

Hill County 2020 Grain Sorghum Performance Trial

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Dyna-Gro	M72GB71	N/A	56	4	0	13.1	59.5	6,060
DEKALB	DKS 45-60	N/A	52	6	0	13.7	61.1	5,643
DEKALB	DKS 44-07	N/A	52	5	0	13.5	60.7	5,639
Integra	G3665	N/A	52	5	0	11.3	56.5	5,449
Dyna-Gro	M71GR91	N/A	58	5	0	13.6	61.2	5,349
Dyna-Gro	GX19981	N/A	53	2	0	12.2	59.8	5,311
Golden Acres	3020B	N/A	49	5	0	13.2	60.3	5,187
Alta Seeds	ADV G2275	N/A	56	5	0	13.7	59.4	5,097
Pioneer	83G19	N/A	52	2	0	12.6	58.2	4,968
Sorghum Partners	SP74M21	N/A	52	5	0	12.9	60.3	4,952
Texas A&M AgriLife Research	ATx378xRTx430	N/A	56	4	0	12.7	57.5	4,905
DEKALB	DKS 54-07	N/A	55	4	0	12.7	59.9	4,748
Dyna-Gro	M69GB38	N/A	53	4	0	13.6	59.7	4,741
DEKALB	DKS 46-60	N/A	52	6	0	13.5	59.9	4,663
Integra	G3711	N/A	57	5	0	13.4	61.1	4,539
Dyna-Gro	M60GB31	N/A	54	5	0	13.2	59.6	4,500
Texas A&M AgriLife Research	ATx399xRTx430	N/A	48	3	0	13.3	58.1	4,495
Gayland Ward	18057	N/A	52	6	0	12.4	58.3	4,416
Dyna-Gro	M69GR88	N/A	46	3	0	14.3	59.9	4,415
DEKALB	DKS 36-07	N/A	53	6	0	13.1	58.2	4,331
Integra	G3630	N/A	54	4	0	13.5	59.9	4,255

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

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Golden Acres	4880R	N/A	56	5	0	13.3	60.5	4,126
Dyna-Gro	M62GB77	N/A	53	6	0	12.0	58.6	4,124
Dyna-Gro	M74GB17	N/A	52	4	0	14.1	58.5	3,820
Texas A&M AgriLife Research	ATx631xRTx436	N/A	53	4	0	12.9	55.6	1,663

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Agronomic information		Mean	53	4	0.0	13.1	59.3	4,696
Plant Date	4/28/2020	C.V. %	3.1	18.0		6.5	2.0	17.0
Harvest Date	8/26/2020	P>f (hybrid)	0.000	0.000		0.002	0.000	0.000
Irrigated	No	L.S.D.	2.3	1.1		1.2	1.8	1,141.9
Row Spacing (in)	30	Trial Notes						
Number of Rows	2	*Sprayed 5 oz/ac Sivanto for aphids						
Seeds per Acre	65,000	*Sprayed 8 oz/ac Besiege for headworms						
Precipitation (in)	30.9	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: Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505						
Irrigation (in)								
Herbicide	16 oz/ac Outlook + 1 qt/ac Atrazine + 1 oz/ac Sharpen	* Mehlich 3 by ICP, soiltesting.tamu.edu						
Soil Type	Clay	** Samples collected at planting, some locations may have applied fertilizer						
Tillage	Conventional	Fertilizer Applied		Soil Analysis Report**				
Previous Crop	Corn	N (lb/ac)	124	NO3-N (ppm)	19	pH	8.0	
		P2O5 (lb/ac)	29	P (ppm)*	22	Conductivity (umho/cm)	322	
		K2O (lb/ac)	0	K (ppm)*	506	Ca (ppm)*	19,980	
		S (lb/ac)	0	S (ppm)*	11	Mg (ppm)*	146	
		Zn (lb/ac)	0			Na (ppm)*	14	

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