

# Canyon

## 2022 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 44-07	N/A	49	4	0	14.7	56.5	5,985
Golden Acres	3180B	N/A	53	5	0	14.7	52.9	5,173
Dyna-Gro	GX22932	N/A	58	5	0	15.7	54.8	5,070
Integra	G3665	N/A	57	6	3	13.6	54.8	5,059
Dyna-Gro	GX22934	N/A	57	6	0	15.7	56.9	5,046
Dyna-Gro	M54GR24	N/A	48	7	25	14.2	56.5	4,845
Alta Seeds	ADVG 2165	N/A	53	5	7	15.1	54.9	4,777
Integra	G3711	N/A	54	4	0	14.7	56.4	4,776
Alta Seeds	ADVG 2168IG	N/A	51	6	0	15.1	53.7	4,768
DEKALB	DKS 40-76	N/A	55	7	0	15.3	54.8	4,717
Dyna-Gro	M71GR91	N/A	57	6	8	14.1	55.6	4,566
Dyna-Gro	M67GB87	N/A	56	3	0	14.3	55.3	4,453
Golden Acres	4880R	N/A	53	3	0	15.4	55.4	4,317
Dyna-Gro	M60GB31	N/A	53	7	10	14.6	55.5	4,311
Dyna-Gro	GX21965	N/A	54	5	18	14.1	55.3	4,226
Integra	G3620	N/A	50	7	0	13.6	56.0	4,171
DEKALB	DKS 45-60	N/A	57	6	0	15.7	56.1	4,127
DEKALB	DKS 36-07	N/A	52	4	0	13.9	55.8	4,111
DEKALB	DKS 50-07	N/A	53	5	0	13.8	56.2	3,987
Dyna-Gro	M57GC29	N/A	40	4	0	13.5	55.9	3,898
Dyna-Gro	M72GB71	N/A	56	6	0	13.7	53.8	3,779

\*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	M63GB78	N/A	53	6	8	14.6	56.2	3,489
Dyna-Gro	M59GB94	N/A	52	4	0	13.6	55.3	3,136

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Agronomic information	
Plant Date	6/15/2022
Harvest Date	11/16/2022
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	
Irrigation (in)	
Herbicide	

Mean		53	5	3.4	14.5	55.4	4,469
C.V. %		5.2	39.8	83.1	6.1	2.7	16.0
P>f (hybrid)		0.000			0.012	0.092	0.034
L.S.D.		4.4			1.4		1268.3

Trial Notes

**Cooperator:** Chandler Adam

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 January 1 through the harvest date. For additional information contact:

Dr. Ronnie Schnell / Katrina Horn  
ronnie.schnell@ag.tamu.edu / katrina.horn@ag.tamu.edu  
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)	10	pH	7.2
P2O5 (lb/ac)		P (ppm)*	27	Conductivity (umho/cm)	148
K2O (lb/ac)		K (ppm)*	474	Ca (ppm)*	2,187
S (lb/ac)		S (ppm)*	9	Mg (ppm)*	440
Zn (lb/ac)				Na (ppm)*	83

Soil Type	Pullman clay loam
Tillage	
Previous Crop	

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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
Integra	G3620	45,520	58,588	76	0.34	0.0	0.07		
Integra	G3665	44,431	61,420	74	0.41	3.3	0.07		
Integra	G3711	38,115	50,530	64	0.47	0.0	0.10		
Golden Acres	3180B	40,366	58,370	67	0.48	0.0	0.09		
Golden Acres	4880R	42,907	56,192	72	0.33	0.0	0.07		
Dyna-Gro	GX21965	40,075	46,174	67	0.28	17.5	0.09		
Dyna-Gro	GX22932	33,977	52,853	57	0.60	0.0	0.09		
Dyna-Gro	GX22934	41,237	53,724	69	0.31	0.0	0.09		
Dyna-Gro	M54GR24	37,026	58,370	62	0.84	25.0	0.08		
Dyna-Gro	M57GC29	27,298	49,658	45	0.97	0.0	0.08		
Dyna-Gro	M59GB94	35,138	51,401	59	0.76	0.0	0.06		
Dyna-Gro	M60GB31	40,366	54,305	67	0.39	10.0	0.08		
Dyna-Gro	M63GB78	31,799	49,005	53	0.67	7.5	0.07		
Dyna-Gro	M67GB87	25,555	49,078	43	0.97	0.0	0.09		
Dyna-Gro	M71GR91	39,640	54,886	66	0.38	7.5	0.08		
Dyna-Gro	M72GB71	35,719	47,335	60	0.34	0.0	0.08		
DEKALB	DKS 36-07	28,314	54,232	47	0.98	0.0	0.08		
DEKALB	DKS 40-76	38,333	59,242	64	0.59	0.0	0.08		
DEKALB	DKS 44-07	45,593	55,176	76	0.22	0.0	0.11		
DEKALB	DKS 45-60	37,462	52,054	62	0.40	0.0	0.08		
DEKALB	DKS 50-07	32,234	46,174	54	0.48	0.0	0.08		
Alta Seeds	ADVG 2165	39,494	52,272	66	0.33	6.7	0.09		



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Alta Seeds	ADVG 2168IG	40,946	49,658	68	0.21	0.0	0.10		



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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
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Mean	37,458	53,074	62	0.51	3.4	0.08		
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**Agronomic information**

Plant Date

Harvest Date

Irrigated

Row Spacing (in)

Number of Rows

Target Seeds per Acre

Precipitation (in)

Irrigation (in)

Herbicide

Soil Type

Tillage

Previous Crop

**Trial Notes**

**Cooperator:**

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 January 1 through the harvest date. For additional information contact:

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\* 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)	<input style="width: 80%;" type="text"/>	NO3-N (ppm)	<input style="width: 80%;" type="text" value="10"/>	pH	<input style="width: 80%;" type="text" value="7.2"/>
P2O5 (lb/ac)	<input style="width: 80%;" type="text"/>	P (ppm)*	<input style="width: 80%;" type="text" value="27"/>	Conductivity (umho/cm)	<input style="width: 80%;" type="text" value="148"/>
K2O (lb/ac)	<input style="width: 80%;" type="text"/>	K (ppm)*	<input style="width: 80%;" type="text" value="474"/>	Ca (ppm)*	<input style="width: 80%;" type="text" value="2,187"/>
S (lb/ac)	<input style="width: 80%;" type="text"/>	S (ppm)*	<input style="width: 80%;" type="text" value="9"/>	Mg (ppm)*	<input style="width: 80%;" type="text" value="440"/>
Zn (lb/ac)	<input style="width: 80%;" type="text"/>			Na (ppm)*	<input style="width: 80%;" type="text" value="83"/>