Texas A&M Dept. of Soil & Crop Sciences

TEXAS A&M AGRILIFE RESEARCH

2017 Irrigated Oilseed Sunflower Hybrid Trial
Lubbock, Texas
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TEXAS A&M AGRILIFE EXTENSION

Planted June 29, harvested November 8, 2017.

Company or Brand	Hybrid	Hybrid Trait†	Days to Half Bloom	Sept. 29 Growth Stage§	Plant Height (in.)	Avg. Plants/ acre	Test Wt. (lbs./bu)	% Oil Con- tent	Oil Yield (lbs./A)	Seed Yield ,@10% H2O (lbs./A)	Crop Value‡ ($/Acre)
Dyna-Gro	DG H49HO19 CL (1)	HO, CL	57	7.9	54	19,100	27.4	38.8	724	1,862	313
Dyna-Gro	DG H48HO15 CL (2)	HO, CL	55	8.5	53	16,300	25.9	39.4	725	1,842	314
Mycogen	MY8H456CL	HO, CL	56	8.4	51	18,000	25.9	39.6	880	2,223	381
Mycogen	MY8S527	HO, LowSat	54	7.6	50	17,200	26.1	38.4	696	1,812	301
Nuseed	Cobalt II	HO, CL	50	8.3	40	17,200	28.9	37.6	674	1,792	291
Nuseed	Hornet	HO, CL	57	7.8	57	16,800	28.8	38.5	742	1,927	321
Nuseed	N4HM354	Nu, CL	54	8.2	50	17,500	29.6	38.0	831	2,183	338
Nuseed	N4HM521	HO, CL	53	7.8	50	17,100	27.2	38.5	923	2,399	399
Nuseed	N4HM505	HO, CL	54	8.3	50	17,900	28.1	38.0	824	2,167	356
Terral	REV SF364	Nu, EX	52	8.4	50	17,800	28.7	38.2	652	1,704	265
Terral	REV SF385	HO, EX	53	7.6	59	16,500	30.4	36.2	608	1,682	260
	Oilseed Average		**54**	**8.1**	**51**	**17,400**	**27.9**	**38.3**	**753**	**1,963**	**$322**
P-Value (Hybrid)			<0.0001		<0.0001	0.7302	<0.0001	<0.0001	0.0035	0.0056	0.0024
Fisher's Protected LSD (0.05)¶			2		6	NS	1.3	0.9	153	381	66
Coefficient of Variation, CV (%)			3.9		11.2	11.5	6.0	2.6	17.5	16.4	17.8

†Nu = NuSun mid-oleic, HO = high oleic, EX = Express herb. tolerant, CL = Clearfield herbicide tolerant, LowSat = low saturated fat.

§Description of sunflower growth stages. 1981. Schneiter et al., Crop Science 21:901-903.

‡Most common market pricing for oilseed is HO @ $17.30/cwt. & Nu @ $16.30/cwt. with 2-for-1 pricing above 40.0% oil & -2.5-for-1 below 40.0%.

¶Numbers in the same column that vary by more than the LSD are significantly different at the 95% confidence level.

(1) tested as XH71H27CL
(2) tested as XH72H47CL

2017 Trial Notes:
Seasonal rainfall was ~20 with 3" irrigation. Sunflower head moth control (Dupont Prevathon) was applied twice by backpack sprayer. Trial received 60 lbs. N/acre.

An adjacent confectionary sunflower hybrid trial (8 entries) yielded ___ lbs./A (X% seed >22/64") with average crop value $___/acre.

Trial conducted by Dr. Calvin Trostle, Extension Agronomy, Lubbock, (806) 723-8432, ctrostle@ag.tamu.edu

2015-2017 Irrigated Oilseed Sunflower Hybrid Trial
Lubbock, Texas
(Texas A&M AgriLife Center, Page 2)

Company or Brand	Hybrid	Hybrid Trait†	2017 %Oil Content	2017 Yield (lbs./A	2016-2017 %Oil Content	2016-2017 Yield (lbs./A	2015-2017 %Oil Content	2015-2017 Yield (lbs./A
Dyna-Gro	DG H49HO19 CL	HO, CL	38.8	1,862				
Dyna-Gro	DG H48HO15 CL	HO, CL	39.4	1,842				
Mycogen	MY8H456CL	HO, CL	39.6	2,223	41.3	2,562	40.7	2,371
Mycogen	MY8S527	HO, LowSat	38.4	1,812	40.2	2,103		
Nuseed	Cobalt II	HO, CL	37.6	1,792	36.5	2,123	36.5	2,018
Nuseed	Hornet	HO, CL	38.5	1,927	39.1	2,468	38.4	2,283
Nuseed	N4HM354	Nu, CL	38.0	2,183	39.2	2,567		
Nuseed	N4HM521	HO, CL	38.5	2,399				
Nuseed	N4HM505	HO, CL	38.0	2,167				
Terral	REV SF364	Nu, EX	38.2	1,704				
Terral	REV SF385	HO, EX	36.2	1,682				
	Oilseed Average		**38.3**	**1,963**	**39.2**	**2,365**	**38.5**	**2,224**

For further information about this test contact Extension agronomist Dr. Calvin Trostle, Texas A&M AgriLife Extension, Lubbock, (806) 723-8432, ctrostle@ag.tamu.edu For Texas A&M AgriLife Crop Testing program info. contact Ms. Katrina Horn, Crop Testing director, Texas A&M AgriLife Research, College Station, (979) 845-8505, khorn@tamu.edu

For further information about sunflower in Texas contact Calvin Trostle, or visit our sunflower webpages at http://lubbock.tamu.edu/sunflower, or http://varietytesting.tamu.edu/sunflower