TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Monte Alto Full
2023 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	GX22937	68	53	6	0	13.5	62.6	8,138
DEKALB	DKS 44-07	66	52	6	0	13.1	62.0	8,122
Dyna-Gro	GX22932	68	54	6	0	13.8	62.4	8,015
DEKALB	DKS 50-07	68	54	6	0	13.5	62.5	8,010
DEKALB	DKS 54-07	70	53	5	0	13.6	62.1	7,877
Golden Acres	4880R	70	54	5	0	13.4	62.3	7,748
Integra	G3711	69	55	6	0	13.5	62.7	7,717
Dyna-Gro	GX22934	67	54	5	0	13.4	62.1	7,678
Dyna-Gro	M71GR91	70	53	5	0	13.0	61.7	7,533
Dyna-Gro	M67GB87	66	52	5	0	12.6	60.2	7,206
Integra	G3665	64	53	6	0	12.1	59.7	7,153
Integra	G3640	62	50	6	0	12.2	60.1	7,097
Golden Acres	3070R	67	53	4	0	14.4	61.6	7,047
DEKALB	DKS 45-60	66	55	7	0	13.6	61.6	6,967
DEKALB	DKS 40-76	63	52	6	0	12.5	61.0	6,659
Dyna-Gro	GX22936	64	50	6	0	12.6	60.9	6,593
Dyna-Gro	M72GB71	67	53	5	0	13.1	61.2	6,494
Dyna-Gro	M63GB78	63	51	6	0	12.8	60.8	6,279
Dyna-Gro	M60GB31	64	46	5	0	12.4	61.0	5,525

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

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Mean		66	52	5	0.0	13.1	61.5	7,256
C.V. %		1.8	2.9	26.1		3.0	1.3	5.2
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.7	2.2			0.6	1.1	534.1

Agronomic information

Plant Date	2/26/2023
Harvest Date	6/24/2023
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	30,000
Precipitation (in)	10.58
Irrigation (in)	0

Herbicide

1.5 lb/ac Atrazine + 1.66 pt/ac S-Metolachlor

Soil Type	Hidalgo sandy clay loam
Tillage	Conventional
Previous Crop	Sorghum

Trial Notes

*Trial was pre-watered

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

Cooperator: Texas AgriScience

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

N (lb/ac)	112
P2O5 (lb/ac)	45
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)		pH	
P (ppm)*		Conductivity (umho/cm)	
K (ppm)*		Ca (ppm)*	
S (ppm)*		Mg (ppm)*	
		Na (ppm)*	

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

Grain Sorghum
Monte Alto Full
Multi-Year Summary

Company	Brand	Hybrid	2 YR AVG Yield lb/Acre	3 YR AVG Yield lb/Acre
Bayer	DEKALB	DKS 54-07	8,223	7,516
Nutrien Ag	Dyna-Gro	GX22934	7,990	
Wilbur-Ellis Company	Integra	G3711	7,984	7,058
Nutrien Ag	Dyna-Gro	GX22932	7,969	
Bayer	DEKALB	DKS 50-07	7,880	7,400
Wilbur-Ellis Company	Integra	G3665	7,795	7,317
Bayer	DEKALB	DKS 44-07	7,703	7,337
LG Seeds	Golden Acres	4880R	7,700	
Nutrien Ag	Dyna-Gro	M67GB87	7,626	7,061
Nutrien Ag	Dyna-Gro	M71GR91	7,602	6,885
Nutrien Ag	Dyna-Gro	M72GB71	7,188	6,729
Bayer	DEKALB	DKS 40-76	7,078	6,588
Nutrien Ag	Dyna-Gro	M63GB78	6,519	6,227
Nutrien Ag	Dyna-Gro	M60GB31	6,029	

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.