

**NDSU Langdon Research Extension Center
2010 Hybrid Trial Data**

Oil Sunflower - 2010 (page 1)

Langdon

Brand	Hybrid	Hybrid Type ¹	Days to Flower	Plant Height	Head Rot ²	Stalk Rot ³	Broken Stems ⁴	Oil ⁵	Test Weight	Yield				
										@ 10% moisture			Average	
										2008	2009	2010	2yr	3yr
			(days)	(inch)	(%)	(%)	(%)	(%)	(lb/bu)	----- (lbs/a) -----				
Croplan Genetics	306 DMR NS	NS, DMR	75	65	14	18	0	42.3	31.0	2199	1176	2120	1648	1832
Croplan Genetics	3080 DMR NS	NS, DMR	74	64	15	22	0	42.7	30.1	1967	862	1737	1299	1522
Croplan Genetics	356A NS	NS	79	66	16	37	0	42.3	31.5	--	--	1935	--	--
Croplan Genetics	460 E NS	NS, EX	79	74	10	19	1	43.3	31.4	--	1336	1777	1556	--
Croplan Genetics	555 CL DMR NS	NS, CL, DMR	77	71	7	11	3	41.7	29.7	--	1438	2265	1852	--
Croplan Genetics	559 CL DMR NS	NS, CL, DMR	80	73	5	14	0	41.3	30.4	--	--	2397	--	--
Croplan Genetics	564 CL NS	NS, CL	79	72	6	42	12	40.0	31.7	--	--	1743	--	--
Dalhgren	4421	NS	72	67	18	28	0	36.0	27.8	2486	1649	2304	1977	2146
Genosys	6007	NS, CL	79	72	6	33	16	39.0	33.9	--	--	1711	--	--
Genosys	7052	HO, CL	79	73	11	24	32	38.7	35.5	--	--	1281	--	--
Genosys	7163	NS	77	68	7	27	0	39.0	29.6	--	--	2437	--	--
Genosys	8037	NS, CL	81	71	12	26	12	39.3	32.9	--	--	1664	--	--
Genosys	8064	HO, CL	82	72	0	13	5	34.7	33.1	--	--	1618	--	--
Integra Fortified Seed	516 NSDM	NS, DMR	78	66	11	31	3	41.3	31.6	--	--	1525	--	--
Integra Fortified Seed	735 NSCLDM	NS, CL, DMR	76	69	8	35	0	38.7	30.0	2056	1124	1803	1463	1661
Integra Fortified Seed	IX09-95010 NSDM	NS, DMR	72	59	12	33	1	43.7	33.5	--	729	1704	1216	--
Integra Fortified Seed	IX10-10576	NS, CL	79	73	16	13	0	40.3	33.1	--	--	2358	--	--
Integra Fortified Seed	IX10-94 NSSU	NS, EX	79	69	13	44	0	38.0	30.4	--	--	1756	--	--
Mycogen Seeds	8N270CLDM	NS, CL, DMR	73	69	11	28	0	41.0	32.2	1866	1309	2265	1787	1813
Mycogen Seeds	8H288CLDM	HO, CL, DMR	75	66	20	17	0	41.0	30.5	1651	847	2060	1454	1519
Mycogen Seeds	8N358CLDM	NS, CL, DMR	76	68	11	21	0	42.3	30.6	2173	1298	1961	1630	1811
Mycogen Seeds	8D310	NS	73	68	5	37	0	34.7	28.0	2270	1678	2100	1889	2016
Mycogen Seeds	8D481	NS	79	75	5	43	0	37.3	33.0	--	1118	1684	1401	--
Mycogen Seeds	8H449DM	HO, DMR	79	69	21	30	0	42.0	32.2	--	--	1539	--	--
Pioneer Brand	P63ME70	NS, EX, DMR	78	72	6	15	0	41.7	30.9	--	--	1889	--	--
Pioneer Brand	P64HE01	HO, EX, DMR	76	68	4	16	6	39.3	35.3	--	--	2139	--	--
Proseed	E-85	NS, DMR	76	73	9	20	0	39.3	28.7	1944	1430	2021	1725	1798
Proseed	E-4	NS, DMR	75	69	12	31	0	37.3	29.9	--	1547	1875	1711	--
Proseed	E-8	NS, DMR	76	74	2	21	4	39.0	30.3	--	1525	2126	1826	--
Proseed	CL9001	NS, CL	75	66	6	47	0	39.0	31.1	--	1324	1823	1573	--

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Brand	Hybrid	Hybrid Type ¹	Days to Flower	Plant Height (inch)	Head Rot ² (%)	Stalk Rot ³ (%)	Broken Stems ⁴ (%)	Oil ⁵ (%)	Test Weight (lb/bu)	Yield				
										@ 10% moisture			Average	
										2008	2009	2010	2yr	3yr
										(lbs/a)				
Seeds 2000	Cobra	NS, EX	76	63	11	27	0	41.0	29.8	--	--	2034	--	--
Seeds 2000	Defender Plus	NS, DMR	75	64	7	34	1	39.7	31.4	2069	1158	1948	1553	1725
Seeds 2000	X9866	NS, CL, DMR	80	72	1	36	2	40.7	29.4	--	--	1869	--	--
Seeds 2000	X9828	NS, CL, DMR	79	68	4	30	0	38.0	31.5	--	--	2338	--	--
Syngenta	2930 NS/DM	NS, DMR	73	67	15	26	0	41.7	31.4	1971	1382	1849	1616	1734
Syngenta	3433 NS/DM	NS, DMR	79	64	21	40	4	40.3	31.1	1897	1382	2133	1758	1804
Syngenta	3480 NS/CL/DM	NS, CL, DMR	79	72	3	23	10	43.7	31.5	2143	891	1869	1380	1634
Syngenta	7120 HO/DM	HO, DMR	72	61	7	26	0	39.0	32.3	2258	877	1836	1356	1657
Syngenta	3980 NS/CL	NS, CL	81	75	8	32	0	41.3	30.8	--	1049	1829	1439	--
Triumph	610CLD	NS, CL, DMR	76	63	18	31	6	39.0	31.8	--	--	1763	--	--
USDA	894	TRAD	75	69	11	28	10	42.0	29.3	2051	986	1948	1467	1662
Trial Mean			77	68	10	28	3	40.0	31.2	2007	1196	1934	--	--
C.V. %			1.6	4.6	69	52	220.6	3.4	3.1	13.1	21.4	17.9	--	--
LSD 5%			2.0	5.1	11	NS	10.9	2.2	1.6	425	417	562	--	--

¹Type: HO = High Oleic, NS = NuSun, Trad = Traditional, CL = Clearfield, EX= Express, DMR = Downy Mildew Resistant.

²Sclerotinia head rot. Indicates percent incidence of head rot for each hybrid. It does not indicate severity.

³Sclerotinia stalk rot. Indicates percent incidence of basal or mid-stalk rot for each hybrid.

⁴Broken stems were laying flat on the ground. Breakage may have resulted from stalk rot, phoma, insects, or wind. Plants were not harvested.

⁵Oils were adjusted to 10% moisture. Oil % of NuSun and Traditional hybrids were adjusted for oil type.

Planting Date: May 18

Harvest Date: October 14

