

Hillsboro

2021 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)
DEKALB	DKS 44-07	N/A	47	8	0	11.9	56.9	2,621
Dyna-Gro	GX21965	N/A	42	6	0	12.5	58.7	2,615
Integra	G3665	N/A	48	9	0	11.8	56.7	2,612
Golden Acres	3180B	N/A	47	10	0	12.8	57.3	2,587
Dyna-Gro	M67GB87	N/A	47	7	0	11.5	56.1	2,446
Dyna-Gro	GX20970	N/A	46	10	0	12.8	57.8	2,424
Dyna-Gro	GX20998	N/A	47	12	0	13.0	57.7	2,412
DEKALB	DKS 50-07	N/A	48	8	0	11.6	59.4	2,345
Golden Acres	4880R	N/A	49	7	0	12.2	58.4	2,308
Dyna-Gro	M72GB71	N/A	45	7	0	12.7	57.5	2,192
DEKALB	DKS 36-07	N/A	43	9	0	11.0	56.4	2,161
Dyna-Gro	M71GR91	N/A	49	7	0	12.6	57.8	2,065
Integra	G3620	N/A	46	9	0	11.9	58.6	2,024
DEKALB	DKS 54-07	N/A	49	9	0	12.8	58.3	1,981
Alta Seeds	ADV G2275	N/A	42	8	0	13.0	58.0	1,872
Integra	G3711	N/A	47	8	0	12.1	56.9	1,793
Texas A&M AgriLife Research	ATx631xRTx436	N/A	50	8	0	11.9	54.9	1,665
Dyna-Gro	M63GB78	N/A	41	7	0	10.4	54.2	1,659

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



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Agronomic information		Mean	46	8	0.0	12.1	57.3	2,210
Plant Date	3/19/2021	C.V. %	2.9	12.8		7.4	2.1	11.8
Harvest Date	8/31/2021	P>f (hybrid)	0.000	0.000		0.005	0.000	0.000
Irrigated	No	L.S.D.	1.9	1.5		1.3	1.9	367.2
Row Spacing (in)	30	Trial Notes						
Number of Rows	2	*Saturated soils persisted from late April through mid July with total rainfall for this period nearing 20". This resulted in plant stress and contributed to lower than normal yields.						
Target Seeds per Acre	65,000	*Applied by air on 7/2: 4 oz/ac Mustang Max + 8 oz/ac dimethoate						
Precipitation (in)	25.4	* Mehlich 3 by ICP, soiltesting.tamu.edu						
Irrigation (in)		** Samples collected at planting, some locations may have applied fertilizer						
Herbicide		Fertilizer Applied		Soil Analysis Report**				
24 oz/ac Callisto Extra + 16 oz/ac Outlook + 1 qt/ac Roundup at planting		N (lb/ac)	120	NO3-N (ppm)	27	pH	7.5	
Soil Type	Branyon clay	P2O5 (lb/ac)	16	P (ppm)*	18	Conductivity (umho/cm)	408	
Tillage	Conventional	K2O (lb/ac)	0	K (ppm)*	351	Ca (ppm)*	10,737	
Previous Crop	Corn	S (lb/ac)	1	S (ppm)*	10	Mg (ppm)*	268	
		Zn (lb/ac)				Na (ppm)*	117	

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
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979-845-2935 / 979-845-8505

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TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Hillsboro 2021 Grain Sorghum Performance Trial



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	39,640	60,331	61	0.53	0.0	0.03		
Integra	G3620	54,232	70,785	83	0.31	0.0	0.03		
Integra	G3665	53,143	59,459	82	0.14	0.0	0.04		
Integra	G3711	36,155	69,260	56	0.92	0.0	0.03		
Golden Acres	3180B	57,717	62,944	89	0.09	0.0	0.04		
Golden Acres	4880R	47,698	78,190	73	0.66	0.0	0.03		
Dyna-Gro	GX20970	44,867	54,668	69	0.22	0.0	0.04		
Dyna-Gro	GX20998	49,223	61,855	76	0.27	0.0	0.04		
Dyna-Gro	GX21965	45,302	52,272	70	0.16	0.0	0.05		
Dyna-Gro	M63GB78	35,066	60,331	54	0.72	0.0	0.03		
Dyna-Gro	M67GB87	40,075	67,736	62	0.71	0.0	0.04		
Dyna-Gro	M71GR91	37,897	77,319	58	1.04	0.0	0.03		
Dyna-Gro	M72GB71	48,352	64,469	74	0.34	0.0	0.03		
DEKALB	DKS 36-07	49,658	74,488	76	0.50	0.0	0.03		
DEKALB	DKS 44-07	45,956	63,162	71	0.38	0.0	0.04		
DEKALB	DKS 50-07	47,916	70,567	74	0.48	0.0	0.03		
DEKALB	DKS 54-07	44,649	69,043	69	0.55	0.0	0.03		
Alta Seeds	ADV G2275	45,302	71,438	70	0.57	0.0	0.03		



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Mean	45,714	66,018	70	0.48	0.0	0.03		
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Agronomic information	
Plant Date	3/19/2021
Harvest Date	8/31/2021
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Target Seeds per Acre	65,000
Precipitation (in)	25.4
Irrigation (in)	
Herbicide	24 oz/ac Callisto Extra + 16 oz/ac Outlook + 1 qt/ac Roundup at planting
Soil Type	Branyon clay
Tillage	Conventional
Previous Crop	Corn

Trial Notes

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*Applied by air on 7/2: 4 oz/ac Mustang Max + 8 oz/ac dimethoate

* Mehlich 3 by ICP, soiltesting.tamu.edu
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Fertilizer Applied		Soil Analysis Report**			
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P2O5 (lb/ac)	16	P (ppm)*	18	Conductivity (umho/cm)	408
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