

Hill County 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		45,302	78	0.00	0.0	0.11	0.0	
Texas A&M AgriLife Research	ATx399xRTx430	40,075	41,382	62	0.05	0.0	0.11	0.0	
Texas A&M AgriLife Research	ATx631xRTx436	3,920	13,939	6	2.26	0.0	0.12	0.0	
Sorghum Partners	SP74M21	54,014	54,014	83	0.01	0.0	0.09	2.5	
Pioneer	83G19	49,876	50,312	77	0.03	0.0	0.10	0.0	
Integra	G3630		42,253	70	0.00	0.0	0.10	0.0	
Integra	G3665	57,064	57,717	88	0.05	0.0	0.09	1.3	
Integra	G3711	44,649	49,223	69	0.11	0.0	0.09	0.0	
Golden Acres	3020B	51,619	54,886	79	0.06	0.0	0.10	0.0	
Golden Acres	4880R	47,480	47,916	73	0.02	0.0	0.09	1.3	
Gayland Ward	18057		55,539	92	0.02	0.0	0.08	2.5	
Dyna-Gro	GX19981		53,361	83	0.02	0.0	0.10	2.5	
Dyna-Gro	M60GB31		52,925	83	0.04	0.0	0.09	0.0	
Dyna-Gro	M62GB77	50,965	51,836	78	0.02	0.0	0.08	18.8	
Dyna-Gro	M69GB38		41,818	67	0.02	0.0	0.11	0.0	
Dyna-Gro	M69GR88	53,143	53,361	82	0.04	0.0	0.08	0.0	
Dyna-Gro	M71GR91		52,272	83	0.04	0.0	0.10	2.5	
Dyna-Gro	M72GB71	53,797	54,014	83	0.02	0.0	0.11	0.0	
Dyna-Gro	M74GB17		44,867	77	0.00	0.0	0.09	2.5	
DEKALB	DKS 36-07		52,054	86	0.00	0.0	0.08	16.3	
DEKALB	DKS 44-07	54,232	55,321	83	0.03	0.0	0.10	0.0	



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Soil & Crop Sciences

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DEKALB	DKS 45-60	51,401	54,450	79	0.06	0.0	0.10	1.3	
DEKALB	DKS 46-60		57,064	88	0.01	0.0	0.08	5.0	
DEKALB	DKS 54-07		52,272	84	0.01	0.0	0.09	0.0	
Alta Seeds	ADV G2275		49,876	80	0.00	0.0	0.10	0.0	



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Mean	49,772	49,519	77	0.12	0.0	0.10	2.3	
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Agronomic information	
Plant Date	4/28/2020
Harvest Date	8/26/2020
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	30.9
Irrigation (in)	
Herbicide	16 oz/ac Outlook + 1 qt/ac Atrazine + 1 oz/ac Sharpen
Soil Type	Clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes
*Sprayed 5 oz/ac Sivanto for aphids
*Sprayed 8 oz/ac Besiege for headworms

Cooperator: Josh Birdwell

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)	124	NO3-N (ppm)	19
P2O5 (lb/ac)	29	P (ppm)*	22
K2O (lb/ac)	0	K (ppm)*	506
S (lb/ac)	0	S (ppm)*	11
Zn (lb/ac)	0	pH	8.0
		Conductivity (umho/cm)	322
		Ca (ppm)*	19,980
		Mg (ppm)*	146
		Na (ppm)*	14