

2009 Oil Type Sunflower Variety Trial – Continuously Cropped, No-till

Hettinger, N. Dakota

Cooperator: Alfred Rose, Hettinger

Brand	Hybrid	Oil Type & Traits	Days to Bloom	Plant Height	Test Weight	Oil Content	----- Seed Yield -----			Avg. Yield	
							2007	2008	2009	2 yr	3 yr
		*	**	inches	lbs/bu	%	----- pounds / acre -----				
Triumph Seed	s7322	NS, SS, DMR	83	36	27.7	40.9		1403	1277	1340	
	s671	NS, SS	84	39	28.7	41.7		1683	1213	1448	
	s672	NS, SS	82	34	28.1	44.2		1309	1268	1288	
	s678	NS, SS	85	42	28.5	42.4	1839	1448	1914	1681	1734
	s878 HO	HO, SS	84	45	28.1	38.9		1220	1844	1532	
Proseed	E-8	NS, DMR	83	55	28.2	39.5			1887		
	6007	NS, CL	83	56	30.5	38.3		1038	2283	1660	
	7052	NS, CL	82	57	29.1	39.6			2072		
	7207	NS, CL	83	56	27.2	38.4		903	1766	1334	
	7001CL	NS, CL	83	53	26.9	36.9			1860		
	9001CL	NS, CL	81	49	26.8	36.6			1831		
Mycogen	8D310	NS	79	47	25.8	38.1			2290		
	8D481	NS	83	48	28.1	38.3		1655	1817	1736	
	8H449	HO, DMR	82	51	29.6	38.9	1904	1636	2798	2217	2113
	8H358	NS, CL, DMR	82	50	27.8	40.4	1447	1494	2428	1961	1790
	8H288	HO, CL, DMR	78	48	28.5	37.3			2352		
Pioneer Hi-Bred	63N82	NS, SU	81	42	28.4	38.4		1408	2545	1976	
	63M91	NS	81	46	29.4	41.8		1210	2174	1692	
Seeds 2000	Firebird	NS, SU	84	48	26.4	37.9	1647	1580	2622	2101	1950
	Sierra	HO	85	44	25.1	35.1	1929	1577	2224	1900	1910
	Blazer CL	NS, CL	83	48	28.0	36.9	2021	1207	2112	1660	1780
	Barracuda	NS, CL	84	47	27.1	37.0	1485	1203	2718	1960	1802
Integra Seed	516	NS, DMR	81	48	28.4	38.4			2078		
	735	NS, CL, DMR	82	42	26.8	37.1	1014	897	1536	1216	1149
	51139	NS, CL, DMR	82	53	28.2	37.2			1989		
	737	NS, CL, DMR	84	58	25.0	36.2	1392	1186	1737	1462	1438
Syngenta	DKF29-30	NS, DMR	78	48	27.0	40.4	997	726	1132	929	952
	IS 7120	HO, DMR	76	43	27.6	36.7	1171	825	1635	1230	1210
	DKF34-33	NS, DMR	80	49	30.2	42.2	1381	980	2814	1897	1725
	DKF37-31	NS	81	45	28.6	40.3	1141	1010	2490	1750	1547
	DKF37-32	NS	81	45	27.0	39.2			2497		
	DKF38-75	NS	82	46	28.0	39.2			2342		
	DKF38-45	HO	82	44	29.0	40.5	1637	1393	2320	1856	1783
	MH 9001	NS, CL	84	54	26.7	35.9			2131		
	MH 9002	NS, CL	82	54	29.0	37.4			1784		
	DKF39-80	NS, CL	83	50	26.4	37.3		1127	1921	1524	
	DKF34-80	NS, CL, DMR	80	47	27.1	39.7	1262	1070	2111	1590	1481

continued

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							2007	2008	2009	2 yr	3 yr
		*	**	inches	lbs/bu	%	----- pounds / acre -----				
E. mat. check	Hysun 311		78	48	27.6	39.7		627		1475	
M. mat. check	Mycog. 270		79	41	28.1	37.6		975		2010	
L. mat. check	P6451		83	46	27.0	41.0		968		2495	
Oil check	USDA 894		81	51	26.6	36.9		834		1875	
Trial Mean			82	48	27.8	38.8	1333	1106	2040	--	--
CV %			2.0	7.9	3.2	3.6	13.3	8.5	14.6	--	--
LSD .05			2	5	1.2	2.0	248	131	405	--	--
LSD .01			3	7	1.6	2.6	328	173	536	--	--

* Oil Type: NS = NuSun, HO = high oleic

* Traits: CL = Clearfield, DMR = downy mildew resistant, SU = Express herbicide tolerant, SS = short stature.

** Days to Bloom = the number of days from planting to 10% Bloom.

Planting Date: May 27, 2009

Harvest Date: November 9, 2009

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 on June 24.