

Confection sunflower hybrid yield trial, Casselton, ND, 2008.

Brand	Hybrid	Type	Yield (lbs/A)	Days to Flower	Days to Maturity	Height (in.)	Head diameter (in.)	Lodging (0 to 9)	Phomopsis (%)	Sclerotinia head rot (%)	Sclerotinia stalk rot (%)
CHS	07EXP02	Trad.	2314	75	121	82	7.67	1.7	69.4	2.1	0.0
CHS	08EXP 02	CL	2787	73	119	74	7.83	2.3	81.4	3.5	2.7
CHS	08EXP 03	Trad.	2378	77	126	78	7.58	1.7	48.8	5.5	0.9
CHS	Royal Hybrid RH1121	Trad.	2963	76	125	83	8.50	1.7	59.1	0.0	0.0
Croplan	135	Trad	2433	72	117	73	8.50	2.7	87.6	6.2	0.9
Croplan	139	Trad	2313	75	119	77	7.92	2.3	68.1	6.2	0.0
Dahlgren and Co	9530	Trad.	3154	73	121	76	8.25	1.7	65.0	4.6	1.9
Dahlgren and Co	95EXPCL	CL	3078	79	125	86	8.50	1.3	50.8	4.5	0.0
Mycogen	8C451	Trad.	2638	78	121	75	7.42	2.3	75.6	6.7	1.0
Red River Commodities	RRC 2215	Trad	3182	77	122	80	7.75	1.7	77.5	1.7	0.0
Red River Commodities	RRC 2216	Trad	3354	77	121	83	7.75	2.0	42.6	3.5	2.6
Red River Commodities	RRC 2419	Trad	2741	80	126	75	8.08	2.0	25.6	0.0	0.9
Seeds 2000	Badger	CL	3049	76	125	75	8.42	1.7	55.1	3.0	0.0
Seeds 2000	Bison	Trad	2225	77	125	80	7.17	2.7	72.5	4.6	0.0
SunOpta	SS38A	HO	2788	73	118	69	7.92	2.3	33.1	0.9	0.0
Triumph	747c	Trad.	2353	72	127	72	6.92	3.3	72.5	0.9	2.6
USDA	Hybrid 924	Trad.	2257	71	121	75	7.67	4.0	59.9	6.4	1.0
Trial Mean			2706	75	122	77	7.87	2.2	61.4	3.5	0.9
C.V. (%)			12.7	2.9	1.4	4.6	9.6	44.6	20.5	87.0	191.2
LSD 5%			573	4	3	6	1.26	1.6	20.9	5.1	2.7

Planted May 21, 2008; dessicated Sept. 27, 2008; harvested Oct.29, 2008.

Type: CL = Clearfield, HO = High oleic, Trad = Traditional

Yield is reported at 10% moisture.

Lodging was judged on a 0-9 scale, with 0 = no lodging and 9 = all plants prostrate.

Percentages of Phomopsis and Sclerotinia rots are based on the number of plants within a plot that were infected. Infected plots were harvested.

Screening test= % of seed retained by a 22/64, 20/64, and 18/64" hole screen.

Seed Size is in inches. L=length and W=width.

Flowering and maturity are indicated by days after planting. Days to maturity for Hysun 311 = 118, Cargill 270 = 119, and P6451 = 119

Moisture	Test						
	weight	Screening test			Seed size		Nut-meat
(%)	(lbs/bu)	>22/64	>20/64	>18/64	L (in.)	W (in.)	(%)
9.8	23.5	69.8	87.7	95.9	0.81	0.32	47.1
9.1	19.8	84.3	98.2	99.5	0.83	0.34	50.3
9.0	24.4	73.7	93.5	98.7	0.72	0.32	52.7
9.5	23.3	80.1	92.7	97.7	0.64	0.36	50.3
8.0	20.7	84.9	95.0	98.8	0.72	0.37	46.9
8.1	19.7	95.1	99.0	99.4	0.70	0.39	48.8
9.4	22.6	76.6	92.0	97.3	0.67	0.34	51.2
10.9	22.2	79.7	92.5	97.3	0.70	0.35	48.7
9.7	24.0	83.8	94.1	97.9	0.67	0.33	53.5
9.9	23.4	60.0	86.3	96.6	0.64	0.33	52.8
9.6	23.4	77.2	92.4	97.0	0.68	0.33	51.1
10.6	21.9	69.2	89.3	96.9	0.73	0.32	47.3
9.5	29.6	0.4	2.9	25.6	0.50	0.24	66.1
9.3	22.3	64.0	87.0	97.0	0.75	0.31	50.4
9.1	24.1	51.5	74.7	92.3	0.50	0.33	60.7
10.0	22.1	64.3	87.3	96.1	0.75	0.32	51.6
9.7	24.5	40.9	73.8	91.0	0.59	0.36	52.8
9.5	23.0	68.0	84.6	92.6	0.68	0.33	51.9
5.3	6.0						
0.9	2.3						