

Canyon

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)
DEKALB	DKS 50-07	N/A	45	2	0	14.9	61.0	4,933
DEKALB	DKS 44-07	N/A	41	1	0	16.1	59.6	4,805
Golden Acres	4880R	N/A	44	1	0	14.3	60.1	4,577
Dyna-Gro	GX22932	N/A	44	1	0	16.8	59.6	4,565
Dyna-Gro	M59GB94	N/A	42	1	0	14.3	60.5	4,526
Dyna-Gro	M67GB87	N/A	44	1	0	14.0	56.7	4,505
Golden Acres	3180B	N/A	43	1	0	14.7	58.9	4,367
Dyna-Gro	M72GB71	N/A	45	1	0	16.2	60.2	4,353
DEKALB	DKS 45-60	N/A	42	1	0	14.6	58.2	4,309
DEKALB	DKS 36-07	N/A	41	1	0	14.1	58.2	4,198
DEKALB	DKS 33-07	N/A	42	1	0	13.8	58.7	4,142
DEKALB	DKS 28-07	N/A	38	2	0	12.3	55.0	4,045
DEKALB	DKS 40-76	N/A	44	1	0	14.3	60.5	4,012
Dyna-Gro	M71GR91	N/A	46	1	0	15.3	59.1	3,840
Dyna-Gro	M60GB31	N/A	44	2	0	15.0	57.6	3,805
Dyna-Gro	GX22937	N/A	40	1	0	12.7	57.3	3,768
Integra	G3665	N/A	40	1	0	14.5	56.0	3,545
DEKALB	DKS 54-07	N/A	43	0	0	15.2	59.0	3,539
Integra	G3640	N/A	40	2	0	13.4	58.8	3,452
Dyna-Gro	M63GB78	N/A	40	1	0	13.8	57.9	3,451
Dyna-Gro	GX22923	N/A	42	1	0	13.5	57.5	3,431

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



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Dyna-Gro	GX22934	N/A	43	1	0	14.7	61.2	3,257
Integra	G3711	N/A	46	2	0	14.8	60.4	3,232
Dyna-Gro	GX22936	N/A	41	2	0	13.7	59.0	3,084
Dyna-Gro	M54GR24	N/A	38	4	0	13.3	57.5	2,873

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Agronomic information	
Plant Date	6/22/2023
Harvest Date	11/1/2023
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	45,000
Precipitation (in)	7.488
Irrigation (in)	
Herbicide	
Soil Type	Pullman clay loam
Tillage	Conventional
Previous Crop	Cotton

Mean	42	1	0.0	14.4	58.7	3,945
C.V. %	7.4	91.1		8.6	3.6	20.3
P>f (hybrid)	0.009			0.024	0.083	0.000
L.S.D.	4.4			2.1		921.1

Trial Notes

Cooperator: Danny Hicks Farm

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:

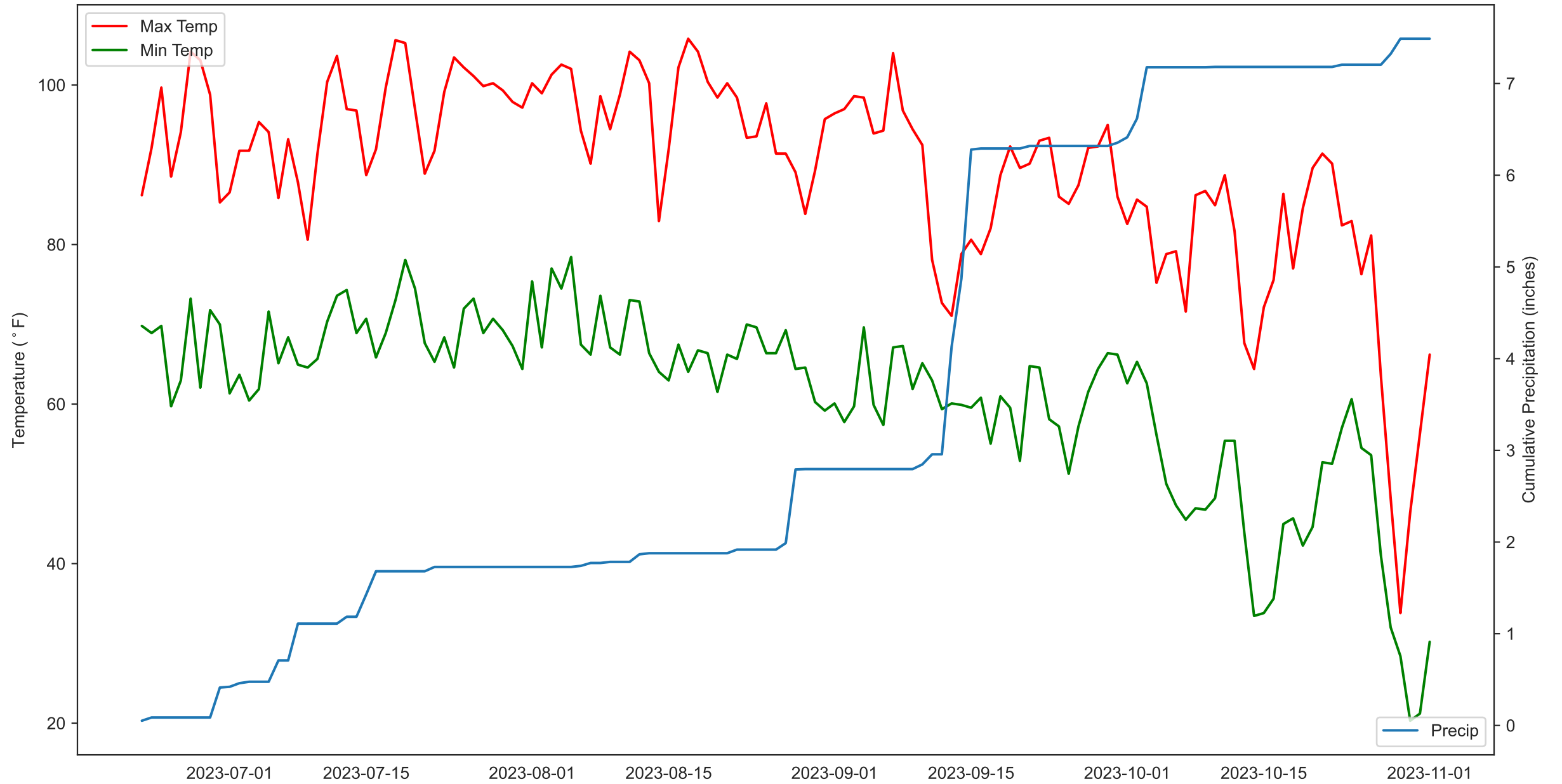
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979-845-2935 / 979-845-8505

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

Fertilizer Applied		Soil Analysis Report**			
N (lb/ac)		NO3-N (ppm)	45	pH	6.5
P2O5 (lb/ac)		P (ppm)*	116	Conductivity (umho/cm)	287
K2O (lb/ac)		K (ppm)*	895	Ca (ppm)*	2,068
S (lb/ac)		S (ppm)*	32	Mg (ppm)*	645
Zn (lb/ac)				Na (ppm)*	46

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2023 Grain Sorghum Performance Trial

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
Integra	G3640	38,042	47,335	85	0.24	0.0	0.08		
Integra	G3665	32,234	48,787	72	0.52	0.0	0.07		
Integra	G3711	39,785	44,431	88	0.13	0.0	0.07		
Golden Acres	3180B	37,897	54,886	84	0.45	0.0	0.08		
Golden Acres	4880R	38,768	47,045	86	0.21	0.0	0.10		
Dyna-Gro	GX22923	30,202	58,080	67	0.94	0.0	0.06		
Dyna-Gro	GX22932	33,541	51,401	75	0.53	0.0	0.08		
Dyna-Gro	GX22934	35,429	39,204	79	0.12	0.0	0.08		
Dyna-Gro	GX22936	34,267	40,946	76	0.31	0.0	0.07		
Dyna-Gro	GX22937	33,686	52,853	75	0.54	0.0	0.07		
Dyna-Gro	M54GR24	30,782	54,595	68	0.82	0.0	0.07		
Dyna-Gro	M59GB94	33,396	58,080	74	0.86	0.0	0.09		
Dyna-Gro	M60GB31	36,300	47,045	81	0.29	0.0	0.08		
Dyna-Gro	M63GB78	26,426	47,916	59	0.82	0.0	0.08		
Dyna-Gro	M67GB87	35,719	50,820	79	0.61	0.0	0.09		
Dyna-Gro	M71GR91	36,881	42,979	82	0.18	0.0	0.09		
Dyna-Gro	M72GB71	38,914	39,204	86	0.06	0.0	0.11		
DEKALB	DKS 28-07	36,881	64,759	82	0.75	0.0	0.07		
DEKALB	DKS 33-07	36,881	52,853	82	0.49	0.0	0.07		
DEKALB	DKS 36-07	35,138	56,628	78	0.63	0.0	0.07		
DEKALB	DKS 40-76	37,462	47,916	83	0.32	0.0	0.08		
DEKALB	DKS 44-07	35,719	51,691	79	0.51	0.0	0.09		



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DEKALB	DKS 45-60	39,204	47,335	87	0.21	0.0	0.09		
DEKALB	DKS 50-07	38,333	52,853	85	0.42	0.0	0.10		
DEKALB	DKS 54-07	39,204	45,012	87	0.28	0.0	0.08		



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Mean	35,644	49,786	79	0.45	0.0	0.08		
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Agronomic information

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Precipitation (in)	7.488
Irrigation (in)	

Herbicide

Soil Type	Pullman clay loam
Tillage	Conventional
Previous Crop	Cotton

Trial Notes

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

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Fertilizer Applied		Soil Analysis Report**			
N (lb/ac)		NO3-N (ppm)	45	pH	6.5
P2O5 (lb/ac)		P (ppm)*	116	Conductivity (umho/cm)	287
K2O (lb/ac)		K (ppm)*	895	Ca (ppm)*	2,068
S (lb/ac)		S (ppm)*	32	Mg (ppm)*	645
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Grain Sorghum Canyon Multi-Year Summary



Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 44-07	5,227	
LG Seeds	Golden Acres	3180B	4,800	
LG Seeds	Golden Acres	4880R	4,603	
Nutrien Ag	Dyna-Gro	GX22932	4,601	
Bayer	DEKALB	DKS 50-07	4,554	
Nutrien Ag	Dyna-Gro	M67GB87	4,490	
Bayer	DEKALB	DKS 40-76	4,342	
Bayer	DEKALB	DKS 45-60	4,286	
Wilbur-Ellis Company	Integra	G3665	4,270	
Nutrien Ag	Dyna-Gro	M71GR91	4,214	
Nutrien Ag	Dyna-Gro	M54GR24	4,181	
Nutrien Ag	Dyna-Gro	M60GB31	4,086	
Nutrien Ag	Dyna-Gro	GX22934	4,048	
Wilbur-Ellis Company	Integra	G3711	4,016	
Nutrien Ag	Dyna-Gro	M59GB94	4,012	
Nutrien Ag	Dyna-Gro	M72GB71	3,974	
Bayer	DEKALB	DKS 36-07	3,930	
Nutrien Ag	Dyna-Gro	M63GB78	3,625	

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.