AGRICULTURE & LIFE SCIENCES
TEXAS A&M UNIVERSITY

Department of Soil and Crop Sciences

Gregory
2019 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE RESEARCH | EXTENSION

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 51-01	75	56	7	0	19.1	60.2	6,593
Pioneer	83P73	75	53	4	0	19.1	59.5	6,399
Golden Acres	4880R	74	54	5	0	18.6	61.1	6,334
DEKALB	DKS 54-07	75	56	6	0	18.5	61.1	6,283
DEKALB	DKS 38-16	73	55	5	0	18.2	60.9	6,180
Pioneer	83P27	72	53	5	0	18.0	60.2	6,123
Dyna-Gro	M71GR04	76	50	3	0	17.8	61.3	6,061
Integra	G3665	73	51	6	0	16.8	59.3	6,019
REV	9562	74	49	5	0	17.3	60.3	6,018
DEKALB	DKS 46-60	73	53	8	0	17.6	60.3	6,016
Dyna-Gro	GX18991	74	54	4	0	17.7	61.3	5,999
Dyna-Gro	GX17457	72	49	4	0	17.5	60.9	5,940
Golden Acres	3020B	74	49	6	0	18.4	59.5	5,935
Dyna-Gro	GX19981	74	50	3	0	19.4	60.5	5,889
Dyna-Gro	GX17973	74	53	6	0	18.5	59.6	5,866
Texas A&M AgriLife Research	ATx631xRTx436	76	54	4	0	20.0	59.2	5,862
Dyna-Gro	M60GB31	74	46	5	0	17.8	61.3	5,798
DEKALB	DKS 53-53	76	52	7	0	18.9	60.7	5,783
Dyna-Gro	M68GB18	76	55	4	0	18.9	59.8	5,770
Dyna-Gro	M73GR55	80	52	3	0	18.9	59.9	5,732
Integra	G3630	73	46	4	0	17.1	60.8	5,721

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

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Dyna-Gro	M69GR88	74	49	6	0	20.0	59.0	5,709
B-H Genetics	4100	73	46	5	0	18.1	61.1	5,708
Pioneer	84P80	74	49	4	0	19.0	59.6	5,646
REV	9782	72	49	5	0	19.2	59.7	5,618
Integra	G3670	72	49	4	0	19.4	58.7	5,588
Alta Seeds	ADV G2275	75	51	8	0	20.6	59.6	5,569
Texas A&M AgriLife Research	ATx2752xRTx2783	77	49	3	0	18.5	60.2	5,568
REV	9620	72	57	8	0	18.3	59.6	5,440
Texas A&M AgriLife Research	ATx2752xRTx430	73	51	4	0	19.2	59.5	5,426
Dyna-Gro	M62GB77	72	52	7	0	16.6	61.0	5,406
Texas A&M AgriLife Research	ATx378xRTx430	72	57	6	0	16.6	59.0	5,212
DEKALB	DKS 37-07	71	50	5	0	17.1	60.5	5,163
Dyna-Gro	M74GB17	77	50	6	0	19.9	58.8	5,148
Dyna-Gro	M69GB38	75	52	7	0	19.0	59.9	4,684
Sorghum Partners	SP74M21	77	49	8	0	21.7	57.5	4,467
Dyna-Gro	GX18395	75	50	7	0	20.6	58.6	4,372
Alta Seeds	ADV G2106	72	45	7	0	17.1	58.3	3,584

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Mean		74	51	5	0.0	18.5	59.9	5,648
C.V. %		1.0	2.5	22.8		5.2	1.0	8.4
P>f (hybrid)		0.000	0.000			0.000	0.000	0.000
L.S.D.		1.1	1.8			1.4	0.9	668.3

Agronomic information

Plant Date	3/13/2019
Harvest Date	7/9/2019
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	60,000
N (lb/ac)	100
P2O5 (lb/ac)	20
K2O (lb/ac)	0
Precipitation (in)	11.17
Irrigation (in)	

Herbicide

Trial Notes

*Applied bifenture for headworms and stinkbugs at 5 oz/ac
*Applied Roundup as harvest aid at 24 oz/ac
*Iron chlorosis was observed in a few hybrids and ratings taken at flowering

Soil Type	Clay loam
Tillage	Chiseled 14" deep, field cultivated twice
Previous Crop	Cotton

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 Almaco meter units on a JD Max-Emerge II 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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