

## 2007 Irrigated Confection Sunflower Variety Performance Trial at Idalia<sup>1</sup>.

Hybrid	Yield <sup>2</sup> lb/ac	Moisture %	Test Weight lb/bu	Plant Height inches	Density plants/ac	Lodging %	Heads Broken Off <sup>3</sup> %	Seed Size				
								Above 22/64 %	22/64 to 20/64 %	20/64 to 18/64 %	18/64 to 16/64 %	16/64 to 14/64 %
CHS Sunflowers 07EXP01	1943	6.8	21.0	71	13619	7.8	6.7	26.0	25.5	31.7	11.5	5.3
Triumph TRX7352C	1905	6.8	21.9	73	14706	13.1	7.9	29.2	35.6	25.6	6.9	2.7
Red River RRC 2215	1889	6.6	22.4	71	14417	11.9	9.2	25.9	31.1	32.3	8.8	1.9
CHS Sunflowers RH1121	1885	6.8	22.6	74	15921	11.2	8.9	50.8	24.0	20.2	3.7	1.3
Red River RRC 7015	1861	6.7	21.7	68	13266	8.1	14.5	17.5	33.6	32.9	11.6	4.4
Goliath RT	1797	6.7	22.9	69	13806	8.8	3.4	12.3	32.6	38.8	11.9	4.4
Mycogen 8C482	1779	6.6	21.2	75	15065	11.9	3.6	20.8	27.0	39.4	10.6	2.2
Seeds 2000 Panther DMR (confection type)	1769	6.5	21.6	62	17488	5.8	5.4	17.3	27.5	40.1	11.8	3.3
Dahlgren 9530	1752	6.6	23.3	73	15136	11.5	12.0	21.5	34.6	32.9	9.1	1.9
Seeds 2000 Panther (confection type)	1752	6.6	24.9	68	14066	7.7	5.7	21.5	28.6	37.9	9.5	2.5
Triumph 767C	1748	6.7	22.1	72	12788	10.0	3.6	31.9	30.7	28.7	6.0	2.7
Red River RRC 2216	1745	6.7	22.3	74	15648	10.8	10.8	27.3	34.5	29.2	6.3	2.7
Dahlgren 9569	1714	6.6	20.9	73	13916	12.7	6.5	19.7	34.5	30.0	13.0	2.8
CHS Sunflowers RH1122	1611	6.7	21.2	73	15915	13.8	5.4	50.5	23.9	17.8	6.0	1.8
CHS Sunflowers 06EXP02	1594	6.9	21.6	71	16108	6.9	12.1	46.1	29.1	16.4	6.0	2.4
Advanta Pacific F39018CF	1579	6.7	23.2	67	17882	4.1	1.0	9.7	17.0	41.9	25.3	6.1
CHS Sunflowers RH316	1550	6.7	19.2	69	15955	6.8	18.3	19.8	25.7	40.7	11.8	2.0
Dahlgren 9531	1489	6.5	23.1	72	17152	11.6	13.8	17.7	30.8	40.3	8.8	2.4
Triumph 777C	1422	6.7	21.2	74	14277	19.2	2.0	49.9	25.5	20.0	3.8	0.8
Dahlgren 9579	1122	6.1	19.5	68	13862	46.0	8.7	28.1	35.0	28.9	6.4	1.6
<b>Average</b>	<b>1695</b>	<b>6.7</b>	<b>21.9</b>	<b>71</b>	<b>15050</b>	<b>12.0</b>	<b>8.0</b>					
<sup>4</sup> LSD <sub>(0.30)</sub>	271	0.2	1.3	3	1200							
<sup>4</sup> LSD <sub>(0.05)</sub>	522	6.9	2.5	6	2311							

<sup>1</sup>Trial conducted on the Dennis Towns farm; seeded 6/8 and harvested 10/20.

<sup>2</sup>Yields corrected to 10% seed moisture.

<sup>3</sup>Severe winds prior to harvest broke some sunflower heads off from the stalks and into neighboring plots. Broken heads could not be harvested so yields and LSD values (of questionable meaning) are based only on harvested heads within the plot.

<sup>4</sup>LSD<sub>(0.30)</sub> is more useful for producers using these results to select a variety but some seed company collaborators wish to use LSD<sub>(0.05)</sub>.

### **Site Information**

Plot Size: 5' x 32' with 30" row spacing

Experimental Design: randomized complete block, 3 replications

Seeding Rate: approximately 20,000 seeds/acre

Previous Crop: corn

Irrigation: sprinkler

Soil Type: Kuma silt loam

Fertilization: 56 lbs N acre<sup>-1</sup>; 19 lbs P<sub>2</sub>O<sub>5</sub> acre<sup>-1</sup>

Herbicide: Sonalan

### **2-Yr Average Irrigated Confection Sunflower Variety Performance Trial at Idalia in 2006-07.**

Hybrid	Yield	Moisture	Test
			Weight
	lb/ac	%	lb/bu
Mycogen 8C482	1936	7.2	21.5
Triumph 777C	1748	7.7	21.0
Sigco Sun Goliath RT	1732	6.8	22.7
Red River 2215	1726	7.0	22.6
Red River 2216	1701	7.3	22.2
Triumph 767C	1697	8.0	21.9
CHS Sunflowers RH1122	1623	5.9	20.4
Dahlgren 9530	1591	6.8	22.9
Dahlgren 9569	1589	8.1	21.5
<b>Average</b>	<b>1705</b>	<b>7.2</b>	<b>21.8</b>