

Planted March 7, 2014; harvested July 28, 2014.

Hybrid	Company or Brand	Oil Type†	Days Half Bloom	Relative Maturity 109 d§	Plant Height (in.)	Avg. Plants/acre	Lodging (%)	Test Weight (lbs./bu)	% Oil Content	Oil Yield (lbs./A)	Seed Yield @10% H2C (lbs./A)	Crop Value‡ (\$/Acre)	2013-2014 Avg.		2012-2014 Avg.	
													% Oil Content	Yield (lbs./A)	% Oil Content	Yield (lbs./A)
08TR003	Biotek Seed	Traditional^	79	8.4	52	24,500	16	29.9	46.6	811	1,742	367^				
8H412CPDM	Mycogen	CP, HO	96	6.5	67	19,700	0	31.3	46.6	849	1,811	384				
8H449CLDM	Mycogen	CL, HO	90	7.5	70	27,000	1	32.6	48.0	1,073	2,234	483	45.7	2,200	46.6	2,247
8H570CL	Mycogen	SS, CL, HO	92	7.0	47	20,800	3	29.8	47.8	601	1,259	271	46.5	1,488	47.8	1,567
8H859CL	Mycogen	CL, HO	95	6.1	77	23,000	1	29.9	47.1	905	1,923	409	44.9	1,983		
Camaro II	Nuseed Amer.	CL, Nu	88	7.6	76	25,300	3	32.7	46.5	1,241	2,670	563	45.0	2,563		
Cobalt II	Nuseed Amer.	CL, HO	88	7.9	70	27,700	4	33.8	46.0	1,181	2,566	536	43.7	2,348		
Falcon	Nuseed Amer.	EX, Nu	91	7.0	69	22,000	2	32.2	47.7	1,125	2,358	508	44.9	2,304	46.0	2,285
Hornet	Nuseed Amer.	CL, HO	90	7.3	70	24,400	4	30.7	46.6	1,203	2,580	545	43.4	2,304		
Sierra	Nuseed Amer.	HO	91	6.9	65	23,700	8	28.4	45.0	1,029	2,287	469	41.8	2,118		
NHK12M054	Nuseed Amer.	CL, HO	88	7.6	69	29,400	1	33.5	46.3	1,179	2,543	534				
X6859	Nuseed Amer.	CL, Nu	92	7.1	73	29,700	0	31.6	46.9	1,307	2,787	591	44.5	2,579		
EX40HOCL	SunOpta	ConOil/CL/HO	90	7.3	77	21,900	11	25.1	37.1	#	2,034	468				
Average			90	7.2	68	24,500	4	30.9	46.0	1,042	2,215	472	44.5	2,210	46.8	2,033
Range--High			96	8.4	77	29,700	16	33.8	48.0	1,307	2,787	591				
Range-Low			79	6.1	47	19,700	0	25.1	37.1	601	1,259	271				

P-Value (Hybrid)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)¶	1	6	3,500	3	0.9	1.2	135	266	61	
Coefficient of Variation, CV (%)	4.5	14.1	15.3	123	7.7	6.1	21.0	16.4	16.1	

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

§June 24. Sunflower growth stages as described at <http://www.sunflowernsa.com/growers/growth-stages/> ranging from R6 (flowering complete, ray petals wilting) to R9 (bracts yellow & brown; physiological maturity).

‡Pricing 2014 for Central Texas oilseed is \$18.65/cwt. and 2-for-1 for oil content ±40%; ConOil is priced at flat rate \$23/cwt. (no oil adjust).

#ConOil hybrids are not crushed for oil but most likely used for whole kernels in the baking industry.

¶Numbers in the same column that vary by more than the least significant diff, (LSD) are significantly different at 95% confidence level.

^There is no current southern U.S. oil market for traditional (neither NuSun nor high oleic) oilseed hybrids (hence birdfood only with no oil check).

Trial Notes:

Excellent trial under rainfed conditions. Bloom dates were 10-14 days longer than expected for Central Texas sunflower likely due to early season conditions that include cooler weather and more cloudy conditions. Sunflower head moth control was good using Prevathon (two

sprays). Plant population for some hybrids was much higher than targeted, which is usually upper teens to low 20 thousands per acre.

An adjacent confectionary sunflower hybrid trial (17 hybrids) yielded 2,017 lbs./A with an average crop value of \$484/A.

For further information about this test or the Texas A&M AgriLife Crop Testing Program, contact Mr. Dennis Pietsch, Crop Testing director,
Texas A&M AgriLife Research, College Station, TX, (979) 845-8505, dpietsch@ag.tamu.edu

Please visit the Crop Testing webpage at <http://varietytesting.tamu.edu> for sunflower and other crop hybrid information.

For additional sunflower production resources for Texas contact Extension agronomist Dr. Calvin Trostle, Lubbock, Texas A&M
AgriLife Extension Service, Lubbock, (806) 746-6101, ctrostle@ag.tamu.edu, or visit <http://lubbock.tamu.edu/sunflower>