

Sunray

2021 Grain Sorghum Performance Trial

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (bu/acre)
Integra	G3665	N/A	46	3	0	11.5	55.7	157.9
Golden Acres	3180B	N/A	45	2	0	11.1	54.6	153.8
DEKALB	DKS 50-07	N/A	48	3	0	13.9	59.9	152.6
DEKALB	DKS 36-07	N/A	45	3	0	12.4	56.3	150.9
DEKALB	DKS 40-76	N/A	46	4	0	13.5	56.6	147.3
DEKALB	DKS 45-60	N/A	46	4	0	14.3	59.2	146.6
Dyna-Gro	GX20998	N/A	46	4	0	13.2	59.2	144.7
DEKALB	DKS 44-07	N/A	45	2	0	13.6	58.4	144.2
Golden Acres	4880R	N/A	49	3	0	14.3	59.4	144.1
Dyna-Gro	M67GB87	N/A	47	3	0	13.3	58.2	143.6
Integra	G3711	N/A	48	2	0	13.8	59.0	140.3
Dyna-Gro	M59GB94	N/A	42	3	0	12.5	56.8	139.5
Integra	G3620	N/A	47	3	0	13.7	59.1	139.4
Dyna-Gro	GX20973	N/A	44	1	0	13.1	58.8	137.4
Integra	G3590	N/A	42	4	0	12.8	57.1	134.5
Dyna-Gro	M63GB78	N/A	44	3	0	13.8	56.6	128.9
Alta Seeds	ADV G2275	N/A	44	4	0	15.8	58.8	117.4
Dyna-Gro	M60GB31	N/A	43	1	0	13.5	58.5	110.1
Texas A&M AgriLife Research	ATx631xRTx436	N/A	47	3	0	14.2	55.9	92.7

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

Sunray

2021 Grain Sorghum Performance Trial

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (bu/acre)																																
Agronomic information		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Mean</td> <td style="width: 15%;"></td> <td style="width: 10%; text-align: center;">45</td> <td style="width: 10%; text-align: center;">3</td> <td style="width: 10%; text-align: center;">0.0</td> <td style="width: 10%; text-align: center;">13.4</td> <td style="width: 10%; text-align: center;">57.8</td> <td style="width: 10%; text-align: center;">138.2</td> </tr> <tr> <td>C.V. %</td> <td></td> <td style="text-align: center;">4.2</td> <td style="text-align: center;">38.2</td> <td></td> <td style="text-align: center;">6.5</td> <td style="text-align: center;">3.1</td> <td style="text-align: center;">9.0</td> </tr> <tr> <td>P>f (hybrid)</td> <td></td> <td style="text-align: center;">0.000</td> <td></td> <td></td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.002</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td>L.S.D.</td> <td></td> <td style="text-align: center;">2.8</td> <td></td> <td></td> <td style="text-align: center;">1.2</td> <td style="text-align: center;">2.6</td> <td style="text-align: center;">17.6</td> </tr> </table>							Mean		45	3	0.0	13.4	57.8	138.2	C.V. %		4.2	38.2		6.5	3.1	9.0	P>f (hybrid)		0.000			0.000	0.002	0.000	L.S.D.		2.8			1.2	2.6	17.6
Mean		45	3	0.0	13.4	57.8	138.2																																	
C.V. %		4.2	38.2		6.5	3.1	9.0																																	
P>f (hybrid)		0.000			0.000	0.002	0.000																																	
L.S.D.		2.8			1.2	2.6	17.6																																	
Plant Date	6/8/2021	<div style="background-color: #f3f3f3; text-align: center; padding: 5px;">Trial Notes</div> <div style="border: 1px solid #ccc; height: 100px; margin: 5px 0;"></div> <div style="border: 1px solid #ccc; height: 60px; margin: 5px 0;"></div>																																						
Harvest Date	10/26/2021																																							
Irrigated	Yes																																							
Row Spacing (in)	30																																							
Number of Rows	2																																							
Seeds per Acre	40,000																																							
Precipitation (in)	17.2																																							
Irrigation (in)																																								
Herbicide																																								
At planting: 1.25 qt/ac FulTimeNXT + 12 oz/ac 2,4-D + 12 oz/ac BanvelHQ. Post-emerge: 1.25 qt/ac FulTimeNXT + 48 oz/ac Abundit Edge. 7/15: 1pt/ac Atrazine4L + 16 oz/ac Huskie + 5.3 oz/ac Staredown																																								
Soil Type	Sherm silty clay loam	Fertilizer Applied		Soil Analysis Report**																																				
Tillage	No-till	N (lb/ac)	125	NO3-N (ppm)	51	pH	7.5																																	
Previous Crop	Corn	P2O5 (lb/ac)		P (ppm)*	98	Conductivity (umho/cm)	351																																	
		K2O (lb/ac)		K (ppm)*	736	Ca (ppm)*	3,355																																	
		S (lb/ac)		S (ppm)*	8	Mg (ppm)*	997																																	
		Zn (lb/ac)				Na (ppm)*	42																																	

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

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

Sunray

2021 Grain Sorghum Performance Trial

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
Texas A&M AgriLife Research	ATx631xRTx436	26,572	33,759	66	0.29	0.0	0.15		
Integra	G3590	33,323	62,073	83	0.87	0.0	0.12		
Integra	G3620	33,323	46,609	83	0.41	0.0	0.17		
Integra	G3665	35,719	49,441	89	0.39	0.0	0.18		
Integra	G3711	30,928	49,223	77	0.61	0.0	0.16		
Golden Acres	3180B	38,986	53,143	97	0.38	0.0	0.16		
Golden Acres	4880R	36,155	50,530	90	0.39	0.0	0.16		
Dyna-Gro	GX20973	35,719	55,466	89	0.43	0.0	0.13		
Dyna-Gro	GX20998	35,501	52,054	89	0.47	0.0	0.16		
Dyna-Gro	M59GB94	33,323	52,054	83	0.58	0.0	0.15		
Dyna-Gro	M60GB31	26,789	45,302	67	0.37	0.0	0.14		
Dyna-Gro	M63GB78	32,234	60,331	81	0.88	0.0	0.12		
Dyna-Gro	M67GB87	31,799	56,192	79	0.80	0.0	0.15		
DEKALB	DKS 36-07	37,026	56,846	93	0.54	0.0	0.15		
DEKALB	DKS 40-76	35,066	53,579	88	0.53	0.0	0.15		
DEKALB	DKS 44-07	35,066	54,232	88	0.56	0.0	0.15		
DEKALB	DKS 45-60	35,066	51,401	88	0.47	0.0	0.16		
DEKALB	DKS 50-07	35,284	55,757	88	0.45	0.0	0.15		
Alta Seeds	ADV G2275	30,056	45,520	75	0.55	0.0	0.15		



Sunray

2021 Grain Sorghum Performance Trial



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
-------	--------	---------------------------	----------------	---------------	-------------------------	-------------	-------------------	-------------------------	-----------------------

Mean	33,576	51,764	84	0.52	0.0	0.15		
------	--------	--------	----	------	-----	------	--	--

Agronomic information

Plant Date: 6/8/2021

Harvest Date: 10/26/2021

Irrigated: Yes

Row Spacing (in): 30

Number of Rows: 2

Target Seeds per Acre: 40,000

Precipitation (in): 17.2

Irrigation (in):

Herbicide:

At planting: 1.25 qt/ac FultimeNXT + 12 oz/ac 2,4-D + 12 oz/ac BanvelHQ. Post-emerge: 1.25 qt/ac FultimeNXT + 48 oz/ac Abundit Edge. 7/15: 1pt/ac Atrazine4L + 16 oz/ac Huskie + 5.3 oz/ac Staredown

Soil Type: Sherm silty clay loam

Tillage: No-till

Previous Crop: Corn

Trial Notes

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

Fertilizer Applied		Soil Analysis Report**			
N (lb/ac)	125	NO3-N (ppm)	51	pH	7.5
P2O5 (lb/ac)		P (ppm)*	98	Conductivity (umho/cm)	351
K2O (lb/ac)		K (ppm)*	736	Ca (ppm)*	3,355
S (lb/ac)		S (ppm)*	8	Mg (ppm)*	997
Zn (lb/ac)				Na (ppm)*	42