TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2021 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
DEKALB	DKS 44-07	81	53	6	0	15.0	58.8	6,966
Integra	G3665	78	53	6	0	14.6	56.9	6,465
Dyna-Gro	GX21965	81	50	5	0	15.2	57.5	6,206
Dyna-Gro	GX20998	79	53	8	0	16.1	57.9	6,099
Golden Acres	3180B	79	53	7	0	14.2	56.4	6,008
Dyna-Gro	M63GB78	77	48	6	0	14.9	57.1	5,948
DEKALB	DKS 50-07	83	54	6	0	15.8	59.3	5,824
Dyna-Gro	M72GB71	81	55	8	0	15.3	57.8	5,691
Dyna-Gro	GX20970	83	51	7	0	15.0	57.7	5,669
Dyna-Gro	M67GB87	80	53	7	0	14.9	58.1	5,605
Alta Seeds	ADV G2275	79	49	8	0	16.2	58.0	5,513
DEKALB	DKS 54-07	85	57	6	0	16.3	59.1	5,188
Integra	G3620	79	53	10	0	15.5	57.7	5,172
DEKALB	DKS 36-07	76	49	8	0	14.4	54.9	5,020
Texas A&M AgriLife Research	ATx631xRTx436	85	62	7	0	15.2	57.7	4,759
Dyna-Gro	M71GR91	85	55	7	0	16.4	59.0	4,558
Integra	G3711	86	52	7	0	16.3	58.8	4,144

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2021 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

Brand	Hybrid	Days to 50% Flower	Plant Height (in)	Head Ex (in)	Lodging (%)	Moisture (%)	Test Weight (lbs/bu)	Yield * (lbs/acre)
Mean		81	53	7	0.0	15.4	57.8	5,579
C.V. %		1.3	2.8	19.3		4.5	2.2	12.4
P>f (hybrid)		0.000	0.000	0.016		0.000	0.002	0.000
L.S.D.		1.5	2.1	1.9		1.0	1.8	981.7

Agronomic information

Plant Date	3/16/2021
Harvest Date	7/30/2021
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	19
Irrigation (in)	

Herbicide

*Pre-emerge: 1 qt/ac Roundup + 14oz/ac Outlook
*4/21: 1.33 pt/ac Dual + 1 qt/ac Atrazine

Soil Type	Burleson clay
Tillage	Conventional, cultivated on 4/21
Previous Crop	Corn

Trial Notes

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

Cooperator: Stiles Farm Foundation

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
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	65
K2O (lb/ac)	55
S (lb/ac)	15
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	9	pH	6.0
P (ppm)*	104	Conductivity (umho/cm)	379
K (ppm)*	207	Ca (ppm)*	5,348
S (ppm)*	45	Mg (ppm)*	564
		Na (ppm)*	31

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

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2021 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

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	33,323	53,579	51	0.66	0.0	0.09		
Integra	G3620	50,747	51,619	78	0.04	0.0	0.10		
Integra	G3665	52,054	54,014	80	0.05	0.0	0.12		
Integra	G3711	24,611	53,797	38	1.24	0.0	0.08		
Golden Acres	3180B		54,668	86	0.03	0.0	0.11		
Dyna-Gro	GX20970	44,649	52,490	69	0.19	0.0	0.11		
Dyna-Gro	GX20998	50,530	51,183	78	0.04	0.0	0.12		
Dyna-Gro	GX21965	51,401	51,401	79	0.02	0.0	0.12		
Dyna-Gro	M63GB78	46,174	51,401	71	0.13	0.0	0.12		
Dyna-Gro	M67GB87	43,560	51,836	67	0.20	0.0	0.11		
Dyna-Gro	M71GR91	35,284	52,272	54	0.51	0.0	0.09		
Dyna-Gro	M72GB71	45,956	52,054	71	0.14	0.0	0.11		
DEKALB	DKS 36-07	54,668	54,886	84	0.04	0.0	0.09		
DEKALB	DKS 44-07	52,490	53,797	81	0.03	0.0	0.13		
DEKALB	DKS 50-07	44,213	52,708	68	0.19	0.0	0.11		
DEKALB	DKS 54-07	45,085	54,450	69	0.21	0.0	0.10		
Alta Seeds	ADV G2275	40,075	53,361	62	0.24	0.0	0.10		

TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Thrall
2021 Grain Sorghum Performance Trial

TEXAS A&M AGRILIFE

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		45,341	52,913	70	0.23	0.0	0.11		

Agronomic information

Plant Date	3/16/2021
Harvest Date	7/30/2021
Irrigated	No
Row Spacing (in)	30
Number of Rows	2
Seeds per Acre	65,000
Precipitation (in)	19
Irrigation (in)	

Herbicide

*Pre-emerge: 1 qt/ac Roundup + 14oz/ac Outlook
*4/21: 1.33 pt/ac Dual + 1 qt/ac Atrazine

Soil Type	Burleson clay
Tillage	Conventional, cultivated on 4/21
Previous Crop	Corn

Trial Notes

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

Cooperator: Stiles Farm Foundation

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
ronschnell@tamu.edu / khorn@tamu.edu
979-845-2935 / 979-845-8505

Fertilizer Applied

N (lb/ac)	100
P2O5 (lb/ac)	65
K2O (lb/ac)	55
S (lb/ac)	15
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)	9	pH	6.0
P (ppm)*	104	Conductivity (umho/cm)	379
K (ppm)*	207	Ca (ppm)*	5,348
S (ppm)*	45	Mg (ppm)*	564
		Na (ppm)*	31