

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

Brand	Hybrid	Type	Yield	Oil	Seedling vigor	Days to flowering	Days to maturity	Plant height	Head diameter	Lodging	Phomopsis	Sclerotinia head rot	Sclerotinia stalk rot	Moisture	Test weight	Hulling screen test
			(lbs/A)	(%)	(1-5)			(in.)	(in.)	(0-9)	(%)	(%)	(%)	(%)	(lb/bu)	
Advanta	F30008NS,CL	NS,CL	2895	37.6	3.0	76	123	76	7.08	1.0	28.2	0.6	1.8	8.9	28.1	
Advanta	F51122NS,CL	NS,CL	2628	39.9	2.7	74	118	76	6.58	2.0	48.0	7.5	1.2	7.5	29.0	
Advanta	F51132NS,CL	NS,CL	2419	41.3	3.0	74	120	74	6.75	1.3	63.5	2.4	3.0	7.5	26.8	
Advanta	F51137NS,CL	NS,CL	2403	38.5	3.0	75	121	74	6.83	1.7	45.1	4.1	0.0	8.6	31.2	
Advanta	F51139NS,DM,CL	NS,DM,CL	3208	37.9	3.0	76	122	76	7.00	1.3	33.6	2.3	4.0	7.7	31.9	
Advanta	F51179NS,DM	NS,DM	3053	42.3	3.3	73	121	72	7.00	2.0	48.2	6.5	0.6	9.0	28.7	
CHS	08EXP01	NS	2871	34.6	3.0	76	124	75	7.92	2.0	86.0	7.7	0.8	9.2	25.3	
Croplan	306 DMR NS	NS	2975	40.9	3.0	72	122	72	6.75	2.0	42.7	4.3	0.0	8.3	29.3	
Croplan	3080 DMR NS	NS	2766	44.1	3.0	72	119	74	6.58	1.7	38.8	3.6	0.6	7.8	27.6	
Croplan	325 DMR NS	NS	2856	41.8	3.3	73	121	73	6.75	1.0	20.1	3.0	0.6	8.3	27.3	
Croplan	356 NS	NS	3044	41.5	3.0	77	124	73	7.00	2.0	47.6	1.2	0.6	9.7	29.6	
Croplan	369 DMR NS	NS	3296	40.7	3.3	73	123	78	6.50	1.7	24.7	3.0	1.8	9.2	28.9	
Croplan	528 CL NS	CL	2219	41.6	2.7	74	119	75	6.00	3.0	47.3	4.9	0.6	8.3	29.9	
Croplan	551 CL NS	CL	2705	39.0	2.7	75	127	85	7.17	2.3	26.2	0.6	0.0	8.2	27.1	
Croplan	564 CL NS	CL	2968	42.9	3.0	77	124	80	6.92	1.7	25.6	1.9	0.0	10.7	30.2	
Croplan	803 DMR NS	NS	2322	43.6	3.3	70	117	70	7.08	1.7	57.9	7.2	2.3	7.7	30.1	
Dahlgren and Co	4455	NS	3570	37.6	3.3	74	121	76	6.08	2.0	13.3	2.3	1.7	7.8	27.9	
DeKalb	DKF29-30	NS/DM	2591	42.1	3.0	72	121	71	6.67	2.0	56.9	3.0	1.8	6.7	26.7	
DeKalb	DKF34-33	NS/DM	2543	42.3	3.3	76	120	74	7.08	2.7	45.1	6.1	1.8	7.2	30.5	
DeKalb	DKF34-80CL	NS/DM/CL	2530	41.1	3.0	76	121	73	6.50	1.7	28.9	4.5	2.1	7.2	25.8	
DeKalb	DKF37-31	NS	3262	42.0	3.0	76	123	73	7.08	3.0	35.9	1.3	2.6	8.9	30.0	
DeKalb	DKF38-45	NS	3152	43.9	2.3	76	121	71	8.08	2.7	40.9	0.6	1.2	7.8	28.2	
DeKalb	DKF39-80CL	NS/CL	3042	39.5	2.7	77	126	84	7.50	2.3	29.1	0.0	0.6	8.5	26.3	Fail
DeKalb	IS6131	NS/DM	2725	42.2	3.0	72	119	68	6.58	1.7	35.3	5.5	0.6	7.3	29.7	
DeKalb	IS7120	HO/DM	2913	40.7	3.0	74	121	70	6.42	1.7	49.4	3.7	1.9	8.3	28.7	
Dyna-Gro	91H44	HO	2610	46.1	3.3	71	120	70	6.75	2.7	40.3	5.9	4.1	8.0	29.1	
Dyna-Gro	92N53	NS/DM	2775	46.0	3.0	73	120	75	7.08	2.7	66.5	6.0	1.2	7.0	29.0	
Dyna-Gro	93H11	HO	2533	43.8	2.7	74	117	78	6.58	2.3	52.7	6.4	4.1	8.8	27.9	
Dyna-Gro	94C38	NS/CL	2870	38.4	3.3	75	124	78	7.25	2.3	24.1	1.3	3.3	9.7	27.9	
Dyna-Gro	94N82	NS	2810	42.7	3.0	76	127	78	6.58	1.3	24.7	2.4	0.0	8.3	29.2	
Monsanto	MH6640	NS/DM	3177	42.3	3.0	75	126	68	6.67	2.3	17.1	10.6	0.6	8.4	28.4	
Monsanto	MH6643	NS/DM	2897	40.5	3.7	74	122	72	6.33	2.0	48.4	1.2	0.6	9.3	28.4	
Monsanto	MH7632	NS/DM	3474	42.7	3.0	74	124	71	7.00	1.7	32.0	1.9	1.2	9.3	30.5	
Monsanto	MH7633	NS/DM	3507	40.5	3.0	76	122	74	7.25	3.3	54.8	3.1	0.6	9.5	29.3	
Mycogen	8D310	NS	2437	35.8	3.0	72	117	78	6.83	2.0	31.0	7.3	0.6	6.7	23.6	Exc.
Mycogen	8D481	NS	3627	37.6	3.3	73	124	76	5.92	1.3	8.7	1.2	1.7	6.7	28.5	Exc.
Mycogen	8H288DM	HO, DM	2563	45.4	3.3	70	120	72	7.00	1.7	74.1	7.1	0.6	8.1	29.2	
Mycogen	8H350DM	HO,DM	2820	42.9	3.3	72	119	76	7.33	2.0	50.6	3.1	0.0	7.6	27.3	
Mycogen	8H449DM	HO,DM	3810	44.2	3.0	75	126	77	7.58	2.7	42.0	5.8	1.8	9.5	30.0	
Mycogen	8N187	NS	2965	40.2	3.3	73	121	68	7.00	2.0	44.6	10.1	1.7	8.5	28.4	Fail
Mycogen	8N270	NS	2457	41.2	3.0	71	123	66	6.50	2.3	59.1	3.0	1.8	8.3	30.5	Avg.
Mycogen	8N337DM	NS, DM	2311	44.1	3.0	72	120	72	6.75	3.0	52.8	4.7	3.6	7.0	29.8	
Mycogen	8N358 CL DM	NS,DM,CL	3165	43.3	3.0	71	123	73	6.50	3.0	21.4	0.0	5.4	7.9	27.7	
Mycogen	8N358CLDM	NS,DM,CL	3005	42.9	3.5	75	122	76	7.38	3.5	43.7	1.7	2.7	8.7	29.2	
Mycogen	8N453 DM	NS,DM	3672	46.1	3.0	77	120	78	6.75	2.0	13.1	0.0	0.0	8.6	30.1	
Mycogen	8N453DM	NS,DM	3218	44.1	2.5	75	124	74	6.13	3.5	41.0	3.6	1.7	9.0	30.5	
Nidera	KN8636	DM HO	3044	41.1	3.3	74	123	76	6.33	1.0	18.1	4.7	2.3	9.3	28.2	
Nidera	KN9035	DM NS CL	2868	41.8	3.0	76	122	83	6.17	1.7	41.5	0.6	0.0	8.4	29.2	

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			(lbs/A)	(%)	(1-5)			(in.)	(in.)	(0-9)	(%)	(%)	(%)	(%)	(lb/bu)	
Pannar	PAN 7813	NS	3235	40.3	2.7	76	124	78	7.08	2.3	43.9	0.6	0.6	9.7	29.5	
Pannar	PAN 7924	NS	3248	39.3	3.3	76	123	78	8.00	1.3	30.0	3.2	0.0	9.7	26.0	
Pannar	PAN 9404	Trad	3501	39.6	3.0	74	122	76	7.00	2.7	32.7	2.5	1.9	8.8	29.5	
Pannar	PEX 8579	NS	2509	42.2	3.0	74	122	71	6.92	2.3	47.2	9.0	0.6	9.6	28.1	
Pioneer	63M91	NS	3281	43.3	3.3	72	119	78	7.17	1.0	40.5	2.4	1.8	8.8	30.4	Fail
Pioneer	63N82	NS- Express	2979	42.7	3.0	73	122	75	6.75	1.7	20.5	0.0	0.0	9.5	30.5	Fail
Pioneer	64H41	HO	3154	39.4	3.0	74	120	82	6.67	1.7	27.0	0.6	1.2	9.9	31.8	
Proseed	6007	NS, CL	2960	38.9	2.7	76	119	86	6.83	2.7	32.3	0.0	0.0	9.7	32.5	
Proseed	6008	NS, CL	2605	36.4	2.0	77	121	79	7.08	3.3	61.9	0.7	2.2	9.6	28.2	
Proseed	6481	NS	2431	39.3	3.3	75	122	80	6.25	2.7	24.0	4.3	1.9	9.1	27.4	
Proseed	7016	NS, CL	2170	35.1	2.0	79	120	81	6.17	4.3	44.1	1.2	2.7	9.2	28.1	
Proseed	7025	NS, CL	2100	34.7	1.3	77	121	76	7.42	5.3	50.0	1.5	2.7	8.3	27.8	
Proseed	7052	NS, CL	2333	42.1	3.0	75	120	82	6.92	4.0	51.6	1.9	1.2	9.3	30.4	
Proseed	7069	NS, CL	1913	38.0	2.0	78	121	79	6.75	3.7	67.2	0.6	1.3	8.1	29.5	
Proseed	7207	NS, CL	2398	37.6	3.0	77	124	80	6.25	2.0	57.5	1.2	1.8	6.4	26.2	
Proseed	E-5	NS, DM	2998	36.8	2.3	76	127	82	7.17	2.3	9.6	0.0	0.0	8.4	27.5	
Proseed	E-6	NS, DM	3200	38.7	3.3	76	123	80	7.00	2.0	26.0	0.6	1.2	7.4	25.2	
Proseed	E-7	NS, DM	2407	37.7	3.3	73	123	82	6.75	2.0	10.5	0.0	0.0	8.0	24.9	
Proseed	E-85	HO, DM	2686	38.8	3.3	73	121	84	7.00	2.3	36.9	1.8	0.0	8.0	25.4	
Seeds 2000	Barracuda CL-NS	CL, NS	3049	43.2	3.0	78	126	80	7.08	2.0	36.9	0.7	2.6	10.0	29.8	
Seeds 2000	Blazer CL-NS	CL, NS	3147	41.0	2.3	79	124	81	7.42	2.3	49.7	1.2	0.6	10.4	27.8	
Seeds 2000	Firebird EXPSUN-NS	NS	2833	38.4	2.7	79	126	67	7.33	1.7	51.0	3.0	2.5	8.5	26.4	
Seeds 2000	SPS 06EX05	Trad	3116	41.9	2.7	81	128	73	7.67	2.0	18.4	2.4	0.6	9.3	27.8	
Seeds 2000	SPS 3G509 RM	Trad, DM	3028	39.7	3.0	82	126	81	6.83	1.0	15.0	1.2	0.6	9.8	28.4	
Seeds 2000	SPS 3H593 AO	HO	2623	42.5	3.3	75	124	84	7.00	3.0	10.1	1.2	1.3	8.1	26.9	
Seeds 2000	Sierra HO	HO	2956	39.4	3.0	80	125	77	7.42	2.3	51.7	4.2	0.0	8.8	25.2	
Triumph	5672	NS	2503	42.1	2.7	78	126	58	6.92	1.0	10.4	8.5	0.0	8.6	25.2	
Triumph	TRXDM8340	NS	2826	43.2	3.0	73	122	70	7.50	2.0	22.8	10.6	4.1	7.3	27.7	
Triumph	TRXs 7322	NS	2270	42.9	3.0	77	125	51	7.58	1.3	59.1	12.1	1.8	7.1	25.2	
Triumph	TRXs671	NS	2247	41.7	3.0	78	125	60	7.00	1.3	8.5	5.4	1.2	7.8	27.4	
USDA	Hybrid 441/468	Trad	1908	41.3	3.7	74	122	83	6.25	1.7	23.4	0.0	0.0	7.7	28.5	
USDA	Hybrid 894	Trad	2284	39.9	3.3	74	122	81	6.42	3.0	58.0	3.7	3.1	8.6	29.1	
Trial Mean			2805	40.9	3.0	75	122	75	6.88	2.2	37.9	3.3	1.4	8.4	28.4	
C.V. %			13.5	3.2	18.3	2.1	1.7	4.6	8.8	36.8	52.1	82.9	147.3	12.0	4.6	
LSD 5%			612	2.1	0.9	3	3	6	1.00	1.3	32.4	4.5	3.3	1.6	2.1	

Planted May 21, 2008; desiccated Sept. 27, 2008; harvested Oct.30, 2008.

Type: HO = High oleic, NS = NuSun, Trad = Traditional, CL = Clearfield, Express = ExpressSun, DM = Downy Mildew resistant

Yield is reported at 10% moisture.

Seedling vigor was judged on a 1-5 scale with 1 = much below average vigor, 3 = average vigor, and 5= much above average vigor.

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.

Hulling test: Average = 75% of seed over a 13/64 inch screen; Excellent = 65% of seed over a 14/64 inch 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