

**2011 Confectionary 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	Hybrid Type†	Days to Half Bloom	Maturity Rating‡	Plant Height (inches)	Avg. Plants/acre	Test Weight (lbs./bu)	%Seed Retained Over Screen		Seed Yield 10% H2O (lbs./A)	Crop Value (\$/Acre)‡	2010-2011 Avg.	
								>22/64"	>20/64"			%Seed >20/64"	Yield (lbs./A)
Dahlgren	9530		77	9.0	65	15,900	20.2	9.5	38.4	1,796	500	44.9	1,771
Dahlgren	9530 CL	CL	82	8.0	76	16,600	20.9	2.1	31.3	1,813	492	43.4	1,785
Seeds 2000	Jaguar	CL	80	8.4	65	17,500	20.7	5.1	30.4	1,623	438	37.3	1,510
Seeds 2000	Jaguar DMR	CL	78	8.8	64	16,500	20.9	4.0	28.5	1,864	502		
Seeds 2000	Jaguar II	CL	81	8.1	68	16,400	20.4	8.4	39.5	1,720	480		
Seeds 2000	Sundance		80	8.4	69	16,900	22.5	1.2	15.5	1,673	428		
Seeds 2000	X9674		81	8.5	67	17,300	21.0	5.1	25.8	1,566	416		
Triumph Seed	768C		77	8.7	67	15,800	19.7	8.7	39.2	1,654	461	27.6	1,438
Triumph Seed	770CL	CL	83	7.8	74	16,800	21.2	29.8	71.8	1,744	544		
Triumph Seed	777C		80	8.9	69	14,800	20.3	15.9	53.8	1,579	464	50.6	1,662
Average			80	8.4	68	16,400	20.8	9.0	37.4	1,703	473		

P-Value (Hybrid)	<0.0001	<0.0001	<0.0001	0.0822	<0.0001	<0.0001	<0.0001	0.0834	0.0047
Fisher's Protected LSD (0.05)¶	1	0.4	3	NS§	0.6	5.0	10.4	NS*	60
Coefficient of Variation, CV (%)	2.7	5.3	6.1	7.5	3.8	97.4	44.0	10.1	11.9

†CL = Clearfield herbicide tolerant

‡Pricing for 2011 Texas Blacklands at \$34/cwt. large seed (>20/64"), \$24/cwt. small seed.

‡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.

§NS, not significant at 95% confidence level.

¶Numbers in same column that vary by more than the least sig. difference (PLSD) are significantly different at a 95% confidence level.

*Not significant at 95% confidence level, but is significant at 90% confidence level (PLSD, 174 lbs./A).

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.

A second check will be made on confectionary seed sizing, as seed >20/64" seemed low, like in 2010.

An adjacent oilseed sunflower hybrid trial (11 hybrids) yielded 1,725 lbs./A with average crop value \$492/A before oil premium was calculated.

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>