

2011 Oilseed Sunflower Hybrid Trial
Ellis Co., Texas (Bob & Steven Beakley Farm)

Planted March 11, 2011; harvested July 18, 2011; January-July rainfall, 14.0".

Company or Brand	Hybrid	Oil Type†	Days to Half Bloom	Maturity Rating‡ 6/22	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)	2010-2011 Avg.	
												% Oil	Yield (lbs./A)
Seeds 2000	Torino	Nu, CL	85	8.0	69	22,000	30.8	1,620	44.2	717	501		
Seeds 2000	Sierra	HO	86	7.6	62	20,600	24.3	1,666	38.1	635	457	39.0	1,603
Seeds 2000	Daytona	HO, CL	85	7.9	64	22,500	28.2	1,760	42.1	742	523		
Syngenta	3845 HO	HO	81	8.5	57	19,600	26.1	1,878	40.6	763	542		
Syngenta	4596 HO/DM	HO	81	8.1	68	23,100	26.2	1,870	39.2	732	524		
Syngenta	4651 NS/DM	Nu	84	8.0	65	20,600	26.2	1,835	41.5	761	538		
Syngenta	3875 NS	Nu	84	8.2	61	21,600	23.8	1,825	36.7	671	486		
Triumph Seed	s668	Nu, SS	86	7.0	48	21,100	31.1	1,511	48.8	738	507	46.8	1,478
Triumph Seed	s870HCL	HO, SS, CL	88	7.3	41	17,000	29.0	1,360	48.5	660	454		
Triumph Seed	859HCL	HO, CL	88	7.4	66	20,300	29.2	1,546	45.1	697	486		
Dahlgren	4421	Nu	75	9.1	58	21,300	26.1	2,109	37.8	798	575		
Average			84	7.9	60	20,900	27.4	1,725	42.1	720	509		

P-Value (Hybrid)	<0.0001	<0.0001	<0.0001	0.0051	<0.0001	<0.0001	<0.0001	0.0009	0.0003
Fisher's Protected LSD (0.05)§	1	0.5	3	2,600	1.4	152	0.8	69	48
Coefficient of Variation, CV (%)	1.5	8.3	14.2	10	9.2	13.1	9.7	9.4	9.6

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

‡Sunflower growth stages: R6.0, flowering complete, ray petals wilting; R7.0, back of head starts to turn pale yellow; R8.0, back of head yellow bracts remain green; R9.0, bracts yellow and brown, which corresponds to physiological maturity.

¶Typical market pricing in 2011 for Central Texas oilseed is \$28.50/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 least significant difference are significantly different at a 95% confidence level.

Trial Notes: Confectionary growth was outstanding despite the drought conditions, especially in May and June. Near-optimum plant populations were achieved after hand-thinning the test. Sunflower head moth control was excellent using two sprays. Trial was very uniform.

An adjacent confectionary sunflower hybrid trial (10 hybrids) yielded 1,703 lbs./A with average crop value \$473/A.

For further info. about this test and 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>

For further 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>