

Plainview 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)
DEKALB	DKS 50-07	N/A	49	2	0	16.2	59.7	135.5
DEKALB	DKS 44-07	N/A	47	1	0	17.5	58.3	126.9
Integra	G3711	N/A	52	1	0	16.4	58.6	126.1
Golden Acres	4880R	N/A	50	3	0	16.6	55.8	123.8
Integra	G3665	N/A	49	5	0	16.0	54.7	121.9
Golden Acres	3180B	N/A	47	2	0	15.8	56.0	119.2
Texas A&M AgriLife Research	ATx631xRTx436	N/A	58	6	0	15.6	57.7	115.3
Dyna-Gro	M60GB31	N/A	46	4	0	17.4	56.9	113.3
DEKALB	DKS 45-60	N/A	52	7	0	18.4	55.8	110.3
Dyna-Gro	GX20998	N/A	49	6	0	17.7	54.9	107.6
DEKALB	DKS 40-76	N/A	50	5	0	18.5	55.5	107.2
Alta Seeds	ADV G2275	N/A	46	4	0	20.4	55.9	101.4
Dyna-Gro	M67GB87	N/A	53	4	0	19.7	54.2	100.3
Dyna-Gro	M63GB78	N/A	48	4	0	18.1	56.3	98.2
DEKALB	DKS 36-07	N/A	47	4	0	17.2	56.4	96.6
Integra	G3590	N/A	47	5	0	16.0	57.7	95.5
Integra	G3620	N/A	51	8	0	18.1	52.8	95.1
Dyna-Gro	M59GB94	N/A	47	8	0	18.1	53.6	86.3
Dyna-Gro	GX20973	N/A	43	3	0	16.7	55.1	76.1

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

Plainview

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Agronomic information		Mean	49	4	0.0	17.4	56.1	108.2
Plant Date	5/24/2021	C.V. %	4.3	40.8		8.6	3.7	11.9
Harvest Date	9/30/2021	P>f (hybrid)	0.000			0.011	0.040	0.000
Irrigated	Yes	L.S.D.	3.5			2.5	3.5	22.1
Row Spacing (in)	40	Trial Notes						
Number of Rows	2	<p>Cooperator: Don Macha</p> <p>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</p>						
Seeds per Acre	55,000							
Precipitation (in)	18.1							
Irrigation (in)	9							
Herbicide	Sprayed post-emerge with Huskie and Atrazine	<p>* Mehlich 3 by ICP, soiltesting.tamu.edu ** Samples collected at planting, some locations may have applied fertilizer</p>						
Soil Type	Pullman clay loam	Fertilizer Applied		Soil Analysis Report**				
Tillage	Conventional, planted on beds	N (lb/ac)	100	NO3-N (ppm)	20	pH	7.4	
Previous Crop	Sorghum	P2O5 (lb/ac)	30	P (ppm)*	55	Conductivity (umho/cm)	197	
		K2O (lb/ac)	0	K (ppm)*	486	Ca (ppm)*	2,163	
		S (lb/ac)	15	S (ppm)*	7	Mg (ppm)*	779	
		Zn (lb/ac)	0			Na (ppm)*	37	

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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
Texas A&M AgriLife Research	ATx631xRTx436	35,719	42,035	65	0.14	0.0	0.15		
Integra	G3590	48,678	54,886	89	0.06	0.0	0.10		
Integra	G3620	47,372	51,945	86	0.05	0.0	0.10		
Integra	G3665	48,352	54,396	88	0.18	0.0	0.13		
Integra	G3711	40,729	47,698	74	0.13	0.0	0.15		
Golden Acres	3180B	52,054	53,797	95	0.04	0.0	0.12		
Golden Acres	4880R	43,778	48,188	80	0.10	0.0	0.14		
Dyna-Gro	GX20973	38,877	53,252	71	0.18	0.0	0.08		
Dyna-Gro	GX20998	44,867	51,183	82	0.11	0.0	0.12		
Dyna-Gro	M59GB94	42,689	59,242	78	0.29	0.0	0.08		
Dyna-Gro	M60GB31	34,630	46,391	63	0.17	0.0	0.14		
Dyna-Gro	M63GB78	44,595	49,822	81	0.12	0.0	0.11		
Dyna-Gro	M67GB87	38,877	53,906	71	0.19	0.0	0.10		
DEKALB	DKS 36-07	45,411	50,475	83	0.11	0.0	0.11		
DEKALB	DKS 40-76	44,649	50,965	81	0.11	0.0	0.12		
DEKALB	DKS 44-07	50,148	55,212	91	0.10	0.0	0.13		
DEKALB	DKS 45-60	43,614	48,025	79	0.10	0.0	0.13		
DEKALB	DKS 50-07	42,907	48,569	78	0.10	0.0	0.16		
Alta Seeds	ADV G2275	35,284	43,941	64	0.26	0.0	0.13		



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Mean	43,328	50,733	79	0.14	0.0	0.12		
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Agronomic information	
Plant Date	5/24/2021
Harvest Date	9/30/2021
Irrigated	Yes
Row Spacing (in)	40
Number of Rows	2
Target Seeds per Acre	55,000
Precipitation (in)	18.1
Irrigation (in)	9
Herbicide	Sprayed post-emerge with Huskie and Atrazine
Soil Type	Pullman clay loam
Tillage	Conventional, planted on beds
Previous Crop	Sorghum

Trial Notes

Cooperator: Don Macha
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)	100	NO3-N (ppm)	20	pH	7.4
P2O5 (lb/ac)	30	P (ppm)*	55	Conductivity (umho/cm)	197
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