TEXAS A&M AGRILIFE RESEARCH

2013 Irrigated Oilseed Sunflower Hybrid Trial
Etter, Texas (Moore Co.)

TEXAS A&M AGRILIFE EXTENSION

Planted June 27, irrigated up July 1, harvested November 4, 2013.

Company or Brand	Hybrid	Oil Type†	Days to Half Bloom	Plant Height (inches)	Avg. Plants/ acre	Lodg-ing %	Test Weight (lbs./bu)	% Oil Con-tent	Oil Yield (lbs./A)	Seed Yield ,@10% H2O (lbs./A)	Crop Value‡ ($/Acre)	2012-2013 Avg. Yield (lbs./A	2012-2013 Avg. %Oil Content
Mycogen	8H449 CLDM	CL, HO	57	55	12,900	3.4	33.1	44.5	847	1,905	529	2,250	44.8
Mycogen	8N421 CLDM	CL, Nu	58	61	14,600	5.6	30.4	42.1	815	1,932	514	2,164	41.5
Mycogen	8N510	Nu	56	55	14,100	4.7	29.6	41.4	763	1,840	483	2,233	40.1
Mycogen	8N668S	Nu, SS	57	44	14,500	1.8	31.7	44.4	888	2,004	555		
Seeds 2000/Nuseed	Camaro II	CL, Nu	57	66	15,500	4.4	32.2	41.6	709	1,703	449	1,882	41.5
Seeds 2000/Nuseed	Cobalt II	CL, HO	55	56	13,900	2.5	30.7	39.7	598	1,510	382	1,575	39.8
Seeds 2000/Nuseed	Daytona	CL,HO	56	56	16,000	3.6	30.6	40.4	669	1,656	425	1,887	39.4
Seeds 2000/Nuseed	Falcon	EX, Nu	56	53	15,100	6.1	32.1	42.5	675	1,588	425		
Seeds 2000/Nuseed	Hornet	CL, HO	60	62	15,700	5.0	29.1	41.8	781	1,866	493		
Seeds 2000/Nuseed	NHK12M011	CL, HO	59	65	15,300	4.7	29.2	41.6	785	1,889	497		
Seeds 2000/Nuseed	NLK12M008	CL, Nu	58	59	15,400	4.0	30.7	40.9	793	1,942	504		
Seeds 2000/Nuseed	Sierra	HO	58	60	15,500	12.0	27.5	36.8	626	1,700	406	2,223	37.5
Seeds 2000/Nuseed	Torino	CL, Nu	58	60	15,700	4.4	33.0	42.1	753	1,788	475	1,911	41.3
		Average	*57*	*58*	*14,900*	*5*	*30.7*	*41.5*	*746*	*1,794*	*472*		
P-Value (Hybrid)			<0.0001	<0.0001	0.1456	0.0009	<0.0001	<0.0001	<0.0001	0.0008	<0.0001		
Fisher's Protected LSD (0.05)¶			1	5	NS	3.6	0.7	1.2	93	220	58		
Coefficient of Variation, CV (%)			2.6	11.6	10.0	68.7	5.5	4.9	14.2	11.7	13.6		

†Nu = NuSun mid-oleic, HO = high oleic, EX = Express herb. tolerant, SS = short stature, CL = Clearfield herb. tolerant.

‡Typical market pricing in 2013 for Texas High Plains oilseed is $25.50/cwt., with 2-for-1 pricing based on oilseed content at 40.0% oil.

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

Trial Notes:

Seasonal rainfall was 3.3" with furrow irrigation of 14". Sunflower head moth control (Dupont Prevathon + Syngenta Warrior T) was applied 3 times to blanket the bloom period. Warrior T was added in the 2nd & 3rd sprays due to the presence of head clipping weevil, for which

yields were adjusted for missing heads (most plots ≤3; nine plots 4 to 7 clipped heads). Most lodging due to soybean stem borer.
An adjacent confectionary sunflower hybrid trial yielded 2,250 lbs./A with an average crop value of $756/acre.

For further information about this test or the Texas A&M AgriLife Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director, Texas A&M AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu
Please visit the Crop Testing webpage at http://varietytesting.tamu.edu for sunflower and other crop hybrid information.
For additional sunflower production resources for Texas contact Extension agronomist Dr. Calvin Trostle, Lubbock, Texas A&M AgriLife Extension Service, Lubbock, (806) 746-6101, ctrostle@ag.tamu.edu, or visit http://lubbock.tamu.edu/sunflower