TEXAS A&M UNIVERSITY
Soil & Crop Sciences

Bardwell
2021 Sunflower
Performance Trial

TEXAS A&M AGRILIFE

Brand	Variety	Plant Height (in)	Lodging (%)	Oil Content (%)	Moisture %	Test Weight (lb/bu)	Yield (lb/acre)
Dyna-Gro	XH91H54	67	20	N/A	9.7	28.9	2,060.2
S&W Seed	SF440	61	0	N/A	12.6	29.7	2,039.2
Nuseed	N4H422	57	60	N/A	9.3	30.5	1,933.6
S&W Seed	SW110	57	0	N/A	10.5	30.6	1,824.9
Nuseed	N4H521	67	5	N/A	8.5	27.7	1,787.6
Dyna-Gro	XH81H52CP	70	0	N/A	8.9	27.2	1,787.3
Nuseed	N4H302	73	0	N/A	8.0	29.9	1,619.9
Nuseed	Falcon	60	50	N/A	7.5	30.1	1,616.0
Dyna-Gro	H45NS16	56	5	N/A	8.2	29.7	1,569.0
Nuseed	N4H470	64	0	N/A	7.7	31.9	1,534.7
Dyna-Gro	H49NS14	68	0	N/A	7.7	30.4	1,515.0
Pioneer	P64HE101	63	0	N/A	7.8	31.3	1,508.4
Dyna-Gro	H49HO19	68	0	N/A	8.6	27.9	1,498.6
Dyna-Gro	H48HO15	56	0	N/A	9.7	30.9	1,428.2
Pioneer	P63ME80	62	40	N/A	10.2	26.5	1,368.7

*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked variety. Shattering score is based on a 0-9 scale. 0 = no shattering, 9 = severe.

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	Mean	63	12		9.0	29.5	1,672.8
	C.V. %	8.5	169.8		19.5	5.2	14.5
	P>f (hybrid)	0.454	0.018		0.075	0.421	0.006
	L.S.D.						127.0

Agronomic information

Plant Date	3/24/2021
Harvest Date	8/7/2021
Irrigated	No
Row Spacing (in)	30
Number of Rows	12
Seeds per Acre	20,000
Precipitation (in)	28.4
Irrigation (in)	

Herbicide

3/15: 1.75 oz/ac Zidua CS + 1 pt/ac Dual II Magnum

Soil Type	Branyon clay
Tillage	Conventional
Previous Crop	Wheat

Trial Notes

*Extended rainfall during bloom (23 days in May + first 10 days in June) contributed to plant stress and lower than normal yield
*3.75 lb/ac magnesium applied in the fall

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

Cooperator: Bob & Steven Beakley

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:
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Fertilizer Applied

N (lb/ac)	85
P2O5 (lb/ac)	38
K2O (lb/ac)	14
S (lb/ac)	8
Zn (lb/ac)	0

Soil Analysis Report**

NO3-N (ppm)		pH	
P (ppm)*		Conductivity (umho/cm)	
K (ppm)*		Ca (ppm)*	
S (ppm)*		Mg (ppm)*	
		Na (ppm)*	

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