Gregory
2016 Grain Sorghum
Performance Trial

TEXAS A&M AGRILIFE RESEARCH

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	78	55	8	0	14.7	57.0	4,364
REV	9924	78	52	8	0	14.6	56.6	4,028
Alta Seeds	AG3201	74	49	8	0	14.9	56.3	4,005
Texas A&M AgriLife Research	ATx378xRTx430	76	55	9	0	14.5	56.8	3,987
DEKALB	DKS 38-16	77	53	8	0	15.4	58.6	3,773
Integra	G3670	74	50	9	0	15.1	57.5	3,771
REV	9782	76	46	7	0	14.6	57.6	3,688
Integra	G3701	77	51	5	0	15.3	57.4	3,514
REV	9562	77	51	8	0	15.2	56.2	3,506
Alta Seeds	AG2103	76	47	9	0	14.7	57.0	3,425
DEKALB	DKS 45-23	78	51	7	0	15.1	57.8	3,405
Texas A&M AgriLife Research	ATx399xRTx430	75	48	8	0	14.7	57.3	3,367
Integra	G3660	76	46	8	0	15.0	57.5	3,318
Sorghum Partners	K73-J6	75	49	9	0	15.1	57.0	3,290
Integra	G3630	76	46	7	0	14.3	57.8	3,228
Texas A&M AgriLife Research	ATx2752xRTx430	76	49	7	0	15.1	56.8	3,136
Alta Seeds	AG1203	76	47	7	0	14.7	57.7	3,034
Alta Seeds	AG2115	75	47	7	0	15.2	56.7	3,016
Sorghum Partners	SP70B17	77	50	7	0	14.9	56.7	2,878
Alta Seeds	AG2105	77	51	10	0	15.1	57.0	2,841
Sorghum Partners	SP68M57	76	47	6	0	15.4	58.0	2,558

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

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	Mean	76	49	8	0.0	14.9	57.2	3,435
	C.V. %	1.0	3.5	15.1		3.5	1.7	10.8
	P>f (hybrid)	0.000	0.000	0.000		0.181	0.102	0.000
	L.S.D.	1.0	2.4	1.6				531.3

Agronomic information

Plant Date	2/25/2016
Harvest Date	7/14/2016
Irrigated	No
Row Spacing (in)	38
Number of Rows	2
Seeds per Acre	60,000
N (lb/ac)	80
P2O5 (lb/ac)	0
K2O (lb/ac)	0
Precipitation (in)	28.33
Irrigation (in)	

Herbicide

8 oz/A of Outlook + 0.75 lb/A of Atrazine. Applied and incorporated prior to planting

Trial Notes

*Large rain events in mid-March hampered early plant growth and development. An additional 22" of rain from mid-May to mid-June resulted in excessive soil moisture.

*Rain events during anthesis resulted in partial seed set. Grain mold was observed, along with Crazy Top.All of these factors reduced potential yields.
*The test block was not sprayed for aphids; however, Besiege was sprayed to control headworms

Soil Type	Raymondville clay loam
Tillage	Full tillage, disked, field cultivated & planted flat
Previous Crop	Grain Sorghum

Cooperator: Allan Hunt

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. 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.
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