

2011 Oilseed Sunflower Hybrid Trial
Lubbock, Texas

Planted June 6, 2011; harvested October 7-8, 2011; June-September rainfall, 2.2"

Company or Brand	Hybrid	Oil Type†	Avg. Plants/acre	Plant Height (inches)	Days to Half Bloom	Test Weight (lbs./bu)	Oil Content %	Seed Yield ,@10% H2O (lbs./A)	Oil Yield (lbs./A)	Crop Value‡ (\$/Acre)	2010-2011 Avg.	
											Oil %	Yield (lbs./A)
Croplan	460 E NS	Nu, Exp	19,400	59	60	26.3	42.3	1,799	763	\$ 528	41.9	2,161
Croplan	548 CL DMR NS	Nu, CL	17,000	50	56	27.9	38.8	1,981	768	\$ 541		
Croplan	559 CL DMR NS	Nu, CL	18,000	58	58	25.2	39.8	1,942	776	\$ 543	40.1	2,266
Dahlgren	2012 CL DM	HO, CL	19,100	57	55	30.1	43.7	2,022	882	\$ 607		
Pioneer	63M91	Nu	14,900	53	56	30.3	39.2	2,092	822	\$ 578		
Pioneer	63ME80	Nu, Exp	18,800	61	58	28.7	40.5	1,862	755	\$ 527		
Pioneer	64HE01	HO, Exp	16,000	46	57	31.8	39.8	1,646	655	\$ 459		
Seeds 2000	Camaro CL, DMR	Nu, CL	20,400	58	57	30.7	40.4	2,190	886	\$ 619		
Seeds 2000	Cobalt, DMR	HO, CL	20,200	48	56	29.5	41.3	2,081	859	\$ 598		
Seeds 2000	Durango XPS	Nu, Exp	19,700	45	58	27.0	37.4	1,829	682	\$ 484		
Seeds 2000	Sierra	HO	19,200	50	58	26.0	38.3	1,722	659	\$ 466	38.8	1,956
Syngenta	3158 NS/CL/DM	Nu, CL	19,000	52	57	28.3	41.5	1,890	784	\$ 545		
Syngenta	3495 NS/CL/DM	Nu, CL	19,700	53	57	28.6	41.7	1,770	741	\$ 514		
Syngenta	3733 NS/DM	Nu	17,400	47	57	27.6	43.8	2,075	910	\$ 626		
Syngenta	3845 HO	HO	17,100	49	55	27.9	42.9	2,146	925	\$ 638	43.0	1,944
Syngenta	3875 NS	Nu	19,300	52	56	29.5	42.0	2,090	876	\$ 608	41.7	2,054
Syngenta	3995 NS/SU	Nu, Exp?	18,300	50	56	27.2	39.1	2,041	796	\$ 560		
Syngenta	4596 HO/DM	HO	14,600	59	56	30.8	41.1	2,039	837	\$ 583		
Syngenta	4651 NS/DM	Nu	17,700	54	56	26.7	38.1	2,080	791	\$ 559	39.1	2,178
Triumph	664	Nu	13,800	56	57	27.6	40.9	2,073	847	\$ 590	41.0	2,203
Triumph	s668	Nu, SS	18,100	39	57	28.5	44.0	1,896	834	\$ 573	43.3	2,265
Triumph	s673	Nu, SS	16,700	38	58	27.7	42.2	2,063	871	\$ 603	42.1	2,415
Triumph	s870 HCL	HO, CL, SS	15,700	39	58	27.8	43.5	1,703	740	\$ 510	42.6	1,904
Triumph	TRX 8341	Nu	16,400	48	55	29.3	44.6	2,156	957	\$ 657		
Triumph	TRXs11431 CL	Nu, CL, SS	18,900	39	57	26.6	42.1	2,061	866	\$ 601		
Triumph	TRXs11432 CL	Nu, CL, SS	16,700	38	55	28.5	43.5	2,182	948	\$ 653		
Trial Average			17,800	50	57	28.3	41.2	1,978	817	\$ 568	41.4	2,135

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

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											Oil %	Yield (lbs./A)
Trial Average			17,800	50	57	28.3	41.2	1,978	817	\$ 568	41.1	2,143

Oil Type

NuSun (19 hybrids)						28.0	41.1	2,004	825	\$ 574
High Oleic (7)						29.1	41.5	1,909	794	\$ 551

Herbicide Tolerance

Clearfield Tolerant (10)						28.3	41.6	1,982	825	\$ 573
Express Tolerant (5)						28.2	39.8	1,835	730	\$ 512
Non-herbicide Tolerant (11)						28.3	41.5	2,039	848	\$ 589

Plant Height Designation

Short Stature (5)		39				27.8	43.0	1,981	852	\$ 588
Conventional Height (21)		53				28.4	40.8	1,977	808	\$ 563

P-Value (Hybrid)	<0.0001	<0.0001	0.0501	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)§	2,600	6	2	1.9	2.2	296	125	\$ 90	
Coefficient of Variation, CV (%)	13.6	15.6	2.7	7	5.9	13.3	15.2	14.6	

†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.

‡Typical market pricing in 2010 for Texas High Plains.

§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 excessive heat and drought conditions in 2011 where season-long rainfall and the number of days at 100°F or higher broke all-time records by considerable margins. Excessive heat and drying conditions after irrigation to establish the stand led to somewhat sporadic stands. Due to rapid drying even more irrigation could have been applied but it was not available. The trial was netted to deter bird damage (yields adjusted for bird loss if needed). Trial was sprayed for sunflower head moth three times.

An **adjacent confectionary** sunflower hybrid trial (12 hybrids) yielded 1,387 lbs./A (83.0% seed > 20/64") with average crop value of \$441/acre.

For further info. about this test and 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>