

2010 Oilseed Sunflower Hybrid Trial
Lubbock, Texas

Planted June 30, 2010; harvested October 11, 2010; June-September rainfall, 9.5"

Company or Brand	Hybrid	Oil Type†	Price per Cwt.‡	Days to Half Bloom	Plant Height (inches)	Avg. Plants/acre	Test Weight (lbs./bu)	Seed Yield ,@10% H2O (lbs./A)	Oil Content %	Oil Yield (lbs./A)	Crop Value¶ (\$/Acre)
Advanta	AP462NS	Nu	15.25	53	71	20,500	32.3	2,611	40.9	1,068	\$ 405
Advanta	F51122NS,CL	Nu, CL	15.25	50	58	18,700	29.0	1,483	38.6	573	\$ 220
Croplan	CG 356A NS	Nu	15.25	51	61	20,000	30.6	2,048	42.1	864	\$ 326
Croplan	CG 378 DMR NS	Nu	15.25	55	67	20,200	29.8	2,132	40.2	855	\$ 326
Croplan	CG 460 E NS	Nu, Ex	15.25	56	74	19,000	30.4	2,524	41.4	1,043	\$ 395
Croplan	CG 559 CL DMR NS	Nu,CL	15.25	54	72	19,300	33.5	2,590	40.4	1,045	\$ 398
Check	Pioneer 63N82	Nu, Ex	15.25	53	64	16,100	33.3	2,446	39.5	966	\$ 369
Seeds 2000	Blazer CL	Nu, CL	15.25	54	61	12,000	30.4	2,404	40.3	971	\$ 370
Seeds 2000	Firebird	Nu, Ex	15.25	54	63	21,900	29.9	2,071	37.0	766	\$ 297
Seeds 2000	Sierra	HO	16.25	54	71	19,900	28.7	2,191	39.4	863	\$ 352
Seeds 2000	X6816	Trad.	15.25	54	57	19,400	30.9	2,344	40.5	948	\$ 361
Seeds 2000	X9464	HO, CL	16.25	52	69	20,500	30.6	2,343	38.0	890	\$ 365
Seeds 2000	X9866	Nu, CL	15.25	54	62	19,200	31.0	2,119	39.8	844	\$ 322
Syngenta	3732NS	Nu	15.25	52	58	19,600	30.4	2,056	41.9	859	\$ 325
Syngenta	3845HO	HO	16.25	51	60	17,600	32.9	1,742	43.2	751	\$ 301
Syngenta	3875NS	Nu	15.25	51	54	16,900	32.0	2,019	41.4	841	\$ 318
Syngenta	4651 NS/DM	Nu	15.25	55	65	18,700	30.7	2,276	40.1	913	\$ 348
Triumph	664	Nu	15.25	53	64	18,400	32.6	2,333	41.2	963	\$ 365
Triumph	s668	Nu, SS	15.25	52	54	19,100	33.5	2,634	42.6	1,123	\$ 423
Triumph	s673 (TRXs8420)	Nu, SS	15.25	53	57	20,100	31.3	2,767	42.0	1,163	\$ 439
Triumph	s870HCL	HO, CL, SS	16.25	55	54	19,500	31.8	2,104	41.8	878	\$ 354
Triumph	s878H	HO, SS	15.25	54	57	17,300	32.7	2,529	41.4	1,047	\$ 416
NuSun Average					63		31.3	2,282	40.6	929	\$ 353
High Oleic Average					62		31.4	2,182	40.7	886	\$ 358
Short Stature Average					56		32.3	2,508	42.0	1,053	\$ 408
Overall Average				53	62	18,800	31.3	2,262	40.6	920	\$ 354

P-Value (Hybrid)	<0.0001	<0.0001	0.0501	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)§	1.0	8.5	NS	1.0	388	1.7	164	\$ 62
Coefficient of Variation, CV (%)	2.8	11.8	15.8	4.8	15.9	5.4	17.0	16.4

†Nu = NuSun mid-oleic, HO = high oleic, CL = Clearfield herbicide tolerant, Ex = Express herbicide tolerant, SS = short stature
‡Typical market pricing in 2010 for Texas High Plains. ¶Oilseed--2:1 premium/discount vs. 40% oil.
§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 moved to a smaller test site after 2009 residual herbicide led to a poor stand in our mid-May planting (hence the two-row plots). About 6" of rainfall occurred on July 7-8 triggering excessive pigweed, which was hand weeded. Trial received four 4" furrow irrigations. Head moth pressure was moderate and sprays were effective.

An adjacent confectionary sunflower hybrid trial (9 hybrids) yielded 2,008 lbs./A with an average crop value of \$450/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>