

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

Hybrid	Yield <sup>2</sup> lb/ac	Moisture %	Test Weight lb/bu	Plant Height inches	Density plants/ac	Lodging %	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 %
Dahlgren 9530	3277	9.3	21.9	67	13637	4.8	42.7	29.7	22.2	4.3	1.1
Red River RRC 7015	3229	12.7	18.1	64	8423	2.2	58.8	24.5	12.7	3.2	0.8
CHS Sunflowers RH1121	3154	9.5	21.2	70	13165	0.7	73.8	17.2	6.7	2.0	0.3
Dahlgren 9531	3091	9.9	21.2	63	13230	2.8	60.2	23.3	13.9	2.6	0.0
Dahlgren 9569	2908	9.9	20.5	77	12383	1.6	37.0	32.6	20.7	7.2	2.5
CHS Sunflowers RH1122	2900	12.3	19.7	73	12848	1.3	78.6	13.0	6.3	1.9	0.2
Dahlgren 9579	2860	10.5	18.0	71	13769	0.7	60.9	21.3	12.6	4.5	0.7
Red River RRC 2216	2817	9.0	21.0	69	14054	1.1	46.6	36.5	13.3	3.2	0.4
Red River RRC 2215	2730	9.9	20.4	66	13345	3.4	55.4	25.9	16.1	2.1	0.5
CHS Sunflowers 07EXP01	2681	13.3	18.5	70	8184	0.0	64.2	18.1	14.3	3.0	0.4
CHS Sunflowers 06EXP02	2668	10.6	20.3	69	12576	0.9	83.4	10.4	4.0	1.6	0.6
Mycogen 8C482	2644	11.6	18.7	63	11103	1.5	54.8	27.6	11.7	4.2	1.7
CHS Sunflowers RH316	2605	12.4	19.0	67	12142	0.9	27.5	42.0	25.4	3.8	1.3
Seeds 2000 Panther (confection type)	2554	10.8	19.1	72	11080	12.1	57.2	24.5	13.5	3.3	1.5
Seeds 2000 Panther DMR (confection type)	2519	10.0	22.2	68	12714	1.5	38.3	31.5	23.7	5.3	1.2
Triumph 777C	2476	10.0	18.6	62	13997	1.3	67.9	18.5	9.0	3.2	1.4
<b>Average</b>	<b>2819</b>	<b>10.7</b>	<b>19.9</b>	<b>68</b>	<b>12291</b>	<b>2.3</b>					
<sup>3</sup> LSD <sub>(0.30)</sub>	257	2.2	1.4	2	1532						
<sup>3</sup> LSD <sub>(0.05)</sub>	498	4.3	2.6	3	2967						
CV%	10.6										

<sup>1</sup>Trial conducted on the BLM, LLC farm; seeded 6/5 and harvested 10/10/07.

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

<sup>3</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: Richfield loam

Fertilization: 40 lbs N acre<sup>-1</sup>; 26 lbs P<sub>2</sub>O<sub>5</sub> acre<sup>-1</sup>; 0.2 lbs Zn acre<sup>-1</sup>; 3 lbs S acre<sup>-1</sup>

Herbicide: Round-up, Spartan, Prowl H<sub>2</sub>O, Arrow EC

Insecticide: Methyl Parathion, Warrior T