

Monte Alto - Full Irrigated 2016 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)
Alta Seeds	AG1203	63	47	6	0	12.4	56.1	6,009
Gayland Ward	EXP 8016	63	56	6	1	14.4	55.8	5,737
Sorghum Partners	SP68M57	62	49	7	4	12.4	55.2	5,423
Alta Seeds	AG2105	62	54	9	4	13.0	55.8	5,403
Sorghum Partners	SP7715	62	56	9	3	12.4	56.4	5,217
Sorghum Partners	K73-J6	61	52	8	3	13.5	56.1	5,111
DEKALB	DKS 45-23	62	53	8	1	13.3	55.4	4,946
Alta Seeds	AG3201	60	51	8	2	13.4	53.3	4,942
Gayland Ward	EXP 9123	62	56	7	2	12.7	54.6	4,903
DEKALB	DKS 51-01	64	56	7	1	14.7	53.8	4,899
REV	9924	63	55	6	4	12.5	53.9	4,782
Gayland Ward	9320	62	54	6	7	14.4	56.5	4,765
Gayland Ward	EXP 8017	64	52	7	4	15.1	54.1	4,759
Gayland Ward	9417	62	56	8	4	14.5	55.0	4,554
Alta Seeds	AG2115	61	50	9	2	12.3	53.1	4,320
Gayland Ward	EXP 9092	61	54	7	8	12.3	54.5	4,283
DEKALB	DKS 53-53	63	53	8	9	12.8	53.4	4,212
Texas A&M AgriLife Research	ATx399xRTx430	60	50	9	3	13.2	52.6	4,209
Texas A&M AgriLife Research	ATx2752xRTx430	60	51	8	6	12.4	55.3	4,035
Alta Seeds	AG3101	61	58	8	15	12.7	55.7	4,034
Gayland Ward	EXP 9127	61	53	10	4	12.5	54.5	3,945
Alta Seeds	AG2103	61	45	7	9	13.5	54.9	3,896
Gayland Ward	EXP 9059	61	51	9	9	15.0	53.7	3,833
REV	9562	61	51	8	9	13.8	54.1	3,503

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

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Texas A&M AgriLife Research	ATx378xRTx430	61	57	7	13	14.5	53.8	3,268
Sorghum Partners	SP70B17	61	50	8	10	12.8	53.0	3,243
REV	9782	61	49	7	16	12.3	55.0	3,047

Agronomic information	
Plant Date	2/18/2016
Harvest Date	6/27/2016
Irrigated	Yes
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	80,000
N (lb/ac)	
P2O5 (lb/ac)	
K2O (lb/ac)	
Precipitation (in)	23.15
Irrigation (in)	7.5
Herbicide	1 qt/A of Outlook pre-emerge

Mean	62	52	8	5.6	13.3	54.6	4,492
C.V. %	1.6	3.3	15.7	98.3	8.1	1.7	13.6
P>f (hybrid)	0.000	0.000	0.001		0.001	0.000	0.000
L.S.D.	1.4	2.4	1.7		1.7	1.3	939.7

Trial Notes

*Fertilizer was applied as follows:
 2/2/16: 18 gal/A of 10-28-0-5(S)
 3/8/16: Sidedress 400 lb/A of 28-0-0-5(S)
 3/30/16: Broadcast sprayed 2.3 pt/A of FOLIGRO (2-17-17) & 2 pt/A of Nitrozin (17-0-0-5(Zn))

*Test was irrigated twice
 *Aphids were observed, but no insecticides were applied
 *Appreciation is expressed to Andy Scott, Juan Garza, and Eddie Hernandez for their assistance in monitoring and maintaining the test block

Soil Type	Hidalgo sandy clay loam
Tillage	Conventional tillage, planted on raised beds
Previous Crop	Soybeans - Fall 2015

Cooperator: Rio Farms Inc

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. For additional information contact:
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 979-845-8505

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