

2010 Oil Type Sunflower Variety Trial – Continuously Cropped, No-till

Hettinger, N. Dakota

Cooperator: Alfred Rose, Hettinger

Brand	Hybrid	Oil Type & Traits	Days to Bloom	Days to Mature	Plant Height	Test Weight	Oil Content	Seed Yield			Avg. Yield	
								2008	2009	2010	2 yr	3 yr
		*	**	**	inches	lbs/bu	%	pounds / acre				
Triumph Seed	s678	NS,SS	76	122	31	30.1	43.3	1448	1914	2528	2221	1963
	s878	HO,SS	77	124	40	31.2	43.1	1220	1844	1918	1881	1661
	s668	NS,SS	78	120	34	30.6	40.9			2791		
	s8420	NS,SS	79	126	38	--	45.3			2069		
	610CLD	NS,CL,DM	73	116	45	31.0	42.9			1543		
Proseed	E-8	NS,DM	77	125	33	31.1	43.8		1887	2755	2321	
	7001CL	NS,CL	77	120	36	32.2	40.8		1860	2197	2028	
	E-85	HO	72	117	42	--	42.5			1728		
Mycogen	8H449	HO,DM	76	121	38	34.0	43.1	1636	2798	2404	2601	2279
	8N358	NS,CL,DM	74	119	41	31.1	43.7	1494	2428	2132	2280	2018
	8D481	NS	75	124	46	27.7	43.4	1655	1817	1784	1800	1752
	8H288	HO,CL,DM	72	119	48	32.2	42.0		2352	2059	2206	
	8D310	NS	71	118	45	27.5	43.4		2290	1694	1992	
Croplan Genetics	460	NS,EX	76	122	47	29.6	43.1			2736		
	559	NS,CL,DM	76	123	54	33.0	41.7			2458		
	3080	NS,DM	72	120	41	31.5	41.5	1066		2049		
	306	NS,DM	73	124	42	31.2	44.5	1157		1799		
	555	NS,CL,DM	74	119	46	30.2	41.6			1781		
Seeds 2000	Firebird	NS,EX	77	123	40	31.2	40.9	1580	2622	2664	2643	2289
	Blazer	NS,CL	78	121	45	31.3	40.1	1207	2112	2565	2338	1961
	x9828	NS,CL,DM	74	118	47	31.7	42.4			2106		
	x9866	NS,CL,DM	76	123	45	29.9	43.3			2003		
	Cobra	NS,EX	73	118	39	--	42.9			1668		
Integra Seed	IX10-94	NS,EX	77	119	47	31.3	43.4			2168		
	IX10-96	NS,EX	78	119	49	--	43.7			1894		
	IX10-98	NS,EX	76	119	46	31.4	44.5			1866		
	IX10-10576	NS,CL	76	119	52	32.9	44.6			1657		
	724	NS,CL	75	120	46	32.4	43.9			1544		
Syngenta	3433	NS,DM	74	119	42	32.8	42.8	980	2814	2978	2896	2257
	3845	HO	74	120	42	32.6	42.6	1393	2320	2160	2240	1958
	3480	NS,CL,DM	74	122	41	30.8	43.5	1070	2111	2505	2308	1895
	3980	NS,CL	78	125	51	--	43.1	1127	1921	1668	1794	1572
	7120	HO,DM	72	122	39	--	44.9	825	1635	1979	1807	1480
	3875	NS	76	121	45	32.4	42.8		2342	3151	2746	
	3732	NS	75	120	43	33.2	44.5		2497	2803	2650	
	4651	NS,DM	76	120	45	30.0	44.8			2665		

continued

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								2008	2009	2010	2 yr	3 yr
		*	**	**	inches	lbs/bu	%	----- pounds / acre -----				
Genosys	6007	NS,CL	76	119	49	31.7	41.6	1038	2283	2088	2186	1803
	7052	HO,CL	76	117	52	--	38.4		2072	1916	1994	
	7163	NS	74	120	42	28.3	43.6			2363		
	8037	NS,CL	76	116	51	--	45.3			1983		
	8064	HO,CL	78	119	46	--	41.1			1948		
Trial Mean			75	120	44	31.4	42.9	1106	2040	2169	--	--
CV %			1.5	1.2	7.2	3.1	5.8	8.5	14.6	12.8	--	--
LSD .05			1	2	4	1.4	NS	131	405	389	--	--
LSD .01			2	3	6	1.8	NS	173	536	514	--	--

* Oil Type & Traits: NS = NuSun, HO = high oleic, CL = Clearfield, DM = downy mildew resistant, EX = Express herbicide tolerant, SS = short stature.

** Days to Bloom / Maturity = the number of days from planting to 10% bloom / physiologic maturity.

Planting Date: May 17, 2010

Harvest Date: November 8, 2010

Seeding Rate: 19,000 seeds / acre.

Row Spacing: 28" Previous Crop: HRSW Soil Type: Sandy Loam

Notes: Oil content and seed yields are based on 10% moisture. The 2008 trial sustained late season moisture stress. The 2009 trial sustained moderate hail damage. The 2010 trial sustained moderate lodging cause by a wind storm.