AgriLIFE RESEARCH
Texas A&M System

2011 Confectionary Sunflower Hybrid Trial
Lubbock, Texas

AgriLIFE EXTENSION
Texas A&M System

Planted June 6, 2011; harvested October 11, 2011; June-September rainfall, 2.2"

Company or Brand	Hybrid	Hybrid Type†	Days to Half Bloom	Plant Height (inches)	Avg. Plants/ acre	Test Weight (lbs./bu)	%Seed Retained Over Screen		2011 Yield ,@10% H2O (lbs./A)	2011 Crop Value ($/Acre)‡	2010-2011 Average	
							>22/64"	>20/64"			%Seed >20/64"	Yield (lbs./A)
CHS	RH 400CL	Clearfield	53	46	10,600	20.4	64.9	90.7	1,207	397		
CHS	RH 402CL	Clearfield	61	52	12,000	18.4	67.7	88.5	866	282		
Dahlgren	9530		60	58	10,300	21.1	60.7	86.3	1,738	559		
Dahlgren	9599		60	55	15,300	19.1	49.3	85.1	1,703	548		
Dahlgren	9530CL	Clearfield	61	58	14,000	21.4	36.6	76.5	1,449	449		
Red River	2215		59	53	15,000	22.4	30.0	69.0	1,784	540	63.6	1,977
Red River	2217		60	59	12,500	19.6	52.8	82.5	1,464	466	76.8	1,788
Red River	8015		60	48	13,900	18.8	53.3	86.8	1,469	476	80.7	1,667
Red River	2215 CL	Clearfield	61	58	13,400	19.9	54.2	81.6	1,198	381	71.7	1,782
Red River	EX 1512		61	60	12,500	21.6	38.9	74.2	1,391	429		
Triumph	770 CL	Clearfield	61	59	13,000	17.0	81.9	95.3	928	310	88.8	1,388
Triumph	777C		60	56	14,100	19.3	55.1	80.2	1,451	459		
		Conventional	60	4.6	13,400	20.3	48.6	80.6	1,571	$ 497		
		Clearfield	59	4.5	12,600	19.4	61.1	86.5	1,130	$ 364		
		Overall Average	**60**	**55**	**13,100**	**19.9**	**53.8**	**83.0**	**1,387**	**$ 441**	**76.3**	**1,720**
P-Value (Hybrid)			<0.0001	<0.0001	0.1273	0.0006	<0.0001	0.0036	<0.0001	<0.0001		
Fisher's Protected LSD (0.05)¶			1	0.4	NS§	2.2	16.9	11.6	201	$ 69		
Coefficient of Variation, CV (%)			3.5	9.3	20.7	9.9	31.9	11.9	22.4	21.7		

‡Average pricing for 2011 Texas High Plains at $34/cwt. large seed (>20/64"), $2/cwt. small s §NS, not significant.
¶Numbers in same column that vary by more than the least sig. difference (PLSD) are significantly different at a 95% confidence level.

Trial Notes: This trial was subject to excessive heat and drought conditions in 2011 where season-long rainfall and the number of days at 100°F or higher broke all-time records by considerable margins. Excessive heat and drying conditions after irrigation to establish the stand led to somewhat sporadic stands. Due to rapid drying even more irrigation could have been applied but it was not available. Trial yield CV is high (22.4%), however, this is in part due to the range of yields, 866 to 1.784 lbs./A, which leads to exaggerated %CV when there is a wide range of yields at low total absolute yield. Results were highly significant.

An **adjacent oilseed** sunflower hybrid trial (26 hybrids) yielded 1,978 lbs./A (41.2% oil) with average crop value of $568/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 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