

## Gregory 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)
Pioneer	83P11	70	49	10	0	13.2	53.8	6,337
Dyna-Gro	GX20970	72	52	11	0	13.7	56.0	6,149
DEKALB	DKS 54-07	73	54	8	0	14.5	58.0	6,142
DEKALB	DKS 44-07	71	50	10	0	14.6	58.4	6,077
Integra	G3711	72	53	8	0	14.6	58.9	5,952
DEKALB	DKS 45-60	69	52	13	0	14.6	58.7	5,796
DEKALB	DKS 50-07	72	52	7	0	14.6	58.9	5,734
Dyna-Gro	M71GR91	73	54	5	0	14.2	58.3	5,548
Dyna-Gro	M63GB78	69	48	10	0	13.1	55.5	5,538
DEKALB	DKS 40-76	69	49	11	0	13.6	56.5	5,505
DEKALB	DKS 36-07	69	51	12	0	13.1	56.9	5,490
Dyna-Gro	M72GB71	72	53	9	0	14.6	58.2	5,479
Integra	G3620	69	50	11	0	14.1	56.4	5,425
Integra	G3665	70	51	11	0	13.5	55.7	5,350
Golden Acres	3180B	71	51	10	0	13.4	55.8	5,326
Dyna-Gro	GX21965	72	49	7	0	13.3	55.1	5,249
Dyna-Gro	GX20998	70	50	10	0	13.7	56.8	5,143
Dyna-Gro	M67GB87	72	52	7	0	13.8	57.1	4,899
Pioneer	82P83	72	52	10	0	11.8	53.5	4,617
Alta Seeds	ADV G2275	70	48	12	0	14.9	57.3	4,537
Texas A&M AgriLife Research	ATx631xRTx436	72	58	7	0	13.1	54.7	4,456

\*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	
Plant Date	3/4/2021
Harvest Date	7/27/2021
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
Precipitation (in)	30.1
Irrigation (in)	
Herbicide	
Soil Type	Raymondville clay loam
Tillage	Conventional
Previous Crop	Cotton

Mean	71	51	9	0.0	13.8	57.4	5,464
C.V. %	1.5	2.9	18.0		4.1	8.5	10.1
P>f (hybrid)	0.000	0.000	0.000		0.000	0.322	0.000
L.S.D.	1.5	2.1	2.4		0.8		792.9

Trial Notes
*Extended periods of rain in July (~ 10" from 7/1-7/27) delayed harvest and contributed to grain weathering.

Cooperator:	Joel Hoskinson
<p>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 &lt; 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:</p> <p>Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505</p>	

\* 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)		NO3-N (ppm)	42
P2O5 (lb/ac)		P (ppm)*	24
K2O (lb/ac)		K (ppm)*	343
S (lb/ac)		S (ppm)*	9
Zn (lb/ac)			
		pH	7.7
		Conductivity (umho/cm)	425
		Ca (ppm)*	7,462
		Mg (ppm)*	378
		Na (ppm)*	105

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

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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	41,818	48,352	70	0.16	0.0	0.09	2.3	
Pioneer	82P83	52,272	62,509	87	0.20	0.0	0.07	3.3	
Pioneer	83P11	53,143	65,122	89	0.23	0.0	0.10	2.3	
Integra	G3620	48,787	64,904	81	0.34	0.0	0.08	1.8	
Integra	G3665	49,441	69,260	82	0.40	0.0	0.08	1.8	
Integra	G3711	43,560	55,539	73	0.30	0.0	0.11	1.0	
Golden Acres	3180B	49,223	71,438	82	0.46	0.0	0.07	1.8	
Dyna-Gro	GX20970	43,996	64,251	73	0.48	0.0	0.10	1.8	
Dyna-Gro	GX20998	50,094	65,122	83	0.30	0.0	0.08	1.5	
Dyna-Gro	GX21965	50,530	50,965	84	0.02	0.0	0.10	2.3	
Dyna-Gro	M63GB78	44,649	61,420	74	0.39	0.0	0.09	3.0	
Dyna-Gro	M67GB87	45,085	61,420	75	0.36	0.0	0.08	2.5	
Dyna-Gro	M71GR91	43,342	58,153	72	0.38	0.0	0.10	2.0	
Dyna-Gro	M72GB71	48,569	52,272	81	0.08	0.0	0.10	1.3	
DEKALB	DKS 36-07	52,490	69,043	87	0.32	0.0	0.08	3.0	
DEKALB	DKS 40-76	47,916	60,331	80	0.26	0.0	0.09	3.0	
DEKALB	DKS 44-07	50,312	68,389	84	0.36	0.0	0.09	1.8	
DEKALB	DKS 45-60	49,658	61,202	83	0.23	0.0	0.09	2.0	
DEKALB	DKS 50-07	45,520	57,064	76	0.28	0.0	0.10	1.5	
DEKALB	DKS 54-07	43,560	56,628	73	0.32	0.0	0.11	0.8	
Alta Seeds	ADV G2275	46,827	55,975	78	0.20	0.0	0.08	2.8	

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