TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Gruver
2021 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	GX20998	N/A	45	5	0	12.0	55.6	6,860
DEKALB	DKS 44-07	N/A	44	1	0	13.3	57.0	6,842
Integra	G3590	N/A	43	4	0	13.0	54.8	6,499
Integra	G3665	N/A	43	1	0	13.0	54.8	6,418
Golden Acres	3180B	N/A	45	2	0	12.7	56.4	6,417
DEKALB	DKS 50-07	N/A	50	5	0	13.1	58.0	6,405
DEKALB	DKS 45-60	N/A	47	6	0	14.6	56.6	6,349
Integra	G3620	N/A	43	3	0	13.2	58.1	6,262
Dyna-Gro	M67GB87	N/A	48	4	0	12.7	54.7	6,259
Golden Acres	4880R	N/A	51	4	0	14.8	58.9	6,233
DEKALB	DKS 40-76	N/A	46	4	0	13.6	57.3	6,183
Dyna-Gro	GX20973	N/A	43	1	0	11.6	54.1	6,037
DEKALB	DKS 36-07	N/A	41	4	0	11.8	54.9	5,844
Dyna-Gro	M63GB78	N/A	45	3	0	12.7	54.2	5,785
Dyna-Gro	M59GB94	N/A	42	3	0	12.9	55.4	5,238
Integra	G3711	N/A	50	4	0	14.8	57.4	5,165
Alta Seeds	ADV G2275	N/A	46	4	0	13.1	54.8	4,924
Dyna-Gro	M60GB31	N/A	42	2	0	14.5	57.0	4,492
Texas A&M AgriLife Research	ATx631xRTx436	N/A	48	3	0	11.8	52.9	4,105

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

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Mean			45	3	0.0	13.1	55.9	5,911
C.V. %			6.1	48.1		13.0	4.3	10.8
P>f (hybrid)			0.000			0.324	0.218	0.000
L.S.D.			3.9					1,037.4

Agronomic information

Plant Date	5/25/2021
Harvest Date	10/18/2021
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	60,000
Precipitation (in)	15.2
Irrigation (in)	12

Herbicide

Atrazine, Dual, Sharpen applied pre-pant. Husky and atrazine applied over top 40 days after planting

Soil Type	Sherm clay loam
Tillage	Conventional, planted on beds
Previous Crop	Sorghum with wheat cove

Trial Notes

*Applied Sivanto for aphids

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

Cooperator: Dustin Borden

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@agnet.tamu.edu / katrina.horn@agnet.tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	
K2O (lb/ac)	
S (lb/ac)	
Zn (lb/ac)	

Soil Analysis Report**

NO3-N (ppm)	27	pH	7.4
P (ppm)*	117	Conductivity (umho/cm)	239
K (ppm)*	835	Ca (ppm)*	2,888
S (ppm)*	8	Mg (ppm)*	763
		Na (ppm)*	21

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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
Texas A&M AgriLife Research	ATx631xRTx436	19,820	31,363	33	0.56	0.0	0.13		
Integra	G3590	32,452	54,232	54	0.68	0.0	0.12		
Integra	G3620	28,532	39,640	48	0.41	0.0	0.14		
Integra	G3665	25,700	43,124	43	0.73	0.0	0.13		
Integra	G3711	16,771	38,333	28	1.61	0.0	0.15		
Golden Acres	3180B	43,996	50,965	73	0.18	0.0	0.12		
Golden Acres	4880R	27,007	43,560	45	0.63	0.0	0.14		
Dyna-Gro	GX20973	31,363	48,352	52	0.57	0.0	0.13		
Dyna-Gro	GX20998	30,710	49,223	51	0.61	0.0	0.16		
Dyna-Gro	M59GB94	23,958	43,342	40	0.88	0.0	0.12		
Dyna-Gro	M60GB31	21,127	41,164	35	1.07	0.0	0.12		
Dyna-Gro	M63GB78	31,363	41,382	52	0.36	0.0	0.14		
Dyna-Gro	M67GB87	27,225	45,520	45	0.68	0.0	0.14		
DEKALB	DKS 36-07	31,799	41,164	53	0.33	0.0	0.14		
DEKALB	DKS 40-76	35,284	46,827	59	0.35	0.0	0.13		
DEKALB	DKS 44-07	38,115	46,174	64	0.21	0.0	0.13		
DEKALB	DKS 45-60	38,333	46,391	64	0.24	0.0	0.14		
DEKALB	DKS 50-07	35,501	50,965	59	0.44	0.0	0.12		
Alta Seeds	ADV G2275	19,384	35,719	32	0.86	0.0	0.14		

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Mean		29,392	44,076	49	0.60	0.0	0.13		

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