

2011 Oilseed Sunflower Hybrid Trial
Etter, Texas (Moore Co.)

Planted June 23, 2011; harvested October 14 & 17, 2011; June-September rainfall, 2.7"

Company or Brand	Hybrid	Oil Type†	Avg. Plants/acre	Plant Height (in.)	Days to Half Bloom	Lodging %	Test Weight (lbs/bu)	Seed Oil %	Seed Yield @10% H2O (lbs./A)	Oil Yield (lbs./A)	Crop Value‡ (\$/Acre)	2010-2011 Avg.		2009-2011 Avg.	
												Oil %	Yield (lbs./A)	Oil %	Yield (lbs./A)
Croplan	460 E NS	Nu, Exp	19,900	59	61	10.6	30.9	43.5	2,718	1,183	\$ 815	42.6	2,644	43.2	2,561
Croplan	548 CL DMR NS	Nu, CL	18,600	58	59	5.9	29.5	38.5	2,183	838	\$ 592				
Croplan	559 CL DMR NS	Nu, CL	19,400	58	61	7.6	30.6	41.2	2,069	853	\$ 593	41.0	2,362		
Dahlgren	2012 CL DM	HO, CL	18,500	55	60	6.5	30.1	41.8	2,210	923	\$ 641				
Mycogen	8H449 CL DM	HO, CL	18,500	53	59	4.3	33.5	43.7	2,031	887	\$ 611				
Mycogen	8N421 CL DM	Nu, CL	20,500	56	59	5.3	29.8	42.2	2,023	854	\$ 591				
Mycogen	8N453 DM	Nu	20,900	53	58	6.4	31.8	46.2	2,271	1,049	\$ 715	44.7	2,597	45.9	2,729
Mycogen	8N510	Nu	20,700	53	58	6.6	28.8	41.0	2,207	902	\$ 629	40.6	2,325	41.7	2,571
Pioneer	63M91	Nu	18,600	58	59	3.1	31.6	42.5	2,326	989	\$ 684				
Pioneer	63ME80	Nu, Exp	18,900	53	60	8.4	32.7	40.4	1,934	783	\$ 547				
Pioneer	64HE01	HO, Exp	20,200	61	61	4.9	30.1	41.8	2,340	977	\$ 678				
Seeds 2000	Camaro CL, DMR	Nu, CL	19,000	57	61	9.0	26.7	37.7	2,306	870	\$ 617				
Seeds 2000	Cobalt, DMR	HO, CL	20,500	57	60	4.4	32.0	40.7	2,434	990	\$ 691				
Seeds 2000	Durango XPS	Nu, Exp	18,100	48	62	3.7	32.2	39.3	1,758	692	\$ 486				
Seeds 2000	Sierra	HO	20,400	50	58	3.0	30.0	39.3	2,488	977	\$ 686	38.6	2,158	38.8	2,292
Syngenta	3158 NS/CL/DM	Nu, CL	19,700	52	57	12.7	28.4	40.5	1,963	802	\$ 559				
Syngenta	3495 NS/CL/DM	Nu, CL	19,800	54	59	9.1	31.5	41.9	2,086	867	\$ 603				
Syngenta	3733 NS/DM	Nu	21,300	48	58	10.1	28.8	42.7	2,066	884	\$ 610				
Syngenta	3845 HO	HO	21,700	54	58	6.7	30.4	42.8	2,271	967	\$ 669	42.6	2,477	44.5	2,607
Syngenta	3875 NS	Nu	20,200	53	58	9.2	29.9	41.6	2,365	986	\$ 684	40.6	2,582		
Syngenta	3995 NS/SU	Nu, Exp	20,900	55	59	9.3	28.2	37.5	2,250	842	\$ 598				
Syngenta	4596 HO/DM	HO	18,100	66	60	7.3	32.4	40.6	2,344	950	\$ 664				
Syngenta	4651 NS/DM	Nu	21,700	60	60	6.3	27.7	39.1	2,122	828	\$ 582				
Triumph	664	Nu	19,400	62	60	4.2	30.3	42.5	2,593	1,100	\$ 761	43.0	2,705	44.5	2,755
Triumph	s668	Nu, SS	17,700	41	60	4.2	31.7	41.4	2,466	1,017	\$ 708	42.7	2,522		
Triumph	s673	Nu, SS	19,500	44	61	0.8	30.1	39.4	1,980	779	\$ 547	40.7	2,155		
Triumph	s870 HCL	HO, CL, SS	20,400	41	61	6.4	31.0	42.7	2,060	881	\$ 609	42.9	2,086		
Triumph	TRX 8341	Nu	16,000	53	58	4.4	29.5	43.2	2,568	1,104	\$ 762				
Trial Average			19,500	54	59	6.4	30.4	41.3	2,230	921	\$ 640	41.8	2,419	43.1	2,586

See page 2 for statistical data, group hybrid type yields, discussion, and contact information.

2011 Oilseed Sunflower Hybrid Trial, Etter, TX (page 2)

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												Oil %	Yield (lbs./A)	Oil %	Yield (lbs./A)
Trial Average			19,500	54	59	6.4	30.4	41.3	2,230	921	\$ 640	41.8	2,419	43.1	2,586

Oil Type

NuSun (20 hybrids)						6.9	30.0	41.1	2,213	911	\$ 634
High Oleic (8)						5.4	31.2	41.7	2,272	944	\$ 656

Herbicide Tolerance

Clearfield Tolerant (10)						6.0	30.7	41.7	2,096	873	\$ 606
Express Tolerant (5)						7.4	30.8	40.5	2,200	895	\$ 625
Non-herbicide Tolerant (13)						5.6	30.2	41.7	2,313	964	\$ 669

Plant Height Designation

Short Stature (5)		55				6.8	30.3	41.3	2,237	924	\$ 643
Conventional Height (21)		42				3.8	30.9	41.2	2,169	892	\$ 621

P-Value (Hybrid)	0	<0.0001	0.0501	0.003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)§	NS	5	1	4	1.8	1.8	354	141	\$ 98	
Coefficient of Variation, CV (%)	10.9	12.3	2.3	57.4	6.0	5.4	13.9	15.1	14.7	

†Nu = NuSun mid-oleic, HO = high oleic, CL = Clearfield herbicide tolerant, Exp = Express herbicide tolerant, SS = short stature

‡Oilseed--2:1 premium/discount vs. 40% oil priced at an average High Plains = \$28/cwt.

§Numbers in same column that vary by more than least sig. difference are significantly different at 95% confidence level (NS, not significant).

Trial Notes: This trial was subject to high heat and record Texas Panhandle drought conditions in 2011. The test was irrigated heavily including pre-plant irrigation of ~7" (total irrigation ~27"). All lodging is attributed to soybean stem borer (*Dectes texanus*) and oilseed plots were netted to protect from bird feeding, which is not normally a problem at Etter, but in the drought the sunflowers attracted birds due to little other favorable feed. Trial was sprayed for sunflower head moth by air twice using Warrior.

An **adjacent confectionary** sunflower hybrid trial (12 hybrids) yielded 2.398 lbs./A (86.4% seed > 20/64") with average crop value \$775/acre.

For further info. about this test and for sunflower production resources for Texas contact Extension agronomist Dr. Calvin Trostle, Lubbock, (806) 746-6101, ctrostle@ag.tamu.edu, or visit <http://lubbock.tamu.edu/sunflower>

For further info. about the Texas AgriLife Research Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing

Director, Texas AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu

Please visit the Crop Testing webpage at <http://varietytesting.tamu.edu>