

Sunray

2022 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)
Integra	G3711	N/A	56	5	0	18.8	59.3	7,785
Dyna-Gro	GX22934	N/A	56	5	0	18.3	59.3	7,752
DEKALB	DKS 40-76	N/A	52	5	0	19.0	55.8	7,258
DEKALB	DKS 45-60	N/A	54	7	0	18.7	58.3	7,143
Dyna-Gro	GX22932	64	57	6	0	18.8	59.0	7,004
Dyna-Gro	GX21965	64	52	3	0	18.1	58.9	6,925
Dyna-Gro	M71GR91	64	53	4	0	18.5	59.1	6,843
DEKALB	DKS 50-07	64	50	4	0	17.6	59.3	6,730
Alta Seeds	ADVG 2165	N/A	54	5	0	20.0	57.8	6,576
Dyna-Gro	M63GB78	N/A	52	3	0	18.4	56.3	6,570
DEKALB	DKS 44-07	63	48	4	0	17.9	60.1	6,543
Dyna-Gro	M60GB31	62	51	6	0	18.8	58.1	6,423
Dyna-Gro	M72GB71	64	53	5	0	18.1	58.6	6,365
Golden Acres	4880R	N/A	53	6	0	19.0	59.0	6,336
Dyna-Gro	M67GB87	63	48	5	0	15.9	56.6	6,312
Integra	G3665	63	54	6	0	16.6	57.0	6,285
Golden Acres	3180B	62	48	3	0	15.6	56.9	6,166
Alta Seeds	ADVG 2168IG	65	46	5	0	18.2	57.3	6,149
DEKALB	DKS 36-07	62	49	6	0	16.8	57.6	5,997
Dyna-Gro	M59GB94	62	51	5	0	17.7	57.0	5,992
Clemson	CU16S159	N/A	65	3	0	19.8	57.6	5,858

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



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Clemson	CU19S427	63	57	4	0	19.0	56.9	5,780
Dyna-Gro	M54GR24	61	44	5	0	17.1	58.5	5,566
Integra	G3620	63	50	5	0	17.2	58.2	5,406
Dyna-Gro	M57GC29	59	40	5	0	16.5	58.3	4,307

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Agronomic information		Mean	63	52	5	0.0	18.0	58.0	6,403
Plant Date	6/16/2022	C.V. %	1.0	7.6	35.6		6.3	1.7	13.5
Harvest Date	11/2/2022	P>f (hybrid)	0.000	0.000			0.000	0.000	0.000
Irrigated	Yes	L.S.D.	1.2	5.5			1.6	1.4	1,236.9
Row Spacing (in)	30	Trial Notes							
Number of Rows	2	<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>							
Target Seeds per Acre	40,000								
Precipitation (in)		<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>							
Irrigation (in)									
Herbicide		<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>							
Soil Type	Sherm silty clay loam								
Tillage		<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>							
Previous Crop									
		Fertilizer Applied			Soil Analysis Report**				
		N (lb/ac)		NO3-N (ppm)	44	pH		7.3	
		P2O5 (lb/ac)		P (ppm)*	76	Conductivity (umho/cm)		307	
		K2O (lb/ac)		K (ppm)*	781	Ca (ppm)*		2,196	
		S (lb/ac)		S (ppm)*	18	Mg (ppm)*		790	
		Zn (lb/ac)				Na (ppm)*		46	

Cooperator: Lone Star Family Farms

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:

Dr. Ronnie Schnell / Katrina Horn
ronnie.schnell@agnet.tamu.edu / katrina.horn@agnet.tamu.edu
979-845-2935 / 979-845-8505

* Mehlich 3 by ICP, soiltesting.tamu.edu
** Samples collected at planting, some locations may have applied fertilizer

*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
Integra	G3620	33,323	52,490	83	0.58	0.0	0.10		
Integra	G3665	40,075	59,895	100	0.50	0.0	0.11		
Integra	G3711	32,888	54,014	82	0.76	0.0	0.14		
Golden Acres	3180B	35,501	56,410	89	0.60	0.0	0.11		
Golden Acres	4880R	35,066	53,361	88	0.53	0.0	0.12		
Dyna-Gro	GX21965	35,501	44,649	89	0.27	0.0	0.16		
Dyna-Gro	GX22932	30,928	57,064	77	0.91	0.0	0.12		
Dyna-Gro	GX22934	32,017	55,975	80	0.75	0.0	0.14		
Dyna-Gro	M54GR24	32,888	60,548	82	0.84	0.0	0.09		
Dyna-Gro	M57GC29	35,284	59,024	88	0.68	0.0	0.07		
Dyna-Gro	M59GB94	35,284	69,043	88	0.96	0.0	0.09		
Dyna-Gro	M60GB31	31,581	53,361	79	0.70	0.0	0.12		
Dyna-Gro	M63GB78	31,145	54,232	78	0.73	0.0	0.12		
Dyna-Gro	M67GB87	30,274	65,558	76	1.18	0.0	0.10		
Dyna-Gro	M71GR91	30,492	52,708	76	0.74	0.0	0.12		
Dyna-Gro	M72GB71	29,403	45,520	74	0.59	0.0	0.14		
DEKALB	DKS 36-07	37,026	64,469	93	0.74	0.0	0.09		
DEKALB	DKS 40-76	34,630	62,291	87	0.84	0.0	0.12		
DEKALB	DKS 44-07	34,195	55,321	85	0.63	0.0	0.12		
DEKALB	DKS 45-60	30,492	55,539	76	0.87	0.0	0.13		
DEKALB	DKS 50-07	38,115	55,103	95	0.45	0.0	0.12		
Clemson	CU16S159	29,839	40,729	75	0.43	0.0	0.15		



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Clemson	CU19S427	29,621	43,778	74	0.50	0.0	0.13		
Alta Seeds	ADVG 2165	33,323	49,876	83	0.51	0.0	0.13		
Alta Seeds	ADVG 2168IG	29,839	54,014	75	0.83	0.0	0.11		



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Mean	33,149	54,999	83	0.68	0.0	0.12		
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Agronomic information

Plant Date: 6/16/2022

Harvest Date: 11/2/2022

Irrigated: Yes

Row Spacing (in): 30

Number of Rows: 2

Target Seeds per Acre: 40,000

Precipitation (in):

Irrigation (in):

Herbicide:

Soil Type: Sherm silty clay loam

Tillage:

Previous Crop:

Trial Notes

Cooperator: Lone Star Family Farms

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** Samples collected at planting, some locations may have applied fertilizer

Fertilizer Applied		Soil Analysis Report**			
N (lb/ac)		NO3-N (ppm)	44	pH	7.3
P2O5 (lb/ac)		P (ppm)*	76	Conductivity (umho/cm)	307
K2O (lb/ac)		K (ppm)*	781	Ca (ppm)*	2,196
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