

**North Central Research Extension Center—Minot
Sunflower Variety Trial—Oilseed**

Sunflower Variety Trial—Oilseed															Seed Yield				
Company/Brand	Variety	Oil Type ¹	Hybrid Type ²	DMR ³	Days 50% Flower	Days to Maturity	Plant Height	Lodge	Harvest Moisture %	Seed Weight g/1000	Seeds/ Pound	Test Weight lb/bu	Oil ⁴ %	lb/A					
														2009	2010	2011	Year	Year	
Advanta US Inc.	0238 NS/SU	NS	E	unknown	68	90	68	4.0	15.0	48.1	9492	30.9	43.1	--	--	859	--	--	
Advanta US Inc.	3651 NS/CL	NS	CL	unknown	68	92	70	5.5	13.6	57.9	7898	29.2	40.6	--	--	1144	--	--	
Advanta US Inc.	4551 NS/CL	NS	CL	unknown	69	89	72	5.5	10.4	50.0	9117	29.7	41.3	--	--	1248	--	--	
Advanta US Inc.	4651 NS/CL	NS	CL	unknown	70	91	70	6.3	10.2	50.6	8983	30.1	41.0	--	--	1004	--	--	
Advanta US Inc.	6752 NS/SU	NS	E	unknown	69	92	69	5.5	13.2	46.7	9728	32.1	42.1	--	--	1136	--	--	
Advanta US Inc.	6838 NS/SU	NS	E	unknown	68	89	71	3.5	9.2	52.4	8711	31.8	41.5	--	--	1352	--	--	
Advanta US Inc.	6852 NS/SU	NS	E	unknown	64	88	62	3.3	10.0	42.6	10683	34.6	42.5	--	--	725	--	--	
Advanta US Inc.	6938 NS/SU	NS	E	unknown	69	90	68	4.5	11.4	48.3	9421	31.0	42.4	--	--	1477	--	--	
Advanta US Inc.	6952 NS/SU	NS	E	unknown	65	90	61	5.0	11.6	44.0	10377	32.2	41.0	--	--	723	--	--	
Advanta US Inc.	7052 NS/SU	NS	E	unknown	68	95	66	6.0	14.4	42.4	10727	32.1	41.5	--	--	1181	--	--	
Croplan Genetics	442 E NS	NS	E	N	70	95	65	5.0	16.7	52.8	8606	29.9	44.9	--	--	1511	--	--	
Croplan Genetics	460 E NS	NS	E	N	70	95	67	4.5	14.5	59.0	7723	30.5	45.2	1893	2529	1297	1913	1906	
Croplan Genetics	559 CL DMR NS	NS	CL	Y	69	95	82	1.3	12.3	49.4	9208	31.7	44.5	--	--	2926	2445	2686	
Croplan Genetics	548 CL DMR NS	NS	CL	Y	67	90	73	1.8	9.6	49.2	9232	29.5	41.2	--	--	2163	--	--	
Dahlgren & Company	DO-2012CLDM	HO	CL	Y	65	91	70	3.0	11.4	52.5	8678	32.4	42.0	--	--	1565	--	--	
Dahlgren & Company	DO-4421	NS	Conv	N	65	93	72	3.3	14.7	82.1	5571	28.2	36.2	--	--	2131	--	--	
Dahlgren & Company	DO-44EXCL	NS	CL	N	65	93	75	2.0	13.7	77.2	5885	28.0	37.9	--	--	2323	--	--	
Elite Seeds	ES Ballistic CL	HO	CL	Y	68	95	79	2.3	14.6	67.5	6731	30.3	38.7	--	--	2268	--	--	
Elite Seeds	ESTR 10402	--	--	--	68	94	70	4.3	13.2	53.3	8569	31.2	42.3	--	--	2172	--	--	
Elite Seeds	ES Ethic	HO	Conv	N	68	95	80	7.0	14.0	54.5	8524	30.9	37.0	--	--	1098	--	--	
Elite Seeds	Pacific	HO	Conv	Y	69	95	77	3.8	16.2	54.6	8319	27.6	39.3	--	--	1795	--	--	
Elite Seeds	Pomar	Trad.	Conv	Y	70	95	76	5.0	13.1	57.5	7960	29.7	42.3	--	--	1746	--	--	
Genosys	8037	HO	CL	Y	69	91	71	6.3	11.6	50.6	8988	32.8	39.2	--	--	1087	--	--	
Genosys	9008	NS	Conv	Y	70	90	75	4.5	10.6	50.2	9131	32.4	39.7	--	--	1241	--	--	
Genosys	9319	NS	Conv	Y	70	90	74	5.5	11.5	47.0	9712	33.1	43.8	--	--	857	--	--	
Integra Fortified Seed	735 NSCLDM	NS	CL	Y	66	91	68	5.5	10.1	60.7	7605	31.5	41.4	2118	2412	1117	1764	1882	
Integra Fortified Seed	756 NSCL	NS	CL	N	69	92	74	1.8	11.6	58.0	7843	33.6	41.9	--	--	1870	--	--	
Integra Fortified Seed	IX09-95010 NSDM	NS	CL	N	70	93	74	4.0	15.8	59.1	7692	29.1	40.6	--	--	1084	--	--	
Integra Fortified Seed	IX10-94 NSSU	NS	E	N	70	91	70	5.0	11.4	56.3	8081	30.4	39.9	--	--	2802	1020	1911	
Mycogen Seeds	8D310	NS	Conv	N	66	94	73	2.0	12.6	78.4	5798	29.2	39.4	2555	2514	2388	2451	2486	
Mycogen Seeds	8D481	NS	Conv	N	71	95	72	5.8	17.0	73.6	6186	30.7	41.1	2472	2426	1831	2129	2243	
Mycogen Seeds	8H288CLDM	HO	CL	Y	67	94	70	4.8	12.9	40.9	11149	32.4	43.2	1829	2763	1316	2040	1969	
Mycogen Seeds	8H449CLDM	HO	CL	Y	71	95	66	6.8	18.6	38.3	11880	32.7	43.8	2142	3066	1443	2255	2217	
Mycogen Seeds	8N270CLDM	NS	CL	Y	66	91	69	3.0	10.7	50.9	8956	32.8	43.9	1835	2462	1435	1948	1911	
Mycogen Seeds	8N358CLDM	NS	CL	Y	69	91	69	6.0	14.4	45.2	10134	30.6	44.2	1992	2709	1483	2096	2061	
Mycogen Seeds	8N421CLDM	NS	CL	Y	69	90	73	1.0	13.5	47.7	9645	31.4	43.4	--	--	1779	--	--	
Mycogen Seeds	E80159CLDM	NS	CL	Y	61	89	58	6.0	11.1	44.2	10426	31.2	42.9	--	--	1133	--	--	

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Company/Brand	Variety	Oil		DMR ³	Days		Plant Height	Lodge	Harvest Moisture	Seed Weight	Seeds/ Pound	Test Weight	Oil ⁴	lb/A					
		Type ¹	Hybrid Type ²		50% Flower	Days to Maturity								2009	2010	2011	Year	3	
PROSEED INC.	E-10	NS	Conv	Y	DAP ⁵ 71	95	81	6.3	24.3	62.0	7329	27.4	38.6	--	--	1428	--	--	
PROSEED INC.	E-14	NS	Conv	Y	70	95	68	6.8	13.2	55.0	8295	31.7	39.5	--	--	1311	--	--	
PROSEED INC.	E-21CL	NS	CL	Y	68	94	76	5.5	12.6	58.5	7799	32.9	38.5	--	--	1767	--	--	
PROSEED INC.	E-22CL	NS	CL	Y	67	94	81	4.3	12.0	62.0	7335	32.5	37.7	--	--	1955	--	--	
Seeds 2000	Badger	Trad.	CL	N	67	94	74	3.0	13.4	80.7	5632	29.8	37.8	--	--	2222	--	--	
Seeds 2000	Camero	NS	CL	Y	70	95	75	1.8	16.4	54.9	8286	31.5	41.9	--	--	1836	--	--	
Seeds 2000	Defender Plus	NS	--	Y	68	92	67	3.0	9.5	47.6	9544	31.2	41.5	1802	1948	1537	1743	1762	
Seeds 2000	Falcon	NS	E	N	69	95	69	1.3	13.9	44.7	10168	31.4	42.4	--	--	1890	--	--	
Seeds 2000	Torino	NS	CL	N	71	95	77	4.5	23.3	52.5	8656	30.8	42.5	--	--	1947	--	--	
Seeds 2000	X9822	HO	CL	Y	68	94	71	1.5	14.5	54.7	8320	30.8	39.9	--	--	1398	--	--	
Syngenta Seeds	3158 NS/CL/DM	NS	CL	Y	68	95	66	3.5	14.0	45.2	10063	29.6	43.1	--	--	1930	--	--	
Syngenta Seeds	NX01162	NS	CL	Y	68	94	67	4.3	11.6	45.8	9920	29.4	38.4	--	--	1565	--	--	
Syngenta Seeds	NX82758	NS	CL	Y	68	95	70	2.3	12.9	49.2	9246	31.5	44.5	--	--	2039	--	--	
Syngenta Seeds	3480 NS/CL/DM	NS	CL	Y	70	94	71	2.0	11.2	48.3	9436	31.4	43.6	1831	2699	1916	2307	2149	
Syngenta Seeds	3495 NS/CL/DM	NS	CL	Y	69	91	75	1.8	11.0	56.0	8126	31.8	41.6	--	--	2067	--	--	
Syngenta Seeds	3990 NS/CL/DM	NS	CL	Y	70	94	75	2.3	15.3	53.0	8570	29.3	41.6	--	--	1670	--	--	
Syngenta Seeds	3733 NS/CL/DM	NS	Conv	Y	70	94	68	2.5	10.8	57.0	7984	34.0	45.2	--	--	2125	--	--	
Syngenta Seeds	3995 NS/SU	NS	E	N	70	95	72	2.5	12.9	47.9	9513	30.7	40.5	--	--	1942	--	--	
Syngenta Seeds	4596 HO/DM	HO	Conv	Y	68	95	79	2.3	13.3	49.8	9138	33.8	42.6	--	--	2295	--	--	
Triumph Seed Co. Inc.	TRXs10424	NS	Conv	N	73	95	61	3.8	13.8	42.8	10618	30.7	45.8	--	--	1595	--	--	
Triumph Seed Co. Inc.	810HCLD	HO	CL	Y	68	92	68	6.3	11.9	57.8	7911	29.5	42.0	--	--	1110	--	--	
Triumph Seed Co. Inc.	TRXs11430HOD	HO	Conv	Y	71	95	56	3.8	18.6	37.5	12210	31.0	42.3	--	--	1459	--	--	
Triumph Seed Co. Inc.	TRX11345CLD	NS	CL	Y	69	95	78	4.8	13.2	58.6	7768	28.8	45.1	--	--	1406	--	--	
LSD 5%	--	--	--	--	3	3	5	2.7	3.6	8.3	1378	2.1	2.1	454	411	478	--	--	
C.V. %	--	--	--	--	1.5	1.5	5.2	47.8	19.0	7.7	7.9	4.9	3.6	16.8	11.9	21.6	--	--	
Mean	--	--	--	--	93	93	71	4.0	13.4	53.6	8748	31.0	41.6	1934	2501	1577	--	--	

Trial was planted on May 26 with a seeding rate of 22,000 PLS and harvested on October 20.

¹ Oil Type: NS = NuSun, HO = High Oleic, Trad = Traditional

² Hybrid Type: C = Conventional, CL = Clearfield, E = Express.

³ Downy Mildew Resistance: Y = yes, N = no. Downy mildew resistance information provided by company.

⁴ Oil % adjusted based on oil type.

⁵ DAP = Days after planting.

⁶ Lodging score based on scale 0-9 (0 = upright, 9 = flat).

Bold varieties commercially available.