2014 Confectionary Sunflower Hybrid Trial
Rio Farms, Monte Alto, Texas
(Limited Irrigation, Lower Rio Grande Valley)

Planted February 20, 2014; harvested up to 10 days early on July 1, 2014 due to increasing bird feeding on adjacent oilseed hybrids.

Company or Brand	Hybrid	Hybrid Type†	Days to Half Bloom	Plant Height (inches)	Avg. Plants/ acre	Lodg-ing %	Test Weight (lbs./bu)	%Seed Retained Over Screen		Yield @ 10% H2O (lbs./A)	Crop Value ($/Acre)‡
								>22/64"	>20/64"		
8C451CP	Mycogen	CP	79	71	15,000	0.0	20.0	12.4	37.6	1,361	300
NTC422	Mycogen		75	65	13,900	2.7	Hybrid heavily damaged by sunflower head moth.				
5009	Nuseed Americas		76	65	14,300	0.8	17.4	8.1	33.6	1,464	315
Jaguar	Nuseed Americas	CL	76	71	13,600	3.4	23.2	7.8	33.3	2,143	466
Jaguar XL	Nuseed Americas	CL	78	80	13,600	3.9	20.7	9.4	39.9	1,626	366
NHW11909	Nuseed Americas		77	72	15,300	0.0	Hybrid heavily damaged by sunflower head moth.				
NHW12759	Nuseed Americas		76	72	14,400	3.4	17.2	16.6	47.5	1,632	378
NHW12983	Nuseed Americas		79	73	13,600	1.0	21.0	11.4	40.8	1,369	307
NHW12984	Nuseed Americas		76	67	8,800	0.0	21.4	9.0	33.2	1,274	274
NHW12985	Nuseed Americas		80	74	14,600	1.6	18.4	29.9	60.5	1,190	293
NSK12M147	Nuseed Americas	CL	80	82	14,600	4.3	21.6	1.5	11.5	1,866	360
X5323	Nuseed Americas	CL	79	74	13,800	7.4	18.4	32.0	64.3	1,452	364
X5326	Nuseed Americas	CL	80	83	13,300	1.1	22.4	14.2	40.6	1,643	371
X5337	Nuseed Americas	CL	80	81	11,900	4.8	19.9	9.8	39.9	1,362	307
X98578	Nuseed Americas		80	71	15,300	0.0	Hybrid heavily damaged by sunflower head moth.				
9521	SunOpta		74	65	13,800	1.5	20.0	20.6	48.9	1,091	260
EX-11CL	SunOpta	CL	78	72	14,400	4.4	19.4	33.5	63.6	1,255	315
	Average		*78*	*73*	*13,800*	*2.4*	*20.1*	*15.4*	*42.5*	*1,480*	*334*
	Range--High		*80*	*83*	*15,300*	*7.4*	*23.2*	*33.5*	*64.3*	*2,143*	*466*
	Range-Low		*74*	*65*	*8,800*	*0.0*	*17.2*	*1.5*	*11.5*	*1,091*	*260*
P-Value (Hybrid)			<0.0001	<0.0001	<0.0001	0.3071	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fisher's Protected LSD (0.05)¶			2	3	2,000	NS	1.9	15.9	14	371	89
Coefficient of Variation, CV (%)			3.0	8.0	14.5	168	15.4	156	37.8	23.9	23.1

†CL = Clearfield herbicide tolerant; CP = Clearfield Plus herbicide tolerant.

‡Pricing 2014 for South Texas confectionary is $29/cwt. for seed >20/64", and $18/cwt. for seed <20/64".

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

Trial Notes:
This trial received limited irrigation via furrow. The trial was harvested shortly after physiological maturity due to increasing bird feeding in adjacent oilseeds. Yields were adjusted for bird damage. Sunflower head moth spray using Prevathon was extended over a period of ~30 days (3 sprays). Some plots had significant sunflower head moth damage (>30-75% per plot), and for this reason seed parameters and yields are not reported for three hybrids. We initially thought that one moth spray might have been missed, but there was no correlation between 50% bloom date and sunflower head moth larvae damage ratings.

An adjacent oilseed hybrid trial (13 hybrids) yielded 1,739 lbs./A with an average crop value of $350/acre.

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