TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Gruver
2020 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Plant Population per Acre	Heads per Acre	Plant Stand %	Mean Tiller # per Plant	Lodging (%)	Head Size lb/head	Midge Damage (%)	Iron Chlorosis Rating
Texas A&M AgriLife Research	ATx378xRTx430	33,977	60,113	57	0.38	0.0	0.13		
Texas A&M AgriLife Research	ATx399xRTx430	46,174	51,401	77	0.08	0.0	0.12		
Texas A&M AgriLife Research	ATx631xRTx436	10,019	28,750	17	1.99	0.0	0.16		
Sorghum Partners	SP31A15	53,361	62,073	89	0.17	0.0	0.11		
Sorghum Partners	SP43M80	49,949	59,532	83	0.19	0.0	0.11		
Sorghum Partners	SP68M57	46,754	69,115	78	0.50	0.0	0.11		
Sorghum Partners	SWGS5011	54,450	60,984	91	0.12	0.0	0.12		
Pioneer	83G19	50,239	54,014	84	0.07	0.0	0.14		
Integra	G3590	54,014	68,244	90	0.26	0.0	0.11		
Integra	G3620	50,530	57,935	84	0.15	0.0	0.13		
Golden Acres	3020B	56,628	61,855	94	0.09	0.0	0.13		
Golden Acres	3180B	50,530	66,647	84	0.33	0.0	0.13		
Golden Acres	4880R	46,754	61,274	78	0.35	0.0	0.11		
Dyna-Gro	GX17912	53,143	65,776	89	0.23	0.0	0.11		
Dyna-Gro	GX19981	51,401	59,895	86	0.19	0.0	0.13		
Dyna-Gro	M59GB94	51,401	62,436	86	0.22	0.0	0.12		
Dyna-Gro	M60GB31		55,757	94	0.00	0.0	0.12		
Dyna-Gro	M60GB88	45,738	56,628	76	0.25	0.0	0.13		
Dyna-Gro	M62GB77	52,562	63,888	88	0.22	0.0	0.12		
Dyna-Gro	M69GR88	52,562	56,047	88	0.09	0.0	0.11		
Dyna-Gro	M71GR91	50,530	55,757	84	0.10	0.0	0.13		

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Dyna-Gro	M72GB71	54,886	61,274	91	0.12	0.0	0.12		
DEKALB	DKS 36-07	45,302	68,389	76	0.52	0.0	0.12		
DEKALB	DKS 44-07	53,579	62,726	89	0.17	0.0	0.15		
DEKALB	DKS 45-60	56,918	58,661	95	0.05	0.0	0.12		
DEKALB	DKS 46-60	49,949	63,307	83	0.27	0.0	0.12		
DEKALB	DKS 54-07	46,754	58,661	78	0.27	0.0	0.12		
Alta Seeds	ADV G2275	46,609	59,822	78	0.18	0.0	0.13		

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Mean		48,976	59,677	82	0.27	0.0	0.12		

Agronomic information

Plant Date	6/9/2020
Harvest Date	10/14/2020
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.89
Irrigation (in)	16

Herbicide

Pre-emerge: Atrazine + Dual + Roundup.
Post-emerge: Husky + Atrazine

Soil Type	Clay loam
Tillage	Conventional, planted on beds
Previous Crop	Wheat

Trial Notes

* 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:

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Fertilizer Applied

N (lb/ac)	120
P2O5 (lb/ac)	0
K2O (lb/ac)	0
S (lb/ac)	0
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	55	pH	7.0
P (ppm)*	102	Conductivity (umho/cm)	439
K (ppm)*	1,013	Ca (ppm)*	2,696
S (ppm)*	21	Mg (ppm)*	714
		Na (ppm)*	24