

2010 Oilseed Sunflower Hybrid Trial
Etter, Moore County, Texas

Planted June 29, 2010; harvested October 27, 2010; June-September rainfall, 12.3"

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% H ₂ O (Lbs./A)	%Oil Content	Oil Yield (Lbs./A)	Crop Value¶ (\$/Acre)	Two-Year Average	
												% Oil Content	Yield (Lbs./A)
Advanta	AP462NS	Nu	\$ 15.25	56	77	23,000	29.0	2,736	41.0	1,124	\$ 426	43.3	2,598
Advanta	F51122NS,CL	Nu, CL	\$ 15.25	53	63	21,900	25.0	2,335	38.3	893	\$ 344		
Check	Pioneer 63N82	Nu, EX	\$ 15.25	55	71	22,300	30.1	2,364	41.0	970	\$ 368	42.6	2,329
Croplan	CG 356A NS	Nu	\$ 15.25	54	63	22,500	28.7	2,819	42.2	1,190	\$ 449	43.7	2,963
Croplan	CG 378 DMR NS	Nu	\$ 15.25	57	75	21,200	27.7	2,308	40.0	923	\$ 352	41.7	2,312
Croplan	CG 460 E NS	Nu, EX	\$ 15.25	58	74	23,200	28.7	2,570	41.7	1,071	\$ 405	43.0	2,483
Croplan	CG 559 CL DMR NS	Nu, CL	\$ 15.25	56	75	20,700	29.0	2,655	40.9	1,088	\$ 413		
Mycogen	8H449DM	HO	\$ 16.25	55	74	23,800	29.7	2,778	43.5	1,209	\$ 483	45.1	2,833
Mycogen	8N433DM	Nu	\$ 15.25	54	67	23,900	26.0	2,816	42.6	1,199	\$ 452		
Mycogen	8N453DM	Nu	\$ 15.25	55	73	22,600	29.1	2,922	43.2	1,262	\$ 474	45.8	2,959
Mycogen	8N510	Nu	\$ 15.25	55	70	24,000	27.2	2,443	40.2	982	\$ 374	42.1	2,753
Seeds 2000	Blazer CL	Nu, CL	\$ 15.25	56	74	23,900	27.9	2,506	40.8	1,019	\$ 387	41.9	2,424
Seeds 2000	Firebird	Nu, EX	\$ 15.25	57	68	22,400	26.5	2,092	37.9	794	\$ 306		
Seeds 2000	Sierra	HO	\$ 16.25	59	73	23,200	25.8	1,829	38.0	695	\$ 285	38.6	2,194
Seeds 2000	X6816	Trad.	\$ 15.25	57	74	23,300	27.3	2,096	39.9	835	\$ 319		
Seeds 2000	X9464	HO, CL	\$ 16.25	55	73	23,400	26.5	2,336	38.0	887	\$ 364		
Seeds 2000	X9866	Nu, CL	\$ 15.25	55	70	21,800	27.8	2,505	38.7	969	\$ 372		
Syngenta	3732NS	Nu	\$ 15.25	54	64	22,200	27.9	2,604	41.5	1,082	\$ 410	43.8	2,782
Syngenta	3845HO	HO	\$ 16.25	54	65	20,800	27.2	2,683	42.4	1,136	\$ 456	45.3	2,776
Syngenta	3875NS	Nu	\$ 15.25	54	65	24,800	27.6	2,799	39.7	1,112	\$ 425		
Syngenta	4651 NS/DM	Nu	\$ 15.25	56	77	23,500	28.2	2,311	41.3	955	\$ 362		
Triumph	664	Nu	\$ 15.25	55	77	22,800	30.0	2,818	43.6	1,226	\$ 460	45.5	2,836
Triumph	s668	Nu, SS	\$ 15.25	55	56	23,800	30.1	2,578	44.0	1,136	\$ 425		
Triumph	s673	Nu, SS	\$ 15.25	56	54	23,400	28.6	2,329	42.0	979	\$ 370		
Triumph	s870HCL	HO,CL,SS	\$ 16.25	57	51	20,000	29.8	2,112	43.0	908	\$ 364		
Triumph	s878H	HO, SS	\$ 16.25	56	59	22,700	31.3	2,609	43.2	1,129	\$ 452	45.2	2,561
NuSun Average							28.2	2,553	41.1	1,051	\$ 399	43.3	2,644
High Oleic Average							28.4	2,391	41.3	994	\$ 401	43.5	2,591
Short Stature Average					55		29.9	2,407	43.1	1,038	\$ 403		
Overall Average				56	68	22,800	28.2	2,498	41.1	1,030	\$ 396	43.4	2,629

P-Value (Hybrid)	<0.0001	0.8003	0.0501	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)	1.0	NS	NS	0.7	293	1.2	126	\$ 48
Coefficient of Variation, CV (%)	2.9	13.9	15.8	5.6	13.2	5.0	15.9	15.3

†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 the least significant difference are significantly different at 95% confidence level (NS, not significant).

Trial Notes: The trial was planted in late June, delayed by ~6" of rainfall earlier in June. Stands were thinned by hand in mid-July although population should have been thinned another 2-4K per acre. Yields were comparable to 2009 but with reduce % oil. Trial received three 5" furrow irrigations. Crop values were similar for NuSun, high oleic, and short stature. Head moth pressure was low to moderate; sprays (2) were effective.

An adjacent confectionary sunflower hybrid trial (10 hybrids) yielded 2,012 lbs./A with an average crop value of \$463/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

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