

Sunray

2020 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)
Dyna-Gro	M71GR91	74	57	3	3	16.5	60.0	7,636
Dyna-Gro	M69GR88	74	50	4	3	16.7	56.3	7,343
DEKALB	DKS 44-07	73	51	4	11	17.2	60.9	6,924
Texas A&M AgriLife Research	ATx399xRTx430	70	50	5	10	15.5	55.0	6,746
Dyna-Gro	GX19981	72	48	4	13	18.5	60.2	6,545
Golden Acres	4880R	73	57	2	3	20.0	59.6	6,473
Dyna-Gro	M72GB71	72	56	4	20	17.6	60.2	6,398
Golden Acres	3180B	71	51	4	5	17.0	56.8	6,156
DEKALB	DKS 54-07	72	61	4	20	17.9	59.8	5,881
Dyna-Gro	GX17912	69	52	6	5	16.8	57.5	5,329
Golden Acres	3020B	71	50	3	3	17.5	59.0	5,007
DEKALB	DKS 46-60	71	52	8	28	18.6	59.6	4,959
Sorghum Partners	SP68M57	69	51	7	24	19.5	59.0	4,518
Sorghum Partners	SP31A15	68	47	6	18	16.0	55.9	4,437
Sorghum Partners	SWG52003	66	44	7	21	17.1	58.5	4,274
Sorghum Partners	SP33S40	70	52	5	9	20.5	57.4	4,218
Dyna-Gro	M62GB77	72	57	8	28	17.5	59.1	4,215
DEKALB	DKS 45-60	71	57	5	40	17.3	58.6	4,046
Dyna-Gro	M60GB88	70	49	6	28	16.5	58.8	4,009
Pioneer	83G19	73	56	3	38	18.4	56.4	3,720
Integra	G3620	71	54	8	44	18.2	59.1	3,627

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

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DEKALB	DKS 36-07	71	49	2	34	16.6	57.9	3,036
Alta Seeds	ADV G2275	72	53	5	44	18.5	58.3	2,874
Integra	G3590	69	56	6	50	18.5	57.3	2,519
Sorghum Partners	SP25C10	65	42	9	24	17.1	56.1	2,259
Dyna-Gro	M60GB31	71	46	4	64	16.3	59.8	1,957
Sorghum Partners	SWG52002	65	41	4	31	17.2	57.5	1,944
Sorghum Partners	SP43M80	67	49	3	66	18.1	58.0	1,832
Dyna-Gro	M59GB94	70	56	7	86	17.9	56.6	1,301

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Agronomic information		Mean	70	51	5	26.5	58.2	4,489
Plant Date	6/10/2020	C.V. %	1.8	2.3	20.6	58.8	2.3	21.4
Harvest Date	11/11/2020	P>f (hybrid)	0.000	0.000	0.000	0.106	0.000	0.000
Irrigated	No	L.S.D.	2.6	1.7	1.4		2.0	1,348.7
Row Spacing (in)	30	Trial Notes						
Number of Rows	2	*Six inches of snow followed by rain in late October delayed harvest and contributed to lodging, resulting in a high CV.						
Seeds per Acre	40,000	Cooperator: Lone Star Family Farms						
Precipitation (in)	17.2	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:						
Irrigation (in)		Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505						
Herbicide		* Mehlich 3 by ICP, soiltesting.tamu.edu ** Samples collected at planting, some locations may have applied fertilizer						
Soil Type	Silty clay loam	Fertilizer Applied		Soil Analysis Report**				
Tillage	No-till	N (lb/ac)		NO3-N (ppm)	32	pH		7.5
Previous Crop	Corn	P2O5 (lb/ac)		P (ppm)*	111	Conductivity (umho/cm)		314
		K2O (lb/ac)		K (ppm)*	886	Ca (ppm)*		2,781
		S (lb/ac)		S (ppm)*	19	Mg (ppm)*		839
		Zn (lb/ac)				Na (ppm)*		46

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