09		
Dyna-Gro	GX22937		61,420	81	0.03	0.0	0.11		
Dyna-Gro	M60GB31		62,291	78	0.02	0.0	0.07		
Dyna-Gro	M63GB78	49,441	55,975	62	0.20	0.0	0.10		
Dyna-Gro	M67GB87	57,790	60,984	72	0.11	0.0	0.10		



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Dyna-Gro	M71GR91	58,806	70,349	74	0.32	0.0	0.09		
Dyna-Gro	M72GB71		60,548	77	0.04	0.0	0.10		
DEKALB	DKS 40-76		66,211	83	0.03	0.0	0.10		
DEKALB	DKS 44-07	64,469	72,310	81	0.13	0.0	0.10		
DEKALB	DKS 45-60	60,113	68,171	75	0.25	0.0	0.10		
DEKALB	DKS 50-07	64,687	70,349	81	0.24	0.0	0.10		
DEKALB	DKS 54-07	62,146	65,050	78	0.05	0.0	0.11		



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Mean	58,250	59,852	73	0.16	0.0	0.10		
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Agronomic information

Plant Date: 3/27/2023
 Harvest Date: 7/27/2023
 Irrigated: Yes
 Row Spacing (in): 30
 Number of Rows: 2
 Target Seeds per Acre: 80,000
 Precipitation (in): 15.8
 Irrigation (in): 2

Herbicide
 4 pt/ac Atrazine 4L + 10 oz/ac Outlook

Soil Type: Weswood silty clay loam
 Tillage: Conventional
 Previous Crop: Grain Sorghum

Trial Notes

* Mehlich 3 by ICP, soiltesting.tamu.edu
 ** Samples collected at planting, some locations may have applied fertilizer

Cooperator: Texas A&M AgriLife

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from planting date through the harvest date. For additional information contact:

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Fertilizer Applied		Soil Analysis Report**			
N (lb/ac)	100	NO3-N (ppm)	12	pH	7.5
P2O5 (lb/ac)	0	P (ppm)*	44	Conductivity (umho/cm)	61
K2O (lb/ac)	0	K (ppm)*	192	Ca (ppm)*	5,409
S (lb/ac)	18	S (ppm)*	47	Mg (ppm)*	182
Zn (lb/ac)	0			Na (ppm)*	14

Grain Sorghum College Station Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 44-07	6,129	6,156
Nutrien Ag	Dyna-Gro	GX22934	5,801	
Wilbur-Ellis Company	Integra	G3665	5,687	5,878
Bayer	DEKALB	DKS 50-07	5,585	5,884
Wilbur-Ellis Company	Integra	G3711	5,530	5,411
Bayer	DEKALB	DKS 54-07	5,520	5,333
LG Seeds	Golden Acres	4880R	5,456	5,726
Nutrien Ag	Dyna-Gro	M67GB87	5,322	5,608
Nutrien Ag	Dyna-Gro	M71GR91	5,180	5,505
Bayer	DEKALB	DKS 40-76	5,168	
Bayer	DEKALB	DKS 45-60	5,134	
Nutrien Ag	Dyna-Gro	GX22932	5,112	
Nutrien Ag	Dyna-Gro	M72GB71	4,930	5,088
Nutrien Ag	Dyna-Gro	M63GB78	4,601	4,682
Nutrien Ag	Dyna-Gro	M60GB31	3,524	
Scott Seed Company	Scott Seed	S75A60	3,397	
Scott Seed Company	Scott Seed	S75N495	3,261	
Scott Seed Company	Scott Seed	S78A30	2,799	
Scott Seed Company	Scott Seed	S75N75	2,562	

Evaluation of yield across years and/or locations will provide the best indication of consistent hybrid performance. Only hybrids with two years data at each location are displayed.