

Gregory 2020 Grain Sorghum Performance Trial

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	40,729	45,738	68	0.23	0.0	0.11		
Texas A&M AgriLife Research	ATx399xRTx430	39,204	40,946	65	0.37	0.0	0.11		
Texas A&M AgriLife Research	ATx631xRTx436	10,454	21,127	17	1.31	0.0	0.16		
Pioneer	82P83		51,619	88	0.00	0.0	0.12		
Pioneer	83G19	41,818	48,569	70	0.21	0.0	0.12		
Pioneer	83P11		50,094	84	0.05	0.0	0.12		
Pioneer	83P27	49,005	54,232	82	0.11	0.0	0.11		
Integra	G3620	34,412	48,352	57	0.61	0.0	0.09		
Integra	G3630	28,314	37,679	47	0.37	0.0	0.15		
Integra	G3665	43,124	52,925	72	0.35	0.0	0.11		
Integra	G3711	33,323	45,956	56	0.45	0.0	0.13		
Gayland Ward	18057	42,689	48,352	71	0.24	0.0	0.10		
Dyna-Gro	GX19981	47,480	49,658	79	0.09	0.0	0.12		
Dyna-Gro	M60GB31	45,302	47,916	76	0.10	0.0	0.12		
Dyna-Gro	M62GB77	46,609	48,787	78	0.08	0.0	0.11		
Dyna-Gro	M69GB38	33,977	43,996	57	0.34	0.0	0.08		
Dyna-Gro	M69GR88	39,857	45,302	66	0.18	0.0	0.11		
Dyna-Gro	M71GR91	38,768	42,035	65	0.10	0.0	0.14		
Dyna-Gro	M72GB71	41,382	46,391	69	0.12	0.0	0.13		
Dyna-Gro	M74GB17	30,710	37,026	51	0.30	0.0	0.12		
DEKALB	DKS 36-07	42,689	45,302	71	0.12	0.0	0.13		



TEXAS A&M UNIVERSITY
Soil & Crop Sciences

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DEKALB	DKS 44-07	44,213	54,886	74	0.29	0.0	0.12		
DEKALB	DKS 45-60		49,441	86	0.01	0.0	0.11		
DEKALB	DKS 46-60		51,401	90	0.01	0.0	0.12		
DEKALB	DKS 54-07	37,462	49,005	62	0.33	0.0	0.13		
Alta Seeds	ADV G2275	42,253	42,471	70	0.03	0.0	0.13		



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Mean	40,851	46,123	68	0.25	0.0	0.12		
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Agronomic information

Plant Date	3/2/2020
Harvest Date	7/9/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	15.18
Irrigation (in)	
Herbicide	

13 oz/ac Outlook before planting

Soil Type	Clay
Tillage	Chisel 14" deep + 3 field cultivations in fall and spring
Previous Crop	Cotton

Trial Notes

*Applied 1 oz/ac Transform for aphids

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

Cooperator: Joel Hoskinson

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		Soil Analysis Report**			
N (lb/ac)	100	NO3-N (ppm)	36	pH	7.9
P2O5 (lb/ac)	20	P (ppm)*	15	Conductivity (umho/cm)	307
K2O (lb/ac)	0	K (ppm)*	331	Ca (ppm)*	11,133
S (lb/ac)		S (ppm)*	11	Mg (ppm)*	461
Zn (lb/ac)				Na (ppm)*	210